

The Architects' JOURNAL for January 15, 1948 Vol. 107 No. 2762 Registered as a Newspaper

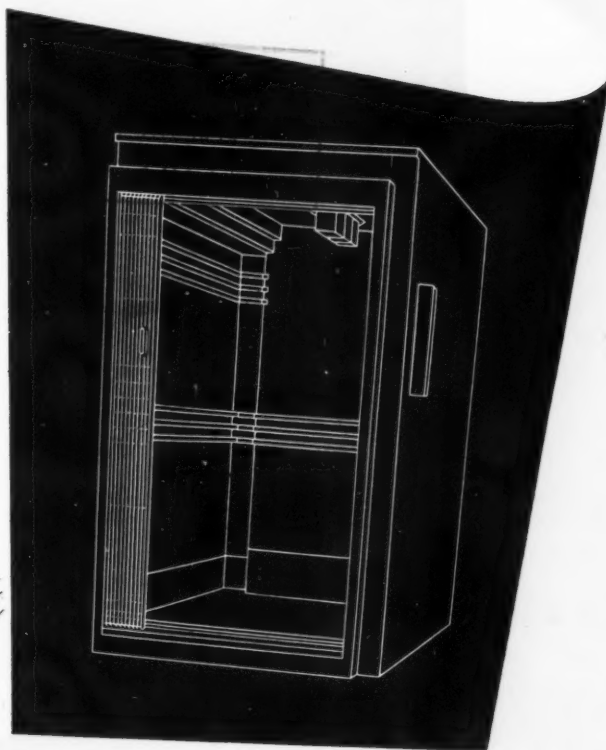
# T H E A R C H I T E C T S '

## N E W Y E A R I S S U E

PRICE: NINEPENCE

FINE ARTS DEPT  
STACK

REFRIGERATION · ESCALATORS · LIFTS



**J. & E. HALL** Ltd

**DARTFORD, KENT**

Telephone: Dartford 3456

London Office: 10 St. Swithin's Lane, EC 4

Telephone: Mansion House 9811

**HARPER  
HOUSEWARES**



**HARPER**

No. 3161

**CONVECTOR**

*Gas Radiator*

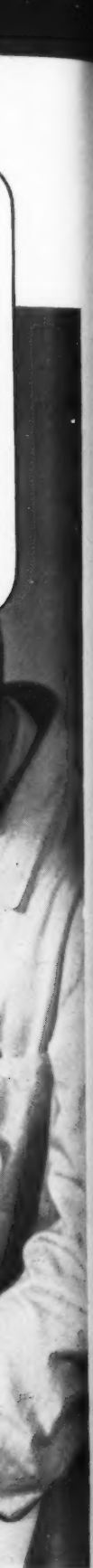
Handsome in appearance and highly efficient in operation, the Harper 3161 Gas Radiator works on the convective principle with a governed gas consumption of 18 cu. ft. per hour. Eminently suitable for heating offices, shops, flats and houses, it is available for delivery in crackle black or coinage bronze finishes.

Full details on application.

JOHN HARPER & COMPANY LTD. . ALBION WORKS . WILLENHALL . STAFFS.  
London Office: Chandos House, Buckingham Gate, S.W.1 . Phone: ABBey 3184

(R) H 159





STAFFS.  
Key 3184

H 159



**The most reliable  
gate you can buy**

A typical Bolton Gate application in a large municipal transport garage.



**BOLTON**

COLLAPSIBLE

**GATES**

LONDON OFFICE: 248, PERTH ROAD, ILFORD, ESSEX

Bolton Gates are particularly suitable for transport undertakings and can be supplied up to 30 ft. high and 200 ft. wide. Hand or power operated, their long, trouble-free life has led to large numbers being supplied for bus garages. Send the coupon for new catalogue.

Pin this to your Card or Letter Heading

We should be glad to receive details of BOLTON GATES for

together with your Catalogue, giving the complete range.

A.J.15/1/48

**BOLTON GATE COMPANY LTD., BOLTON, LANCs.**

dm DG 7

## Galvanized Mild Steel GUTTERS

**in any Size, Gauge or Section**

"HARCO" Mild Steel Gutters, up to and including  $\frac{1}{4}$ -in. plate, are supplied as standard with pressed socket ends, as shown; thicker than  $\frac{1}{4}$ -in. plate riveted or welded butt straps are supplied.

**"Harco"**

The section illustrated indicates a few of the patterns we manufacture. Any section can be made to suit customers requirements. When sending inquiries please state size, and gauge of material required.

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

# Get your quota

**THIS EASIER WAY**



**Y**our bank offers a free service that enables you to invest your money in National Savings Certificates without trouble or effort. Whether you want to make a block purchase or invest a regular sum every month, you have only to sign a Banker's Order Form. The Bank will do the rest free of charge.

You can hold 1,000 of the new 10/- Savings Certificates—and they will become £650 in ten years' time. With Income Tax at 9/- this is equivalent to a taxable investment yielding £4 16s. 8d. per cent. If you are paying more than 9/- in the £ it is even more attractive.

Savings Certificates are a gilt-edged investment: ask your Bank Manager to tell you all about the easy way of buying them.

## **SAVE—***The Bank Way*



## POTTERY THROUGH THE AGES · NO. 11



Specially drawn by Gordon Nicoll, R.I.

## PERSIAN AND ISLAMIC INFLUENCES

During the sixth century B.C., Persia annexed the Babylonian-Chaldean and Egyptian Empires; two hundred years later, Alexander the Great defeated Persia. There followed further vicissitudes, of which the Arabian-Islamic conquest of the seventh century A.D. and the Mogul invasion of the thirteenth century proved of outstanding cultural import. Throughout all these changes, Persian potters carried on the ancient Babylonian and Egyptian ceramic traditions, especially glazing and enamelling.

From the earliest years of Islam, Mohammedan merchants traded in the Far East and Chinese porcelain became a challenge and inspiration to Persian craftsmen and artists who—encouraged by the Caliphs—achieved great renown. Islamic pottery of the Near East forms an important link between eastern and western traditions. It is, in general,

characterised by a soft loose-grained sandy body, of grey or buff earthenware, covered with a transparent siliceous glaze. In certain types of ware, tin was added to the glaze to render it opaque. Geometrical and arabesque decorations predominate, although the Moslem bias against depicting living creatures was not rigidly observed by Persian artists, who frequently painted scenes of court life and the chase, in a very delicate style.

Many Islamic glazes and mat polychrome enamels achieved a unique softness of colour and a subdued splendour that is peculiarly attractive. Near Eastern wares painted in black under a pale turquoise glaze are outstandingly beautiful and the Turkish pottery made at Iznik in the sixteenth century (often misnamed Rhodian or Damascus ware) is unequalled for its opaque tomato red, luminous blue,

turquoise and aubergine-purple colourings. An unusual technique practised by some Persian potters was the "pierced ware" in which parts of the design were cut away and the interstices filled in with clear translucent glaze.

The art of lustre painting with metallic pigments, fired in a reducing atmosphere, was a Near Eastern invention. The lustre vases and bowls of Rakka and Rhages are excellent examples of this technique which was used also with brilliant effect and splendour in the tile-work of mosques and public buildings.

It is doubtful if true porcelain was ever made in Persia but some of the Persian "blue and white" rivals Ming ware in appearance. After the Mogul invasion, Persian and Chinese ceramics influenced each other to an ever-increasing extent.



## DOULTON &amp; CO. LIMITED

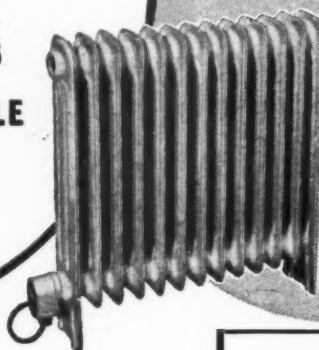
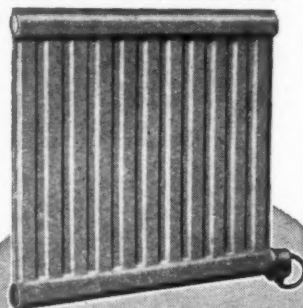
DOULTON HOUSE · ALBERT EMBANKMENT · LONDON · S.E.1

Makers of Fine China and Earthenware, Porcelain Insulators, Laboratory Porcelain, Chemical Stoneware, Ceramic Filters, Sanitary Earthenware and Fireclay, Stoneware Pipes and Conduits, etc.

WORKS: BURSLEM, DUDLEY, ERITH, HANLEY, LAMBETH, STOKE-ON-TRENT, TAMWORTH.

# If you're looking for a Heater with these advantages

**NO BOILERS      NO PIPES  
NO FUEL          NO LABOUR  
NO MAINTENANCE WHATSOEVER  
LOW INSTALLATION COSTS  
ECONOMIC RUNNING COSTS  
CLEAN: SAFE: UNBREAKABLE  
THERMOSTATIC CONTROL**



Available in  
a wide range  
of sizes and  
in two types:—  
(a) Wall type  
(b) Floor type

*Specify*

# Hurseal

PAT. NO. 542267

HURSEAL HEATERS ARE AVAILABLE FOR EXPORT WITHOUT RESTRICTION. CONSULT US FOR HOME MARKET REQUIREMENTS.



The use of hermetically sealed oil as a heat diffusing medium was originally conceived and patented by Hurseal. This trademark is your protection against inferior imitations.

ALL ENQUIRIES TO:—

HURSEAL LTD., 229/231 REGENT STREET, LONDON, W.1: REGENT 1267

## SPECIFICATION

**BODY:** Pressed Steel.

**ELECTRIC HEATING ELEMENT:**

Contained in a mild steel sheath and head, which is welded into the body, thus giving a perfect seal.

**HEAT DIFFUSING MEDIUM:**

A special heat-transfer mineral oil of exceptional stability and high flash point, which is hermetically sealed.

**HEATER RATING:**

Ranging from 0.5 to 2 kW.

**VOLTAGE:** From 100 to 240 A.C.

**HEATING SURFACE:** 20 sq. ft. per kW.

**NORMAL OPERATING TEMPERATURE:**

Approx. 160°F.

**AIR THERMOSTATIC CONTROL:**

Can be provided and is recommended, to ensure the most efficient and economical operation.



THE BUILDING CENTRE  
USE THIS  
  
9 CONDUIT STREET-W1

254F.

D. ANDERSON & SON LIMITED, STRET福德, MANCHESTER  
Also at LONDON, BIRMINGHAM, BELFAST, GLASGOW, LEEDS, NOTTINGHAM



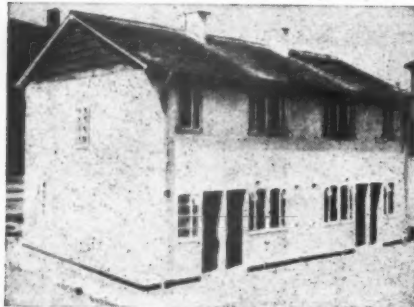
# INDISPENSABLE IN MODERN HOUSING CONSTRUCTION..

'FLEUR DE LIS' BRAND

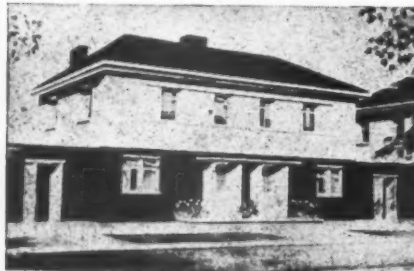
# "FIXITS"

What is a "FIXIT"? It is one of an extensive range of metal parts produced specially for modern housing construction. Wherever cladding of special type is required, "FIXITS" will solve the problem. Already adopted by leading building authorities on many housing schemes including L.C.C., Surrey County Council, Poplar Borough Council, etc., etc.

## FOR INTERNAL AND EXTERNAL CLADDING



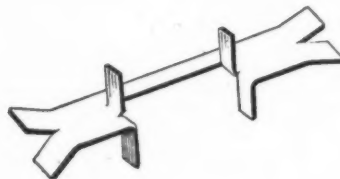
CRANWELL TYPE CONSTRUCTIONS



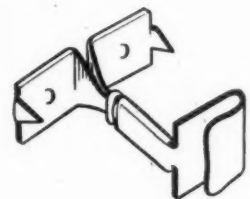
UNITY STRUCTURES LTD.  
ARCHITECT: G. K. FINDLAY



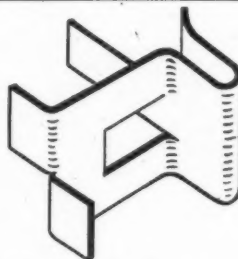
B.I.S.F. ARCHITECT: F. GIBBERD, F.R.I.B.A., A.M.T.P.I.  
CONSULTING ENGINEER: DONOVAN H. LEE,  
B.Sc., M.I.C.E., M.I.MECH. E., M.I. STRUCT. E.



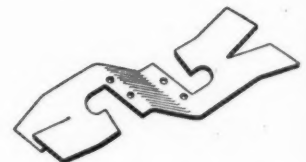
Clip for holding wood wool slab to brick



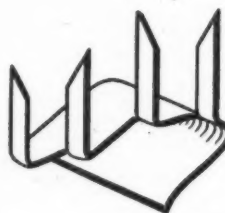
Ratchet Clip



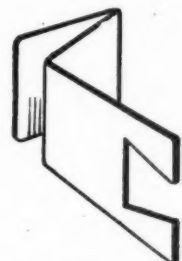
Steel Stanchion Clip for concrete slabs



Clip to hold brick to steelwork  
for all R.S.J. sizes



Clip to fix wood framing to R.S. joints

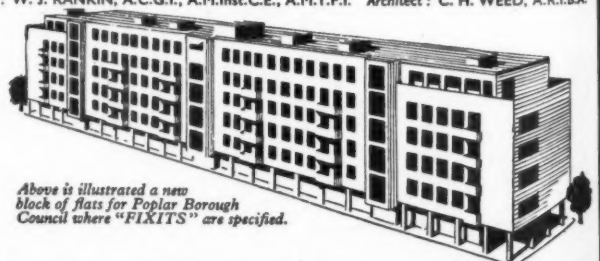


Clip for holding concrete or wood wool slabs  
to steel stanchions

Borough Engineer & Surveyor: W. J. RANKIN, A.C.G.I., A.M.Inst.C.E., A.M.T.P.I. Architect: C. H. WEED, A.R.I.B.A.

### Why not make use of our advisory service?

Six special type "FIXITS" are shown here—we could just as well show sixty more and you still might not find the particular "FIXIT" you need. Probably it is not made yet. That is where our research and experimental department can be so useful. Most of the wide range of "FIXITS" were evolved in collaboration with architects and building authorities to meet some special purpose. Let us know your difficulty and we will probably solve it and add yet another "FIXIT" to this growing family of many parts.



Above is illustrated a new block of flats for Poplar Borough Council where "FIXITS" are specified.

MANUFACTURED BY THOMAS FRENCH & SONS LTD., CHESTER ROAD, MANCHESTER 15

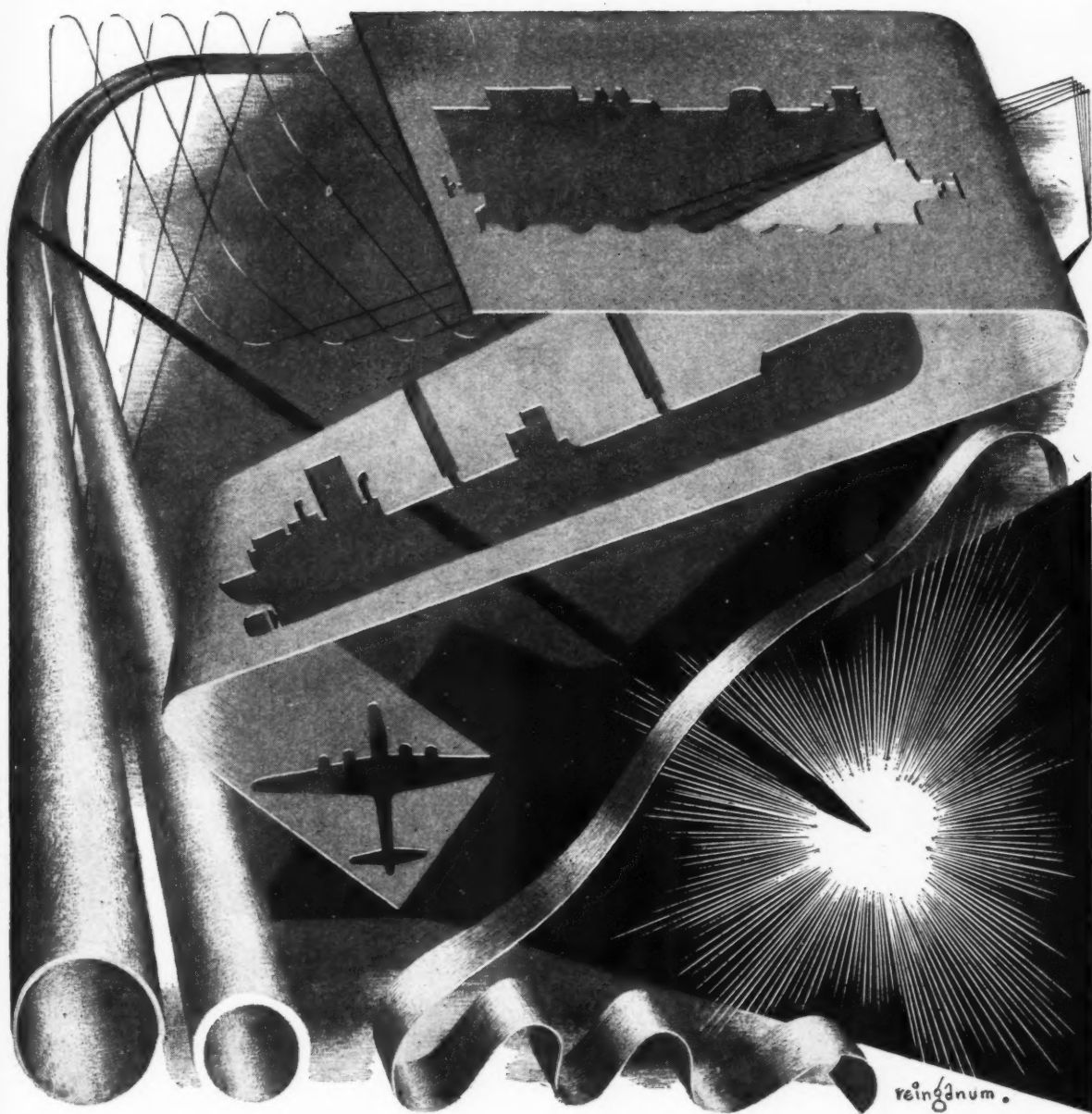
Factories: Manchester, Wythenshawe & Fall River, Mass., U.S.A.

Also British Empire Building, New York City.

London Office: 156-162 Oxford Street, W.1.

Canada: 751 Victoria Square, Montreal.





# Non-ferrous metals in all forms for all purposes



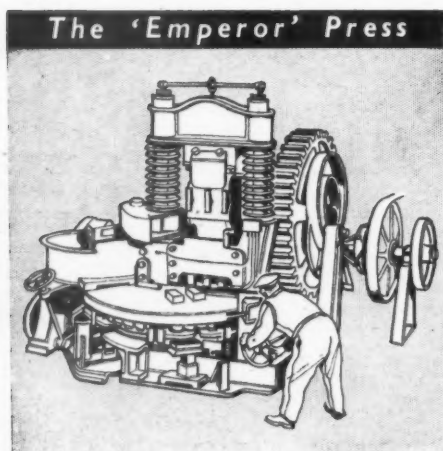
IMPERIAL CHEMICAL INDUSTRIES LIMITED, LONDON, S.W.1.  
M.117

what makes sand such a good  
building material?



Given supplies of siliceous sand, lime and water, all you need to turn out large quantities of first-class bricks is the necessary equipment and information. As pioneers in the construction of plant and equipment for the manufacture of all types of non-plastic bricks, we are always glad to assist with advice and technical details. We supply a complete range of plant and equipment and

undertake the erection of complete brickworks, and hand them over in working order.



The 'Emperor' Press (illustrated on left) exerts a total working pressure of 200 tons and has a maximum output of from 2,500—3,000 bricks per hour.

## Sutcliffe Speakman

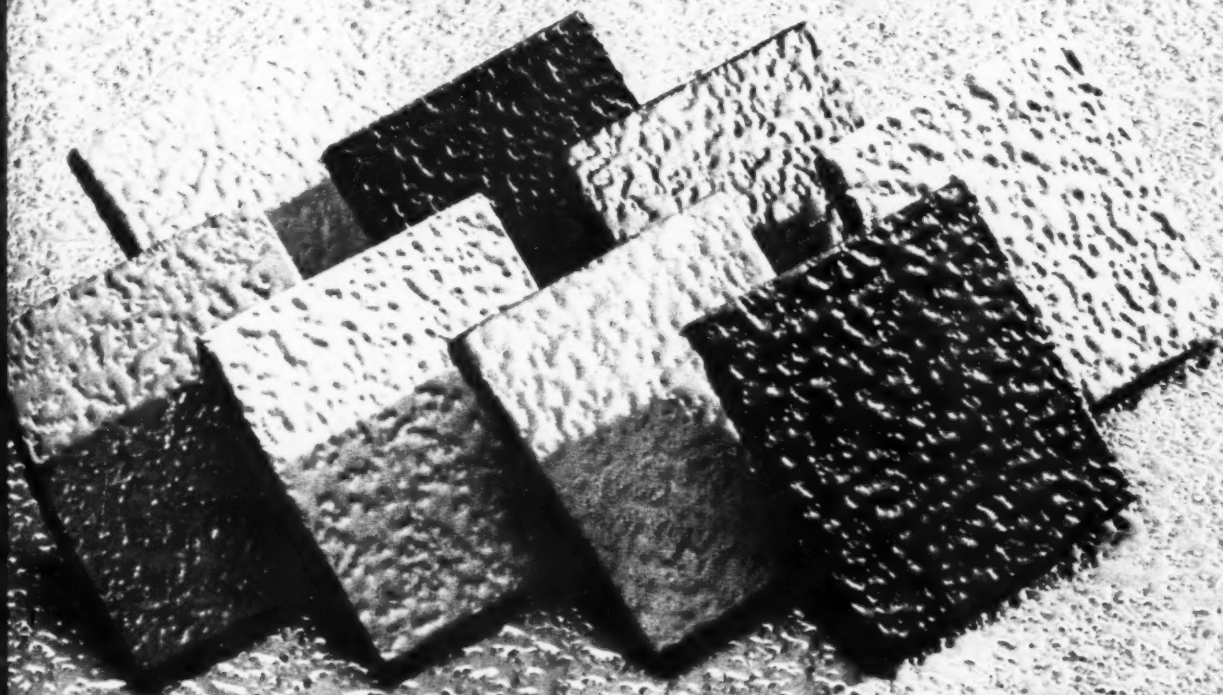
*Sutcliffe Speakman & Company Limited, Leigh, Lancashire*  
London Office: Godliman House, Godliman Street, E.C.4  
Telephone: CITY 9284







# DISTINCTIVE WALL PANELLING



NEW, attractive and economical form of interior decoration. It has distinct advantages over ordinary methods in that it is "ready made" in panels 4ft. x 4ft. and 4ft. x 3ft., and therefore a speedy form of interior decoration, also lasting and fire-resistant. Made in Moroccan Finish, Flemish Glaze and Stippled Finish. The variety of colours available allows the architect wide scope in the choice of colour schemes. See overleaf for further details and method of fixing.

## DEEPLUSTRE

*Moroccan finish* WALL PANELLING

by **L. P. THOMAS**

25-26 Lime Street, London, E.C.3.

92 Union Street, Glasgow.

1 Eldon Square, Newcastle-on-Tyne. I.

MANsion House 0838

CENtral 9300

Newcastle 26329

# DEEPLUSTRE Wall Panelling

## Colours and Finishes

DEEPLUSTRE Wall Panelling is available in the following finishes and colours

Moroccan Finish		Colour No.		Stippled Finish	Colour No.	
		1	Cream/Brown		9	Black
		2	Cream/Gold		10	White
		3	Cream/Green		11	Green
		4	Ivory/Silver		12	Cream
		5	White/Black	Flemish Glaze	13	Black
		6	Black/Gold		14	White
		7	Blue/Gold		15	Green
		8	Bronze/Black		16	Cream

Standard Sizes 4' x 4' and 4' x 3'

## DEEPLUSTRE Bath Panels, Splashbacks & Wall Tiles

DEEPLUSTRE Panelling is also made in the following sizes for Bath Panels, Splashbacks, and Wall Tiles. Finish and colours being the same as described for Wall Panelling above.

### BATH PANELS

Fronts		Ends	
6'	0" x 2' 0"	3'	0" x 2' 0"
5'	11 1/4" x 1' 9 1/4"	2'	3 1/4" x 1' 9 1/4"
5'	5 1/4" x 1' 9 1/4"	2'	0 1/4" x 1' 9 1/4"
5'	0 1/4" x 1' 9 1/4"		

### SPLASHBACKS

24" nom. x 18" nom.

### WALL TILES

6" x 6"

Details of finishes on application.

## Fixing . . Hylustre Anodised Aluminium Cover Strips

Fixing methods must necessarily vary widely according to the wall surface to be treated, but we offer four extruded aluminium cover strip sections, as illustrated, for the provision of positive edge fixing at butt joints, internal and external angle joints. The dado capping

section can be used for finishing the top of part height panelling, or making a finishing against floor and ceiling. Hylustre Aluminium cover strips are stocked with etched and silver anodised finish, but a limited colour range can be manufactured to order.



External Angle



Internal Angle



Butt Joint



Dado Capping

Diagrams are approximately half-size.

## Maintenance

DEEPLUSTRE Wall Panels require no regular attention, but may be cleaned with warm water and soap. All soap should be washed off with clean water. On no account should severe caustics or abrasives be used. Should it be desired at some subsequent date to change the colour scheme, DEEPLUSTRE Wall Panels may be re-sprayed *in situ* with cellulose paint. Oil paint should not be used.

## Important Note

DEEPLUSTRE Moroccan Finish Wall Panels are manufactured with a "SHOT" finish, and to obtain homogeneous colour tone and texture over the whole of a panelled surface, it is essential that the direction of the "Way" of the material be kept constant. All standard Moroccan Finishes are in two colours, and generally, the darker colour should be placed towards shadow, and the lighter colour towards the main source of light.

**L. P. THOMAS**

25-26 LIME STREET, LONDON, E.C.3.

92 UNION STREET, GLASGOW.

1 ELDON SQUARE, NEWCASTLE-ON-TYNE, I.

MANSION House 0838

CENTRAL 9300

Newcastle 26329





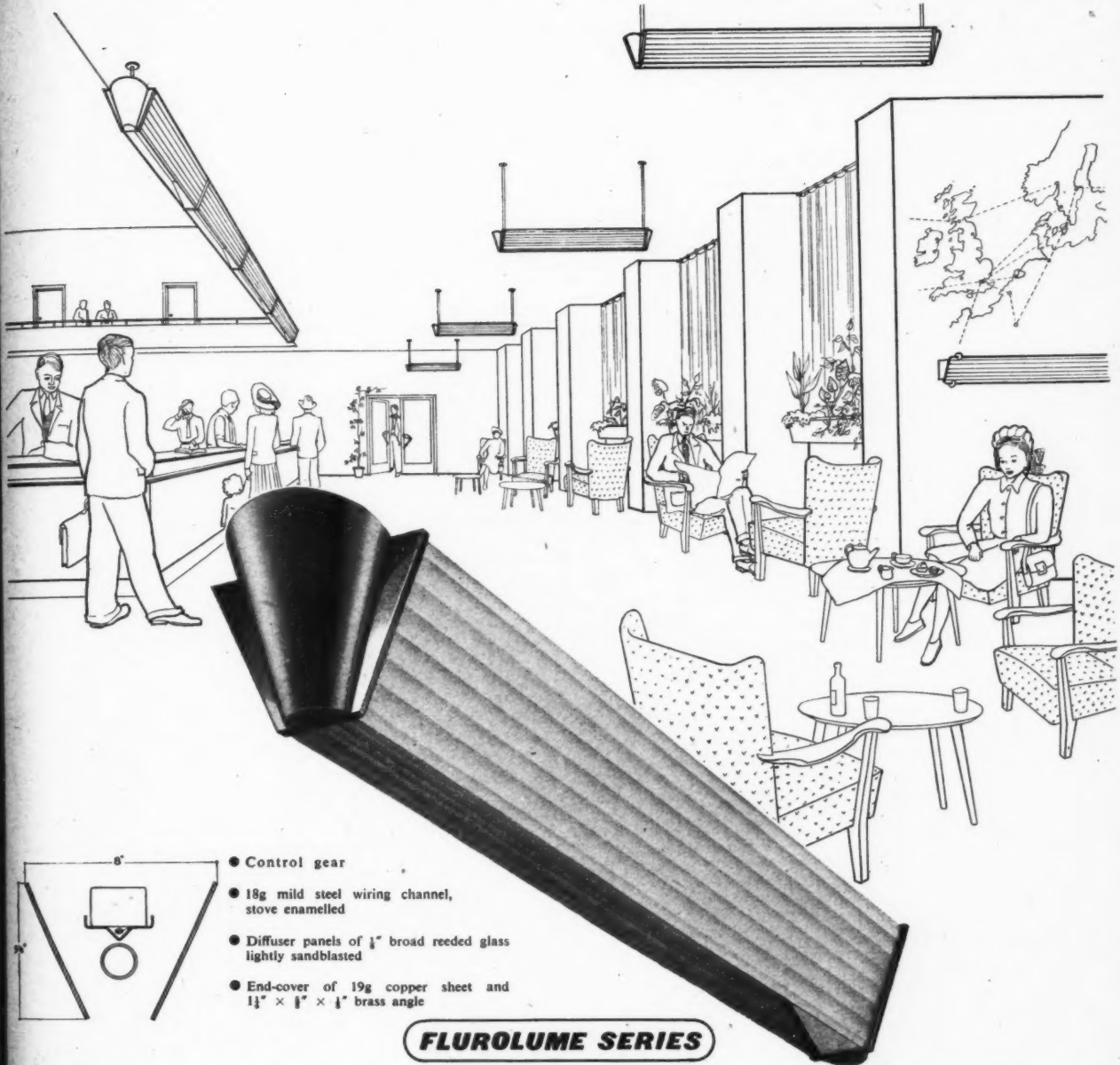
**GEN**  
APPEA  
" DEC  
SHAD  
PROVI

**MA**  
HAS  
ALL  
BEEN  
FIXIN

**CO**  
THE  
FOR  
UP T







### FLUROLUME SERIES

**GENERAL** OUR AIM IN THE DESIGN HAS BEEN TO AVOID THE INDUSTRIAL APPEARANCE OF THE OPEN REFLECTOR AND THE LIGHT WASTAGE OF THE AVERAGE "DECORATIVE" FITTING. A HIGH LEVEL OF GENERAL ILLUMINATION (FREE FROM SHADOW AND GLARE) WITH DIRECT UPWARD AND DOWNWARD LIGHT HAS BEEN PROVIDED.

### MAINTENANCE

HAS BEEN CAREFULLY CONSIDERED. WELL VENTILATED CONTROL GEAR, LAMPS AND ALL INTERIOR SURFACES ARE FREELY ACCESSIBLE. HORIZONTAL GLASS PANES HAVE BEEN ELIMINATED AND SANDBLASTED FACES SLOPE TO MINIMISE DUST COLLECTION. FIXING IS SIMPLE.

### CONTINUOUS UNITS

THE MAJORITY OF THE FLUROLUME SERIES, WHICH ARE ALL MADE IN TWO SIZES FOR 40W. AND 80W. TUBES, ARE AVAILABLE AS MULTIPLE UNITS TO FORM TROUGHS UP TO 60 FEET IN LENGTH.

**ADVISORY SERVICE** WE ARE ALWAYS PLEASED TO PREPARE COMPLETE LIGHTING SCHEMES, INCLUDING BOTH STANDARD AND SPECIAL FITTINGS, ON RECEIPT OF ARCHITECTS' DRAWINGS. OF COURSE WITHOUT OBLIGATION.

### FLUROLUME "H"

DOUBLE TROUGH UNIT.  
HEIGHT  $6\frac{1}{4}$ " WIDTH  $13\frac{1}{4}$ "  
LENGTH 54" OR 66"

### FLUROLUME "B"

WALL BRACKET UNIT.  
PROJECTION 7"  
LENGTH 52" OR 66"



**Lighting Fittings**  
**MERCHANT ADVENTURERS LTD**

43 PORTLAND ROAD, LONDON, W.11

TELEPHONE: PARK 4730/9639



**THE 'LEDA' RANGE OF LAVATORY LEGS** has many advantages over the lavatory stand. They are graceful and distinctive in design, simple to fix. They are supplied as single legs in three patterns—plain, with fixed towel rail, or with swinging towel rail, each pattern being available with circular or octagonal sections, with or without invisible height adjustment. Heavily chromium plated on brass, they are constructed to mount on a mild steel top-frame which is made in sizes to fit all standard basins. Thus it will be seen that the legs are interchangeable, can be arranged in a wide variety of combinations, and are equally suitable for a range of lavatories or for a single basin. Carrying the modern motif that distinguishes the range of which they form a part, 'Leda' fittings are distributed only through recognised stockists, but descriptive literature is available direct from the manufacturers.



**W. C. YOUNGMAN LIMITED**

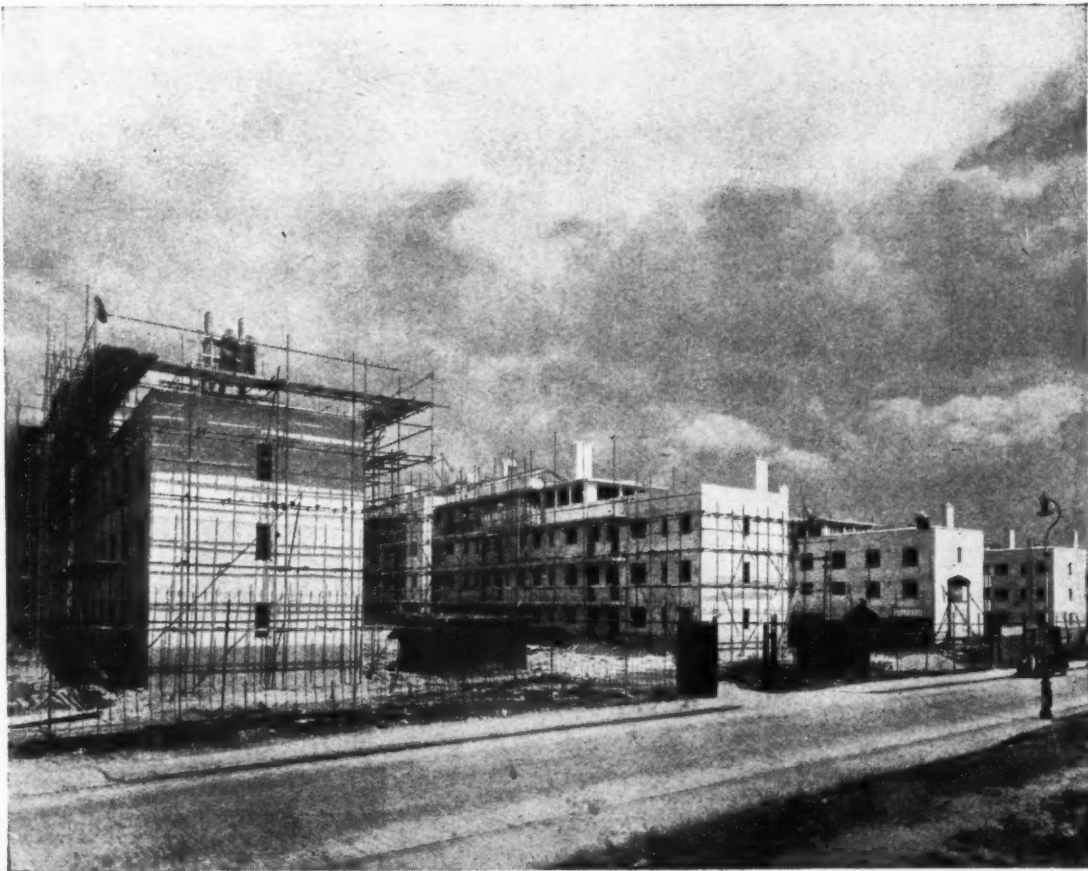
Bathroom Fittings Department,

WANDSWORTH WORKS, WANDSWORTH ROAD, LONDON, S.W.8.

Telephone : MACaulay 2233 (7 lines)

Telegrams : "Bildoplant, Claproad, London."

## WALLS OF WHITE CONCRETE



L.C.C. HOUSING SCHEME, BETHNAL GREEN, LONDON

*Under direction of Director of Housing & Valuer:—Cyril H. Walker, O.B.E., M.C., F.S.I., M.I.M.I. & C.E., L.R.I.B.A.  
Contractors: Holland & Hannan and Cubitts, Ltd.*

The external walls of these reinforced concrete flats are faced, above plinth level, with a special white concrete placed in position, utilising a sliding steel shutter.

**THE CEMENT USED FOR THE FACING IS**  
**SNOWCRETE**  
**WHITE PORTLAND CEMENT**



**THE CEMENT MARKETING COMPANY LIMITED**

192 ASHLEY GARDENS, LONDON, S.W.1

• TELEPHONE VICTORIA 6677

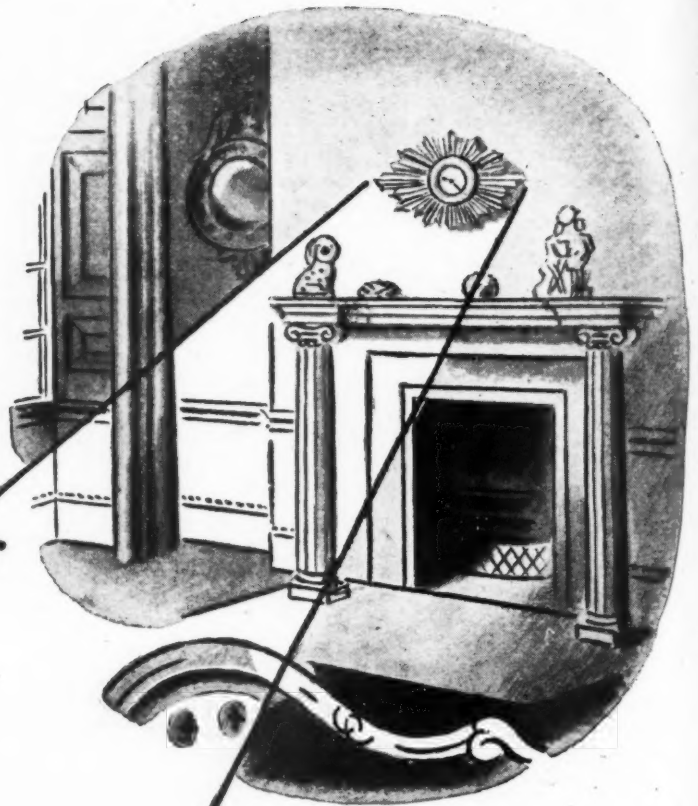
**G. & T. EARLE LTD.** CEMENT MANUFACTURERS, HULL. TELEPHONE: HULL 16121

**THE SOUTH WALES PORTLAND CEMENT & LIME CO. LTD.**

PENARTH. TELEPHONE: PENARTH 300.



Making  
the most of the  
**FOCAL POINT**



THE LOUVRE

"SMITHS," the largest manufacturers of Clocks, Watches and Precision Instruments in the World, are always at your service to help you plan unified and efficient time-keeping systems for indoor and outdoor use.

## SMITHS CLOCKS

SECTRIC & Hand Wound



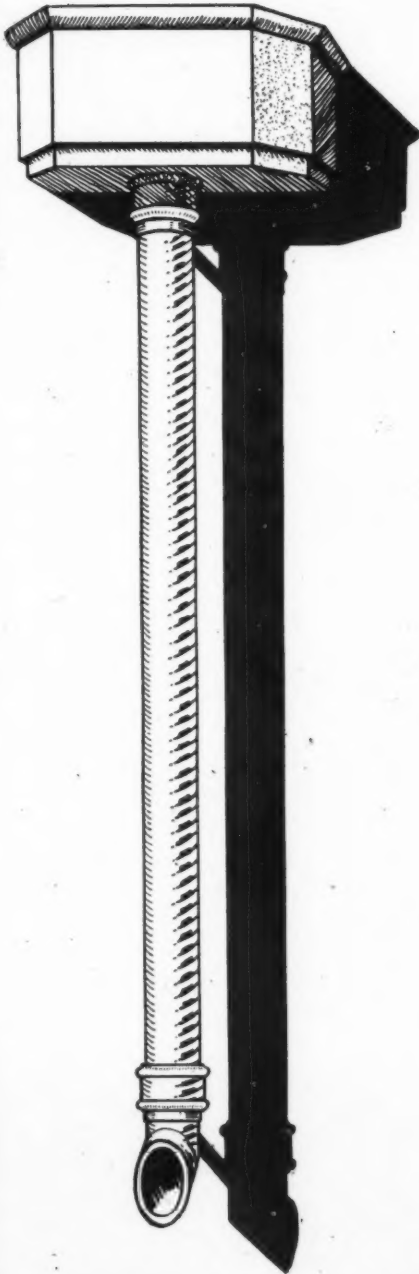
SMITHS ENGLISH CLOCKS LIMITED SECTRIC HOUSE, LONDON, NW2  
The Clock & Watch Division of S. Smith & Sons (England) Ltd

Scian. SCM 125A





## LOW INITIAL COST NO MAINTENANCE



"EVERITE" ASBESTOS-CEMENT RAINWATER GOODS ARE NOW RECOGNIZED AS STANDARD BUILDING MATERIALS AND ARE REGULARLY SPECIFIED FOR ALL CLASSES OF BUILDING.

♦ ♦ ♦ ♦ ♦

THEY REQUIRE NO PAINTING OR PROTECTIVE TREATMENT EITHER AT THE TIME OF FIXING OR SUBSEQUENTLY, AND THE CLEAN GREY APPEARANCE OF THE MATERIAL HARMONIZES WELL WITH EITHER BRICK OR STONE.

♦ ♦ ♦ ♦ ♦

THE PIPES CAN BE SUPPLIED IN 10 FT. EFFECTIVE LENGTHS, PROVIDING A VERY CONSIDERABLE SAVING IN LABOUR AND JOINTING MATERIALS.

♦ ♦ ♦ ♦ ♦

THEY ARE READILY CUT WITH AN ORDINARY SAW. LIGHTNESS, EASE OF FIXING AND THE FACT THAT THEY ACTUALLY HARDEN AND INCREASE IN STRENGTH WITH AGE, ARE IMPORTANT POINTS WHICH MERIT CONSIDERATION.

**"EVERITE"**  
REGD TRADE MARK  
Asbestos-Cement  
**RAINWATER GOODS  
AND FITTINGS**

BRITISH STANDARD 569

**TURNERS ASBESTOS CEMENT CO. LTD**  
TURNER & NEWALL LTD  
**TRAFFORD PARK MANCHESTER 17**

# WINDOWS

*without waiting!*

## "Service with Speed"

was Austins' pre-war motto, and even to-day we can boast of living up to it with some success.

Here's one example:—

**Immediate Delivery from Stock**

of

**EJMA**  
CERTIFICATION TRADE MARK

**Standard Wood Casement  
Windows**

## The Quality? \*

Austin workmanship applied to the EJMA specification guarantees that.

## The Price?

Surprisingly low, thanks to Austin Works organization and the finest high speed precision machinery.

**Note:** EJMA windows specially made to metal window sizes take a little longer — delivery in three weeks.

★ The Trade Mark EJMA is, itself, a guarantee of quality. Only licensed producers may use it.

THE  
**AUSTIN-HALL GROUP OF COMPANIES**

AUSTINS OF EAST HAM LTD.

LONDON E.6

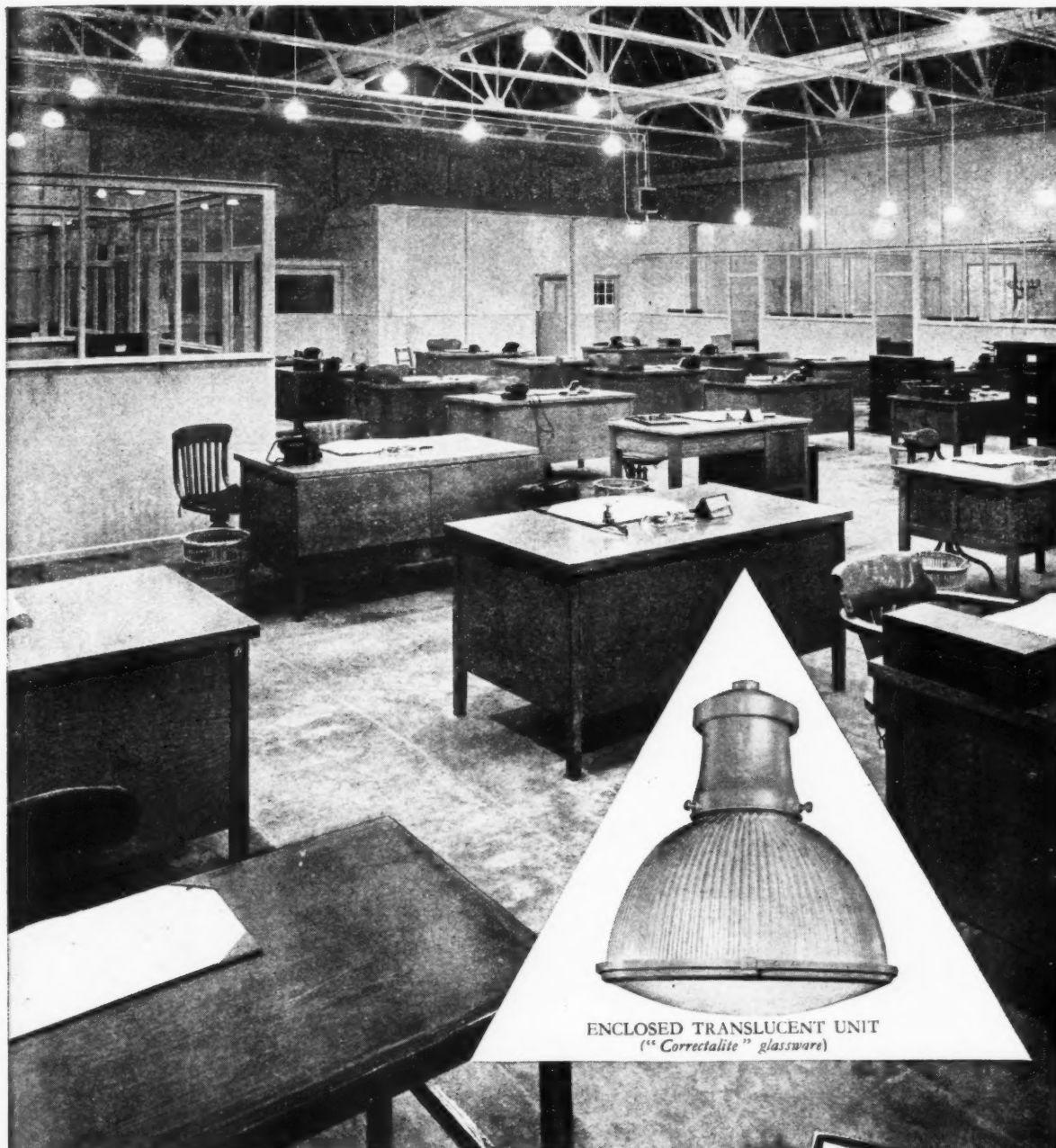
GRAngewood 3444

A. X/6-47









ENCLOSED TRANSLUCENT UNIT  
(*"Correctalite" glassware*)

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

# HOLOPHANE

LIMITED

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

Specialists  
in Lighting  
Research  
and  
Application  
since 1896

INCREASINGLY, IN PUBLIC SERVICES & PRIVATE ORGANISATIONS



*the Modern*  
**ELECTRICITY**  
*is carried universally via*

**METALLIC**

*pioneers of the*  
**CONDUIT TUBE**

In the myriad of purposes to which, in the modern City, electricity is co-ordinated, more and more essential services are being safely conducted by Metallic Conduit Tube because of its consistent quality and high reputation for accuracy.



**THE METALLIC SEAMLESS TUBE CO. LTD.**

Ludgate Hill, Birmingham. Phone: CEN. 7167. Grams: "Flask", Birmingham. Sales Depots: London: 88 Goswell Rd., E.C.1. Newcastle-on-Tyne: St. John Street. Leeds: 5 York Place. Swansea: 1 Grove Place. Glasgow: 137a St. Vincent Street.

M.S.4

# WENTWORTH AND SYNDEC HIGH GLOSS PAINTS



SYNDEC is laughing on the outside whilst WENTWORTH is glowing inside. It does sound rather like a popular song, but you should hear the songs of praise by the mixed chorus of painters and decorators! SYNDEC is recommended for exteriors and WENTWORTH for interiors. Two paints with but a single thought—quality, with all the features that a quality standard gives—glass hard glossy surface—fast to light—high cover—easy working—economy—durability and beauty.



## FERGUSON EDWARDS LIMITED

PAINT & VARNISH MANUFACTURERS, ABBEY ROAD BARKING ESSEX

TELEPHONE: RIPPATWAY 2871 (7 LINES) TELEGRAMS: EDLACA, BARKING



# STEEL REINFORCEMENT BARS

Cut to length.  
All diameters up to 2". Bending, shaping  
and hooking to schedule requirements.



**GUEST, KEEN & NETTLEFOLDS, LTD.**  
CASTLE WORKS & ROLLING MILLS, CARDIFF

66, Cannon Street  
London, E.C.4

The White House  
111, New Street  
Birmingham, 2.

16/18 Clare Street  
Bristol.

**GKN**  
**CARDIFF**







# The New Overhead LUMINOUS PANEL HEATER



Comfortable and evenly distributed heat is quickly obtained with the installation of Bratt Colbran Overhead Radiant Heaters over the whole, or only part, of a building. Suspended from the roof or wall, they save floor space and direct unobstructed heat when and where required. Installation is economical and does not interfere with the use of the building. Control may be individual or in groups, manual or by thermostat. The four types, Bowl, Wedge, Wall (illustrated

below) and the Luminous Panel are all silent in operation and each possesses its own special advantages.

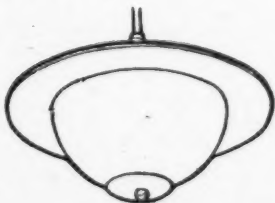
*Overhead Radiant Heaters are suitable for a wide range of sites: churches, public halls, factories, workshops, schools, restaurants, shops, stores, offices, etc. Consult your local gas undertaking or write to us for technical advice on installation layout.*

## BRATT COLBRAN LIMITED

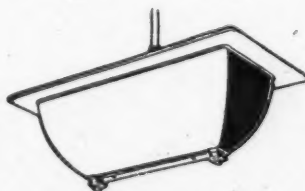
10, MORTIMER STREET, LONDON, W.1. Phone: MUSEUM 9411-9311

*Pioneers in Overhead Radiant Heating*

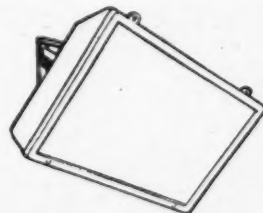
★ BOWL



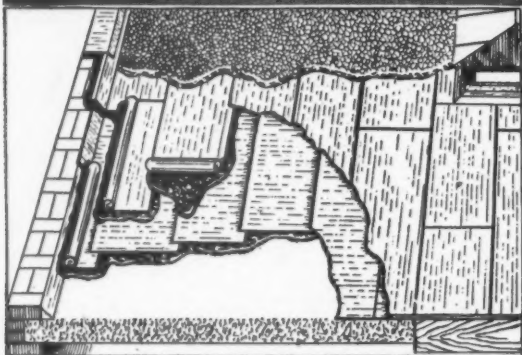
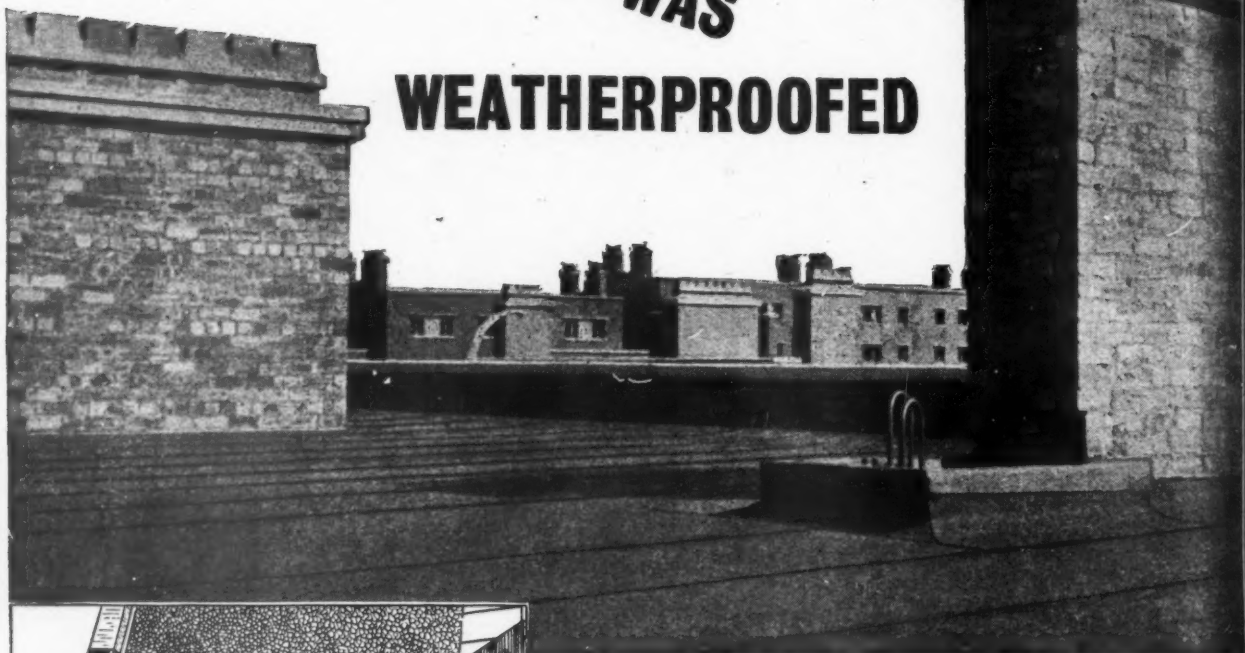
★ WEDGE



★ WALL



# HOW THIS ROOF WAS WEATHERPROOFED



Section of Drawing BRIGGS ROOFS No. 1R

*West Pilton Housing Scheme, Edinburgh.*  
Architect: E. J. MACRAE, Esq., F.R.I.B.A., Edinburgh.

## SPECIFICATION No. 4

Cover roof with Bituminous Roofing, the first layer or layers to be Saturated Asbestos Base Bituminous Roofing and the top layer or cap sheet to be Mineral Surfaced Bitumen Roofing. The bottom layer to be fixed for, say, 18" round the edges of the deck with hot Bitumen, and the rest to be "laid loose". The succeeding layer or layers to be bonded together with hot Bitumen. All laps to be 2".

# BRIGGS

CRAFTSMEN IN ROOFING

AND WATERPROOFING



**WILLIAM BRIGGS & SONS, LTD. DUNDEE**  
Telephone DUNDEE 92211 (6 lines)      Telegrams Bitumen, Dundee

**LONDON: VAUXHALL GROVE, S.W.8.** 'Phone: Reliance 2215/6  
Branches: Aberdeen, Edinburgh, Glasgow, Leicester, Liverpool, Norwich



burgh.  
burgh.

er or  
ofing  
aced  
say,  
and  
yers  
e 2'.

2154  
rwich





*Fine Furniture*

H. MORRIS & COMPANY LIMITED. GLASGOW.

# INDUSTRY, SOCIAL & DOMESTIC SERVICE - ALL DEPEND ON *Cables*

The call upon equipment for electrical supply is heavy and increasing. When production and maintenance resources are strained it is more than ever essential to ensure safety and freedom from trouble by installing only the best obtainable transmission material.

specify **C.M.A.**  
**CABLES**



*Regs. Trade Mark  
Nos. 566, 585-6-7*

## MEMBERS OF THE C.M.A.

The Anchor Cable Co. Ltd.  
British Insulated  
Callender's Cables Ltd.  
Connollys (Blackley) Ltd.  
The Craigpark Electric  
Cable Co. Ltd.  
Crompton Parkinson Ltd.  
(Derby Cables Ltd.)  
Enfield Cables Ltd.  
Edison Swan Cables Ltd.  
(The Edison Swan Electric  
Co. Ltd.)

W. T. Glover & Co. Ltd.  
Greengate & Irwell  
Rubber Co. Ltd.  
W. T. Henley's Telegraph  
Works Co. Ltd.  
Johnson & Phillips Ltd.  
The India Rubber, Gutta-  
Percha & Telegraph  
Works Co. Ltd.  
(The Silvertown Co.)

Liverpool Electric Cable  
Co. Ltd.  
The London Electric  
Wire Co. and Smiths Ltd.  
The Macintosh Cable Co.  
Ltd.  
The Metropolitan  
Electric Cable &  
Construction Co. Ltd.

Pirelli-General Cable  
Works Ltd. (General  
Electric Co. Ltd.)  
St. Helens Cable &  
Rubber Co. Ltd.  
Siemens Brothers &  
Co. Ltd. (Siemens Electric  
Lamps and Supplies Ltd.)  
Standard Telephones  
& Cables Ltd.  
Union Cable Co. Ltd.

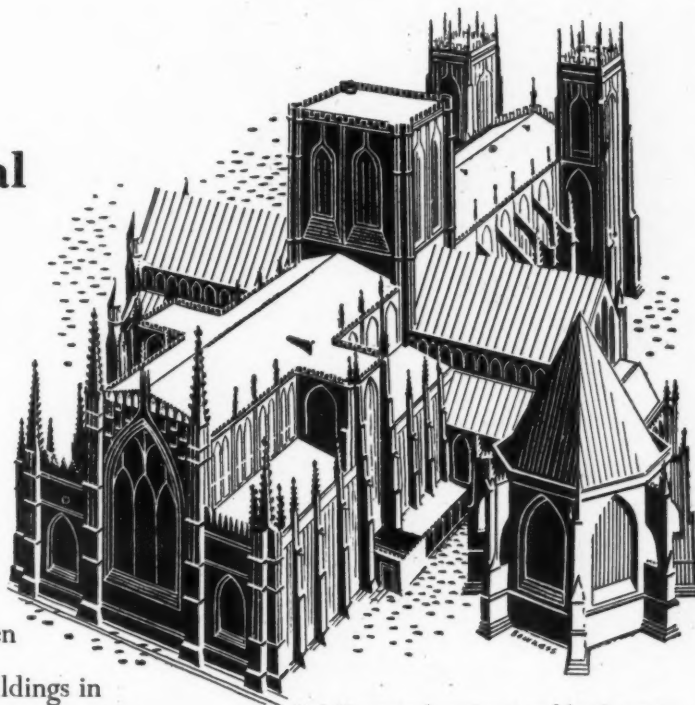
Advt. of the Cable Makers' Association, High Holborn House, 52-54 High Holborn, W.C.1. Holborn 7633



## For Cathedral or Cottage

COPPER, the most durable, reliable and beautiful of all roofing materials, has been chosen for some of the finest buildings in the world, among them Liverpool Cathedral,

Stockholm Town Hall, Southampton Civic Centre and the British Museum dome, one of the largest in the world. Yet with all the exceptional qualities that make it unsurpassed as a building material, copper is now relatively so inexpensive that it can be applied to low-cost building, for roofing and many other purposes, such as flashings, weatherings and pipe-work, very often with a saving of cost.



*York Minster north transept is roofed with copper*



The Copper Development Association will, on request, supply information and advice on the uses of copper in building to anyone genuinely interested free of charge or other obligation.

Enquiries to Kendals Hall, Radlett, Herts. (Telephone : Radlett 5616)

COPPER DEVELOPMENT ASSOCIATION



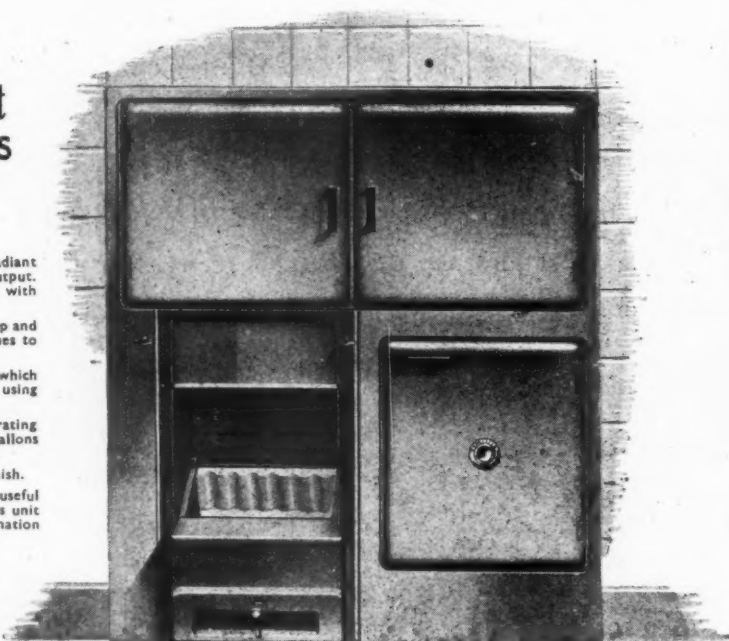


## The women on Britain's conscience

It is to our credit that this country recognises the debt which it owes our women—both those who "managed along" at home and those who served in the Forces. Because we recognise this, we are undertaking the greatest housing drive in our history with the focus principally on the kitchen. Well, here is the appliance they have so patiently waited for; one they will be proud to possess and which you will be as proud to instal—lovely to look at, economical to fit and maintain, and supremely efficient—the "Signet".

### The "SIGNET" Multiple Duty Unit THE COOKER THAT DOES *Everything*

- ★ Heating: Convector fire with 1,500 cubic feet radiant output and 1,000 cubic feet convection output. Closure lid of fire for all night burning, with complete safety.
  - ★ Cooking: The oven is 13½" wide x 16" high x 14" deep and is airheated, simple to adjust and no flues to clean.
  - ★ Cooking: A large hot plate is fitted above the oven which will boil 2 pints of water in 5 minutes using flat bottom aluminium kettle.
  - ★ Hot Water: Supply 70—80 gallons per day. At full rating of 5lbs. of fuel per hour, it will raise 11 gallons of water per hour—normal 100 F.
  - ★ Finish: Vitreous enamel in a variety of mottle finish.
  - ★ Economy: You will get at least four times as much useful heat from your solid fuel ration with this unit as you would from an ordinary combination grate.
- The "Signet" will provide space heating, cooking and water heating on 1½—2cwt. of coal per week. In the summer time when you do not want to use the open fire the closure lid can be kept permanently down and the boiler consumption proportionately reduced.

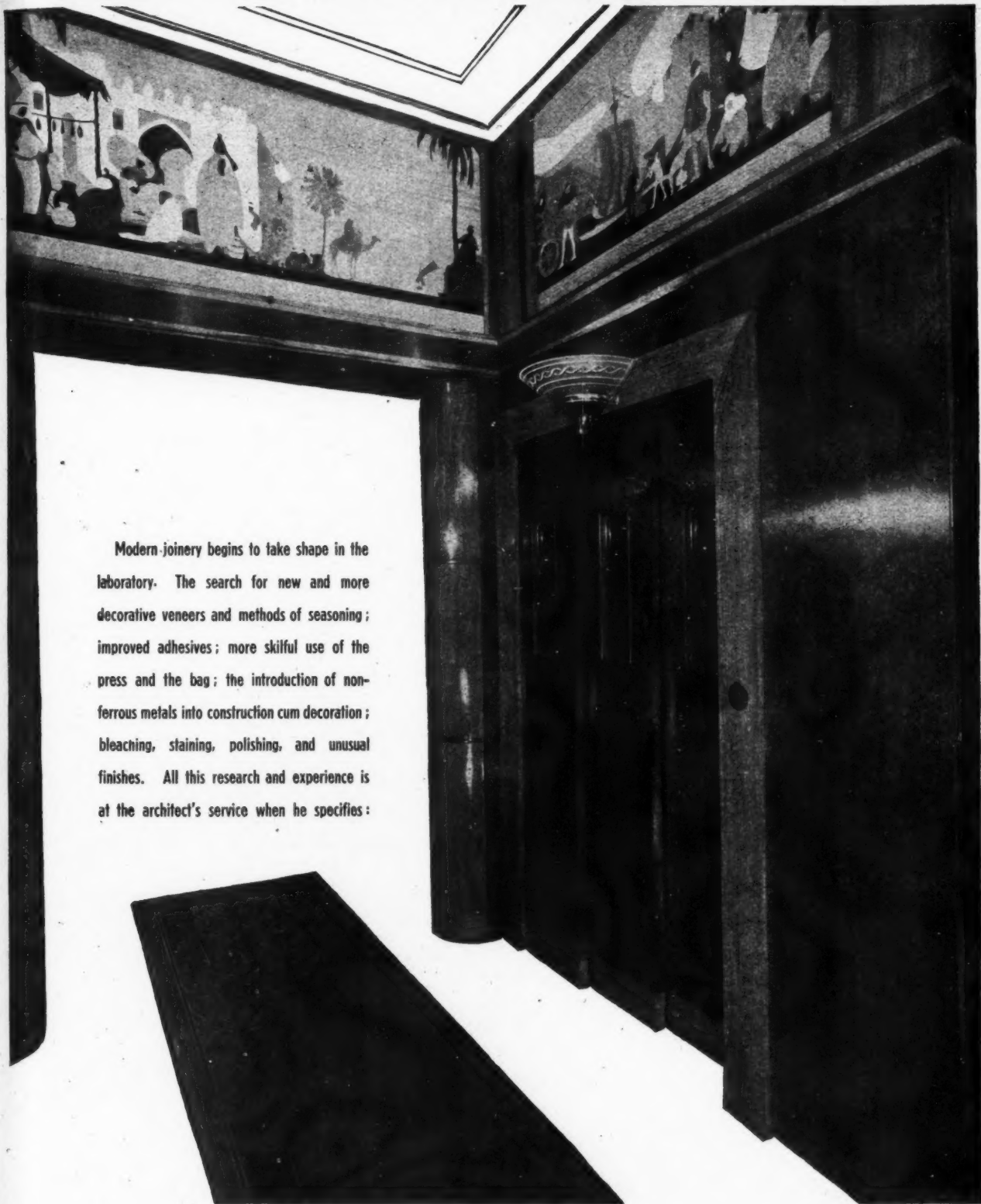


Full particulars on application to:—



**THE CAMELON IRON CO. LTD., FALKIRK**  
**GRANGEMOUTH IRON CO. LTD., FALKIRK**

CONTROLLED BY FEDERATED FOUNDRIES LTD.  
FORGING BRITAIN'S HOUSING FITMENTS



Modern joinery begins to take shape in the laboratory. The search for new and more decorative veneers and methods of seasoning; improved adhesives; more skilful use of the press and the bag; the introduction of non-ferrous metals into construction cum decoration; bleaching, staining, polishing, and unusual finishes. All this research and experience is at the architect's service when he specifies:

# JOINERY BY POLLARDS

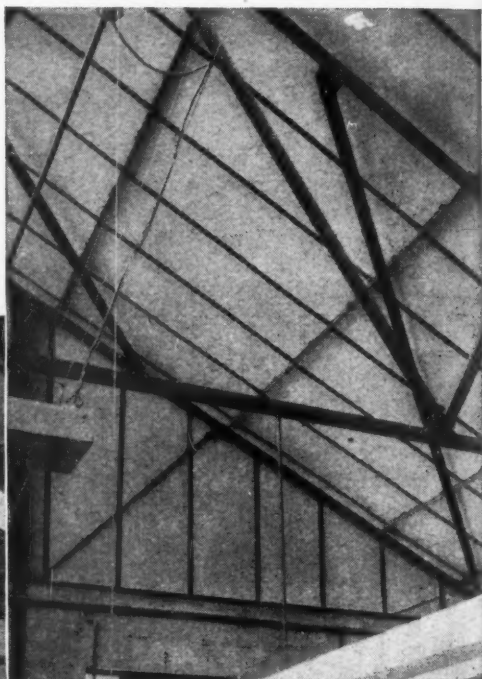


E. POLLARD & CO. LTD., Architectural Craftsmen, 159-173 ST. JOHN ST., LONDON, E.C.1. TEL.: CLERKENWELL 6701. West End Showrooms: 299 OXFORD ST., LONDON, W.1. TEL.: MAYFAIR 6703. WIRES: STAYING, LONDON. AGENTS IN PROVINCES & PRINCIPAL COUNTRIES THROUGHOUT THE WORLD.



# INSULATION AIDS EXPORTS

We lay great emphasis on the fuel saved by insulating buildings but it is well to remember the other advantages also. Everyone knows that large cold areas of roof and walls must precipitate cold draughts (even in an airtight building) and that such conditions do not increase workers' efficiency. But many thousands of workers to whom the country looks for "increased output for exports" are still working under uninsulated corrugated roofs.



Knitwear Factory for R. J. & A. R. Pitchers Ltd. (An associate of the Jaeger Co. Ltd.) Godalming, Surrey. Roof and gable walls lined by Specialised Construction, during occupation by the Hadley Clip method.



"We lined their roof while they were working and didn't make them drop a stitch" says George.

In this Knitwear Factory, engaged mainly on work for export, the skilled operators and their clever machines knit anything from "2 plain 1 purl" to the most complicated patterns requiring intense concentration. (George says he would sooner insulate a hundred roofs than have to learn the "hawser stitch" pattern). Workers and management alike are enthusiastic about the improvement in working conditions—cooler in summer, warmer in winter—and find them a direct contribution to better output for more exports.

Every factory without adequate insulation is a drag on national efficiency as well as wasting fuel. We can advise on all aspects of Structural Insulation and our Specialised Construction Department is fully equipped to carry out supplying and fixing complete. Your enquiries will be welcomed.



TENTEST FIBRE BOARD CO. LTD., 75 CRESCENT WEST, HADLEY WOOD, BARNET, HERTS.

Telephone · BARNET 5501 (5 lines)

Telgrams : Fibboard, 'Phone, London







# LOCAL AUTHORITIES *Approve*



## ALUMINIUM ALLOY RAIN-WATER GOODS



ALSO ARCHITECTS AND BUILDERS SHOW INCREASING APPRECIATION of the really great advantages of rain-water goods "cast to last" in aluminium alloy. This is what they find... transit and site breakages reduced to NIL... pipes and gutters are easily cut by hack-saw... the gutters and all fittings are die castings... all pipes made from strong solid drawn tubing... the accuracy in contour ensures good fitting... plumbers welcome this light-weight material... down-pipes withstand freezing without fracture... householders appreciate the good appearance, lasting qualities and freedom from rust stains.

"BIRMID" RAIN-WATER GOODS ARE THE PRODUCTION OF THREE ASSOCIATED COMPANIES: BIRMINGHAM ALUMINIUM CASTING (1903) CO. LTD., STERLING METALS LTD., BIRMETALS LTD.

"BIRMID" rain-water goods are sold to the trade through the following main Distributors:-

WIGGINS-SANKEY LTD., LYSIA STREET, FULHAM, LONDON, S.W.6

HOOPER & ASHBY LTD., BRITANNIA WHARF, SOUTHAMPTON

METAL AGENCIES LTD., COLSTON STREET, BRISTOL, 1

ROWE BROS. & CO. LTD., PALL MALL, LIVERPOOL, 3

A. D. FOULKES LTD., LUDGATE HILL, BIRMINGHAM, 3

J. M. & J. BARTLETT, 3-4, HIGHAM PLACE, NEWCASTLE-ON-TYNE, 1

THOMAS GRAHAM & SONS LTD., 19, YORK ST., GLASGOW, C.2

HENRY SMITH (MERCHANTS) LTD., 104, WITHAM, HULL

GUNTONS OF NORWICH, 30-42, ST. GEORGE ST., NORWICH

SMYTHE BROS. (IPSWICH) LTD.,

36, 38, 40, 42 & 44, FORE STREET, IPSWICH

RANDALLS LTD., 20 & 22, ST. MARY'S STREET, BEDFORD

CYRIL RIDGEON & SON LTD., TENISON ROAD, CAMBRIDGE

JOHN FORSYTHE LTD., 24/26, GREAT GEORGE'S ST., BELFAST

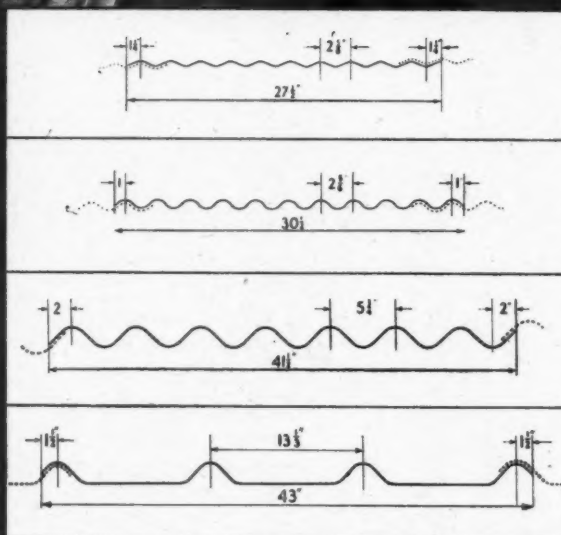
## BIRMID RAIN-WATER GOODS

BIRMID WORKS, SWETHWICK 40, STAFFS

# Corrugated **"PERSPEX"** for roof lighting



Corrugated "Perspex" acrylic sheet can be fixed as easily as normal corrugated sheet, using ordinary hook bolts and washers. Made in 9 different profiles, and available in lengths from 3 feet to 7 feet in intervals of 6 inches. For full particulars write to:—



**IMPERIAL CHEMICAL INDUSTRIES LIMITED, LONDON, S.W.1**

C.P.7





# Mr. Therm goes to the newest Schools



ARCHITECT: HOWARD V. LOBB F.R.I.B.A.,  
HEATING ENGINEERS: ROSSER & RUSSELL, LTD.

*The large gas-fired boiler (1,040,000 B.Th.U. capacity per hour) serves 60 radiators, with a total heating surface of 3,000 sq. ft. and 1,500 sq. ft. of exposed piping. The two secondary gas-fired boilers (combined capacity 297,000 B.Th.U. per hour) serve a 200-gallon indirect hot water cylinder for showers and cloakrooms.*

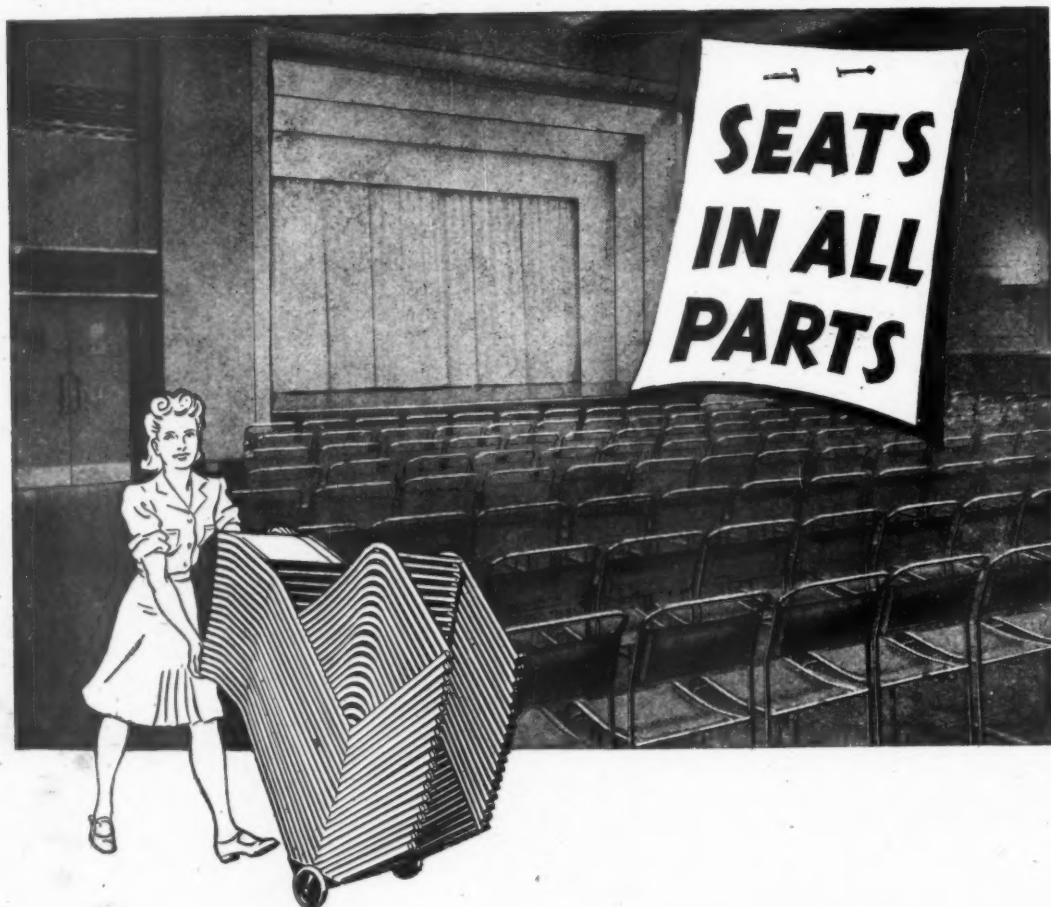
St. Audrey's School, Hatfield, Herts., exemplifies a system of construction recommended in the report of the R.I.B.A. School Design & Construction Committee. It was completed in just over 20 weeks, the first of the permanent post-war school buildings incorporating many time and labour saving features which have gained the interest of visiting authorities from other towns. Heating, for example is by an accelerated low pressure hot water system, served by gas-fired boilers and fitted with time, temperature and flame failure controls. The time control switches the gas on at 7.30 a.m. and off at 3 p.m., omitting Saturdays and Sundays. Conditions are comfortably warm within one hour of starting up. Hot water for cloakroom use is also provided by gas-fired boilers.

The total annual cost has proved to be very little more than that of the old hand-fired solid fuel system, no account being taken of labour charges for stoking and ash removal.

The experience gained, in the building of St. Audrey's School has been used to advantage in the recently completed Bourne Secondary Modern School, Ruislip and the Junior School at South Ruislip now in hand. In both cases gas has been chosen for the heating and hot water systems.

● An illustrated booklet on the design and construction of these schools is available free on request from:

BRITISH GAS COUNCIL | GROSVENOR PLACE, LONDON, S.W.1.



Precisely fifteen minutes after the P.T. class left the Assembly Room floor, Miss Jones—single-handed—had set out a hundred pleasantly designed and comfortable chairs for the Lit. and Dram.

In just as short a time the chairs can be stacked away in 20 square feet of floor space.

For quick-change furniture where people gather together at short notice—kindergartens, schools, universities, public halls—Kingfisher experience and productions are invaluable.



# KINGFISHER

*furnish the new Education*



**KINGFISHER LTD.**, Charles Street & Phoenix Street, West Bromwich, Staffs.

Telephone : Tipton 1631    Telegrams : Kingfisher, Phone, West Bromwich.

London : 139, Knightsbridge, S.W.1.

Telephone : Kensington 1331.

## The human element in the BRICK industry

All heavy work is done by machinery in London Brick Company works. But no machine could take the place of this man. He is stacking green bricks on one of the trolleys which take them through the kilns. The way in which the bricks are stacked is all important to the burning process. And to the satisfaction of performing an essential job under good working conditions he can add the benefits he derives from the comprehensive welfare and recreational facilities provided for all the Company's employees,



Benefits enjoyed by London Brick Company employees include: Profit Sharing Bonus Scheme, introduced in 1926; Holidays with Pay, introduced in 1930; Pensions and Life Assurance Schemes, introduced in 1936; the Model Village and Social Centre at Stewartby; Canteens; comprehensive indoor and outdoor recreational facilities; sports grounds; club premises; welfare departments; safety and first-aid organisations.



LONDON BRICK COMPANY LIMITED

L.B. 39

BY APPOINTMENT



suppliers of Ferro-Concrete work

*For buildings that will endure . . . specify*

# GIRLINGSTONE MASONRY

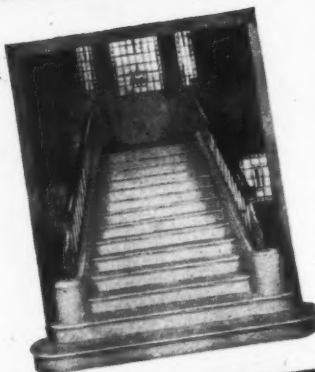


Exchange Buildings, Liverpool  
Architects: Messrs. Gunton & Gunton

## GIRLINGSTONE STAIRCASES

### NOTE THESE ADVANTAGES

- No shuttering required.
  - Granolithic hard-wearing tread in which carborundum grains can be incorporated.
  - Millennium treads can be fixed to provide non-slip surface.
  - Soffite of step can be left smooth or with rough finish to receive plaster.
  - Square wall holds provided for building into brickwork.
- Further details on application



★ Proof of the superiority of GIRLINGSTONE Masonry both for exceptional weathering properties and for beauty of finish, is evidenced by its increasing use for many important public, commercial and residential buildings, examples of which are here illustrated. You are invited to write for full details.

# GIRLINGSTONE

**SOUTH:** Great West Road, Feltham, Middlesex. Telephone: HOUnslow 1158-1159  
**MIDLANDS:** Rothwell, near Leeds. Telephone: Rothwell 3174 (Leeds Extension)  
**SCOTLAND:** Southbank Road, Kirkintilloch, Glasgow. Telephone: Kirkintilloch 2244-5



**T**here are no rule-of-thumb methods in aircraft manufacture. In design, every stress is calculated. In construction, accuracy is rigidly enforced. In test, nothing is taken for granted. From the airframe down to the smallest component, nothing second-best can pass into service. Most of Britain's leading aircraft manufacturers fit Exide Batteries as initial equipment in their latest aircraft. These batteries combining, in the highest degree yet known, light weight with great capacity and high performance with long life, were neither easily designed nor lightly chosen. It has taken the best brains of the biggest battery makers in Britain and the experience gained in fifty-six years of specialisation, to produce in Chloride, Exide and Exide-Ironclad better batteries than ever before.

**THE CHLORIDE ELECTRICAL  
STORAGE COMPANY LIMITED**  
Exide Works, Clifton Junction  
near Manchester



**Sudden blackout is prevented  
by the *Keepalite* automatic  
emergency lighting system**



King Edward House, Birmingham

Architects: Essex, Goodman & Suggitt

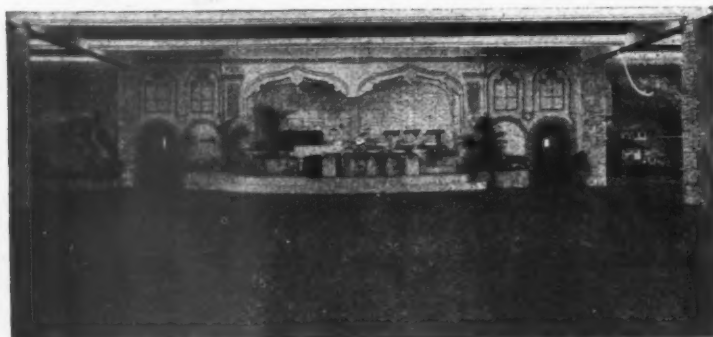
**A complete building organization of skilled craftsmen, ably equipped to take a full part in future projects**

## B. WHITEHOUSE & SONS LTD

PARK HOUSE WORKS, MONUMENT ROAD, EDGBASTON, BIRMINGHAM 16

Phone: EDG 1168-1169-1160

*Durability & attractiveness were essential*



Ballroom at Butlin's Holiday Camp, Pwllheli.

Photo by Butlin's Photographic Services

That is why Butlin's chose **DURABLE FLOORS** for chalets, dining halls, beer and coffee bars, games rooms and even the ball-rooms at their new Ayr and Pwllheli holiday camps.

Other recent contracts include:

Housing schemes at

Surbiton	Alton
Leatherhead	Sutton
Croydon	Godstone
Mitcham	Caterham

### **DURABLE FLOORS available NOW**

are being laid throughout the U.K. in houses, factories, offices, retail shops, etc. Colours: Red, brown and black. Samples and prices sent on request.

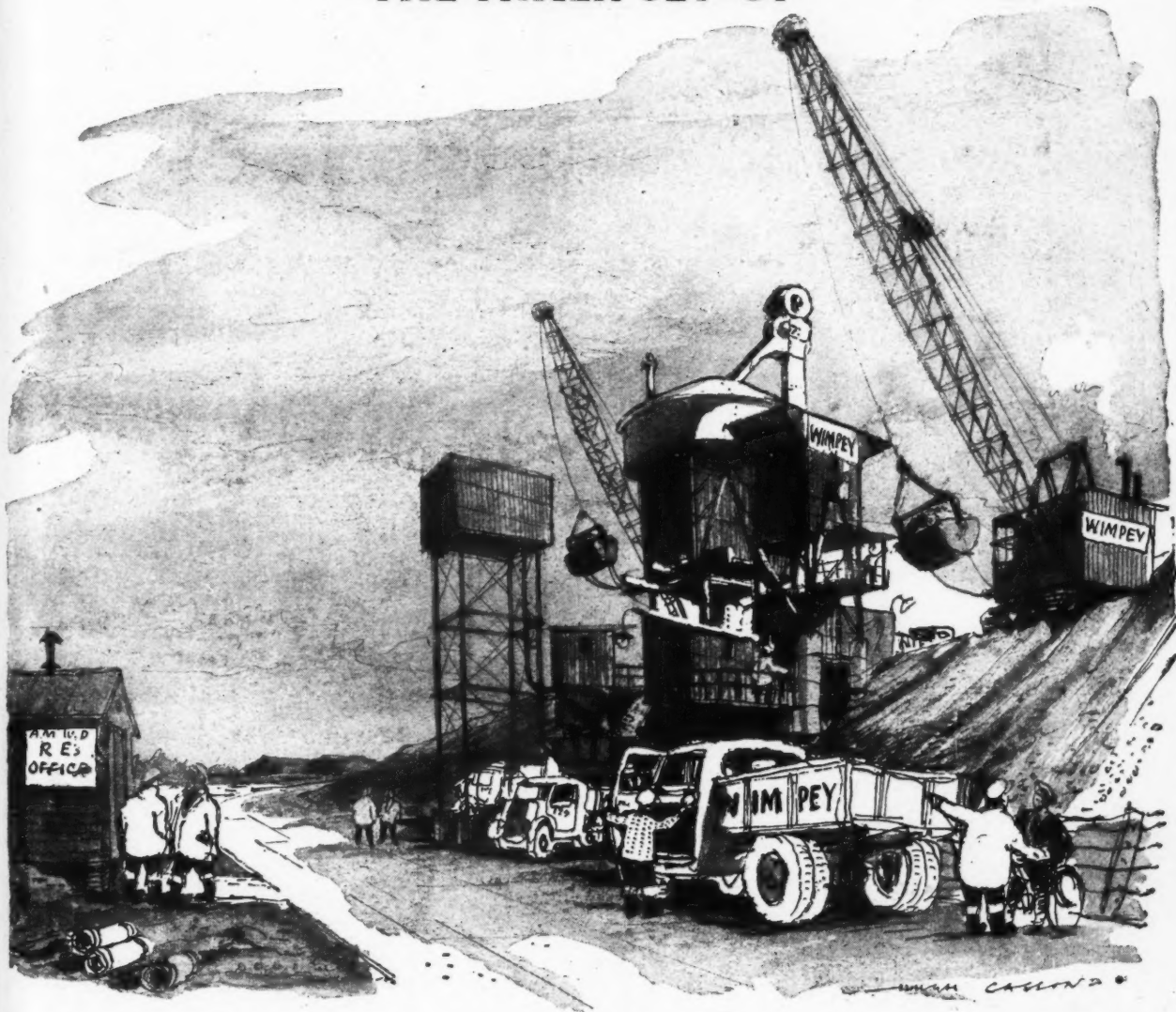
### **DURABLE ASPHALTE CO. LTD.**

Telephone: City 4553 & 6271.

KIMBERLEY HOUSE,  
14-17, HOLBORN VIADUCT, E.C.1.

# Wimpeys at work

## THE MIXER SET-UP



This Mixer manufactures 100 cubic yards of high-grade concrete every hour. It is economical in time, labour and cost. The whole set-up is operated by six or seven men.

WIMPEY'S immense pool of mobile modern plant helps to explain Wimpey's efficiency, economy and speed. All Wimpey's huge and flexible central resources—plant, transport, key manpower, laboratory work—are 'on tap' for any

Wimpey job, large or small, anywhere in Britain. All these resources are at the command of Wimpey's seven regional offices: at Birmingham, Cardiff, Manchester, Newcastle, Nottingham, Edinburgh and Glasgow.

**WIMPEY**

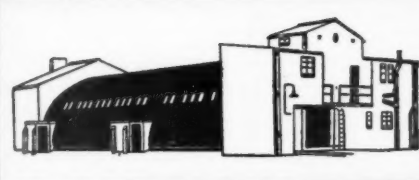
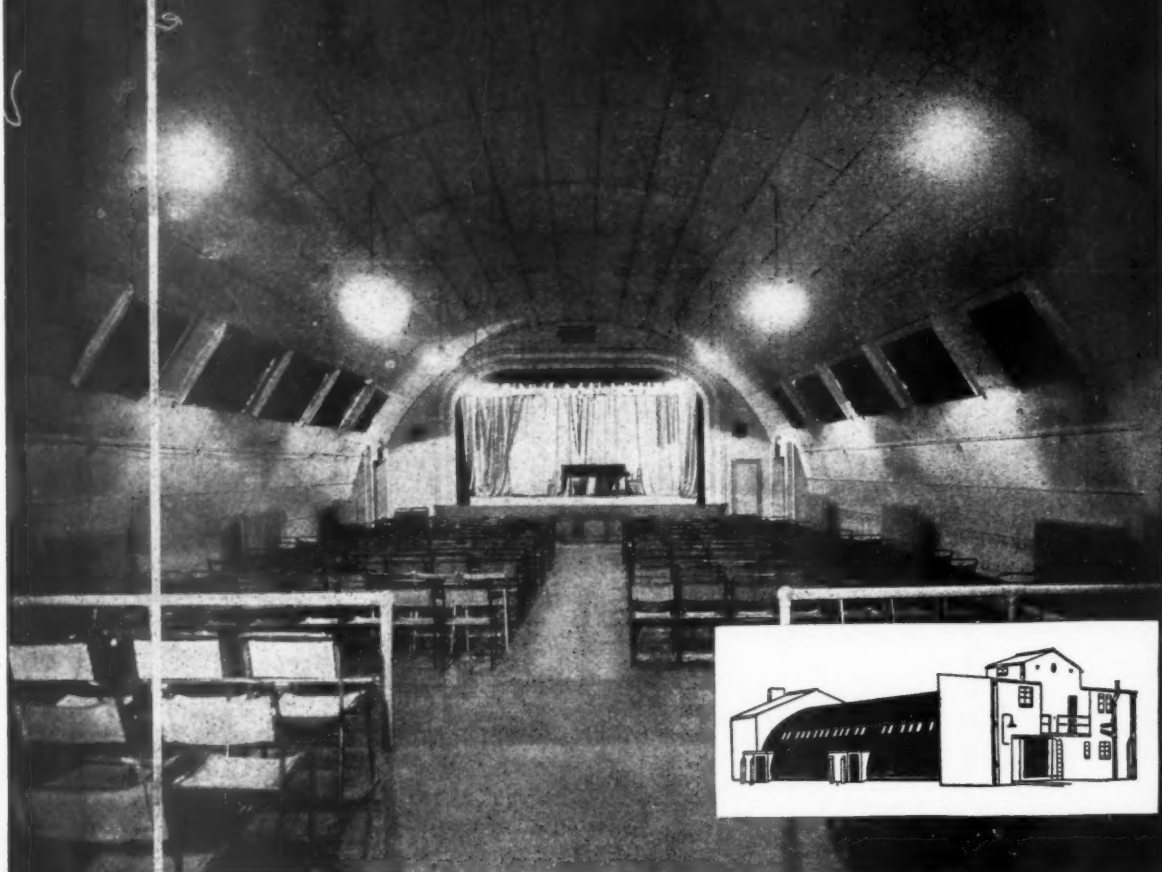
GEORGE WIMPEY AND COMPANY LIMITED, TILEHOUSE LANE, DENHAM, MIDDLESEX



# A CONVERSION

by

## KENT & SUSSEX CONTRACTORS LTD



*An example of construction and conversion, a normal type  
Services hut carried out under government contract by*

**KENT & SUSSEX CONTRACTORS LTD.**

109, Station Road, Sidcup, Kent.

Telephone: Footscray 4411.  
Telegrams: Kentractor, Sidcup.







HIGGS<sup>AND</sup> HILL  
LIMITED

LONDON

LEEDS

COVENTRY



BUILDING  
CONTRACTORS

SUN STREET  
FINSBURY SQ.  
E.C.2

Telephone :  
BISHOPSGATE 3763  
(6 lines).



## First City Reconstruction



MARKET BUILDINGS, MINCING LANE, E.C.3

This important block of offices, the first large City office building to be reconstructed after the war (1939-45), was reopened by the Lord Mayor (Sir Bracewell Smith) on Friday, October 10th, 1947.

The owners are the

CITY OF LONDON REAL PROPERTY COMPANY LTD.,  
under whose Architects the reconstruction was carried out

by

# HOLLOWAY BROTHERS

(LONDON) *Building and Civil Engineering Contractors* LIMITED

## MILLBANK, WESTMINSTER, S.W.1

*Decorating and Furnishing Dept.*  
43 South Audley St., Grosvenor Sq., W.1

*Joinery Works*  
Magdalen Rd., Earlsfield, S.W.

*Stone Masonry Works*  
Thessaly Rd., Battersea, S.W.

# FALKUS

## BROS. LTD.

### BUILDING CONTRACTORS

46, BISHOPSGATE, E.C.2 AND HADLEIGH, ESSEX

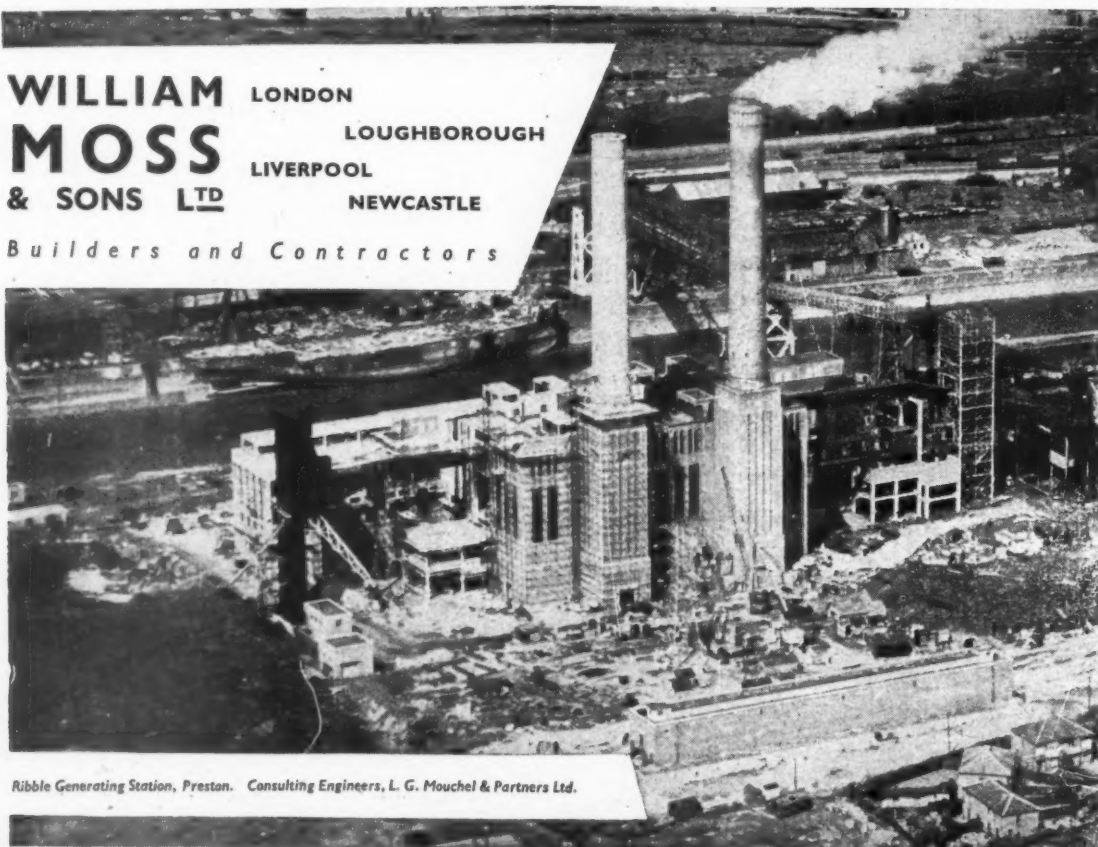
Telephones:  
LONDON WALL 1876. BISHOPSGATE 2336 & 7

Telephone:  
HADLEIGH, ESSEX 58441

Telegrams: FALBROWOK, SPIMARK, LONDON

**WILLIAM** LONDON  
**MOSS** LOUGHBOROUGH  
& SONS LTD LIVERPOOL  
NEWCASTLE

*Builders and Contractors*



Ribble Generating Station, Preston. Consulting Engineers, L. G. Mouchel & Partners Ltd.

*"When we build, let us think  
that we build for ever."*

Ruskin—"The Seven Lamps of Architecture"

SIR ROBT. **M<sup>C</sup>ALPINE** & SONS  
BUILDING & CIVIL ENGINEERING CONTRACTORS

Head Office :  
80 PARK LANE, LONDON, W.1

Branches ;  
Cardiff, Clydebank, Leicester and Newcastle



## ***The National Need*** **-HOUSES**

REALISING THE NATION'S NEED for houses, this Company was one of the first Contractors to start Municipal Housing work on the termination of hostilities.

Despite the difficulties occasioned by post-war conditions (which all engaged in similar work can appreciate from personal experience) we can say with pride that the block of flats erected by us at Highbury for the Islington Boro' Council was one of the first of the new Housing Schemes to be completed in London—*verb sap.*



# **A. ROBERTS & Co. LTD.**

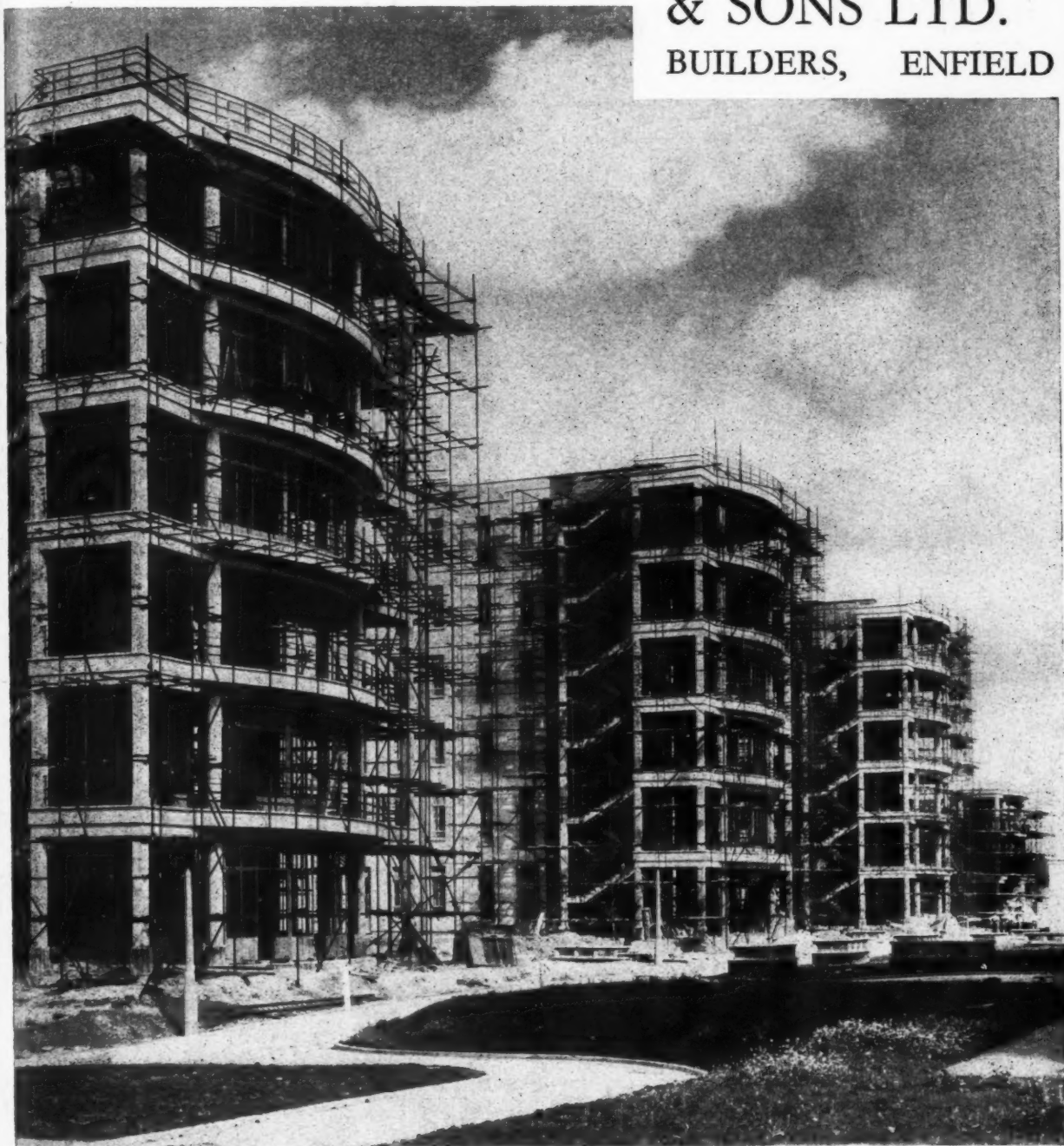
BUILDING AND CIVIL ENGINEERING CONTRACTORS  
79, ECCLESTON SQUARE, VICTORIA, S.W.1.  
Telephone: VICTORIA 9161-6



# ALLEN FAIRHEAD

& SONS LTD.

BUILDERS, ENFIELD



R. TRAVERS MORGAN & PARTNERS  
CONSULTING ENGINEERS

ALFRED SAXON SNELL & PHILLIPS  
CHARTERED ARCHITECTS

## ST. HELIER HOSPITAL, CARSHALTON

VIEW SHEWING

SOLARIA TO MAIN WARD BLOCKS  
IN REINFORCED CONCRETE

one of the many contracts carried out by us  
involving extensive work in reinforced concrete



C. BRYANT & SON LTD., BUILDING & CIVIL ENGINEERING CONTRACTORS, BIRMINGHAM & LONDON

G.B. 175 D

ESTABLISHED IN 1887

# GRIGGS & SON LTD

56, VICTORIA STREET  
WESTMINSTER S.W.1

## LONDON

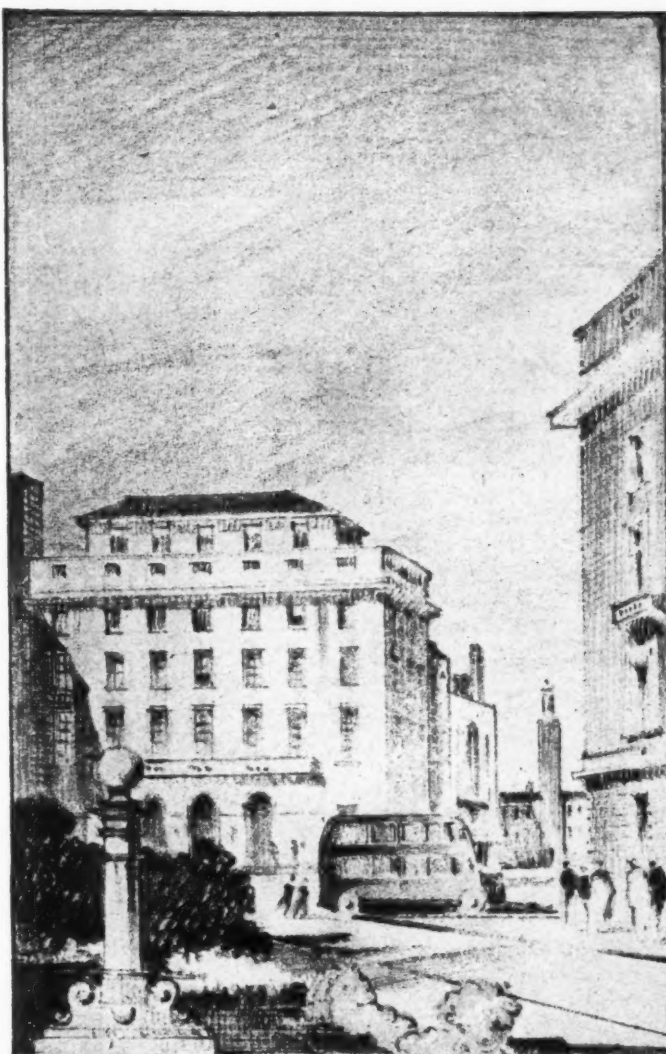
TELEPHONE: VICTORIA 9641  
PRIVATE BRANCH EXCHANGE

AND

12, GRIMSTONE  
TERRACE, MUTLEY

## PLYMOUTH

TELEPHONE: PLYMOUTH 5923



SINCE ITS FOUNDATION 60 YEARS AGO THE FIRM OF GRIGGS & SON, LTD., HAS, BY ITS POLICY OF GOOD BUILDING, ESTABLISHED A TRADITION OF WHICH IT IS JUSTLY PROUD. THIS TRADITION IS BEING UPHELD AND WILL ALWAYS BE AT THE DISPOSAL OF THE ARCHITECTURAL PROFESSION.

## BUILDING CONTRACTORS

### DIRECTORS

F. L. GRIGGS

W. J. GRIGGS

F. E. GRIGGS

D. W. GRIGGS





## MULLEN & LUMSDEN L<sup>TD</sup>

41, EAGLE STREET, HIGH HOLBORN, LONDON, W.C.1. - CHANCERY 7422-3-4

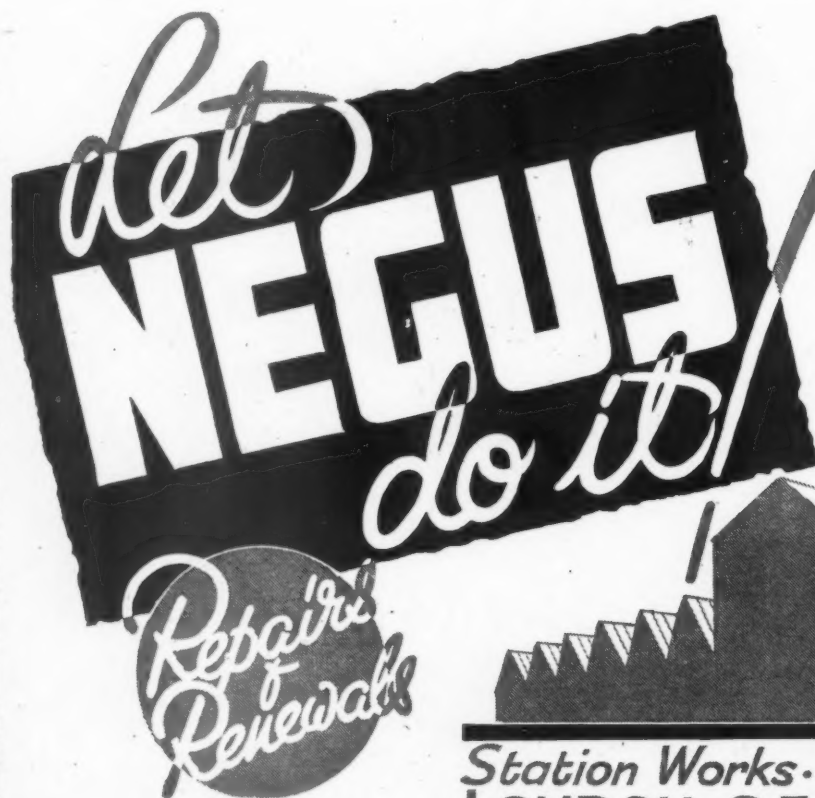
**SOUTHAMPTON**  
151 ROMSEY ROAD,  
SHIRLEY.  
SOUTHAMPTON 71258.

**ILFORD**  
ST. MARY'S WORKS,  
CONNAUGHT LANE  
ILFORD 1963.

**BRIGHTON**  
16 UPPER LEWES ROAD,  
BRIGHTON 6694.

**JOINERY WORKS**  
GRESHAM WORKS,  
STH. NORWOOD, S.E.25.  
ADDISCOMBE 1264.

**SMALL WORKS DEPT.**  
9 COPTIC STREET,  
LONDON, W.C.1.  
MUSEUM 3705.



**Station Works · KING JAMES ST.,  
LONDON · S.E.1 (WATERloo 5474)**







BUILDING & CIVIL ENGINEERING CONTRACTORS

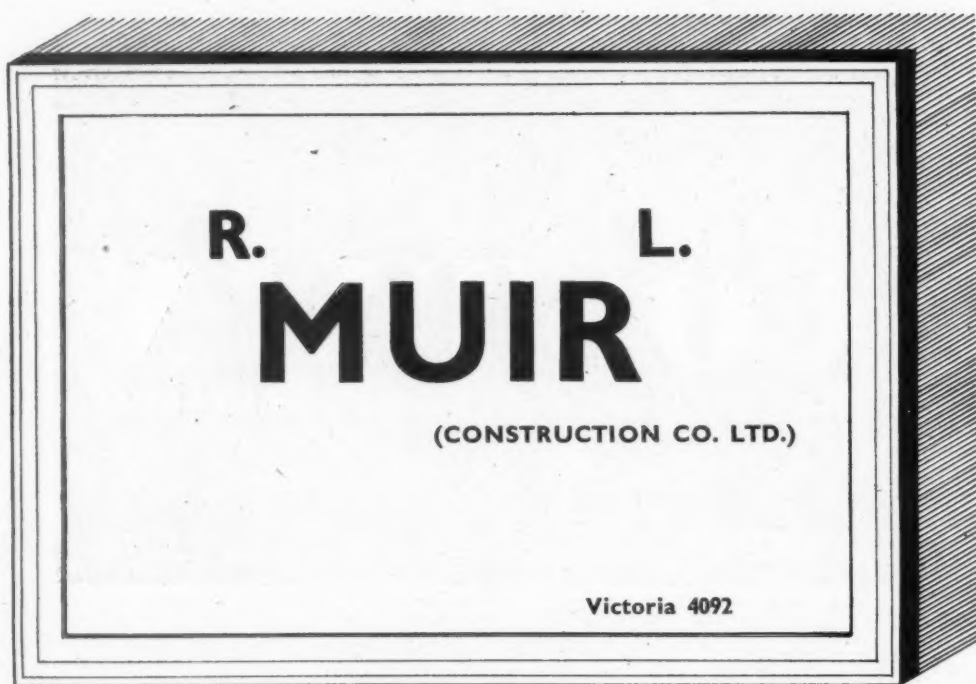
*Richard*  
**COSTAIN**  
*Limited*

LONDON

S.W.I.

DOLPHIN SQUARE LONDON S.W.1 VICTORIA 3800

BUILDERS & CONTRACTORS



JOINERY & MANUFACTURING

WOODWORKERS

VICTORIA 2619

162, MILLBANK, LONDON, S.W.1



# **J. GERRARD & SONS**

## **LIMITED**

*Building*  
*and*  
*Civil Engineering*  
*Contractors*

SWINTON  
MANCHESTER

*Telephone : Swinton 2261 (8 lines)    Telegrams : "Gerrards, Swinton, Lancs."*

London Office :  
VICTORIA HOUSE, SOUTHAMPTON ROW, W.C.!

*Telephone : Holborn 8348*

Speed



Efficiency

Also members of the Federation of Master Builders.

*Clarke Barton & Co. Limited*

**BUILDING AND PUBLIC WORKS  
CONTRACTORS**

THE YEARS 1945-1947 will be noted for many things, but in particular our efforts in carrying out building contracts with efficiency, speed and up-to-date methods. This record, which has been appreciated by various well known architects and local authorities, has only been achieved by our previous experience in all classes of building construction, coupled with our organised well trained staff of specialists and our co-operated efforts to complete all contracts without the suspicion of delay.

THIS RECORD we are proud of and we hope to repeat for years to come.

WE therefore invite enquiries for every description of building and contracting work.

**Head Office: 37 STATION ROAD, BELMONT, SURREY**

'Phone: VIGilant 6696-7

WILSON

**LOVATT**

& SONS LTD.

**CIVIL ENGINEERING  
&  
BUILDING CONTRACTORS**

*London Office:*  
27, Ashley Place,  
Victoria Street, S.W.1.

*Head Office:*  
Clarence Street,  
Wolverhampton

E. H. SMITH (*Croydon*) Ltd.

48, Wellesley Road

CROYDON

*Telephone Croydon 3643 (3 lines)*

BUILDING  
CONTRACTORS

JOINERY  
SPECIALISTS

# COX

BROS (CONTRACTORS) LTD.

*of*

ILFORD

BUILDERS  
AND  
CONTRACTORS

HEAD OFFICE  
37/39, GREEN LANE,  
ILFORD, ESSEX

TEL: ILFORD 2455/0566

# KIER

REINFORCED  
CONCRETE



J. L. KIER & CO. LTD., 7 LYGON PLACE, LONDON, S.W.1.  
SLOane 8122-3-4-5



**HOLLIDAY<sub>AND</sub>GREENWOOD**  
**LTD**  
**LONDON**

**BUILDING**  
**AND**  
**ENGINEERING**  
**CONTRACTORS**

**11. BUCKINGHAM PALACE GARDENS. S.W.1.**  
**SLOANE. 8241.**

# SOIL MECHANICS LTD.

(SUBSIDIARY OF JOHN HOWLEM & CO. LTD.)

## SITE INVESTIGATIONS.

Geological Surveys  
Exploratory Borings  
Soil Sampling  
Field and Laboratory Tests on Soils  
Analysis of Foundation Problems  
Soil Stabilisation

## GEOTECHNICAL PROCESSES

Chemical Consolidation of Sands and Gravels  
Cement Grouting  
Ground Water Lowering by Deep Wells,  
Shallow Wells and Well-points  
Compressed Air Work  
Bored Piles  
Thermic Boring of Concrete

**123 Victoria Street, London, S.W.1**

(Victoria 7718)

# GAZES

*Contractors for*  
**BUILDING & PUBLIC WORKS**  
*to*  
**MOST OF THE LEADING ARCHITECTS**  
**ADMIRALTY**  
**WAR OFFICE**  
**AIR MINISTRY**  
**MINISTRY OF WORKS**  
**L.C.C.**  
**LOCAL AUTHORITIES**  
**MAIN RAILWAYS**

**W. H. GAZE & SONS, LTD., LONDON & KINGSTON-ON-THAMES**  
*London Office: 41 CONDUIT STREET, W.1* *also branches at SURBITON & WALTON-ON-THAMES*

BUILDING CONTRACTORS

**MATHER**

JOHN MATHER (BUILDERS) LTD.  
8-9, EARLSTOKE STREET, E.C.1  
CLERKENWELL 4871/2

Trocoll House, 41-44 Gt. Queen St., W.C.2. (Head Office)

33, Coleman Street, E.C.2. (City Office)

Camberwell Joinery Works, S.E.5

Wandsworth Masonry Works, S.W.8

Dorking, Surrey

# TROLLOPE & COLLS

(Established 1778)

## BUILDING CONTRACTORS & ENGINEERS LONDON

For Country Work:  
Dorking (Surrey) Branch  
Jno. Croad, Ltd., Portsmouth (Subsidiary Company)



In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order." Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies, 6d.; post free, 11d. Special numbers are included in subscription; single copies, 1s 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw material now in short supply, are not necessarily available for export.



## DIARY FOR JANUARY FEBRUARY AND MARCH

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first.

**GLASGOW.** H. G. Jenkins and J. H. Bowtell. *High Voltage Fluorescent Tubes.* At the Institution of Engineers and Shipbuilders, 39, Elmbank Crescent, C.2. (Sponsor, IES.) 6 p.m. JAN. 15

**LEICESTER.** *Newer Heat Exhibition.* At the Museum and Art Gallery. (Sponsor, CUJC.) UNTIL JAN. 18

**LONDON.** Mrs. M. Pleydell-Bouverie. *Housing in US as I Saw It.* At the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.) Buffet lunch 12.45 p.m.—1.15 p.m., 2s. 6d. Talk 1.15 p.m.—2.15 p.m., 6d. JAN. 20

*Exhibition of Art, Chiefly from the Dominions of India and Pakistan.* At the Royal Academy Galleries, Piccadilly. An exhibition of sculpture, painting, textiles, jewellery, furniture. 10-7. Sundays 2-7. Admission 1s. 6d. UNTIL FEB. 29

Charles Dalton. *Crisis: Politics for Town Planners.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) Buffet lunch, 12.45 p.m.—1.15 p.m. Lecture, 1.15 p.m. JAN. 15

*Midwinter Madness.* New Year party and dance. At Caxton Hall, Westminster. (Sponsor, Polytechnic Architectural Students' Society.) 7.30-11.30 p.m. JAN. 15

Kenneth Holmes. *Museums and Industrial Design.* At the RSA, 6, John Adam Street, W.C.2. (Sponsor, RSA.) Buffet lunch, 12.30 p.m., 3s. JAN. 15

*IAAS Annual General Meeting.* At the IAAS, 75, Eaton Place, S.W.1. (Sponsor, IAAS.) 6 p.m. JAN. 16

*Hotel, Restaurant and Catering Exhibition.* A section will be devoted to hotel and restaurant design and construction. At Olympia. (Sponsor, Trade and Technical Exhibition, Ltd.) JAN. 16-24

S. M. Reisser. *The Welding of Bridges and Buildings.* At Manson House, Portland Place, W.1. (Sponsor, Institute of Welding.) 7.30 p.m. JAN. 19

*Royal Institution of Chartered Surveyors' Agricultural Conference.* At 12, Great George Street, S.W.1. Morning session, 11.15 a.m. Afternoon session, 2.15 p.m. JAN. 20

F. J. Osborne. *Planning Developments Abroad—USA.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. JAN. 21

*Building Contractors' Plant. The Problems Associated with Its Use.* A course of

eight lecture discussions. Jan. 21, J. F. Eden, *Introduction.* Jan. 28, Sir George M. Burt, *The Contractor's View (i).* Feb. 4, W. Barker, *The Plant Manager's View (i).* Feb. 11, A. G. Raven, *The General Foreman's View (i).* Feb. 18, Howard V. Lobb, *The Architect's View.* Feb. 25, Norman E. Wates, *The Contractor's View (ii).* March 3, H. E. Hodgson, *The Plant Manager's View (ii).* March 10, A. G. Buck, *The General Foreman's View (ii).* At the LCC Brixton School of Building, Ferndale Road, S.W.4. 7.0 p.m. Wednesday evenings.

JAN. 21-MAR. 10  
A. Bristow. *Community Centres.* At the IAAS, 75, Eaton Place, S.W.1. (Sponsor, IAAS.) Tea 5.15 p.m. Lecture 6 p.m. JAN. 21

Dr. K. W. Mantner. *The Design of Structures in Areas Subjected to Mining Subsidence.* At 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6.0 p.m. JAN. 22

Sir Frank Stockdale. *Recent Planning Developments in the Colonies and Detailed Description of West Indian Schemes,* by R. J. Gardner-Medwin. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. JAN. 27

F. B. Botham. *Municipal Industries.* At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch, 12.45 p.m.—1.15 p.m., 2s. 6d. Talk, 1.15 p.m.—2.15 p.m. JAN. 27

Arthur Ling. *Planning Developments Abroad—USSR.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. JAN. 28

**MANCHESTER.** *Exhibition of Painting and Lettering.* By John Stanley. At the Municipal School of Art. UNTIL JAN. 24

**NEWCASTLE-UPON-TYNE.** J. Bodger. *Kitchen Equipment in Industrial Canteens.* At the Institution of Mining and Mechanical Engineers, Neville Hall. (Sponsor, IHVE.) 6.30 p.m. JAN. 20

### COMPETITIONS

*Competition for War Memorial at Liverpool.* The Imperial War Graves Commission invites designs in competition for a memorial to be erected on the promenade at Liverpool to the Missing Naval Auxiliary Personnel of the Second World War. Open to architects who are ex-serving members of His Majesty's Forces. Assessor: Edward Maufe. Premiums: £100, £60 and £30. Last day for receiving designs, January 16. JAN. 16

## NEWS

THURSDAY, January 15, 1948  
No. 2762 VOL. 107

News .. .. .	47
Charles W. Key: Minister of Works .. .. .	48
Message from the Right Hon. Charles W. Key, M.P. .. .. .	49
Astragal's Review of 1947 .. .. .	50
1947: The Year's Work. By Professor Sir Charles Reilly .. .. .	54

24.J1 Challenge Standard Lantern Lights	To face page 60
44.D2 Rufflette B/L Curtain Track	

Building Abroad, Some Achievements of 1947. By Robert Townsend .. .. .	61
Italy Revisited. Written and Illustrated by Hugh Casson .. .. .	67
The Year in the Building Industry. By Ian Bowen .. .. .	73

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

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

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

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

### ★

*Mr. Silkin, has made two draft orders designating as the sites of proposed new towns 4,260 acres at WELWYN GARDEN CITY and 2,340 acres at HATFIELD.*

If they are confirmed Hatfield and Welwyn Garden City will be developed as new towns for 25,000 and 36,500 inhabitants respectively. Mr. Silkin proposes, in view of the closeness of the two communities, to appoint two development corporations with identical membership to develop them as twin towns. They will be instructed to keep the towns absolutely distinct, with a green belt between them. The Welwyn Garden City Company had planned to carry through the expansion, and it may be that they could have found the resources to do it. Nevertheless it seems to the Minister that the time has come when the private company should be replaced by a public body. The Minister thinks it undesirable that a private company, however public-spirited, should, by virtue of its ownership of most of the land and buildings, be in a position to determine the character of a whole town and the living conditions of the majority of its inhabitants. Such power, it seems to him, should be vested in a body representing the people. A public inquiry will be held if objections to the Minister's orders are received before February 7, 1948.



Northampton Rural District Council

R. J. Miller, A.I.A.S., Architect & Surveyor

# HOPE'S

## PRESSED STEEL DOOR FRAMES

SEND FOR CATALOGUE No. 231 : HENRY HOPE & SONS LTD · SMETHWICK, BIRMINGHAM

NEV  
begin  
Chan  
stand  
alrea  
Reill  
Briti  
and  
Thos  
first  
arch  
by h  
in 10

★  
MR.  
M.C.  
SIG  
Plan  
nique  
Coun  
t o  
Desi  
Mr.  
form  
(Acti  
moted  
effect

The  
of 'th  
C A  
in to  
dedic  
The f  
bisho  
was  
opene

This  
powe  
was  
level

**NEW YEAR ISSUE.** This issue of the JOURNAL contains the usual New Year features, beginning with Astragal's Review of the Year and tribute to outstanding personalities. Sir Charles Reilly contributes his usual article on the buildings of 1947. Once again circumstances compel him to deal mostly with buildings in the design stage rather than buildings already completed. Incidentally, this is the twenty-second occasion on which Sir Charles Reilly has contributed this feature to the A.J. New Year issue. Since there were not many British buildings completed in 1947, another article deals with the buildings of the year abroad and is illustrated by a selection of the most significant work of 1947 in Europe and America. Though foreign travel has been temporarily stopped, 1947 saw many architects pay their first visit abroad since the war and gain first-hand impressions of post-war Europe. One such architect was Mr. Hugh Casson, who contributes to this issue an Italian travelogue, illustrated by his own sketches. The issue ends with a summary of the building industry's achievements in 1947, by Professor Ian Bowen, the A.J.'s industrial and economic consultant.

★ **MR. GORDON STEPHENSON M.C.P., F.R.I.B.A., HAS RESIGNED** his appointment as Chief Planning Officer (Planning Technique) of the Ministry of Town and Country Planning on his appointment to the Chair of Civic Design at Liverpool University. Mr. R. T. Kennedy, A.R.I.B.A., A.M.T.P.I., formerly Senior Regional Planning Officer (Acting) (Planning Technique), has been promoted Chief Planning Officer (Acting) with effect from January 5.

*The crypt chapel, the first part of the NEW GUILDFORD CATHEDRAL to be put into regular use, has been dedicated by the Bishop of Guildford.* The foundation-stone was laid by the Archbishop of Canterbury on July 22, 1936. It was hoped that the first part would be opened for services in 1941, but the war de-

layed and then stopped the work when about one-third was completed. Guildford is only the third cathedral—Liverpool and Truro are the others—built in this country by the Church of England since the days of Wren. Mr. Edward Maufe is the architect for the building.

*The Minister of Health has ordered the EXPIRY OF THE CAPITAL GRANT payment in respect of non-traditional houses.*

In future, non-traditional houses will only receive the same subsidies as those of traditional construction. Local authorities are to determine which of the non-traditional types they would like to adopt, having regard to their suitability and availability.

*The Central Electricity Board has abandoned the proposal to build a GENERATING STATION AT ROTHERHITHE and is seeking a site elsewhere.*

The Board has reviewed its programmes of generating plant extensions in the light of cuts in capital expenditure and a number of projected extensions have been postponed. They are: Scotland: Portobello. N.W. England and N. Wales: Carrington, Bolton, Whitebirk. Mid-East England: Sculcoates, Skelton, Grange, Lincoln, Thornhill. Central England: Meaford. S.E. and E. England: Battersea. S.W. England and S. Wales: Carmarthen Bay.

*Owing to the shortage of steel, the Minister of Health has decided to DISCONTINUE BUILDING IN STEEL FRAME CONSTRUCTION.*

This affects the systems given in the following list. BISF, number of tenders approved, 29,782, number completed, 10,645; Cussins, 1,074—148; Hill, 1,091—125; Steane, 226—none; Trusteel, 974—42. This does not affect the size of the programme as a whole, and local authorities are to complete their housing programmes with other approved systems of construction.



*This view of St. Paul's from the South Bank will remind readers of one of the town planning controversies of 1947, the building of a power station at Bankside, opposite the cathedral. Strong criticism of the proposal by the Dean of St. Paul's, the LCC and many others was over-ruled by Mr. Silkin, Minister for Town and Country Planning. This recently taken photograph shows the site as it is now, levelled and ready for the foundations of the new power station.*





## *Charles W. Key: Minister of Works*

As usual the Minister of Works contributes the Foreword to our New Year issue. This year the signature of Charles W. Key, M.P., appears at the foot of it for the first time. He became Minister in February last in succession to Mr. George Tomlinson. Born in 1883, the son of a Chalfont St. Giles brickfield labourer, Mr. Key was a London schoolmaster from 1905 till 1940, a career only interrupted by military service in the first world war. In 1940 he entered Parliament as Labour member for the Bow and Bromley Division of Poplar. In his third speech in the House he had the distinction of seconding the reply to the King's speech. An Alderman of the Poplar Borough Council and three times Mayor, he held the chairmanship of the Metropolitan Boroughs' Standing Joint Committee from 1934 to 1941. When war broke out he was Chairman of

Poplar Civil Defence Committee and Deputy ARP Controller. Under his direction the Borough's civil defences were so well organised that, though ten thousand houses were destroyed and practically every one of the surviving thirteen thousand houses damaged, fatal casualties averaged no more than one per incident. In the 1945 General Election he was again returned for the same constituency and became Parliamentary Secretary to the Minister of Health. As a cricket enthusiast he at one time played regularly as a slow spin bowler for Sir Francis Meynell's Nonsuch Team. In 1917 he married Florence Adams, a fellow school teacher, whom he met as a working colleague in Stepney. His wife, too, has long been an active worker in the socialist cause and at one time edited the *Journal of the National Union of Women Teachers*.





**MESSAGE TO THE ARCHITECTS' JOURNAL  
FROM THE MINISTER, THE RIGHT  
HONOURABLE CHARLES W. KEY, M.P.**

I am glad to have this opportunity of conveying my New Year's Greetings to the readers of the Architects' Journal. There is no doubt that 1948 is going to be a difficult year for architects and for the building industry. It is essential that we should continue to expand our exports in order to obtain the food and raw materials on which our standard of life depends. New industrial building, therefore, has had to be severely restricted in order to release steel and other resources for the export industries. I fully appreciate the difficulties which now confront all who are concerned with the building industry, as a result of the decisions which the Government has found it necessary to make. I have every confidence, none the less, that the present difficulties will be overcome, and that before long the building industry will once more be able to turn its splendid resources to the task of reconstruction on the home front. Meanwhile I hope that it may be possible to continue with the preparation of plans for future work so as to facilitate ultimate recovery. The improvement of our skill and development of our resources and techniques must also go on. The establishment of the Advisory Council on Building and Civil Engineering Research and Development is a clear expression of the determination of all concerned, the industry, the profession, the scientists and the Government, still further to improve the technical and scientific resources of the industry for the tasks which still lie ahead.

*Charles W. Key*



## ASTRAGAL'S REVIEW

of

# 1947

### JANUARY

It was without regret that most of us watched the raddled and wheezing figure of 1946 lumber off into the wings. How were we to guess, as we rustled our programmes in anticipatory relish, that the next turn would leave us even more fatigued, frustrated and unsatisfied? Certainly the scenery upon which the curtain of 1947 rose was familiar enough. A strike in Smithfield; violence in Palestine; acrimony at Lake Success; Mr Arthur Lewis, M.P., opening up round 1 against the Savoy Hotel. It seemed like 1946 all over again. Housing limped along, its curve of progress long deserted by the whirling line of rising costs. Only 70 BISF houses had been finished out of 14,000 begun, and in Surrey model pigstyes were being rented out at £1 a week to picked tenants. The new House of Commons had reached damp-course level, but some new houses in West Drayton at the same stage of construction were being pulled down as nobody had remembered that the new Heathrow runway had been planned to pass that way. "Britain Can Make It," described by Sir "The Importance-of-Being" Ernest Benn as "a circus which would hardly have been tolerated in a fifth-rate Continental city," had closed its doors behind its 1½ millionth visitor and we all dragged home to our unstreamlined kitchens and unscientifically heated hearths. Though every domestic scuttle bore visual evidence that Mr. Shinwell was leaving no stone unturned (or unsold), there remained some doubt as to whether an igloo is any warmer than the normal British home.

### FEBRUARY

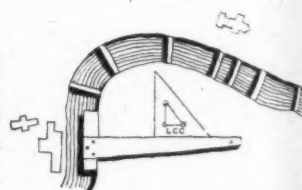
This month the earth collided with a minor planet, which left a small scar and a quantity of suitably red deposit in the heart of Siberia. More effect was felt here from an industrial catastrophe as swift and deadly as the blizzard which largely caused it. The tiny land of Britain was frozen. Transport was paralysed; factories closed; homes and offices unheated; pipes (except apparently in the prefabs) almost



universally frozen. House-building dropped to its lowest post-war level. In the melancholy silence which lay like a coat of ice over the country the only sound to be heard was that of Mr. Shinwell eating his words. Out of the greyness whirled two White Papers like snowflakes. The first announced for 1947 a Housing Target of 240,000—provided, it added cautiously, the materials were available. [It did not reveal that 12,000 families were by now squatting in Service camps.] The second, which aimed to deal with the economic crisis, analysed our predicament with great clarity, but put forward no heroic measures for our salvation. Architects who had planned to hang on, whatever the cost, so as to be ready for business in 1947, began to suspect that they must hang on a couple more years—or take a salaried job if they could find one. Advertisements showed that local authorities were all at their wits-end for trained staff, and it looked as if the profession was unobtrusively becoming as nationalised as the coalmines.

### MARCH

From the grip of ice Britain passed under the rule of Lord Thaw-Thaw, and widespread floods added to the havoc left by the February frosts. The planners, however, noses to



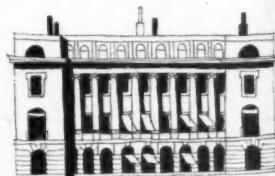
boards as usual, were still as busy as beavers. Despite a legal set-back over Stevenage, corporations were set up for Crawley and Hemel Hempstead. Regional Controllers were appointed by MOTCP. A new town was announced for Aycliffe, Co. Durham. The LCC published its imposing plans (consultant Charles Holden) for the South Bank. This included new Government offices and a National Theatre, but excluded—ah, innocents—a power-station. Caught by the fashionable fever, the Cabinet threw a planner into the economic works in the person of Sir Edwin Plowden.

The opening of the Ideal Home Exhibition, with houses at the newly increased prices of £1,300 and £1,400, recalled its predecessor in 1938, where a family bungalow could be obtained for £175. Meanwhile, organised building labour continued to press for a wage increase (though the rise in output promised in return for the last raise had not been fulfilled), and remained as muddle-headed and obstinate as ever over the problem of incentives to output.

Mr. Henry Wallace came over on a lecture tour. The *Queen Elizabeth* ran aground. Mr. John Gloag celebrated his silver wedding, and the name of Max Intraor was mentioned daily in Bow Street.

### APRIL

The timber shortage was now so desperate that it threatened to render the housing programme out of date barely two months after it had been set. Such timber as was available could only be obtained through a nightmare tangle of conflicting authorities. After two years the building snarl-up could no longer be blamed upon the faults of the Coalition Government, many and serious as these faults were. It was clear that, though the Government always boasted that at least they had a plan, this plan was, in fact, hopelessly unrealistic. Too many houses were being begun and not



enough finished. Moreover, local authorities, the chosen instrument, were taking half as long again to finish a house as the private builder. The licensing system remained full of inconsistencies. [One local authority granted a licence for a specialist h.w. installation but refused to allow cold water to be connected to it.] The production of building materials was ill co-ordinated, while increased output and increased wages were locked, it seemed, in motionless combat.

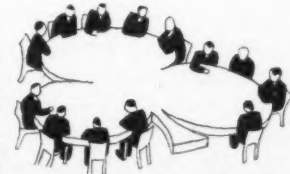
Not all was melancholy, however. The Gorell Committee recommended the preservation of the Regent's Park Terraces, the exhibition of French tapestries opened at the V & A, Mr. Silkin won the Stevenage appeal and designated Harlow in the flush of victory, the ban on house-painting was lifted, and there were a few Cabinet changes. Most people, however, to whom the speeches of all politicians are merely an ill-wind which blows nobody good, remained more interested in the Soviet brides, the Messina girls, and the new false bosoms, nicknamed "Outlaws." Remember why?

## MAY

By now even Mr. Bevan was forced to admit that the housing target would not be reached. The returns showed that in the first three months of 1947 only 20,000 houses had been completed, less than the *monthly* total required to keep pace with the programme. The reasons officially put forward—they were genuine enough—were the February fuel crisis, the abnormally severe weather and shortage of timber. Not admitted, but equally guilty, were our over-optimistic planners, whose programme was out of date even before the Stationery Office had had time to print it. In defence of his Ministry, however, Mr. Bevan showed justifiable pride in his housing achievement compared with that of 1919-1921, and reminded us that since building controls had been lifted in the USA, rising costs had brought the American housing programme virtually to a standstill. Nor was planning in much better shape. The blitzed towns were becoming impatient to the verge of desperation. The Service departments continued to smash and grab. The LCC were at loggerheads with the City of London and making hay out of Abercrombie's green belt. Finally, Mr. Silkin, after handling the TCP Bill debate with great skill and sincerity, agreed to that monument of unplanning, the Bankside Power Station. The publication of the Holford-Holden City plan came as a welcome contrast to this melancholy tale of frustration and shortsightedness. Admirably written and presented, it put forward a skilful solution to the traffic problem, suggested new methods of controlling density and daylighting based on principles worked out by the Research Division of MOTCP, and showed throughout that great rarity, an imaginative visual policy.

## JUNE

To those ignorant of hard currencies and disinterested in the convertibility of sterling, things began to look a bit brighter this month. In the warm sun, which heralded the hottest British summer for years, the dollar crisis was no larger on the horizon than a flying saucer. Housing figures jumped to



10,000 per month. A joint committee of MOW, MOH, BOT and the building industry succeeded in simplifying the licence form, and the RIBA gathered happily over the steaks and nylons of Dublin. MOTCP issued a memorandum on the Report of the Advisory Committee on London Regional Planning, supporting their main contention that somehow or other the growth of London *must* be stopped. How London can hope to succeed by persuasion where Moscow failed by decree it is hard to see, and it seems likely that the contingent of 40,000 persons which comes every month to London will not greatly decrease. In the general atmosphere of good will the India Independence Bill passed through its final stages, Sir Hartley Shawcross admitted that he always gave his butter ration to his baby, and Mr. Schroeder, a New York fireman, rang up Mr. Molotov in Moscow and had a friendly man-to-man chat with him. The only cloud in the sky was the Coventry Cathedral dispute, which was rattling through a series of long Trollopian crises, culminating in a victory of the RIBA over the Harlech Commission.

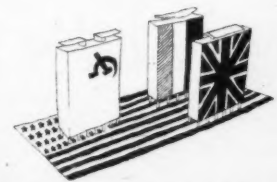
## JULY

Although it emerged in an unusually acrimonious housing debate that the programme was now running at two-thirds its allotted pace, the Ministers concerned refused to admit that output was low, nor would they produce the figures which surely would have proved that houses were in fact costing much more than the officially approved limits. *The Times* was not so reticent. "The building industry," it said, with a sharp rap on the knuckles for all of us, "is of all industries the least progressive and most wasteful. It is indifferent to innovation and backward in management and welfare." Obviously we all needed a holiday, for the news was fairly discouraging on every front. Mr. Clough Williams-Ellis resigned from the Stevenage Corporation the same month as the first advance construction party started work. The Soviet trade talks broke down, war continued in Indonesia, there was an epidemic of air crashes, another strike at the Savoy and the Burmese Cabinet was assassinated while in session. [Curious that shamefully persistent lack of surprise which always accompanies the shock of hearing that a politician has been murdered.]

The return of Eros to Piccadilly, however, was suitably accompanied by the official announcement of the Royal engagement, and this news, coupled with good weather and plenty of cash in most of the pay packets, made the dollar crisis merely an irrelevant bore. Even the threatened loss of American films was accepted without much protest. Who cared if Hollywood became Loss Angeles?

## AUGUST

Throughout the blazing mid-summer heat the crisis thickened like a thundercloud. Ministers flew to and fro from their holiday resorts like flying saucers, burning up our dollar-bought petrol with magnificent insouciance. Foreign travel (except for invalids and MPs) was totally barred; pleasure motoring reprieved only until October. Timber suffered the





unkindest cut of all. Potato rationing was threatened, capital expenditure slashed still further. Housing and schools survived for another year, but for architects generally the outlook was not encouraging. Enviously they mulled over the published plans of UNO buildings—Frank Lloyd Wright may have described them, in a cable to the AJ, as “a monstrous commercialised tombstone for the graveyard of peace,” but at least they were going to be built. New Towns were to be certain casualties in the economy drive, and there was small hope for Mr. Gibson's excellent suggestion that rather than parcel out inadequate supplies of labour and material in an attempt to be fair to all it would be more instructive and much more exciting to concentrate on one of the towns, finish it, and use it as a reference and test case.

The need for increased output in the building industry became even more urgent, and in an attempt to remove all obstacles to the setting up of incentive schemes Regulation 56AB was repealed and the priority system for building materials was revised and simplified. There were, however, two displays of national resilience to cheer the heart. The first was the triumph of Enterprise Scotland and the Edinburgh Festival. The second was the opening up in Hiroshima of an Atom Café and an Atomic Bookshop.

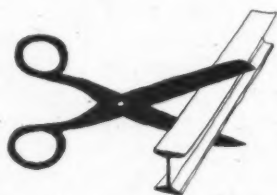
## SEPTEMBER

The announcement that capital expenditure was to be cut by two hundred million [half a million being put aside for our new embassies in Rome and Rio] was a nasty clip for the building industry, but criticism was mostly to the effect that the cut came too late and was inadequate. It was still, after all, only a cut in what we had intended to do. We still proposed apparently to spend more money than we had, and anyway to most people, for whom a crisis meant unemployment and the dole, this particular version was so far not much to worry about.

Now we were poor however and, faced more often with stronger temptations, traditional British standards of reliability and honesty became harder to maintain. The gaoling of an MP, the expulsion of another, the reprimanding of a third, the announcement that over 2,000 articles had been pinched from the House of Commons restaurant, coupled with an epidemic of bad railway accidents, seemed to support the view that corruptibility among politicians and inefficiency on the railways was no longer a prerogative of Latin races. There remained, however, three items of news to cheer us—the reopening of the Soane Museum, the successful CIAM conference at Bridgwater, attended by representatives of 18 countries, and, best of all, the relief at hearing that the Government of Monaco has at least reached the bottom of its in-tray and declared it was no longer at war with the Axis.

## OCTOBER

This month the Building industry accepted, through the National Joint Council, the principle of incentives, based upon a scheme designed to permit any man to earn at least 20 per cent. above his basic wage rate. It was sensibly



agreed that the scheme should run for at least two years and that once a bonus rate had been agreed for a particular job it should not be altered till that job was finished. Having at last worked out a way of getting on with the job, the industry found itself in danger of having no job to get on with.

The Cripps' cuts which followed the Cabinet changes were as severe as they were necessary, and though housing and schools escaped comparatively lightly, factories, public works and the New Towns received their expected push down the ladder. Let's hope the Government planners have learned their lesson by now and will not disrupt the building programme more fiercely than they must, for building is not an industry which can be shut off and turned on like a tap; also that they will in future integrate their new programme more closely with the building materials industry and particularly with the desperate timber position. The RIBA organised a most successful Schools Conference, the MOH an equally successful conference to put over the Airey house, the Cominform was re-established in Belgrade, and the AJ launched its new series of Information Sheets. The Holford- Holden City plan received an unofficial blessing from Mr. Silkin [but less enthusiasm from Mr. Barnes], and the *Daily Express* suggested closing down MOTCP for two or three years. The death was announced of John Dower, upon whose personal researches the National Parks report is largely based, and to whose enthusiasm and ability the National Parks themselves will be a worthy memorial.

## NOVEMBER

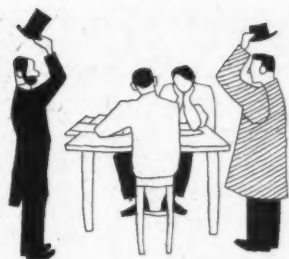
During the summer Mr. Edwin Gunn was put in the dock and fined for letting the cost of a £1,200 house rise to £1,595. This month Mr. Key [out of the dock] revealed that the cost of the temporary aluminium house, put at £900 in 1945, was now £1,610, exclusive of site, roads, sewers and services [exclusive, too, presumably, of the fantastic subsidy paid to the aluminium industry]. In other words, the real cost of these houses—of which about 17,500 have been put up—is probably about £2,000 each. So ends this ill-fated, ill-planned and ill-managed temporary house programme—even to that anticipated excuse that they weren't *really* temporary anyway. No wonder there was a smug “I-told-you-so” atmosphere at the first Building Exhibition for nine years, where we were given a well-designed display of the tremendous technical advances made during the war years. Abroad, the strikes in France had developed from disorder almost to civil war, the fighting in India was bitter and confused, and violence in Palestine was given a new impetus by the UNO partition announcement. At home things were quieter, but not without drama. Mr. Dalton resigned after a slip of the tongue, the Savoy guerrilla war ended with the arrest of Commando Lewis, and the Socialists lost 687 seats in the municipal elections. By holding Gravesend later, however, they confounded those who thought they knew for whom the poll tells. All home news, however, was outshone by the Royal wedding, which with its breastplates and plumes, its uniforms and brocades gave us all a heart-warming day amid the chill and niggling austerities of November.





## DECEMBER

The principal event this month was, of course, the centenary of the AA, celebrated in a three-day programme of pantomimes and conferences, banquets, visits, receptions and dances, the spirited informality of which admirably carried on the AA tradition. [For even on its hundredth birthday it is the vitality and resilience of the AA which we admire and not the creaking dignity of a dotard.] From beginning to end the party went with a bang, and its success reflects great credit upon the industry of the organisers and upon the loyal affection of the many hundreds of members and guests who attended. The rest of the month was spent in preparing for a merry Crippsmas, getting used to the cuts and trying to discover how many little pigs were going to black market. Mr. Key refused to answer questions alleging a decline in output in the building industry, and Mr. Bevan—busy in his Harley-Street-quinade with the BMA—likewise refused to give the average figure for the cost of a traditionally-built house to-day. Perhaps the Research Committee, set up this month by MOW, will get busy on these two interesting problems.



The LCC approved the Bankside Power-Station drawings, the Birkenhead Plan was published, the Harlow Model exhibited. Plans were announced for a dispersal scheme of exhibitions for 1951, and for the present there was Van Gogh at the Tate and India at Burlington House. Led by Mr. Maurice Webb, 165 MPs, having voted themselves higher salaries not so long ago, voted to decrease the Royal allowances. So ended 1947, a year crowded with aspirations, endeavours and great occasions, but remembered more, perhaps, for its failures, discomforts and defeats. The curtain falls upon the deserted conference table, with its circlet of four empty chairs, upon the sound of violence from India, Greece and Palestine, upon the smell of disintegration from Europe, upon the chill of hard times at home. Once again, don't think it hasn't been fun—because it hasn't.

## PERSONALITIES

Astragal's vote for personality of the year goes inevitably to the *Architectural Association*, a 1947 centenarian, but still spry and adding yearly to its faculties; runner-up is Mr. Samuel Clipsam, inventor of PYROC and the potential saviour of the British building industry.

Astragal also doffs his hat to Lancelot Keay and C. J. Mole (Knights), Sir Ernest Simon (Baron), Messrs. Fairweather, Ryder and James Gardner (OBEs), Gordon Russell and Frederick Jackman (CBEs), and Robert Goodden (RDI); to Howard Robertson, President of the AA and British architect for UNO, and to Charles Key (MOW); to Professor Richardson (Gold Medallist); and John Gloag (Silver Weddingist); to University builders Graham Dawbarn (West Indies) and Maxwell Fry (West Africa) and to National Theatre designers Brian O'Rourke, A.R.A., and Cecil Masey; to the architectural department of the Kingston School of Art and the town

planning Department of Durham University; to Robin Darwin, principal of the Royal College of Art, and Gardner-Medwin, Chief Architect, MOH Scotland; to fledgling Professors Ian Bowen, Gordon Stephenson and Christopher Tunnard; to Major Athoe (21 years with IAAS) and to Bannister Fletcher's *History* (13th edition); to Messrs. Tweddell (Harlow), Ablett (Hemel Hempstead) and Holliday (Stevenage); to Messrs. Holden and Holford for their City Plan and Edward Antrobus for his traffic plan; to Aneurin Bevan, who confessed to liking living under thatch; and to Sir Waldron Smithers, who wants the new House of Commons to be lit by fluorescent lamps; to exhibition designers Basil Spence (Enterprise Scotland), Robin Day and Peter Moro (Jet Propulsion) Cockade (Tea Centre); in congratulation to the new editor of *The Architect and Building News* and to his new cover design and in commiseration with *Horizon* upon its lamentable Ugly Buildings Competition; to the City of Birmingham and the Borough of Woolwich for leading the housing drive, and to the County of Herts for its energetic architectural department; to the Georgian Group for its Soane party and to Queen Anne upon emerging from her blast protection; to the RIBA for its performance over Coventry Cathedral and also for beating the AA at cricket, and to the AA students for their South Bank exhibition projects and their centenary conference; in farewell to Clough Williams-Ellis and in welcome to Sir Thomas Gardiner; to new Royal Fine Arts Commissioners Henry Moore and John Summerson, and to veteran artistes Mae West and Mistinguett; to the National Trust upon acquiring Knole and to John Betjeman for saving White Horse Hill from the Post Office; to the organisers of the CIAM Conference and to the designers of the British Domestic Design and Czech Architecture Exhibitions at the RIBA; to Arcon for seeing 41,000 of their houses completed in two years, and to Mr. Lamont for giving half a million dollars to the Canterbury Cathedral restoration fund; to A. M. Chitty for his travels to Turkey and Italy in the cause of planning and to *The Architectural Review* for its Westminster Precinct Plan; in sympathy with Edwin Gunn for his ill-luck with the licensing laws and in no sympathy with Dr. Summerskill for her lecture on cheeses; in gratitude to the producers and casts of "Oklahoma" and "Annie Get Your Gun" and in admiration of the equally energetic Sea Scouts who last summer swam the English Channel in relays; in respect to forger Van Meegeren and financier Max Intrator for fooling so many people for so much of the time, and to hon. auditor John Summerson for seeing that we are not being fooled by the RIBA accounts; to Dublin for its food, Paris for its long skirt, and Ealing Broadway Station, design centre for the GWR; to Wallace Harrison, chief architect for Uno, and to Aspro for declaring—no wonder!—a 50 per cent. dividend; to Monty for deserting the Coldstreams for the coal seams, and to Manny Shinwell for doing the reverse; to Oswald Milne, Mayor of Hempstead, and Hartland Thomas, now of the CID; to F. J. Osborn upon his departure for the USA and to Professor Abercrombie upon his arrival in Hong Kong; to Le Corbusier for getting a free ticket to the AA conference; to Frankie Reynolds, of Georgia, just elected Miss Spirits of Gum Turpentine for 1948; and finally to the London School of Economics, which has apparently opened—was it defiance or desperation or just the wheel of fashion?—a chapel in which its students may worship.



"A lot of thought has clearly been put into the disposition of these Administrative Offices." The model of Harlow Town Centre designed by Frederick Gibberd.

Once again Sir Charles Reilly's annual article on the year's work is compelled by force of circumstances to deal with work still on the drawing boards rather than with completed buildings. But all the projects he criticises are real ones on which work has begun or is expected to begin shortly.

## 1947: THE YEAR'S WORK

### BY PROFESSOR SIR CHARLES REILLY

WHAT with the war and then with the restrictions on building, there is little doubt that the private architect, relying on private clients for his living, has not for centuries, indeed since his became a separate profession from that of the master builder, had such a poor time over so long a period. It is no good now his meeting his friends on the golf links and hoping that some fat job will eventuate, for it certainly will not—at least, not in the old way. The days of the large country house are over for everyone, and I cannot help hoping also those of shops and offices all built differently from their neighbours to advertise individual concerns. We may still be 80 per cent. private enterprise, but that 80 per cent., as far as the exteriors of new buildings are concerned, will, one is pretty sure, have to conform to general schemes of neighbourliness. In that way the times ahead would appear to be very much like those of the eighteenth century, when no one thought of building to himself or to his client alone as far as the exterior went.

The street, the square, the terrace and the neighbourhood were all considered as consisting of related buildings, as were the materials used in them. No one thought of designing or using anything alien merely to be prominent. Looking at the centre of any of our big commercial cities built in the latter half of the nineteenth century and the early years of this the exact reverse seems to have been the case. Each building tries to call attention to itself at whatever expense to the community. If those days are over, as I think they are, so much the better for our towns if not for the private architect as we have known him in the past.

What then of the future? I do not think this is so black, indeed not black at all, for I think it promises really great things. The architect however must change with the times. He must realize in the new world the individual client will stand out less and less and the community as a possible client more and more. He must learn indeed to serve both at the same time. The great town planning schemes everywhere to-day look in the same direction. More and more they suggest not uniformity but an expression of the community at its best. More

and more do they suggest that the future work of the architect will be on a larger scale covering sites of a much greater area than formerly. One hopes that when the time for building comes round again the successful architect in our great cities will, like his Russian colleagues, have whole streets to design or sections of streets, rather than individual buildings here and there, and one may hope that the results will be better. I imagine such streets, picturesque because modern and functional with variety in their unity, being put up to competition and a future Nash being discovered in every town. One has indeed only to think of the original Nash and his Regent Street, with its variety in unity, which some of us saw and all know, and then think of the present hotch-potch to realize what we must achieve and what we must avoid. The New Towns, each designed as a whole, under a separate architect, should indeed be a good indication of what may happen. That two of the architects and two of the town planners of these new towns are Liverpool men I may perhaps, as a proud old man, be allowed to mention.

It was indeed always one of my aims at Liverpool to place as many of the best students as I could in the way to reach public positions, an aim in which Sir Lancelot Keay greatly helped. They had all lived in a real university, meeting at lunch and in their hostels, young nuclear



physicists, engineers, lawyers, and so on training for other professions, and had the widened outlook that such contacts imply. The establishment of the first Department of Town Planning in England in the Liverpool School led, of course, in this direction. Many indeed through it got great positions where they are doing grand work individually and at the same time helping forward fine architecture. There is J. H. Forshaw, for instance, first as architect to the Miners' Welfare Committee, who designed and built the great range of Pithead Baths and Institutes, still, I think, the finest range of modern buildings in the country (and giving for the first time, as far as I know, full credit on paper to his assistants), then as Architect to the LCC, and finally, now, as Chief Architect to the Ministry of Health with a great hospital system to design as well as approving for Government grants every housing scheme in the country. Think of the power for good, a man like that has and how Governments as well as lesser bodies will seek his advice. Then there is Robert Gardiner Medwin; another Liverpool fellow, in the same position in Scotland, while others are Borough Architects up and down the country in great towns like Manchester, Southampton, Newcastle, Leicester, and Westminster, to mention but a few. Perhaps there being so many Liverpool men in such positions to-day is indeed the main reason why I am so optimistic over the future, but I do not really think so.

The general appearance of the large sections of our towns that are about to be rebuilt when the crisis lessens will, of course, in the first instance be in their hands, just as I hope the rebuilding of the City of London, as well as its replanning, will be in the hands of Charles Holden—I wish he were from Liverpool—and of that other Liverpool man Professor Holford. Then there are others in the wider sphere, which the aeroplane makes possible, like Maxwell Fry with apparently the whole of West Africa under his charge, for its larger buildings as well as for a University, Shirley D'Alvis building the greatest University in Asia, a residential one at that, in Ceylon, and R. P. S. Hubbard, who, with his partner, at least when our Government was in control, was helping to spend on building the £30,000,000 the Government granted for rebuilding purposes, probably the biggest architectural commission in the world at the present moment. These latter, you may say, and rightly, are private architects, but they are private architects working for Governments. They have been appointed by Governments who more and more, it seems to me, in the future will have great works to commission and who must rely for advice on whom to appoint on the able architects already in great public positions, and when good architects are advising the Government, less and less will there be any need for the private architect to visit the golf course except for the pleasure of the game. This is roughly why I am hopeful for the future both of architects and architecture. Once more, as in the 18th century, with the municipality taking the place of the great landlords, we shall design and build in a larger, simpler manner, with all parts related to the whole. The new shopping street at Plymouth designed by William Crabtree is a good example of this and one for which the money has, I believe, already been voted.

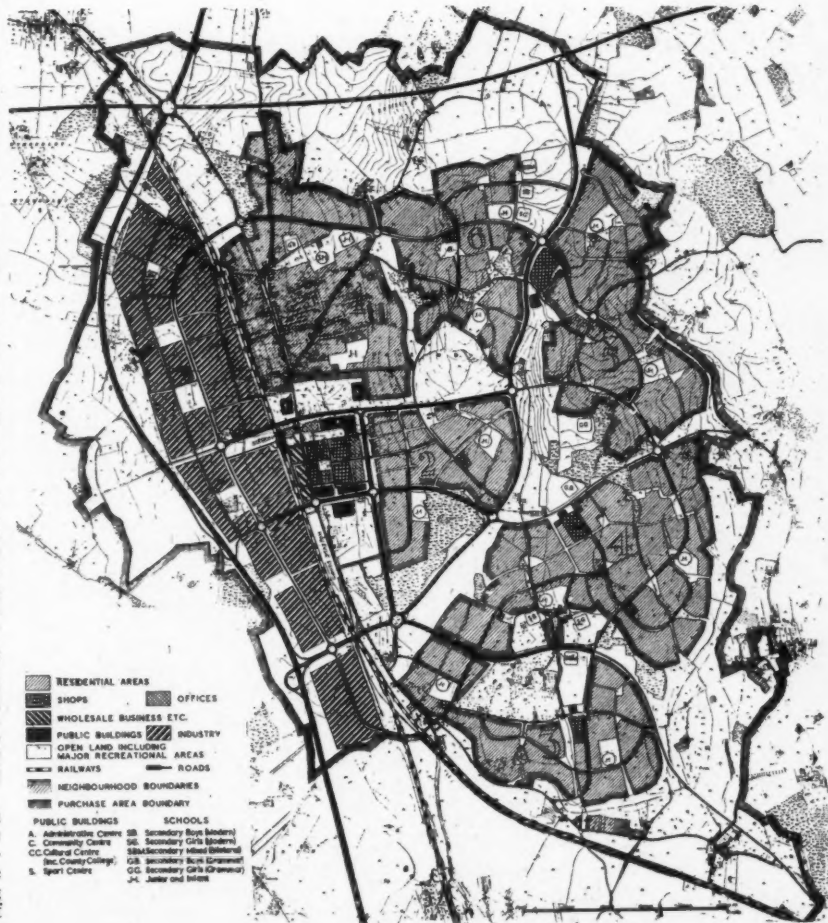
Let us begin our survey of actual work with the outline plans of the New Towns as the most important things which have been published. It should be remembered that these towns are part of a definite policy of saving the countryside by preventing the spread of London in all directions, and later on of the other big towns too, a policy which looks like succeeding now, though our former rulers have failed from Queen Elizabeth onwards. It will be noticed that all four are

planned adjacent to the great motorways recommended in Sir Patrick Abercrombie's Greater London Plan and, though they are all situated on railways too, it looks as if in the future it is supposed these motorways will be the main approach. There are, in some cases, also, aerodromes near by and most of them provide landing spaces for helicopters.

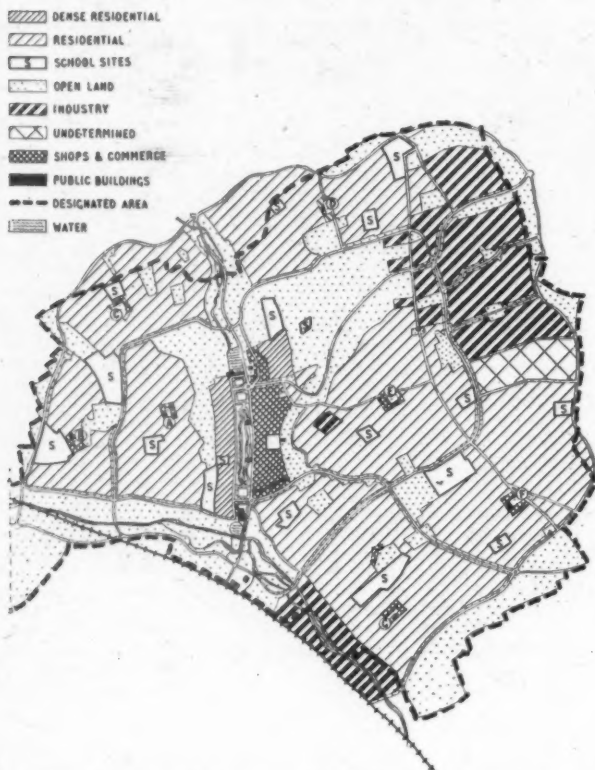
Let us start with Stevenage, purposely designed in outline, I imagine, as a model by Gordon Stephenson at the Ministry of Town and Country Planning. Stephenson has now returned to Liverpool as Professor of Civic Design. The site is a gently rolling one. The industrial area is in one long piece placed for the whole width of it west of the railway which runs along that side of the site. This means the residential areas are all east of it and some people will have to walk or go by bus a couple of miles to their work, and very good, too, for those who can stand it. I hope the prevailing wind is not from the south-west, as I am told—I hope wrongly—that it is. The old town, surrounded and protected by a green belt and treated as a neighbourhood unit, is, I think, a good idea. It is thus preserved in a way that no sort of private enterprise could do. Indeed, the latter would destroy it in 50-100 years. In addition there are five other neighbourhood units, each with its open space, its neighbourhood shops and junior and infant schools. These units are separated from each other by wide

green stretches, in some of which are the secondary schools. Immediately south of the old town and next the railway and the station are the administrative and the main shopping centres, the chief architectural opportunities. There is a large central park and the country itself is well within the boundary to the east and west. Altogether it is an easy plan to read, which may be taken, I think, as some evidence that it is a good one.

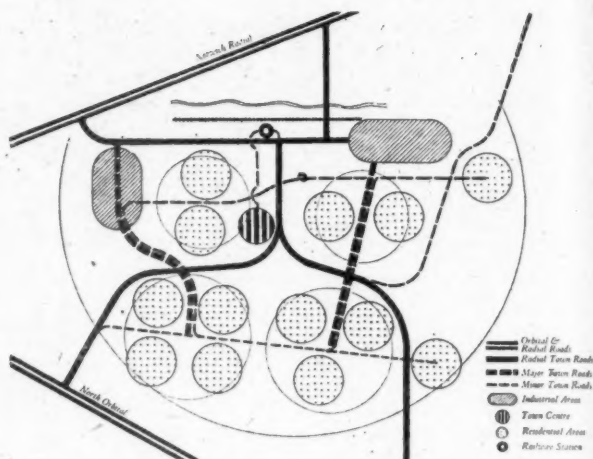
The neighbourhood units, each for some 10,000 persons, have not yet been planned or broken up. To my mind, it is a mistake to call anything of this size a neighbourhood unit—Abercrombie's term—for clearly you cannot in any real sense have any neighbourhood feeling to 10,000 people. Lewis Mumford told me the maximum of real neighbourhoodness was 1,000, and it is for between 500 and 1,000 that I have planned my own little communities round greens, centring on the village pub, now, of course, called a club. No doubt something of the same kind will appear here and in the other new towns when these 10,000 units come to be planned. At Stevenage, very happily, this will be the work of Clifford Holliday, who is the Chief Staff Architect and Town Planner rolled into one now that Gordon Stephenson has retired. Very wisely he has appointed, too, one of our best draughtsmen and younger architects, Peter Shephard, also like himself from Liverpool, as his second in command. I expect great things from these two men both



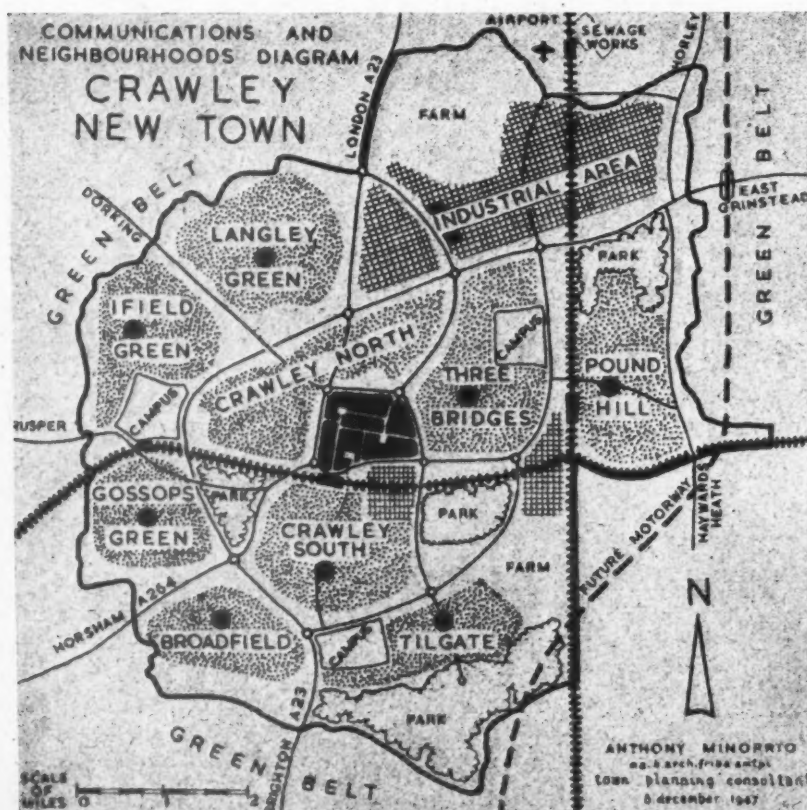
"It is an easy plan to read, which may be taken, I think, as some evidence that it is a good one." The Stevenage plan by Gordon Stephenson.



"The plan is full of pleasant incidents with large areas of parks, gardens, water and trees." Plan for the new town of Hemel Hempstead by G. A. Jellicoe.



"What Gibberd obviously likes is a group of well separated villages as the basis of his town, yet he rightly says in his report that all parts must have a sense of civic dignity and of belonging to a whole." Diagrammatic plan of Harlow new town.



"Another interesting thing is two farms included whole within the town—real country in real town." Plan of Crawley new town by Anthony Minoprio.

in architecture and planning, which, in my opinion, ought never to be separated when working on this scale.

**Hemel Hempstead.** The consultant town planner in this case is G. A. Jellicoe, the well-known landscape architect, and as one would expect, the plan, if rather strange in some ways as a plan, is full of pleasant incidents with large areas of parks, gardens, water and trees. In this case, too, one can see the town for the trees, which is not always possible in a landscape architect's planning. Of course, in this new plan, Jellicoe had certain difficulties. Out of his 60,000 persons, 20,000 already exist, and in houses one would probably sooner not see. As a site, however, the land seems steeply contoured and crossed by two river valleys, and that should suit him. Two industrial areas are planned, one to the north-east on a level site where development has already begun, and a small area partly outside the site where the Apsley and Nash Mills already exist. Elsewhere on the site Jellicoe characteristically says it does not seem desirable to locate industry, not only because of the topography, but in view of the deterioration of the landscape values which it would inevitably involve. There is a central area, including the old town, a modern commercial area, a civic centre with lake and water garden and two zones for terraces and flats. Beyond this central area are seven residential neighbourhood units separated from one another by parkways. The shopping street in the old town is kept to pedestrian traffic as a bazaar street—a good idea this—and so is the market to which it leads. The great thing, however, is the new shopping street facing the elaborate water garden and, like Princes Street, Edinburgh, has shops on one side only. This garden begins with a big lake on the edge of which, reflected in it, stands the Civic Centre. From this lake the water garden starts providing isolated sites for public buildings, such as art gallery, library, museum, a repertory theatre—how good it is to find that in every plan!—each surrounded on three sides by a stream with the main shopping street of the town on the fourth. This seems to me the most imaginative suggestion yet made, if it is not too grandiose for a town of this size, and,



of course, suits the site with its valleys and streams very well. For the rest, there is a great central park such as one would expect from the author, and it will be noted, not that it much matters, in what a lordly way Jellicoe's plan overlaps the Ministry's boundary where he wants it to. A good many houses, for instance, seem to be outside it.

**Harlow.** The plan for this is more advanced and detailed, and, like anything by Frederick Gibberd, of the greatest interest. Why the AA ever let him give up his head-mastership is one of those mysteries people outside that sacred enclosure would like to know. Fortunately for this town, Frederick Gibberd appears to be both consulting planner and consulting architect, with Noel Tweddell ex Manchester as staff architect. The site is the most open of all with only the little village of Harlow in the north-east corner. The planner, therefore, apart from topography, which included the Todd-brooke Valley running east and west, could do what he liked. What Gibberd obviously likes is a group of well separated villages as the basis of his town, yet he rightly says in his report that all parts must have a sense of civic dignity and of belonging to a whole, and quotes Bath, Oxford, Edinburgh, and Florence in this connection. His thirteen neighbourhood units are nevertheless separated by tracts of open country which look to average two hundred yards at least in width.

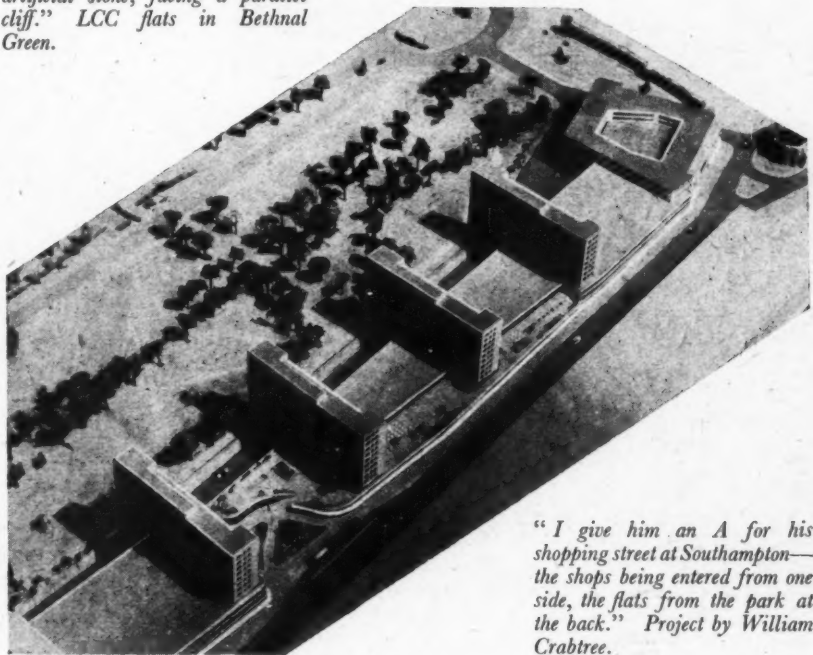
Is this country to be farm land, though that hardly looks like Civic Design, or is it to be ornamental gardens such as Jellicoe provides? It will be very interesting to see what he does with it—something very good, I am sure—when the detail arrives. Two great wedges of country are driven in from east and west. Though the Civic Administration Centre and the Shopping Centres, near the railway which bounds the site on the north, from their balanced buildings, look dignified and indeed seem so in the development suggested, one has some difficulty in reconciling this to these great stretches of country. Does one wear gaiters and knickerbockers till one reaches the Town Centre and there keep a change of striped trousers, black coats, and hard hats? From Neighbourhood Unit 13 to the Town Centre it will certainly be a nice long country walk.

On the highest point, which is happily in the Town Centre, Gibberd has placed his skyscraper administration building. I like the idea very much of one tall building to symbolise the unity of the new town and mark where it stands, but I wish it were a tower, perhaps a star-shaped one, on plan which would look alike from all directions and not a big flat suitcase on end. I wish all the new towns had such towers to call attention to themselves and to the age in which they were conceived. I am sure the necessary natural lighting could be devised in some much more monumental shape. I wish too this high building were next the artificial lake near by to be reflected in it, as is the Civic Centre, which I take to be a club. A lot of thought, however, even at this stage, has clearly been put into the disposition of these Administrative Offices, Art Gallery, Restaurant Band Stand, Exhibition Hall, Library, Museum, Theatre, and one cannot criticise their arrangement fairly without much more knowledge. I notice, for instance, Gibberd says all these things should overlap and be fused and that it should be a natural thing for the office worker to pop into the Art Gallery in his lunch hour. Culture in the New Towns should be pursued unconsciously and become part of the general life. All must agree to that. It is a fine ideal. I am all for anyone who is convinced that if human nature is given the opportunities, it can be moulded to something better.

Last and latest is *Crawley*. Although its planning started well after the others, as it has Anthony Minoprio as Consultant Town



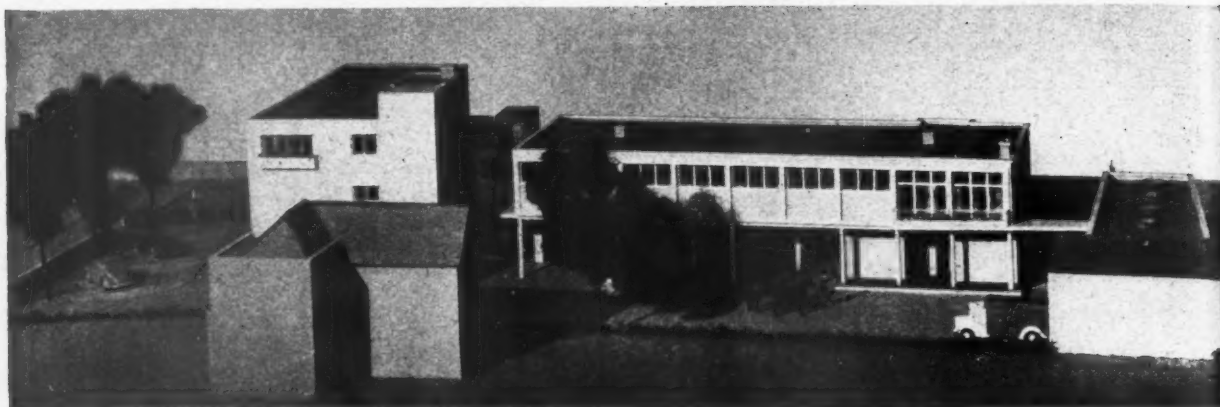
*"It must be a pretty dull life living in these long cliffs of artificial stone, facing a parallel cliff." LCC flats in Bethnal Green.*



*"I give him an A for his shopping street at Southampton—the shops being entered from one side, the flats from the park at the back." Project by William Crabtree.*

Planner and Alwyn Sheppard Fidler the Rome Scholar, as Architect, both from Liverpool, no doubt it will soon catch up. (After the recent boom of the AA one must mention Liverpool occasionally.) The site is a gentle rise from north to south, where it abuts on the Tilgate Forest. Two railways cross it, the London to Brighton going due north and south, and the other, the London to Horsham, a little unfortunately, going east and west and right through the centre of the town with the station abutting

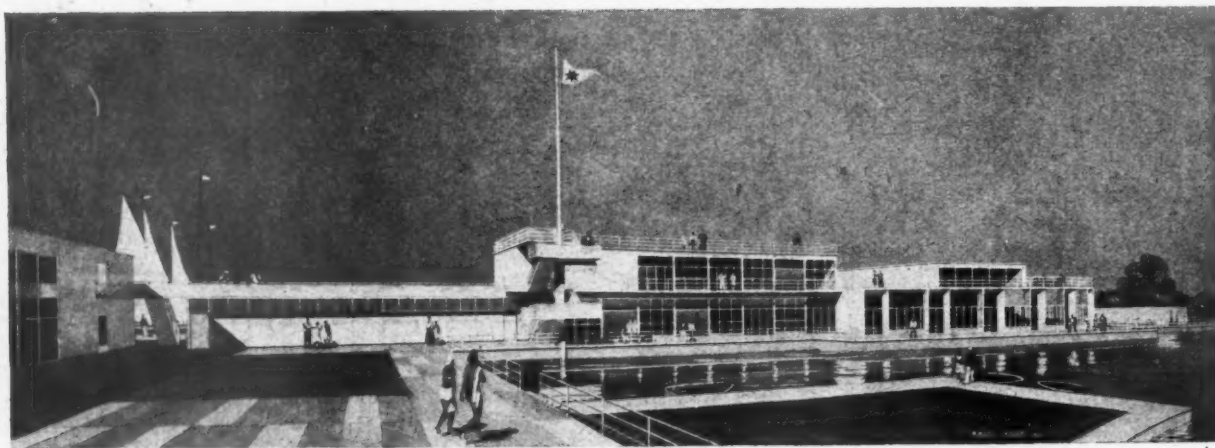
on Crawley old town. This latter is to be largely rebuilt but with the line of the old High Street kept, and lies with three residential units and a couple of parks within a central ring road following for half its length the present Crawley by-pass. Outside this are the industrial area to the north crossed by the Southern Railway Line, and six other neighbourhood units. A new point in this plan, and one which will give architectural opportunities, is that while the infant and primary schools remain in their



*"Christopher Nicholson deserves an A for his animal hospital and an A+ for his village centre with its long sweeping lines." Animal hospital above, village centre on the left.*



*"Eric Lyons and G. Paulson Townsend deserve an A, too, for their fine club and yachting centre with a block of flats for Horning." Perspective below.*

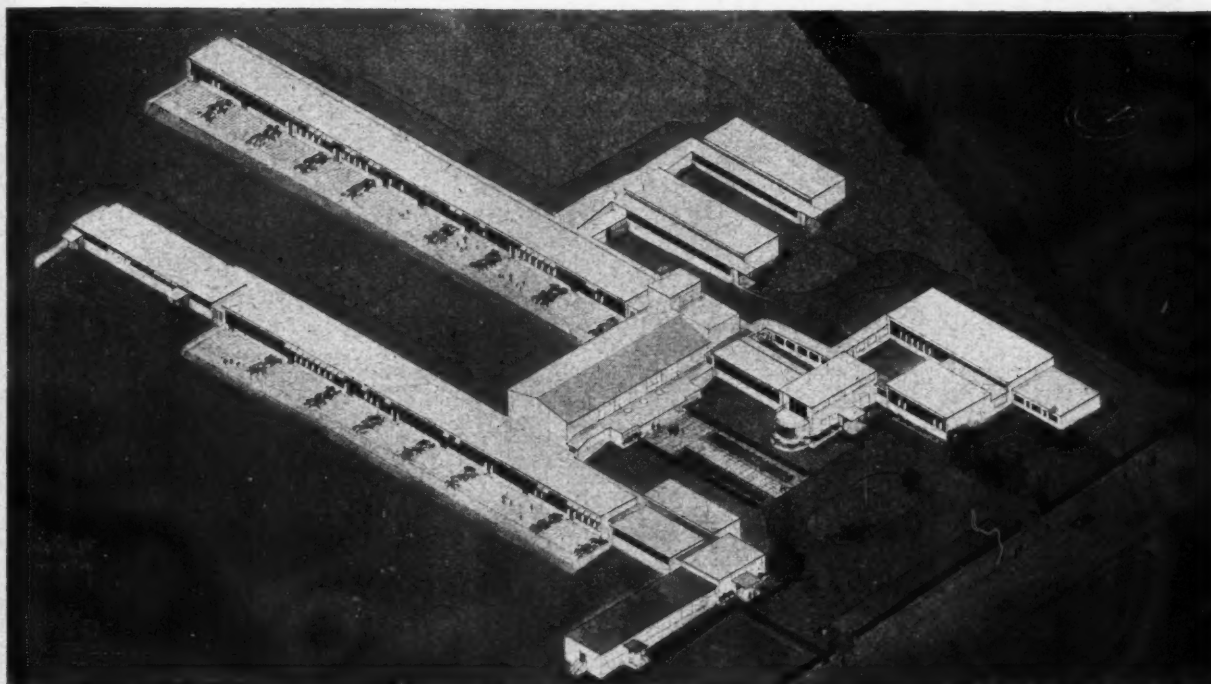
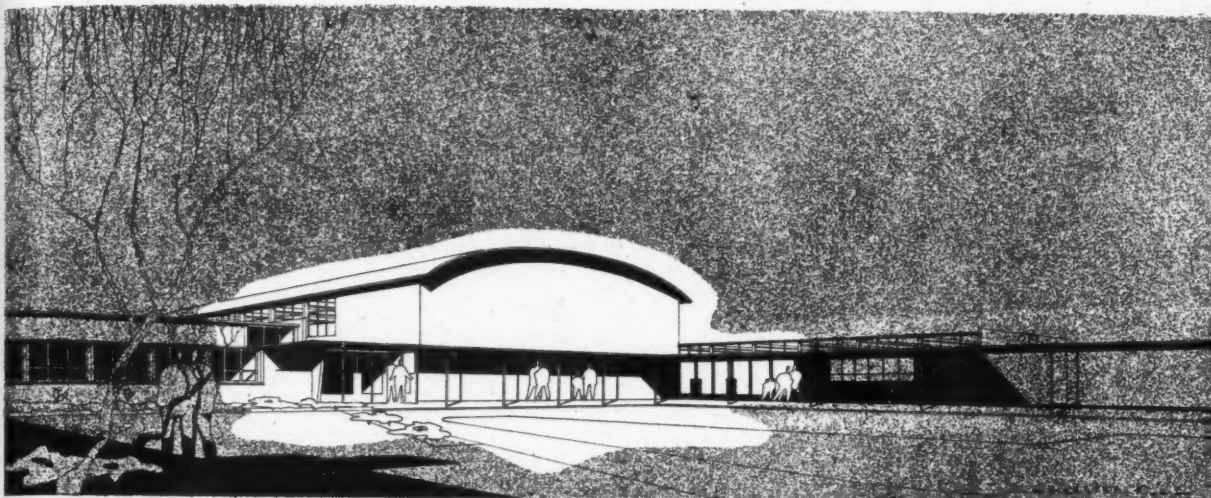


neighbourhood units, there are three campuses, or campi, of considerable size, for the secondary, grammar, and technical schools which, in this way, can share swimming baths, gymnasia, and that sort of thing, and with their playing fields side by side provide further open spaces. I can see Sheppard Fidler doing grand things with them and with the new Town Centre, which is to be next the old town. Another interesting thing which this merest outline plan shows is two farms included whole as they stand within the town—real country in real town. This allows the parkways

dividing the neighbourhood units to be much narrower than at Harlow, and yet allows everyone to know what country life is like close at hand. The whole town is surrounded by a green belt which includes an airport. It is a little smaller than the other three, designed for a balanced community of 50,000, not 60,000 persons.

Having given so much space to the new Towns as the most interesting things of the year, I find I have only left myself 1,000 words for the rest of 1947 work. I feel like being a schoolmaster again and giving A, B, C, etc., to each of the designs

examined. I will begin anyhow by giving a D—to the Valuer of the LCC who, in spite of a protest from the RIBA, has taken the place of the LCC Architect for housing. The prison-like flats at Bethnal Green are not well planned in my view, though they do give certain obvious facilities like drying rooms and play rooms half-way up for children. They each have four long balconies passing the living and bedroom windows from stair to stair. Perhaps the LCC thinks this is a help to communal life, for there are no communal rooms, and, as in all the LCC estates, the tenants



*"There is a large central courtyard flanked by two gymnasia blocks for games, with cloak-rooms on either side, and music block and assembly at the far end." School at Pinner by C. G. Stillman, Middlesex County Architect, top. Bottom, a mixed school at Redhill designed by S. H. Loweth.*

still have to rely on the near-by pub to meet their neighbours. The rents, too, are collected, I am told, in the Victorian way as if the LCC had never heard, like the rest of the world, of Octavia Hill. Apart from these amenities, if such they can be called, it must be a pretty dull life living in these long cliffs of artificial stone and facing a parallel cliff opposite. I should imagine Wormwood Scrubs to be far pleasanter. On the other hand, I give A+ to William Crabtree and his partner for his triplex flats, which abolish these long corridors except for one in the centre of the building at the third floor level which passes no windows; they have flats too of a great variety, some with an upstairs and some with a downstairs hall or room, and yet are 10 per cent. less in volume and probably 8 per cent.

cheaper. I give him and his partner too an A for his shopping street at Southampton, now that I have discovered the two tiers of shops under the blocks of flats, hardly to be seen in the perspective, the shops being entered from one side, the flats from the park at the back.

Christopher Nicholson deserves an A for his Animal Hospital and an A+ for his village centre with its long sweeping lines. I am a little afraid that, like O'Rourke, he may soon be offered an Associateship of the Royal Academy, but I trust, like his famous painter father, Sir William, he will have the courage not to join that provincial institution, the harm done by which I have seen both in Liverpool and India.

Eric Lyons and G. Paulson Townsend deserve an A, too, for their fine club and

yachting centre with a block of flats—a little out of scale perhaps—in which to sleep when the sea is too choppy, a thoughtful addition to a yacht club, which they have prepared for Horning. An A or A+ goes, of course, to Stillman for his comprehensive school for boys and girls at Pinner. There is a large central courtyard, flanked by two gymnasia blocks for games with cloak rooms on either side and music block and assembly hall at the far end, while on either side beyond the cloakrooms are the arms facing south for classrooms. It makes a grand straightforward plan and will look a fine composition from the air. How splendidly he and the President of the RIBA confute the current foolish ideas about the work of civil servants! Mr. Loweth's mixed school, too, for 340 infants and an equal number of boys and

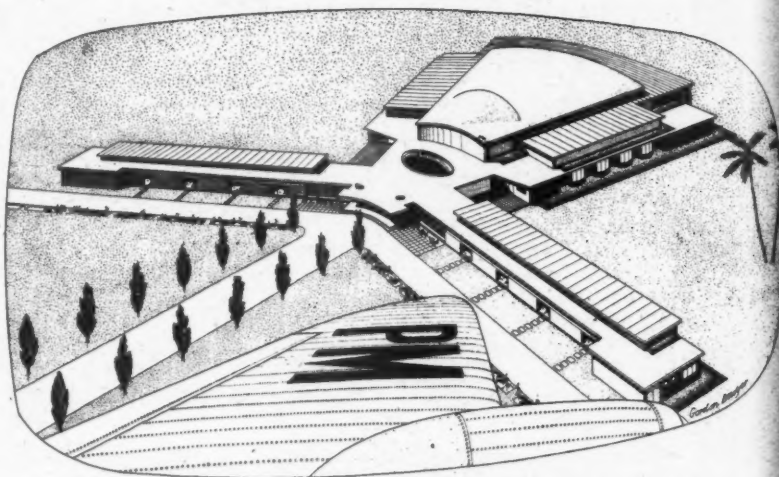


girls, designed, I see, by R. F. Green—a kindly touch that on the drawing, giving the name of the actual designer—is a somewhat smaller composition and running north-east and south-west. I suppose there is no need for wings of classrooms at right angles.

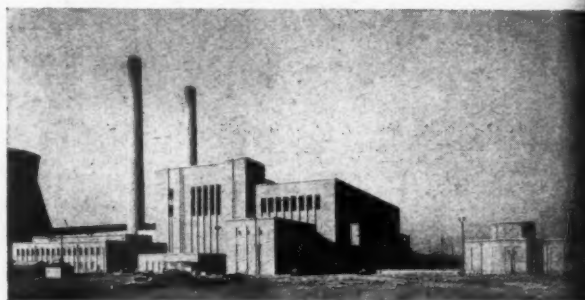
It is good to see these days a building by an Englishman for India. Perhaps under the new régime this may happen more often. Peter Moro has designed a laboratory for fossil plant research at Lucknow which, from its plan and its expression, well deserves an A.

Messrs. Farmer and Dark have designed some electric generating stations which are simple and straightforward. With fine plain surfaces and long vertical lines, yet they do not look like cathedrals, and for that alone they deserve an A. They have not apparently—nor has anyone yet—found a better shape for cooling towers. If we only did not waste coal heating the upper air with them, but used the heat more economically, say in housing, they would not be necessary at all.

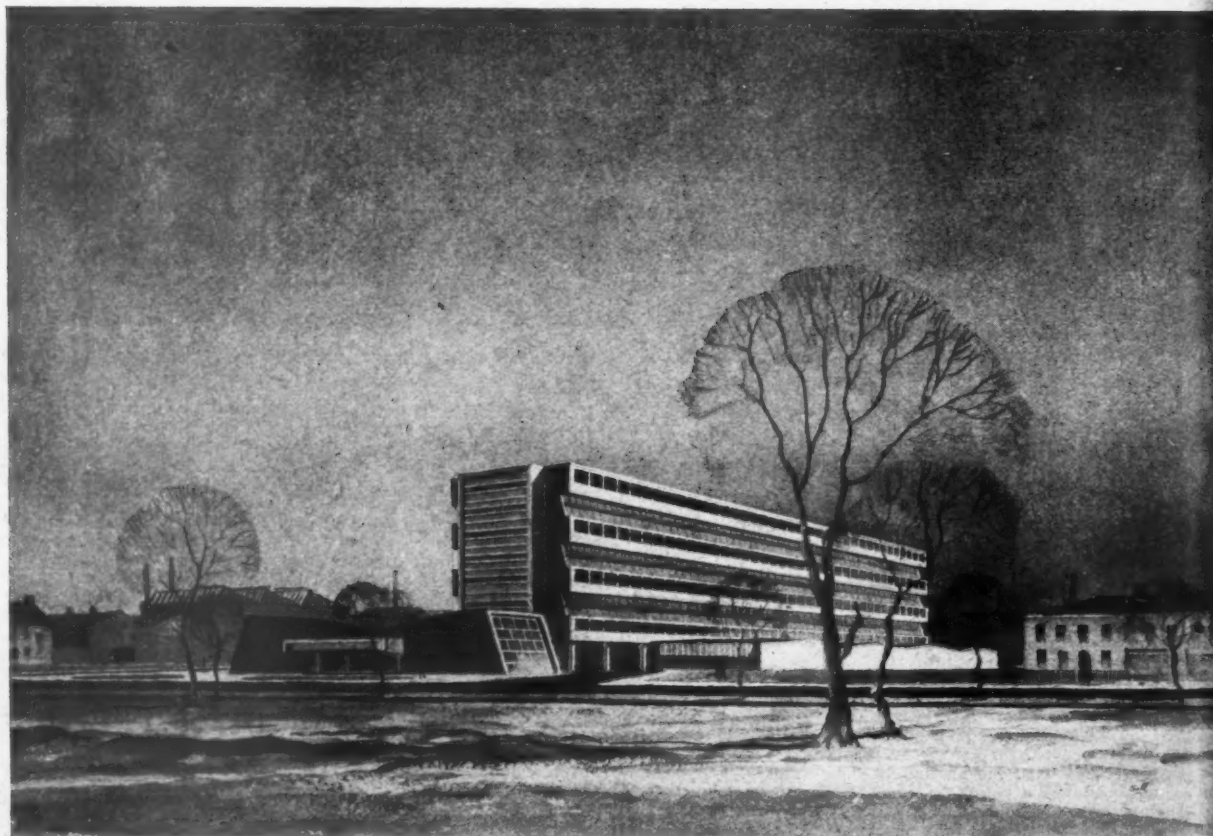
Finally, I have kept a fine perspective on the grandest piece of Whatman paper I have seen for many years, of a design for flatted workshops at Dover with an exhibition hall alongside, by R. F. Nickson, Sir Patrick Abercrombie's architectural partner. What an excellent sort of partnership that sounds! Anyhow, this design is another A.



"Peter Moro has designed a laboratory . . . for Lucknow which well deserves an A"; above.



"Messrs. Farmer and Dark have designed some electric generating stations which are simple and straightforward"; Right, power station at Little Barford.



A design for flatted workshops at Dover with an exhibition hall alongside, by R. F. Nickson.



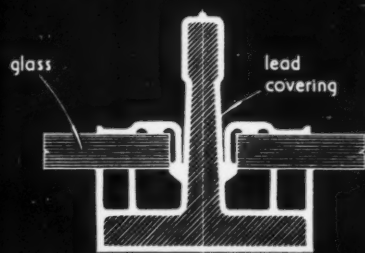




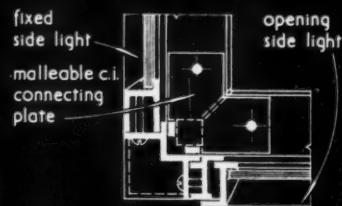
## ROOFLIGHTS | METAL

24.J1

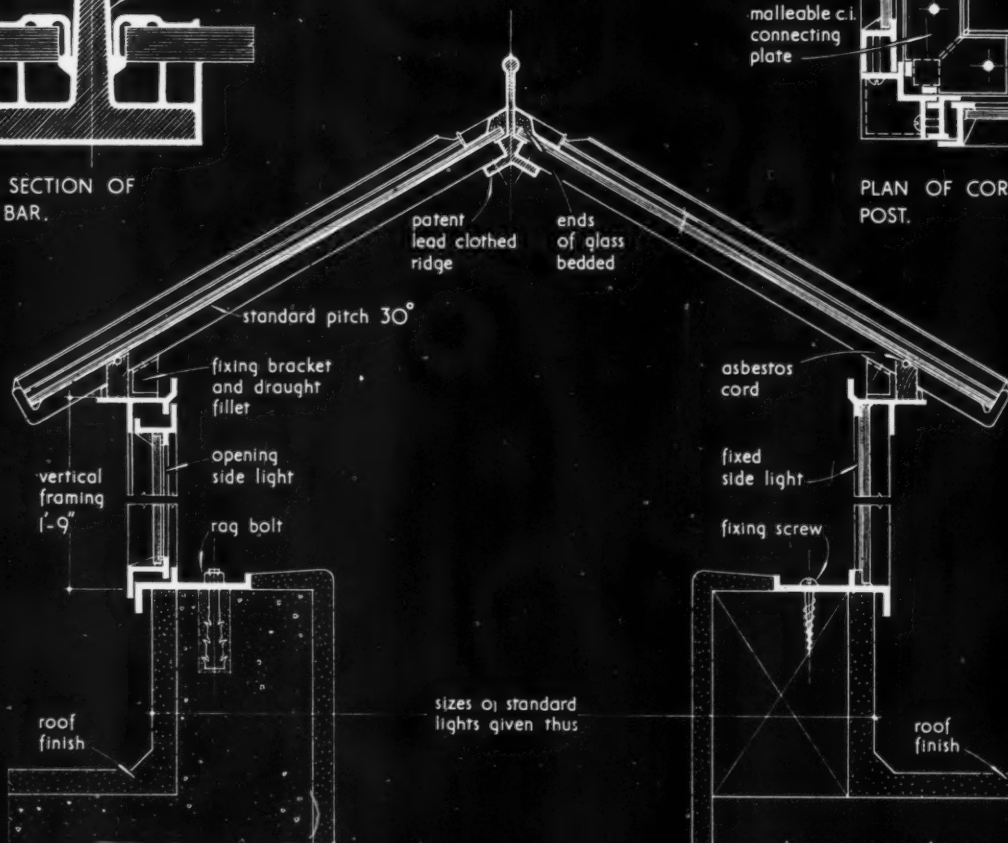
The Architects' Journal Library of Information Sheets 31. Editor: Cotterell Butler, A.R.I.B.A.



FULL SIZE SECTION OF GLAZING BAR.



PLAN OF CORNER POST.



SECTION SHOWING OPENING SIDE LIGHT AND CONCRETE CURB.

SECTION SHOWING FIXED SIDE LIGHT AND TIMBER CURB

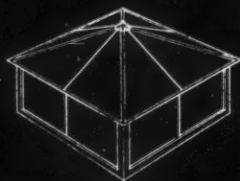


DIAGRAM OF 4'-0" x 4'-0" LANTERN LIGHT (hipped ends).

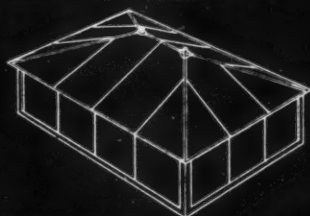
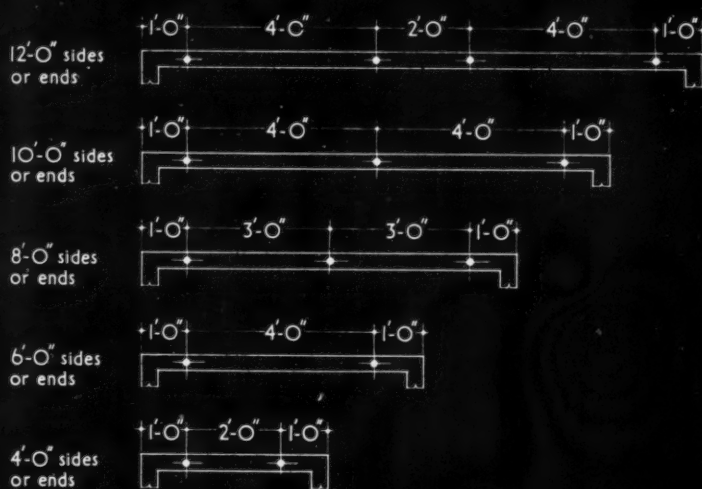


DIAGRAM OF 8'-0" x 6'-0" LANTERN LIGHT (hipped ends).



DIAGRAMS SHOWING SPACING OF FIXING BOLTS ON CONCRETE CURBS.

## 24.J1 CHALLENGE STANDARD LANTERN LIGHTS

This Sheet describes Challenge standard lantern lights. The construction shown is applicable to all types of lantern light, whether standard size or purpose made. The principle of construction is the use of single sections for each member; built-up sections are avoided.

**Construction**

All roof glazing sections are of lead covered steel and side light sections of rolled steel. Ventilators are double weathered and hung on cup pivots.

**Design**

**Ends :** The light can be supplied with either hipped or gabled ends.

**Ventilators :** These may be horizontally centre hung or bottom hung.

**Normal Ventilation :** The number of opening lights in each long side is given in the adjoining table.

**Extra Ventilation :** All side lights in each long side are arranged to open.

**Sizes**

The table gives the standard sizes of lantern lights available, the code numbers for ordering and the number of opening side lights for normal ventilation.

Code numbers	Size overall finished curb	No. of opening side lights
SLC44	4 ft. 0 in. × 4 ft. 0 in.	1 single pane
SLC64	6 ft. 0 in. × 4 ft. 0 in.	1 single pane
SLC84	8 ft. 0 in. × 4 ft. 0 in.	1 double pane
SLC104	10 ft. 0 in. × 4 ft. 0 in.	2 double panes
SLC124	12 ft. 0 in. × 4 ft. 0 in.	2 double panes
SLC66	6 ft. 0 in. × 6 ft. 0 in.	1 single pane
SLC86	8 ft. 0 in. × 6 ft. 0 in.	1 double pane
SLC106	10 ft. 0 in. × 6 ft. 0 in.	2 double panes
SLC126	12 ft. 0 in. × 6 ft. 0 in.	2 double panes
SLC88	8 ft. 0 in. × 8 ft. 0 in.	1 double pane
SLC108	10 ft. 0 in. × 8 ft. 0 in.	2 double panes
SLC128	12 ft. 0 in. × 8 ft. 0 in.	2 double panes
SLC1010	10 ft. 0 in. × 10 ft. 0 in.	2 double panes
SLC1210	12 ft. 0 in. × 10 ft. 0 in.	2 double panes
SLC1212	12 ft. 0 in. × 12 ft. 0 in.	2 double panes

**Note :** If extra ventilation is required the letters XV should be added to the code numbers, e.g., SLCXV44.

Compiled from information supplied by :

**The British Challenge Glazing Co.**

Address : Marshgate Lane, Stratford, London, E.15.

Telephone : Maryland 4161 (7 lines).

Telegrams : Astragal, Phone, London.

Copyright Reserved.

The Architects' Journal Library of Information Sheets.

Editor: Cotterell Butler, A.R.I.B.A.



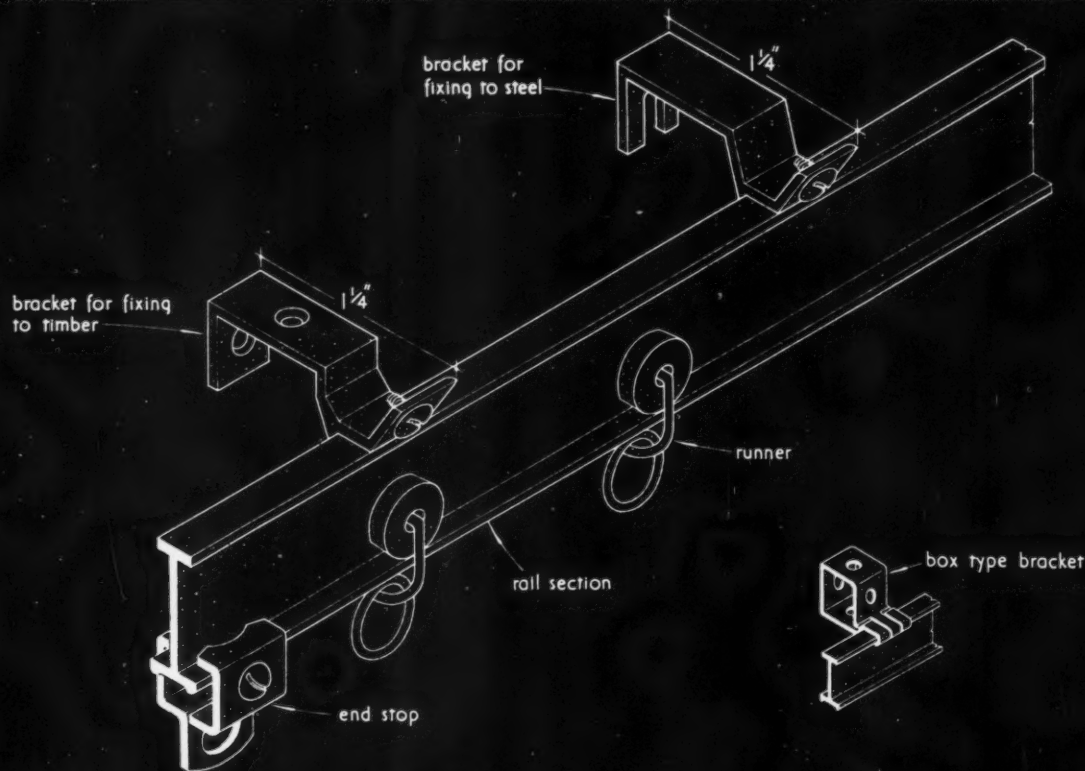




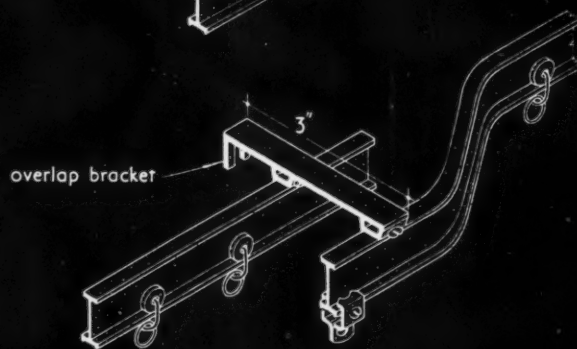
# FITTINGS | CURTAIN FITTINGS

44.D2

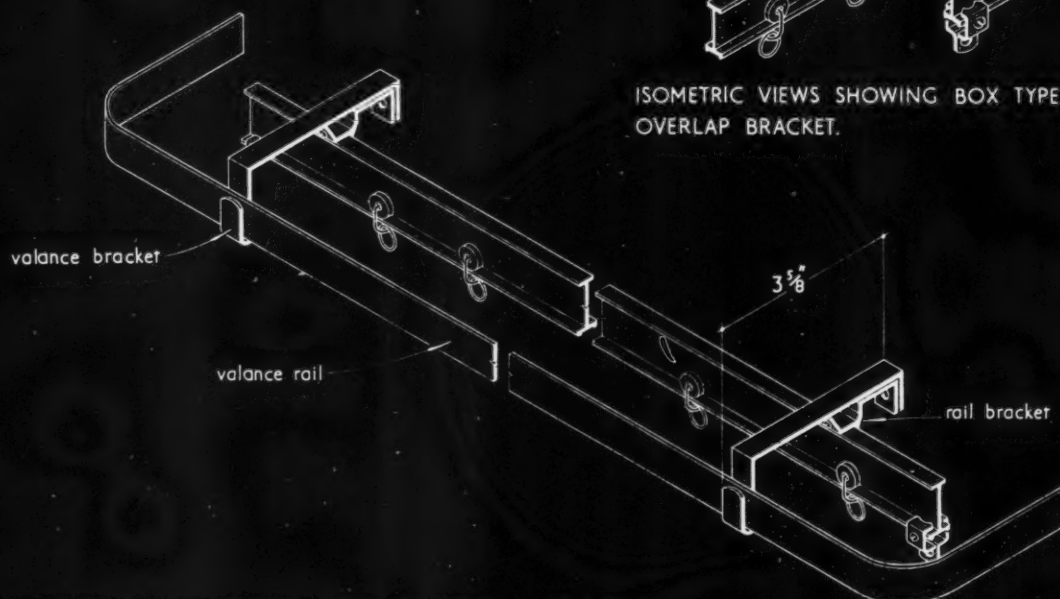
The Architects' Journal Library of Information Sheets 32. Editor: Cotterell Butler, A.R.I.B.A



RAIL SECTION SHOWING ALTERNATIVE  
FIXING BRACKETS.



ISOMETRIC VIEWS SHOWING BOX TYPE BRACKET AND  
OVERLAP BRACKET.



ISOMETRIC VIEW SHOWING ASSEMBLY OF RAIL, BRACKETS  
AND VALANCE RAIL.

#### 44.D2 ·RUFFLETTE· B/L CURTAIN TRACK

This Sheet describes the Rufflette B/L curtain track. The isometric view at the top of the face of this Sheet illustrates the main components and shows alternative types of fixing bracket for application to timber or steel window frames. The arrangement is such that the curtain rail can be taken down intact by releasing the front screws, leaving the brackets in position. The centre view gives a detail of the overlap bracket and the lower view shows an assembly complete with valance rail and brackets.

##### Applications

*Timber window frames:* The B/L type brackets are drilled to suit either top or face fixing. They should be screwed in position before the rail is fitted. The box type brackets permit the fitting up of the rail as a complete assembly. They are slipped on to the rail before fixing.

*Steel window frames:* The brackets are slotted to slip over the heads of screws fixed into the tapped holes provided in standard steel windows. They should be screwed in position before the rail is fitted.

##### Runners and End Stops

The number of curtain runners should be three to every foot and end stops should be fitted to each track length.

##### Specification : Material and Finishes

The track and fittings are corrosion resisting and are available in the following materials and finishes.

*Curtain track :* Solid brass, folded steel or aluminium alloy; brass, satin nickel and florentine bronze finish.

*Runners :* Brass nickel plated.

*End stops :* Pressed steel, brassed or zinc plated.

*Brackets :* Solid brass, or brassed steel.

*Valance rail :* Solid brass, steel or aluminium.

##### Trade Name

These products are manufactured under the trade name ·Rufflette· Brand.

*Compiled from information supplied by :*

**Thomas French & Sons, Ltd.**

**Head Office :** Chester Road, Manchester, 15.

**Telephone :** Blackfriars 1887 (10 lines).

**Telegrams :** Rufflette Manchester.

**London Office :** 152-162, Oxford Street, W.1.

**Telephone :** Museum 5558-9.

**New York :** 620, Fifth Avenue.

**Massachusetts :** Fleur-de-Lis Mills, Fall River.

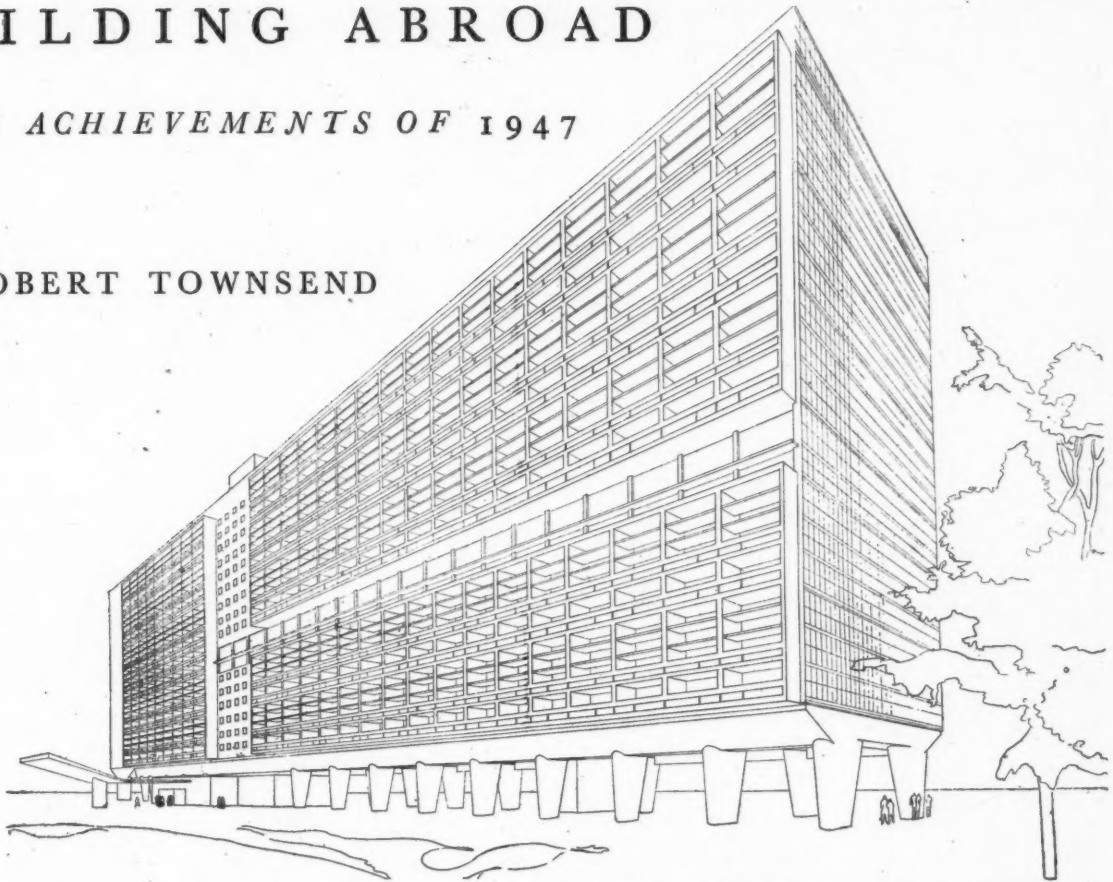
**Canada :** 751, Victoria Square, Montreal



## BUILDING ABROAD

## SOME ACHIEVEMENTS OF 1947

BY ROBERT TOWNSEND



1, Le Corbusier's apartment building for 1,600 people at Marseilles, now under construction. Its proportions are dictated by Le Corbusier's "Modulor" system; he regards it as the culmination of his life's work.

IN the British Isles building work during the last two years has been confined to housing schemes, classified as "traditional" and "pre-fab," with a sprinkling of austerity bread-and-butter buildings, schools, training centres and school dining-rooms, with such isolated examples of jam as the rebuilding of the bombed House of Commons and some nice stone walls at Buckingham Palace. Architects have, none the less, allowed themselves some fantasy (aided by their clients). Some of the results have been discussed already in the pages of this issue.

That architects in other countries have opportunities at present denied to Britain will, it is believed, stimulate hope, not excite envy, so on these pages are illustrated a characteristic selection of the buildings achieved in various countries during the past year or so. They have been chosen to illustrate some of the more significant phases of architectural development in some half-dozen or so countries; few of them are of types of buildings that could be contemplated in England to-day. It may even be argued that some, such as the large private houses in the United States, are socially undesirable to-day. But the architectural qualities they possess need not be confined to

such luxurious types. Le Corbusier himself has constantly used the slogan "*une maison—un palais*" to indicate his attitude, and Frank Lloyd Wright makes the same point in his phrase, "in architecture there are no trivial circumstances." The focal point of architectural discussion over the whole world is perhaps the question of *quality*, and these examples are chosen to illustrate architectural quality as manifested in buildings for widely differing purposes.

Ever since he wrote *Vers une Architecture*, Le Corbusier has ceaselessly urged that the only rational form for workers' housing is vast blocks of flats, making use of every technical achievement for the comfort of the inhabitants. Denied the possibility of building such a housing unit, Le Corbusier has hitherto concentrated on refining theoretical projects; now, at last, a contract for the erection of *une unite d'habitation* by Le Corbusier, 1, has been approved by the French Government and construction has started. When this great building has been completed there will be an opportunity to see how well-founded are the ideas for which it will form a manifesto. In this building Le Corbusier has applied his "Modulor" scale,

based on the golden section, in every detail. The building will house 1,600 people and provide them also with restaurant, shops, library, club, and other "home extensions."

While the building at Marseilles will make use of modern technique to achieve a high standard of comfort with "super density," Richard Neutra's house for Mr. Kaufmann in the Colorado desert, 2, has made use of similar technique to make life supportable for a wealthy client in an unfavourable climate. The architect has used forms and textures contrasting strongly with the desert and its vegetation. In his winter quarters known as Taliesin West, in the Arizona desert, 4, Frank Lloyd Wright has also used materials native to the area, and has combined them to make a dwelling and working place that is indigenous and yet could have been built in no period but our own. This building houses all the activities of the Taliesin Fellowship, consisting of Wright and his thirty-odd apprentices, during several months of the year.

The Geller House, 3, designed by Marcel Breuer, once more makes use of natural materials, timber and field stone, but in a highly sophisticated manner. While Wright puts his materials to-



2, House by Richard Neutra in the Colorado Desert; the southeast view showing the use of desert plants as garden decoration.

gether in such a way that they almost appear to have grown so, the effect of Breuer's work is one of carefully studied effects. The sprawling plan satisfies the requirements of the client who wished his children to have their own independent quarters. The guest rooms detached from the main house is a familiar arrangement in the United States.

While the Wright influence is everywhere apparent in US domestic architecture, eclecticism reigns in most other types of building. The influence of eminent architects seeking refuge from persecution in Europe has, however, begun its leavening work, and in this the buildings for the Chicago Institute of Technology, 5, by Mies van der Rohe, will play their part. Here everything is in contrast to the work of the organic school. The utmost severity in treatment, no warmth, no movement, no richness, but a bare intellectual refinement studied with minuteness and precision. The very simplicity is apt to give a false idea of the scale of these buildings. The occupants may well feel humbled and subdued in such an atmosphere, where almost every human element has been eliminated.

Nowhere in the world has architectural activity been so vigorous during the last few years as in Brazil. Numbers of important public and private buildings are completed every year. Here the influence of Le Corbusier is paramount, and his oft-expressed basic principles of contemporary architecture are all to be seen. From the welter of new buildings, two small ones have been chosen; first, a holiday house for the employees of the King Insurance Company of Brazil, 6, designed by the Roberto brothers and entirely characteristic of contemporary Brazilian work, for all the features are there: "pilotis," sunbreakers, glass walls, and two characteristic Brazilian features, coloured ceramic tiles or *azuleijos* and gardens designed by Roberto Burle Marx. The hostel, which is 40 minutes away from Rio, is designed to accommodate the employees and their families during their 20 days' holiday. The families visit in rotation, no charge is made, and there are also arrangements for week-end visitors.

In contrast to the work of Mies van der Rohe, the Brazilian architects are not afraid of curves, as is shown by the well-known buildings designed by

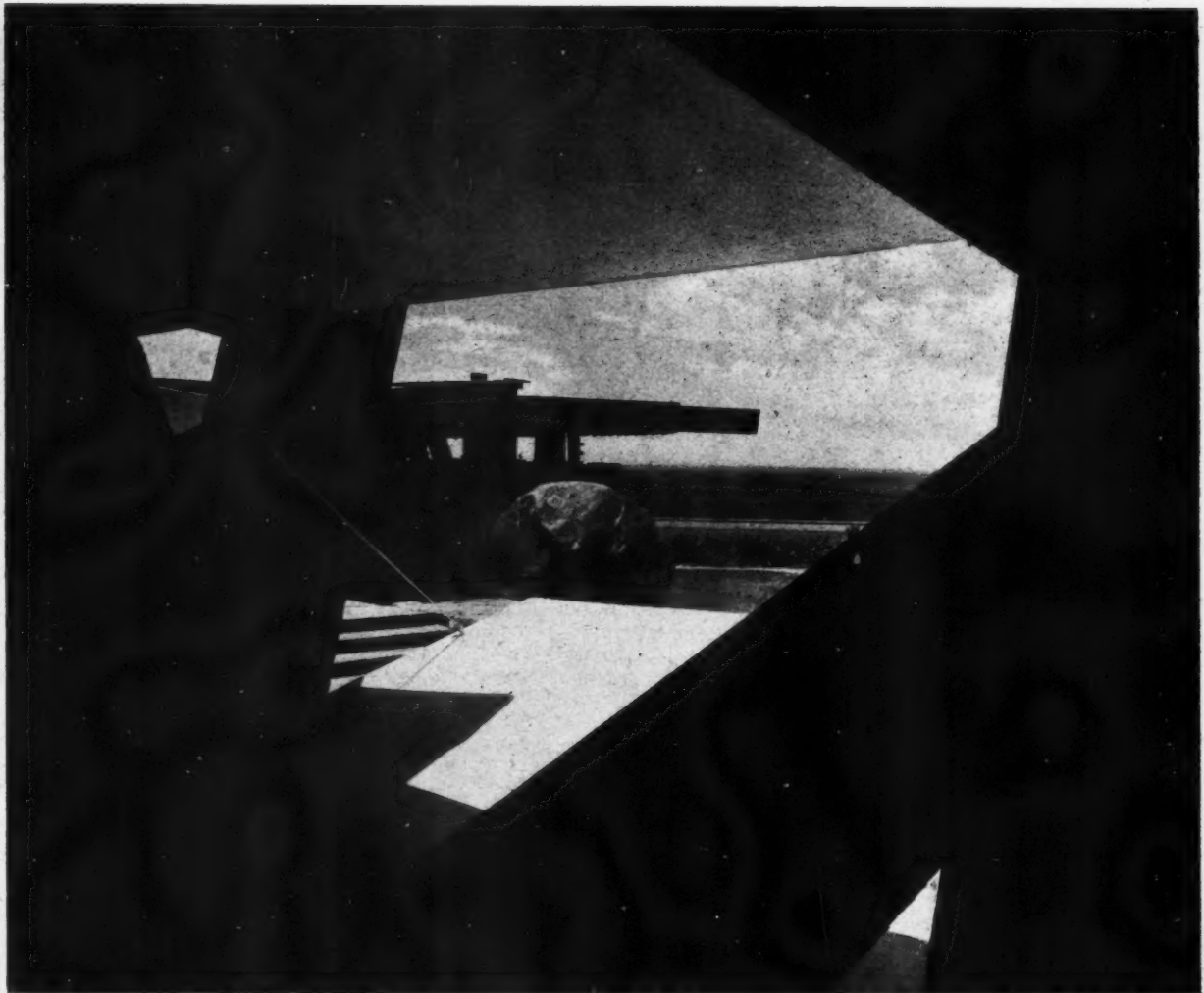
Oscar Niemeyer at Pampulha. This little pump-house at Araxa, 7, designed by Francisco Bolonha, shows an equally bold use of curves. The building houses pumps for raising the medicinal water from the sulphur mud and salt ponds which surround the pump house. Again the characteristic *azuleijos* have been used as a wall-surfacing material; they were designed for this building by the ubiquitous Burle Marx, who again laid out the garden.

While Brazilian architects have out-distanced the rest of the world in the enthusiasm with which they have learnt the lesson of *l'esprit nouveau*, in Scandinavia, whither so many architects began turning in the 'twenties, a change is coming on the architectural scene. Sven Markelius, whose concert hall at Helsingborg is justly famous, has in the house which he built for himself at Kevinge, near Stockholm, 8, proclaimed himself an adherent of the "new empiricism." Of this development, another of its adherents, Sven Backström, says, "Today we have reached the point where all the elusive psychological factors have again begun to engage our attention. Man and his

3, Marcel Breuer's Geller House, Long Island, USA; the south-west view showing the informal planning on one floor only and the naturalistic landscaping.



4, Taliesin West, by Frank Lloyd Wright, the desert home of Wright's Taliesin fellowship, largely built as well as designed by his own apprentices.



south-  
ration.

This  
igned  
s an  
uild-  
g the  
mud  
d the  
eristic  
wall-  
igned  
uitous  
at the

out-  
n the  
learnt  
u, in  
archi-  
ies, a  
ctural  
ncert  
mous,  
him-  
n, 8,  
of the  
velop-  
Sven  
have  
lusive  
begun  
nd his



habits, reactions and needs are the focus of interest as never before. To interpret such a programme as a reaction and a return to something that is past and to pastiches is definitely to misunderstand the development of architecture in this country." This

house of Markelius' is built in prefabricated units and is planned with a nice regard for the functional requirements of the programme.

The Hotel and Town Hall at Karlskoga, 9, by Sune Lindström, is another example of the same tendency.



5, One of the finished blocks designed by Mies van der Rohe for the Illinois Institute of Technology at Chicago. The complete scheme will consist of nineteen buildings.

The Swedes have developed the idea of running a hotel as a municipal enterprise, and in this example the hotel and the town hall are combined in one building, making civic entertaining a simple matter and giving council employees a chance to take their morning coffee unobserved. The building has a rectangular internal courtyard. The longer walls are faced with wood shingles, while the shorter walls are rendered; altogether a simple, unostentatious, homely building.

Far from homely is the Town Hall at Søllerød, in Denmark, 10, the work of Arne Jacobsen and Flemming Lassen. A competition was held for this building in 1939, and it may be that the newest ideas had not reached Denmark at that time. The town hall building is to form part of a larger group to include a library and a cinema. The stark bleakness of the elevation is not much relieved by the wall covering, which is of a greeny-white Norwegian marble. The tilting back of the top of the walls to form a sort of marble covered cornice in reverse gives a curiously truncated effect to the building. The completion

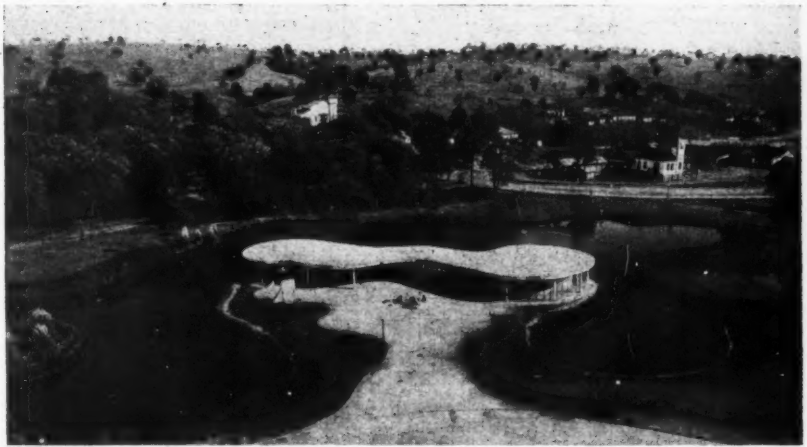
6, Holiday hostel on the outskirts of Rio de Janeiro, Brazil, designed by Marcelo, Milton and Mauricio Roberto.





of the group and the addition of planting and garden lay-out may eventually humanise the whole scheme.

Surrounded by warring nations, Switzerland none the less avoided occupation by one or other of the belligerents, and building work, though slowed down, was carried on. The Burgerspital at Basle, II, is the largest and most important hospital building to have been built for some time. It is questionable, however, whether it may not also be one of the last to be built to such dimensions. While it is admitted that the comfort and convenience of doctors, nurses, administration and students has important repercussions on the comfort of the patients, on the whole the tendency in the past has been to design hospitals from the administrative, technical point of view and only indirectly and in detail from the patients' point of view. There are indications that the giant hospital is on



7, Another example of the imaginative, curvilinear style of modern architecture that is being evolved in Brazil; the pump-house at Araxá, by Francisco Bolonha.

8, Sven Markelius's own house near Stockholm; it illustrates the deceptively informal style, now coming to the front in Sweden.

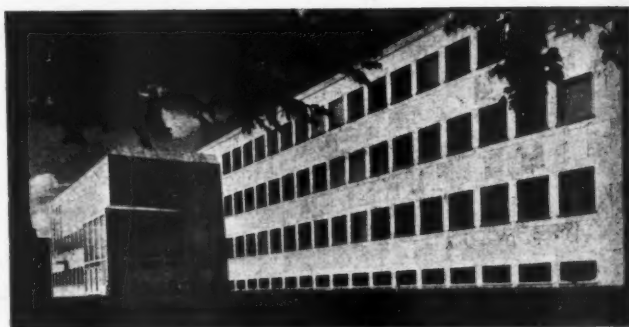


the way out, and certainly, if recent developments in Sweden are extended, there will be no more big hospitals, where patients may feel themselves imprisoned in a vast institution. None the less, the Burgerspital, designed by Bauer, Brauning, Leu, During and Vischer, has many of the qualities that have made Swiss architecture known throughout the world. Straight-forward and clear in design, the technical aspects are most thoroughly studied and the quality of the workmanship excellent.

In contrast to Switzerland, the eastern European countries—Czechoslovakia, Poland, Hungary, Rumania and Yugoslavia—were all occupied and pillaged during the war. With their towns and economies in ruins, they have started to build again, but no longer on the haphazard plan of individual private interest, for the survival of the nation demanded a more comprehensive approach. There is everywhere, if returned travellers are to be believed, tremendous constructive work going on. The framework for future cities, towns and villages is being laid. Construction, however, is limited as yet to the provision of the most urgently needed accommodation, though more ambitious projects are many. The scheme for a hostel at Horni-Litvinov, in Czechoslovakia, 12, must symbolise them all. The mark of the Pensions Building at Prague is upon this great block, designed to house factory workers. So far the new humanism has not seriously modified the familiar approach.



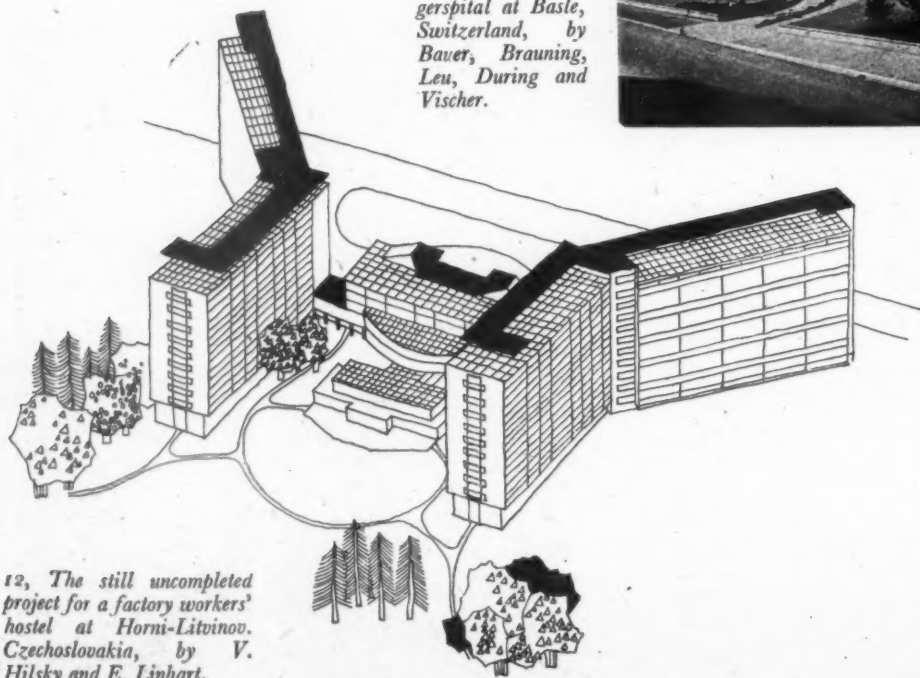
9, above, the town hall, and municipal hotel, at Karlskoga, Sweden, by Sune Lindström. It exemplifies the more formal style of Swedish work.



10, Denmark's version of the modern Scandinavian style: the town hall at Solerød, by Arne Jacobsen and Flemming Lassen.

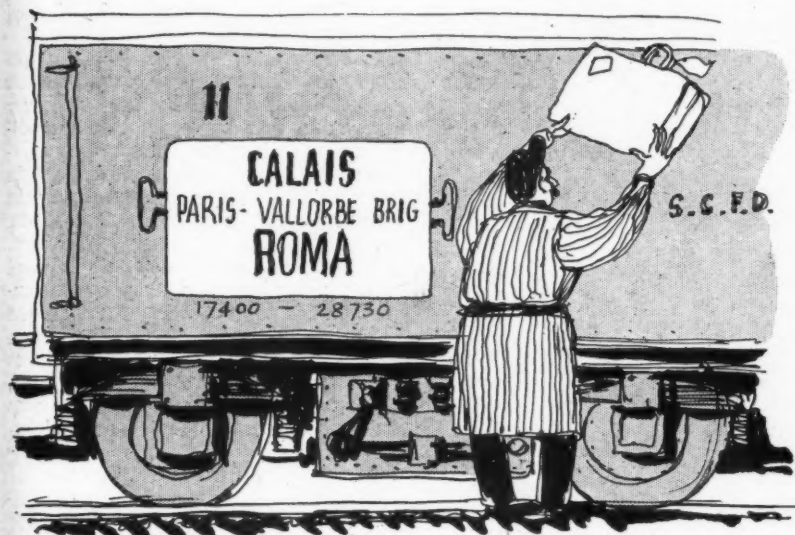


11, The enormous facade of the Burgerspital at Basle, Switzerland, by Bauer, Brauning, Leu, During and Vischer.



12, The still uncompleted project for a factory workers' hostel at Horni-Litvinov, Czechoslovakia, by V. Hilsky and E. Linhart.

# ITALY REVISITED



WRITTEN AND ILLUSTRATED  
BY HUGH CASSON

ABOVE the patched ruins of Calais Maritime a loud-speaker cleared its throat. "Passengers are invited," it brayed "to take advantage of the gangways." Eagerly we all obeyed. The *Canterbury* was almost the last liberty boat ashore before England battened everyone below decks for the winter, and the sense of half-guilty release was almost palpable. The boat-train crept through the fallen masonry of the town and was soon rocking frenziedly across the Pas de Calais.

At the Gare de Lyons three coachloads of pilgrims waited at the head of the Rome express. Through the steamed-up windows their faces peered as benignly as the headlamps of buses in a fog. At Dijon a thin drizzle was falling, and, to the accompaniment of faint horns from the shunting yard, a black-clad family bade tearful fare-

wells in a haze of "pinard." At Vallorbe the pilgrims, unshaven now and less benign, were disconnected and whisked importantly away, their lapel buttons glittering triumphantly. Two hours later we followed them down the valley to Lausanne. Under grey skies Switzerland presented its familiar trimmed and shaven face, stretching away into the mists as tidily as an expensive golf course specially maintained for indefatigable Anglo-Saxon feet.

Over the lake the clouds lifted a little and new scenery was shifted in. By Brig the transformation scene was fully set and lighted. The canvas crags beetled, the torrents fell, the cowbells called. High among the pasteboard pines a few tiny chalets nestled. They looked sweet and innocent enough, but Ruskin has told us otherwise. "Here," he wrote of them, "is torpor and the darkness of calm enduring . . . neither hope nor passion of spirit, neither advance nor exultation. Black bread, rude roof, dark night, laborious day, weary arm at sunset, and life ebbs away." Miserably we averted our eyes. Perhaps they've got electric light by now, we said, or even radios.

Two changes and then, lashed to the tail of an electric "rapido," we hurtled through the inter-war conference belt. At Stresa we saw again for a second our pilgrims on a terrace. They were clasping picnic bags and gazing at the lake. Rain fell steadily through the glassless roof of Milan Station. After the blue skies and sunshine we had left in England, every drop seemed to glitter with particular spite. Between trains there was time to see in the cathedral a priest in a confessional making notes with a Biro and to gape at the new hotel under construction in the cathedral square. It will be air-conditioned, they said, and apparently without windows.

Next morning we watched the dull Lombardy plain, pricked with pylons and poplars, rocking past our windows at 80 m.p.h. After Bologna progress was slower, the signs of war-damage more frequent. Burnt-out rolling stock rusted by the line, every bridge was being rebuilt, and once in a copse glinted the ivy-covered skeleton of a bomber. Down the last bit of valley into the Florentine plain the scenery changed. In the pale, watery sun it looked like a golden valley above Stroud. There were the same woollen mills cramped within the steep hillsides, the same stone villages stuck like patterned wallpaper above the curving river bank. Soon the well-known silhouette of Brunelleschi's cathedral could be seen, competing for the place on the skyline—like most of the world's great monuments to-day—with gas-holders and chimney stacks. The sun had strengthened. In the suburban streets beside the line shutters were closed against the midday glare, and they were selling olives, figs and lemons on the station platform.

## FLORENCE

The Uffizzi closed; the Michael Angelo library locked; windows in the Duomo still blacked out; scaffolding in the Pazzi chapel and the Baptistery—but still, as always, too much to see. Acres of frescoes, miles of inlaid pavement stretched before the glazing eye and failing foot. At first it seemed that a city so rich in masterpieces could be no more enlivening than a high-class Italian cemetery, with every monument decked with photographs and labelled



The Pitti Palace



*Behind the Duomo, Florence*

with a concise description of the deceased.

But Florence is no place of the dead. It is rather a place of concourse and conversation, of ceaseless business in the street and pleasant promenade. Here is urban life at its best, city culture at its height, with all its formalised routines and emancipated elegance. Wheeled traffic exists, but is properly treated as a convenience and not as a tyrant permitted to disrupt the city's fabric. All day—and for most of the night, too—life rattles through the narrow stone-paved streets like a noisy mountain stream, and even the spirited clamour of horns and tram bells is submerged below the perpetual thunder of Florentine conversation. In the evening the pace quickens. In front of the café tables the parade marches and counter-marches as at the hand of some *de Mille*, the smart young men *suede-shod* and *corduroy-coated*, the girls dark-spectacled and scarlet-taloned. Children hop and chatter like sparrows round the G.I.s in their ritzed-up jeeps. Outside the restaurants squat the flash American cars—"looking like whales with their toe-nails painted"—each with its knot of admirers. "Molto

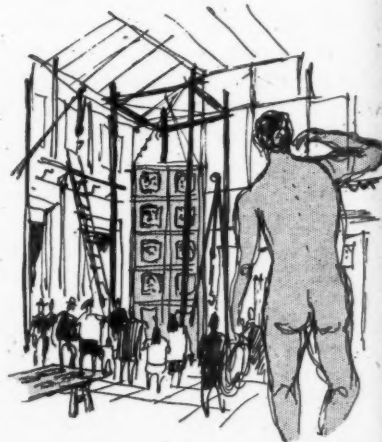
elegante," they murmur, as they enviously inspect the precision-built "Free-Styling," the black-lighted "Flite-Glo" dials, the wrinkle-resistant "Robo-Top," the "Prest-O-justment" front seats. A policeman with cheekbones of *Gielgud* sensitivity presides gracefully over the scene, and above him tower the buildings of Florence, "frowning," as *Adrian Stokes* has said, "not with hostility but with a haughty doubt."

The days slipped by, each with its complement of places to see: the dullish cathedral; Giotto's top-heavy campanile, which *Charles V* said should be covered by a glass case (this back-handed compliment has been also applied to the *Albert Memorial*); *St. Maria Novella*, with its hard-boiled-egg-green frescoes (reached through turnstiles made in *Southwark*); *Michael Angelo's* Medici tombs, smaller in scale than imagined; *Della Robbia* plaques [*Pater's* "fragments of the milky sky"]—the layer-cake palaces of *Alberti* and *Michelozzi*; the magnificently arranged museum of the *Bargello*; the *Pitti Palace*—"brother heart to the mountain from which it is rent"; the *Ponte Vecchio*, whose bomb-

damaged approaches are now being rebuilt; the English cemetery where lie *Elizabeth Barrett Browning*, *Mrs. Holman Hunt* and *Walter Savage Landor*, who lived and died in Italy but hated Italians ("I would rather follow my daughter to her grave," he said, "than to her wedding to an Italian suitor"); everywhere dominant the bubbling genius of *Brunelleschi*, who did more for Florence even than *Giotto*, *Raphael*, or *Donatello*—or even than *Michael Angelo* himself.

How fortunate that *Brunelleschi* was placed second to *Ghiberti* in the famous competition of 1399 for the *Baptistry* door and that his disappointed ambitions drove him to seek supremacy instead in the field of architecture. As for the famous doors, upon which the winner spent a lifetime, assisted by *Della Robbia*, *Donatello*, *Masaccio*, *Polliuolo* and *Ucello*—what a team of glittering pioneers!—they were removed for safety during the war and have not yet been rehung. By chance it was discovered during the move that they were not bronze but gold plated, and the museum authorities are busy restoring them to their former and unsuspected glory.

We applied to the Director of Antiquities for permission to see these doors. In his office, bells rang and telephones shrilled endlessly. Messengers ran in and out. It seemed more like the nerve-centre of an oil-combine than one of those cells congested with thought in which our museum officials at home seal themselves up so firmly. Armed with passes, we were admitted to the workshop. It was a confused and exciting spectacle. Drawings and plaster casts lay about. A workman was repairing a bronze altar front, another was busy with a section of coloured marble pavement, a third was mending a wood crucifix. It was like one of the goldsmiths' "*botteghe*" in which so many of the great Florentine artists were trained. In the centre, supported upon scaffolding and surrounded by basins of chemicals, stood the doors. Two of

*The museum workshop, Florence*



g re-  
re lie  
Hol-  
ndor,  
nated  
/ my  
than  
or ");  
bling  
re for  
phael,  
chael

was  
mous  
stery  
mbi-  
y in-  
As  
n the  
d by  
accio,  
m of  
re-  
and  
nance  
that  
ated,  
busy  
l un-

of  
see  
rang  
essly.  
emed  
oil-  
con-  
our  
hem-  
with  
work-  
iting  
casts  
iring  
busy.  
arble  
wood  
gold-  
many  
were  
upon  
asins  
vo of







**NO NEED TO WAIT** Here is an excellent way to overcome the difficulty of the limit on expenditure for renovation. Plan the reconstruction so that it can be done in two, three, or more stages — one each year. This allows far greater scope for good design and means the job can be started immediately. The plan can easily be carried out by using "VITROLITE" — as in the kitchen illustrated here. You can get "VITROLITE" now in various attractive colours as well as in black and white and the glass is already cut in a number of convenient Ashlar\* sizes. With its hard, brilliant, fire-finished

surface, "VITROLITE" makes a very hygienic wall lining for kitchens, bathrooms and lavatories. Even in the first stage of work the attractive new lining will brighten up the appearance of the most drab interior.

\*Ashlar sizes :—15" x 10", 18" x 12", 15" x 15", 21" x 14". Supplied through the usual trade channels.

"VITROLITE" is the registered trade mark of Pilkington Brothers Limited of St. Helens, Lancashire, whose Technical Department can be consulted at any time about the use of glass in buildings.

# 'VITROLITE'

LONDON OFFICE AND SHOWROOMS AT 63 PICCADILLY, W.1 • Phone: Regent 4281



# **FERODO** *Stairtreads*

FERODO Stairtreads are of single and double channel types of various widths to suit all sizes of steps. The bright aluminium fronts clearly mark the edge of every stair. The strip of FERODO material fitted at the front of the tread affords a firm foothold. Absorbing wear without wearing, FERODO Stairtreads greatly enhance the appearance of the Store Stairway, giving confidence to countless hurrying feet and ensuring safety. Members of the Profession are invited to write for fully illustrated and descriptive catalogue No. 732K

**FERODO LIMITED**

**CHAPEL - EN - LE - FRITH**

*A Member of the Turner & Newall Organization.*







the  
rev  
ber  
on  
en  
pu  
Gl  
art  
ter  
ch  
is  
kn  
the  
wh  
lik  
see  
co  
un

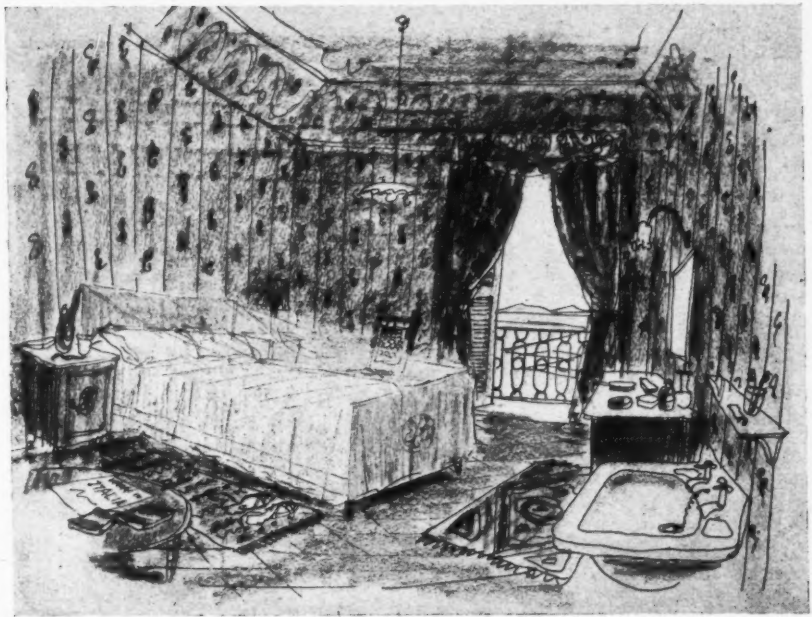
43

H  
po  
he  
bu  
co  
a  
wh  
cr  
Su  
of  
yo  
Bo  
wh  
wh  
pa  
sto

them were still untreated, the newly revealed gilt of the two others glittered beneath the skylight. Michael Angelo once said these doors were beautiful enough to be the Gates of Paradise, but purists have since complained that Ghiberti stretched the bounds of plastic art too far, and that modelling so fluent, tender and ingratiating is out of character with the material of which it is wrought. Now that this material is known to be not stern bronze but gold, these critics are confounded, and when the doors are rehung it seems likely that the daily crowd of sight-seers will rival those which used to collect in 1425 when the first pair were unveiled.

#### ASSISI

Here, surely, is the ultimate in picture postcard picturesque. You can almost hear Clovelly and Les Baux, Rothenburg and Monemvasia grinding their cobblestones in envy at so pre-eminent a rival. To walk around this village, which clings like a bleached and crumpled cloth to the slopes of Mount Subasio, is to pass as through a series of gilt frames into the water-colours of your grandmother's drawing-room. Bougainvillea - draped fountains and white oxen, petunias, and staircases which twist up between walls so patched and cobbled that scarcely a stone remains of the original fabric,



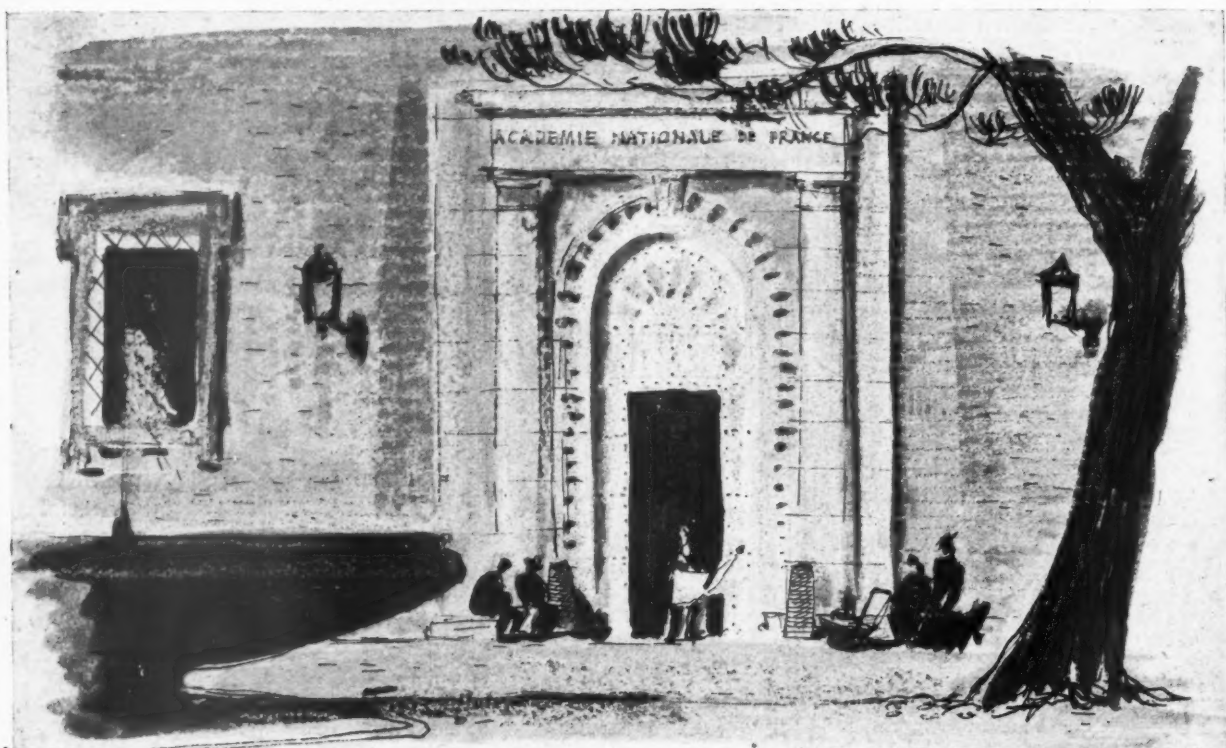
*Hotel bedroom, Assisi*

build up with practised ease into compositions so banal that sketchbook and camera alike are hopelessly defeated. Nevertheless, there is more in Assisi than a packet of postcards. The Giotto frescoes in S. Francesco may

have to compete bravely with a ham-pink floor and an overpoweringly decorated roof, but they survive triumphantly, and the sculpture on the façade of San Rufino is surely matchless.



*St. Peter's from the Vatican Terrace*



*Villa Medici, Rome*

### ROME

The road to Rome from the north crosses a landscape very like the Transvaal. There is the same pale-coloured, gently-rolling veldt dotted with scrub and pylons, the same cloud shadows spreading like stains across a cloth, the same diamond brilliance of light. Only the miniature towns crouched like little sun-struck sandy cats on every hilltop, their watchtowers and campaniles pricked and sleepily alert, reminded us we were in Italy—and, of course, the universal cypress. An unsatisfactory tree this, weak and over-simplified in silhouette, like a cheap wallpaper frieze, its foolish shape suited to more trivial emotions than the traditional ones of grief and melancholy. The outskirts of Rome itself might be those of any modern city. Filling stations and tramlines, hoardings and isolated blocks of tenements, factories, cemeteries, and vacant lots thicken and eventually coalesce into a street. The bus, its horn wedged down with a dead match, blared through the Borghese garden and pulled up in a cloud of spray blown from the fountains at the foot of the Via Nazionale.

Of Rome's monuments it is hardly possible to write. Saint and scholar, prince and historian, artist and poet, all have done their best, and Rome, "city of smells and bells, urinals and quirinals," must be the most described city in Europe. On the whole, the combined picture from expert and amateur is not inaccurate. To us the Colosseum was as large, the Farnese

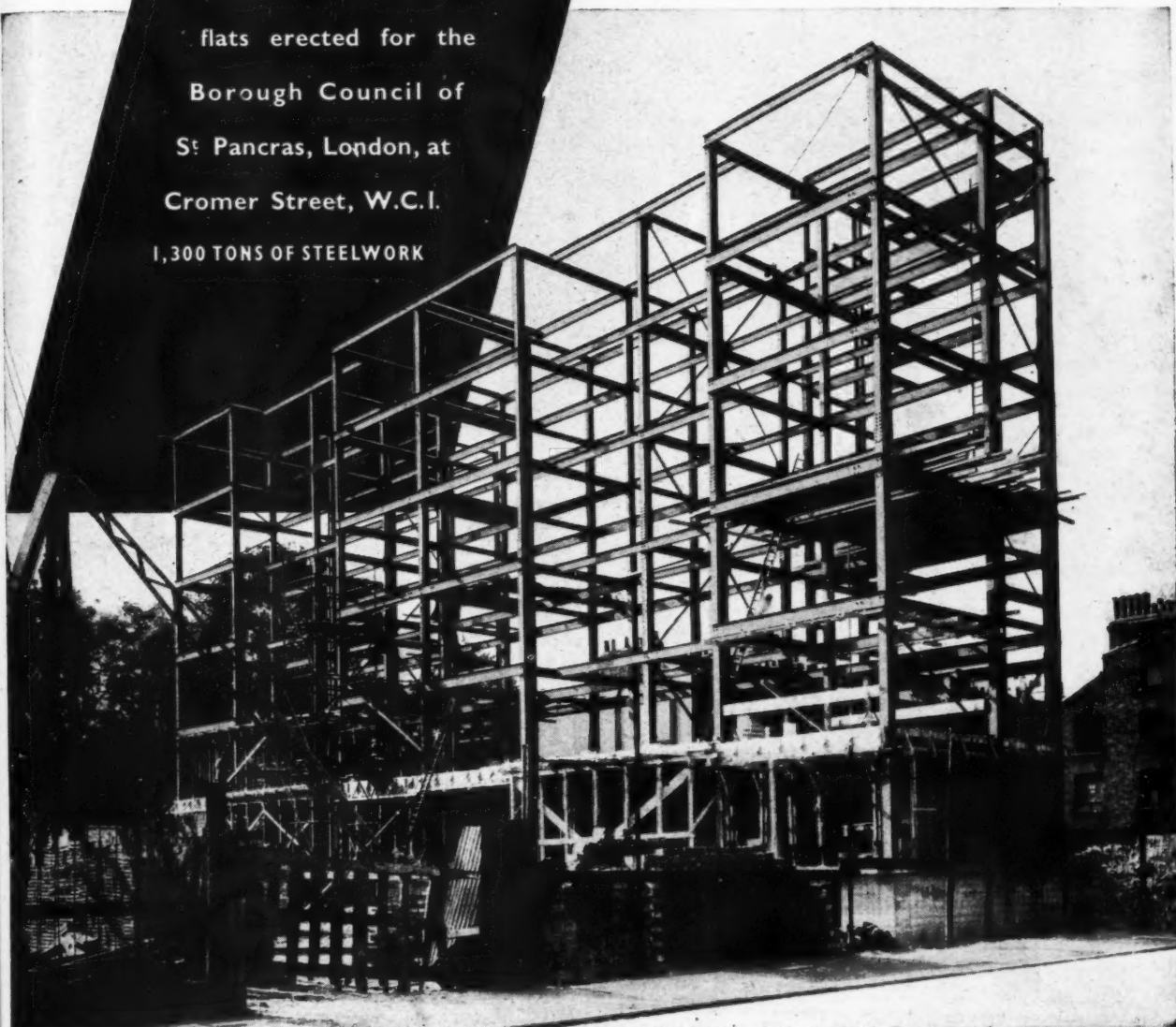
as cliff-like, the Sistine ceilings as miraculous, the Baroque churches as exhausting, the ruined forums as untidy and unimpressive (even to a Sharrawag), the women as elegant as we had been told. We had two reservations: first, the Early Christian basilica churches, with their cool ranks of columns, seemed to have received less attention than their due; and, secondly, the inside of St. Peter's was, at first sight, something of an anti-climax. Anderson has described this disappointment. "There is built up in the mind's eye," he writes, "a vague outline, dim and grey and huge, stretching into an interminable perspective, and over-

arched by a dome like the cloudy firmament. Some of this effect is produced by St. Paul's in London . . . but when you push aside the heavy mattress at the door of St. Peter's there is little or none of this feeling, and the first impression is of cheerfulness and colour . . . and that the building is not so vast as had been expected." The truth is that its vastness is camouflaged by the size of the units of base, column and cornice, which are inflated here to unprecedented dimensions. (Outside, the capitals are 10 feet deep and the statutes on the parapet 19 feet high.) The eye cannot at first appreciate such distortion of human scale, and it is





One of 11 blocks of  
flats erected for the  
Borough Council of  
St. Pancras, London, at  
Cromer Street, W.C.1.  
1,300 TONS OF STEELWORK



- Architects: Robert Hening, M.B.E.  
Anthony M. Chitty, M.A., F.R.I.B.A., A.M.T.P.L.,  
Town Planning Consultants.
- General Contractors: Stewart & Partners, Ltd.  
105 Baker Street, London, W.1.

*Boulton & Paul Limited*



CRAFTSMEN IN THE DESIGN & ERECTION OF STEEL STRUCTURES

● LONDON · NORWICH · BIRMINGHAM

I.C.E.



# PRIORITY CALL . . .

Construction replaces  
destruction as the national  
priority. "Build well  
and build speedily" is  
the new battle cry.

S.G.B., with branches and depots  
throughout the country, offer the  
largest and most  
efficient scaffolding  
service.

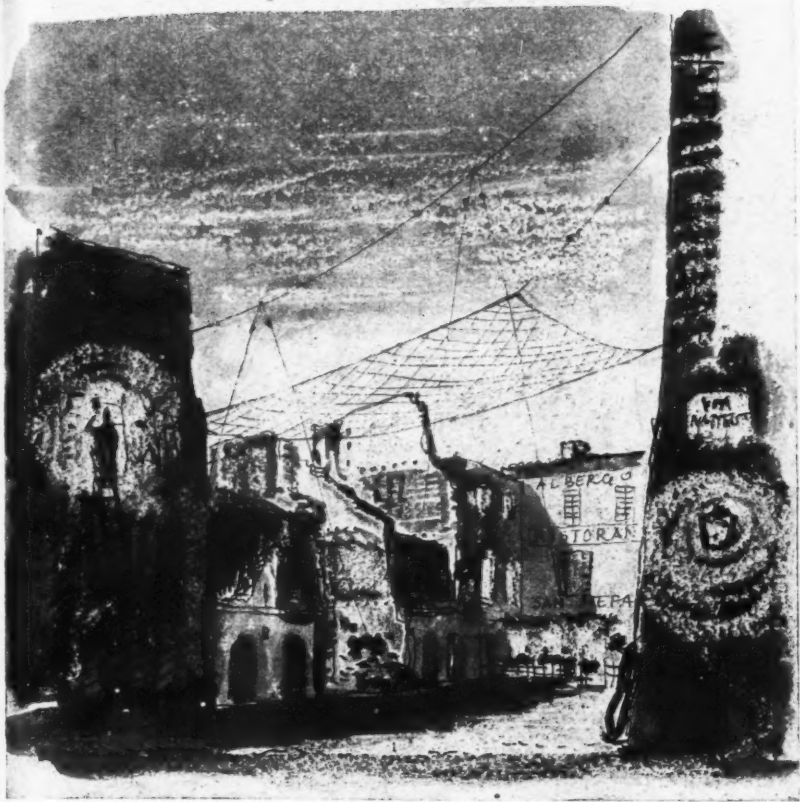
# S.G.B.

SCAFFOLDING (GREAT BRITAIN) LIMITED

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

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

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



*A tightrope walker prepares his apparatus for an evening performance above the ruins of Tivoli*

only after looking many times that reality begins to catch up with imagination.

The Florentine routine of sightseeing, strolling, shopping and café idling was quickly resumed. The guide, speaking successively in four languages, which all sounded alike, hustled us along without mercy. He showed us the vacant balcony—so familiar in pre-war newsreels—of the Palazzo Venezia and the stone-jewelled doorway

beneath. He took us to the English cemetery and for a nine-hole round of churches. "Here," he said, pointing into the vaults of the Colosseum, "Oh-so-very-wonderful—are the Christians' dungeons." (Or were they, as Professor Reynaud's guide book says, the refreshment bars, where twenty-nine different sorts of cocktail were served during performances? Who can say? We could only be uncomfortably certain of the use to which they were put

to-day and for once hurried ahead of our guide.)

In the baths of Caracalla a middle-aged Middle Western voice broke into the harangue. "I once went round the Casino at Nice," it said. "Boy, was that luxurious!" A few visual memories remain: priests like half-folded umbrellas flapping inkily against the glittering stone; a baby having its nappies changed by a customer in a smart jeweller's shop, surrounded by the admiring staff; a man in basketware boots hawking an American fountain-pen; a party of nuns in a brand-new Chrysler station wagon, as triangular and aloof as chips of black and white marble in a fancy tin box; a pair of bootees hanging from a gigantic window in the Villa Medici; a tightrope walker erecting his net above the bombed ruins of Tivoli in preparation for an evening performance; a village band pumping outside the sunbaked gardens of Hadrian's villa; the blood-curdling frescoes within the cool circumference of San Stefano Rotundo; a lonely English railway wagon on a Roman siding which bore the strange notice "Not to be worked between Baker Street and Finchley Road."

### ISCHIA

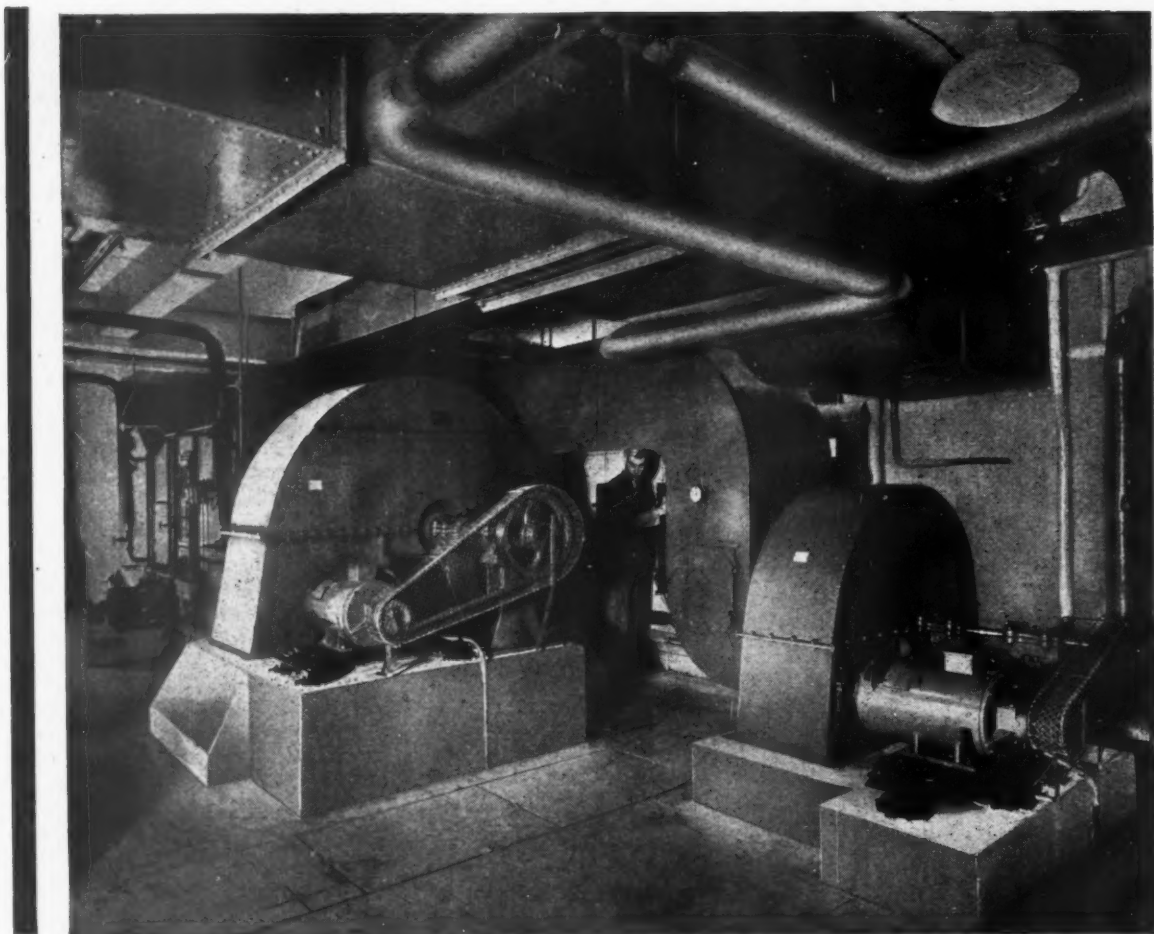
From the dust and rapacity of Naples we took a boat to Ischia, an island some miles north of Capri. ("Ah," said a local leaflet, describing Capri and Sorrento, "how suggestive is the atmosphere of these notorious rendezvous.")

Ischia, happily, is not yet as "notorious" as it should be. It still lives mainly on fishing and vineyards, and, though a few beach umbrellas sprout upon the tiny plage, the fishermen have not yet been ousted and villas do not yet outnumber cottages. But Ischia is doomed to be another Capri, and nobody, presumably, will mind less than the inhabitants. Already a



*The plage at Ischia*



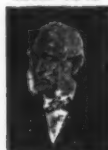


AIR CONDITIONING INSTALLED BY

# MATTHEW HALL

& CO. LTD.

Estd. 1848



MATTHEW HALL

AIR CONDITIONING • HEATING  
PLENUM VENTILATION  
BOILER PLANT • OIL FIRING  
DISTRICT HEATING  
ELECTRIC LIGHTING AND POWER

26-28, DORSET SQUARE, LONDON, N.W.1

PADDINGTON 3488 (20 LINES)

GLASGOW • MANCHESTER • LIVERPOOL • BELFAST • BRISTOL • NEWCASTLE • CARDIFF • COVENTRY • EIRE



shop loaded with the latest antiques has been opened in the main street by an elegant woman who, on hearing they came from London, sighed "Ah, Harrods!", and next year a new night-club is threatened.

The days passed quickly in basking and bathing and basking again. We found here the smallest shop of our tour. It was a watchmaker's, and his frontage measured 2 ft. 3 in. wide by 5 ft. 4 in. high. We attended a film called "Orgasmo," featuring (of all people) Eugene Palette. It was all about ice-skating. We peered into the yellow hot springs on the beach, where village women lay and gossiped quietly for hours. We answered questions about Mr. Churchill—"ah l'indomitable"—who has replaced Mrs. Simpson as the most popular topic of Anglo-Mediterranean conversation. Too soon it was time to go.

On the steamer a G.I. prisoner sat with his military escort—two dark-spectacled American M.P.s pumped with good food as tight and red as bicycle tyres. For two hours they sat without speaking and disembarked still in silence. On the platform at Rome the sleeping-car attendant puffed morosely at a little black cigar. (He was to accompany us to Calais and thence, without us, to Vienna.) "We are short staffed in Paris now," he said, "but, so few people are travelling, it doesn't seem to matter."

Two days later he waved sadly at us from the window of the empty wagon-lit. Among the twilight ruins of Calais his brightly-lit, richly-panelled, warmly-carpeted little home—which had carried its precarious load of security across darkened Europe—looked as artificial, improbable, and fragile as Cinderella's glass coach.

they will need to do a much better one in the future; 1948 is probably the last twelve months' opportunity that they will have. If the goods are not delivered in 1949 and 1950, they will not have their subscriptions renewed. This being so, they must—both the back-room boys and the Ministers—speak more clearly and more openly on the programme. They must make the programme and the implied targets a reality; they are planners, and they must *plan*.

For instance, there ought to be a planning-room for building materials, so that the different industries could show and be shown their targets and achievements. There must not be a repetition of the failure to phase materials and building labour. There must not be a repetition of the over-licensing of small works, and indeed of small builders.

Then the anti-planners; let us be frank about them, too. They do not want houses to be produced in quantity, so as to make property too cheap. They do not want (most of them having comfortable incomes) to endure any "hardships," such as the reduction of their full coal allocation, or of their basic petrol rations, merely to provide the homeless thousands with an adequate shelter. The anti-planners and their innocent fellow-travellers (who genuinely believe in free enterprise) need to be prevented from creating industrial warfare.

And, lastly, I come to the lunatic fringe. These are the advocates of immediate and wholesale nationalisation of the building industry. Such critics of the industry overlook its many ramifications, and fail to appreciate the many simpler alternative methods of attaining their objectives. They may even stand in the way of the *partial* nationalisation of sections of the industry. But that must be a story for 1948.

#### LOOKING FORWARD

The year 1947 has not been without considerable achievement. The amount of housing and factory building work then done has been remarkable, and may appear even more so in retrospect. In these articles on the programme it has been necessary to point out the failures as well as the successes; indeed, their main purpose must be to comment, to criticise and even to irritate rather than to instruct or to inspire. Even in remarking on the notable advance in building science that has taken place it has been difficult to avoid a censorious remark here and there. But, seen from the more distant viewpoint of Hull, I cannot help observing incontrovertible progress in the industry and in administration. I honestly believe that productivity and efficiency will show a notable rise, provided that the industry and the authorities stick to their proper jobs.

## THE YEAR IN THE BUILDING INDUSTRY

BY IAN BOWEN

**WHAT** a year for the professional critics. Six months calling Mr. Bevan names because his programme was too small! Five months ditto because it was too large! One week's interval to vote for the even bigger programme of the "Industrial Charter"!

#### THE CHANGE OF PROGRAMME

The year 1947 has made dupes of us all; of the Government, but also of the opposition, of the planners and of the planned. It has been the turning-point in the over-ambitious building programme, like the moment after the last war when the Addison programme had to be abandoned.

Worst aspect of this change from a "sky's-the-limit" target to capital cuts and retrenchment—an astonishing change in a ten months' period—is the insecurity that it inflicts on all those whose work is directly or indirectly connected with the building industry. The whole idea of a stable 10-12 years' programme, steadily building up in the first three or four years, an idea outlined in many official and unofficial pronouncements in 1945 (Coalition as well as Labour) seems in jeopardy. Yet on this idea depended the plans for their future careers made by tens of thousands of building apprentices, thousands of building materials producers, and certainly many hundreds of young architects.

#### IMPACT OF THE CUTS

For this increase of insecurity and of confusion the Government has to take the blame, since it is the ultimate planning authority. But it would be unfair not to point out that if a gamble was made and lost, it had the backing of the majority of all parties and interests. The capital cuts were forced on the country by external events. If American prices had not risen, and if a number of other unfavourable events had not taken place *externally*, the cuts would have been unnecessary. So perhaps the gamble had to be taken after all.

Planning is certainly the only basis for the change of gear. It is to be hoped that the reduction in building activity will be accomplished in as smooth a way as possible. An indiscriminate reduction in the amount of building licences would result in equally indiscriminate pockets of unemployment. The machinery of controlling building work regionally in accordance with the varying local resources is now going to be fully tested. Without any such machinery one can imagine the chaotic results of the forced closing-down of the spending programmes of Departments.

#### SOME FRANK REMARKS ON PLANNERS AND ANTI-PLANNERS

The planners, as I see it, have done a moderately good job this year. But

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

## ENQUIRY FORM

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

.....

.....

.....

.....

.....

.....

.....

.....

*Please ask manufacturers to send further particulars to:—*

NAME.....

ADDRESS.....

A.J. 15.1.48

## Announcements

Consequent on the retirement, as from March 31 next of Mr. Ernest Jones from active management of the Standard Range and Foundry Co. Ltd., Builders' Merchants, Watford, Mr. George W. Sayell was appointed to the Board of Directors on January 1, and from April onwards will serve also in the capacity of Manager. Mr. Jones will continue as a Director in an advisory capacity.

The TenTest Fibre Board Co., Ltd., announce that arrangements have been made for Broderick Insulated Copper Roofing to be produced and erected by a separate company now in course of formation, to be known as Broderick Insulated Structures, Ltd. Mr. A. H. T. Broderick will be the Managing Director. All contracts and inquiries for Broderick Insulated Copper Roofing will be automatically transferred to the new company, which is also taking over the complete design and erection organisation. There will therefore be no break in the continuity of service. Pending completion of the registration of the new company, Mr. A. H. T. Broderick will be handling the insulated copper roofing business personally, and all communications and inquiries should be addressed to him at 41, Mount Hermon Road, Woking, Surrey (telephone No. Woking 1999). Mr. Broderick will still be connected with the TenTest Company in a consultative capacity.

Mr. Robert F. Wilson, Art Director of the British Colour Council, has just completed a tour of Canada and America.

A general meeting of members of the Institute of Registered Architects was held in Birmingham, and a Midlands Section of the Institute was formed. The area covered

by the Midlands Section is approximately the territory bounded by, and including the towns of:—Stamford, Grantham, Nottingham, Derby, Oswestry, Welshpool, Hereford, Tewkesbury, Banbury, and Northampton.

Mr. Arthur Owen Carter, Director of Carter and Co., Ltd., Poole, Tile Manufacturers, and Managing Director of Carter and Co. (London) Ltd., asks us to announce that as from December 31 he has retired from all active connection with these companies.

The Wimbledon School of Art would be glad to receive any trade literature, information sheets, samples, catalogues, etc., at their Architectural Department, Merton Hall Road, S.W.19.

A Building Industries' Luncheon Club has been formed by a group of members of the Building Industry. It meets six times a year and there is an annual subscription of five guineas. Details may be obtained from the Honorary Organising Secretary, Mrs. M. Pleydell-Bouverie, 4, Manchester Square, London, W.1.

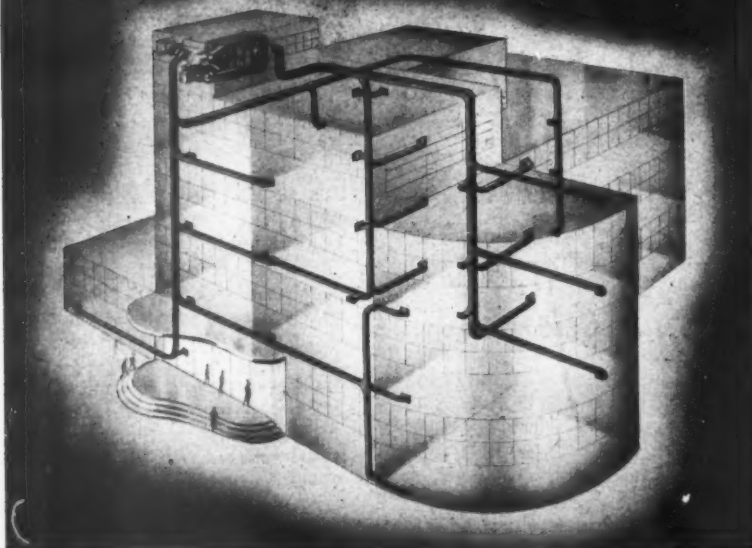
The Secretary of the Bartlett Society, Bartlett School of Architecture, University College, London, W.1, will be pleased to receive trade catalogues, etc., for the Library.

Mr. E. A. Langham has relinquished his appointment as Sales Manager for the British Aluminium Co., Ltd., to take up a new appointment as General Manager in India.

Mr. William Wood, General Manager of Thos. W. Ward (Coal) Longbottom, Ltd., Harvest Lane, Sheffield, has been appointed Assistant Managing Director.

Mr. H. M. Moffat, General Sales Manager of Messrs. Vulcan Products Ltd., has now returned to this country after spending nearly a year, on behalf of his company, in the African continent and the Far East.

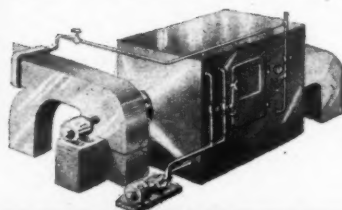
## SUPREME IN AIR CONDITIONING \*



TODAY, in keeping with the new economic conditions, the demand is for 100% efficiency in Factory Management. Foresight and vision are necessary to protect conditions, materials, employees and profits, in an all-out effort to capture new and better markets.

Let Bayliss Kenton Installations handle your factory problems. Specialists in Air Conditioning, Heating, Ventilation, Temperature Regulation, Automatic Controls, Dust Extraction and Fuel Oil Firing, they can materially increase your production.

SEND FOR THE BAYLISS KENTON ENGINEER TODAY!

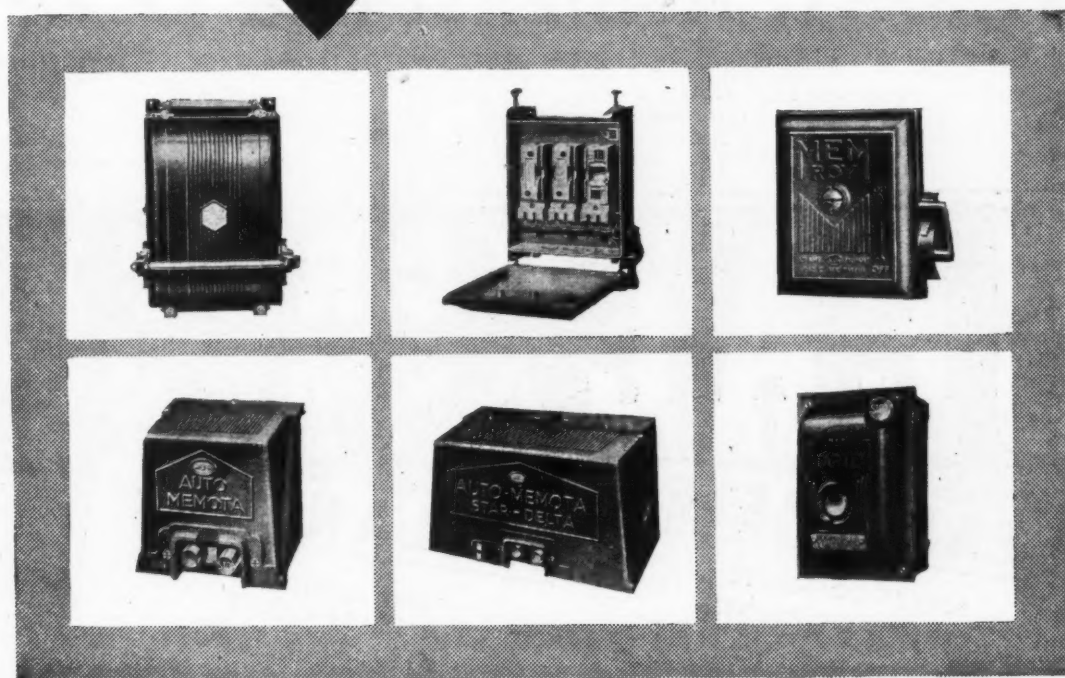


BAYLISS KENTON INSTALLATIONS LTD • NORTHGATE • BLACKBURN

# All done by switchcraft

Switchcraft is the M.E.M. method of design and manufacture which brings you a better product at a lower price.

Write now for copies of the new M.E.M. catalogues.



Switch, fuse and  
motor control gear,  
electric fires and localised  
lighting equipment

MIDLAND ELECTRIC MANUFACTURING CO. LTD., BIRMINGHAM, II.

Branches in London and Manchester





**RELIABILITY**  
GATESHEAD CO. DURHAM

The Sign of  
Service with Quality—  
Speed with Reliability

One of three sections  
for 80 Ton Coal Bunkers  
recently built in our shops.

This is a typical example of our Bunker work. We deal with all types of Constructional Engineering, including Bridge Building, welded or riveted. And we do the complete job from blue print to finished structure . . . our Designers, Fabricators and Erectors set the WRIGHT ANDERSON seal of craftsmanship on every job they handle.

In addition, we can deal independently with reconstruction and maintenance problems.

## WRIGHT, ANDERSON & Co. LTD.

CONSTRUCTIONAL ENGINEERS & BRIDGE BUILDERS, GATESHEAD 8, Co. DURHAM

Telephone : Gateshead 72246 (3 lines)

Telegrams : "Construct, Gateshead"

London Office : Regent House, Kingsway, W.C.2

Telephone : Holborn 9811

CONTRACTORS TO: ADMIRALTY · WAR OFFICE · AIR MINISTRY · MINISTRY OF WORKS · CROWN AGENTS FOR THE COLONIES

# SEALOCRETE SEALANTONE

## SEALOCRETE

**MAKES CONCRETE  
DUSTPROOF  
OILPROOF  
WATERPROOF  
CASE HARDENED**  
Rapid hardens—seals leaks under pressure  
**ENABLES CONCRETING TO BE  
CARRIED OUT IN FROSTY WEATHER**

## SEALANTONE

**THE ORIGINAL  
AND UNIQUE  
NON-FADING  
LIQUID COLOURS**  
for  
CONCRETE, CEMENT, ROUGH CAST, ETC.  
ASSURES Intensity and Uniformity with Extreme  
Hardness; PREVENTS Dust; AIDS Water, Grease  
and Oil Resistance . . .  
**ALL THESE IN ONE OPERATION**

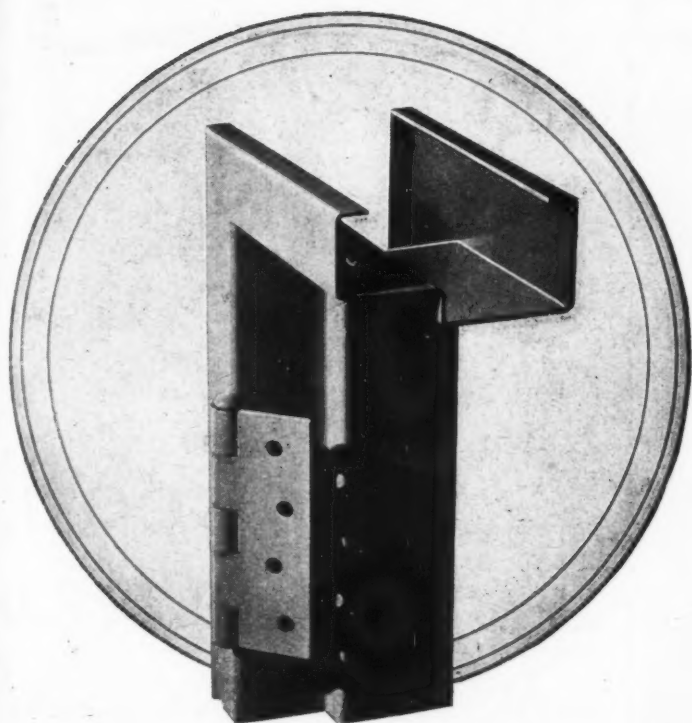
**SOLE MANUFACTURERS**

**SEALOCRETE PRODUCTS LTD ATLANTIC WORKS, MACBETH ST. W.6.**

Telephone: RIVerside 2686-7.

Telegrams: Exploiture, London.





# SANKEY

## METAL TRIM

DOOR FRAMES • WINDOW CILLS  
PRESSED STEEL SKIRTING  
PICTURE RAIL • CORNER BEAD  
ETC., ETC.

Metal Trim will undoubtedly play an important part in post-war construction, and those interested are welcome to a copy of our catalogue. For the time being, of course, we are only able to execute orders carrying Government permits.

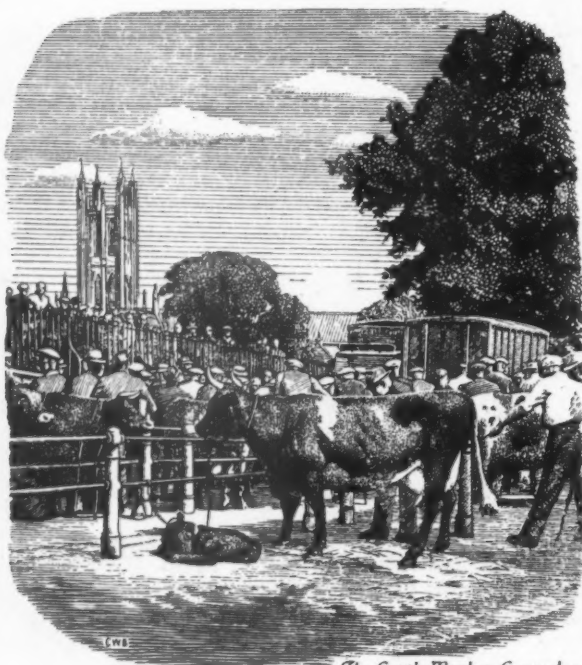


# JOSEPH SANKEY & SONS LTD.

WELLINGTON, SHROPSHIRE.

LONDON OFFICE: 168, REGENT ST., W.1

THE ENGLISH MARKET today is many things—a fair, a club, a discussion group. Above all it is a place where local men meet to buy and sell and plan for the future. It is to ensure that the Bank is constantly in touch with local affairs, and the needs of local firms and industries, that Barclays Bank



*The Cattle Market, Canterbury*

have developed their unique system of Local Head Offices, covering England and Wales. The Local Directors of these offices are men who know the district well, and their wide experience means that speedy and sympathetic consideration will be given to all matters brought before them.

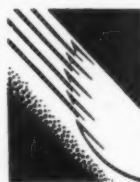
*There is a Local Head Office at Maidstone*

**BARCLAYS BANK LIMITED**

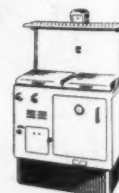


**THE GOOSE**  
**IS A FOOLISH BIRD**  
*...too much for one and  
not enough for two!*

THUS opined the sixteenth century trencherman. To-day, the goose must serve for twenty-two, which, after four hundred years of progress, makes us all a little foolish. But there are compensations. We cook that goose much better today; and tomorrow we shall cook it better still when Eagle Ranges are not, — to use our hideous modern jargon, “in short supply.”

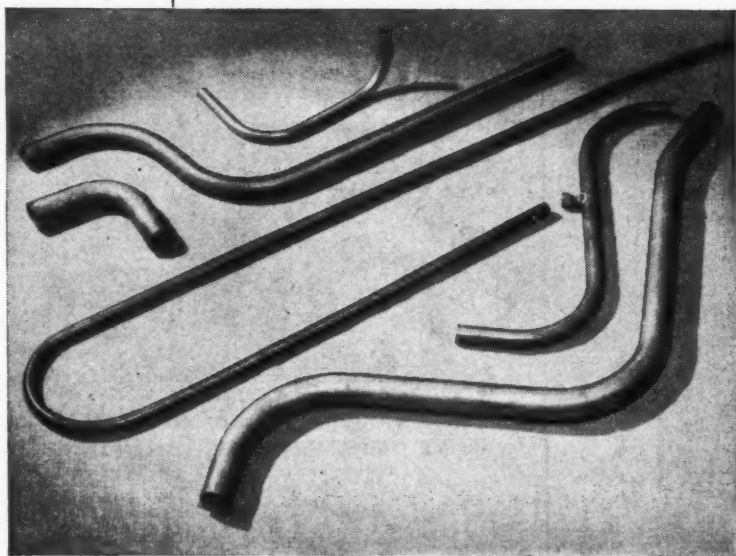


**EAGLE**  
*Advance*  
**RANGE**



EAGLE RANGE & GRATE CO. LTD. *Aston, Birmingham. 6*  
Product of Radiation Ltd

## Pre-formed...



**PLUMBING  
PIPE LINES**

**TUBULAR  
COMPONENTS  
OF ALL KINDS**

*In all metals*

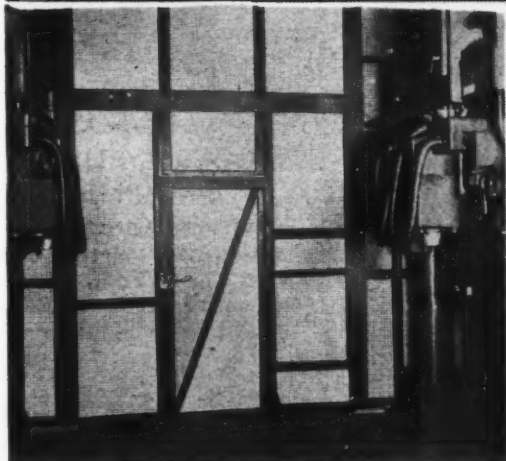
Enquiries to:-

**TUNGUM SALES COMPANY LIMITED**  
BRANDON HOUSE, PAINSWICK ROAD, CHELTENHAM, GLOS.

# Durasteel

**COMPOSITE  
STEEL-&-  
ASBESTOS**

## 3DF2 FIRE PROTECTION PANELLING



- DURABILITY ● STRENGTH
- FIRE RESISTANCE
- HEAT INSULATION

Illustration shows Section of Durasteel 3DF2 Isolating Partitions and Doors between Transformer Switch Units at Wolverhampton Generating Station.—Courtesy of West Midlands J.E.A.

★

SEND FOR DATA OF BOTH CORRUGATED DURASTEEL ROOFING AND DURASTEEL 3DF2 FIRE PROTECTION PANELLING TO MANUFACTURERS:—

**DURASTEEL ROOFS LTD.**

OLDFIELD LANE • GREENFORD • MIDDLESEX  
Tel.: WAXLOW 1051 (Pte. Br. Ex.) Grams.: Endurafire, Phone, London



*For Easy  
Safe and  
Economical  
Transport*



AND  
DOWN



# E.C.M. ELECTRIC LIFTS

Architects, Builders, Engineers and all interested  
in the provision of  
VERTICAL TRANSPORT FOR PASSENGERS, GOODS  
and SERVICE are invited to consult

**ETCHELLS, CONGDON & MUIR LTD.**  
ANCOATS, MANCHESTER



Also at London, Birmingham, Cardiff,  
Leeds, Liverpool and Edinburgh.

ILLUSTRATED CATALOGUE ON REQUEST

*Stainless  
Steel*

FOR THE MODERN HOME



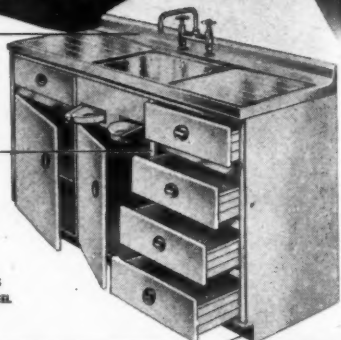
SPLASH BACK  
AND DRAINER  
IN ONE PIECE  
IN STAINLESS  
STEEL.



FRONT  
STRUCTURE  
STAINLESS  
STEEL.



2" TOE RECESS  
IN STAINLESS STEEL.



MODEL KU 200

- ★ A DAMP CLOTH CLEANS
- ★ IMPERVIOUS TO FOOD, GREASE & ALKALIES
- ★ HIRE PURCHASE TERMS ARRANGED

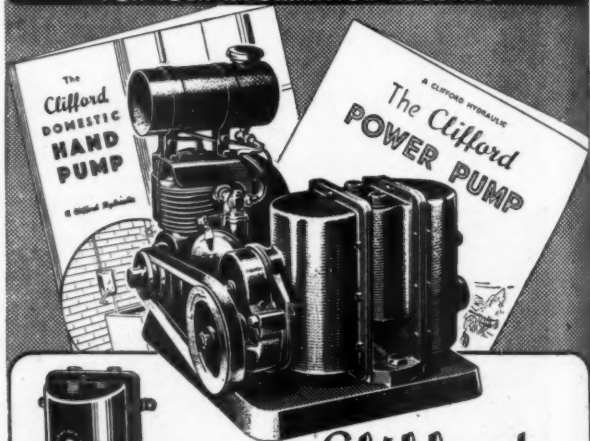
SEND FOR BOOKLET AND DETAILS OF COMPLETE RANGE

*Elizabeth Ann*

STAINLESS STEEL KITCHEN UNITS

ANDREWS BROS (BRISTOL) LTD, WALCOT ST. BATH ENGLAND  
TELEPHONE: BATH 80251 (5 LINES) TELEGRAMS & CABLES: "STAINLESS BATH"

FOR YOUR INFORMATION RECORDS

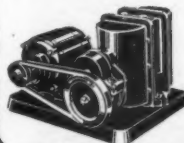


Pat. No.  
558373

The CLIFFORD HAND  
PUMP for small houses,  
gardens, stock yards, etc.  
Petrol and electric driven  
units for deliveries up to  
600 gallons per hour.

**Clifford**  
MODERN PUMPING  
EQUIPMENT

NEW TYPE ACTION provides  
COMPACT PUMPING EFFICIENCY for most domestic, industrial and agricultural purposes.



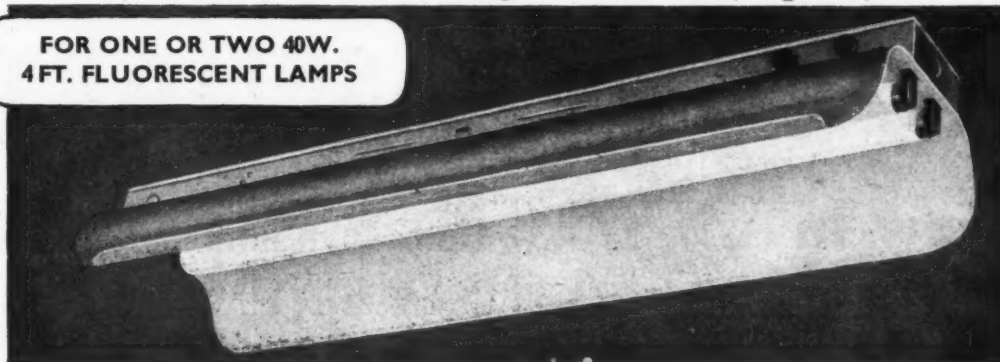
Precision Engineers for 35 years.  
**CLIFFORD AERO & AUTO LTD.**  
Spring Road, Hall Green, Birmingham, 11, Eng.  
Telephone: SPRingfield 1164



# PHILIPS FLUORESCENT LIGHTING

*(As announced recently in the trade press)*

FOR ONE OR TWO 40W.  
4 FT. FLUORESCENT LAMPS



## SETTING A NEW PEAK FOR HIGH-EFFICIENCY INDUSTRIAL LIGHTING

### For One Lamp

A.6150 "ASHFORD" CEILING FITTING

A.6155 "ASHBURTON" METAL REFLECTOR FITTING

A.6160 "ASHTON" "PERSPEX" REFLECTOR FITTING

### For Two Lamps

A.6185 "ALTON" CEILING FITTING

A.6190 "ALNESS" METAL REFLECTOR FITTING

A.6195 "ALBANY" "PERSPEX" REFLECTOR FITTING



Write for Philips Lighting Publication No. A.163 for full details.

**PHILIPS ELECTRICAL LIMITED**

Lighting Department, Century House, Shaftesbury Avenue, London, W.C.2

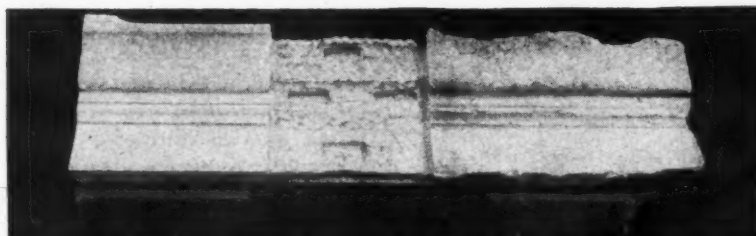
(LD.333A)

## A. DREYFUS + LIMITED

*Specialists since 1884 in*

### THE RESTORATION OF DECAYED STONework

Reports  
and  
Estimates  
without  
obligation



Steam  
Cleaning,  
Colouring  
Water-  
proofing

ALSO PRESERVATION BY WASHING AS RECOMMENDED BY THE  
GOVERNMENT BUILDING RESEARCH STATION

AND ALL ASPECTS OF BUILDING STONE MAINTENANCE

*Advice from experience in the repair of war damaged stonework in situ*

28 TOULMIN STREET + LONDON + S.E.1 + HOP 2366

**Time to  
throw in  
the towel!**



The patented CREDA Pedestal Hand Dryer saves time, trouble, towels and coupons, as well as being more hygienic. The hands are placed right inside the dryer unit and currents of warm air quickly dry them from finger-tips to wrists. Built on a substantial cast-iron base arranged for bolting-down and fitted with a foot-operated switch, the CREDA Pedestal Hand Dryer (registered design) is finished in black and white vitreous enamel with a smooth, projection-free surface for easy cleaning. The drying head is easily removable without disturbing mains electrical connexions. Mains entry is provided at the rear of the pedestal for conduit, flexible conduit or TRS wiring. The motor is very quiet and can only be operated while the foot-switch is depressed—a safety cut-out prevents over-heating. Suitable for AC single phase 50 cycles, voltage range 200/210, 220/230, 240/250, loading 3 k.w., covers floor space 16½" x 12½" Price £18



**PEDESTAL  
HAND  
DRYER**



especially designed  
for industrial use—restaurants, hotels, clubs, factories,  
offices, canteens, schools, etc. Write for illustrated folder

SIMPLEX ELECTRIC CO LTD, OLDBURY BIRMINGHAM A COMPANY

# EXCEL ASPHALTE

Send us your Enquires for

**Asphalte • Laminated Felt Roofings  
Pitchmas • Tar Paving**

ON APPROVED LIST OF ALL GOVERNMENT DEPARTMENTS

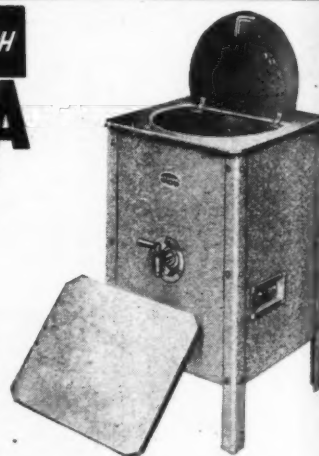
**EXCEL SERVICE ENDURES**

**EXCEL ASPHALTE CO. LTD.**

Broadway Chamber, Hammersmith, W.6

Telegrams: "CESLYM," LONDON. Telephone: RIVerside 6052 (4 lines)

**ELECTRIC  
SQUARE WASH  
BOILER  
VERONA  
HOT WATER  
ON TAP!**



DESIGNED for the modern housewife, hotel, farm and industrial user. Water heat regulated by two switches giving low, medium and high operation. Tinned copper boiler tank of 10 gal. capacity. Semi-recessed plated tap just the right height. Vitreous Enamel or Galvanised Steel finished body. Loose white enamel table top.

**IMMEDIATE  
DELIVERY**

Send for  
**ILLUSTRATED FOLDER**

**JABEZ BATE & CO. LTD.**

VERONA WORKS, SUMMER LANE, BIRMINGHAM, ENGLAND

TELEPHONE: ASTON 4000, 5101 & 2

TELEGRAMS: JABEZ/BATE, BIRMINGHAM

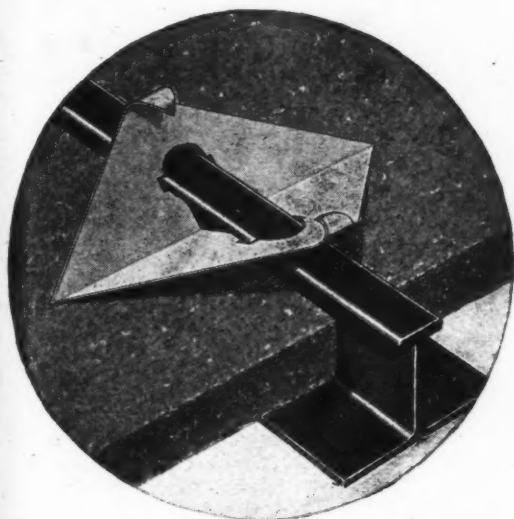
# SUNDEALA

## OF BUILDING BOARD FIXING

definitely increased with the

**SUNDEALA**

## METAL "V" CLIP



Save time in erection of interior wall and ceiling boards by using this simplest of all fixing methods. Without the use of screws, bolts or special tools, fixer has only to slide "V" clips on the flanged T bar illustrated, fix latter to purlins with hangers provided, insert board under clips and the job is done! There is no time lost due to awkward fixing in confined spaces since the clips are fixed to the T bars on the bench before erection.

Full details and information sheet on request.



**SUNDEALA BOARD CO. LTD., ALDWYCH HOUSE, LONDON, W.C.2.** Tel: CHAncery 8159. Works: Sunbury-on-Thames, Middx.  
**GLASGOW:** Baltic Chambers, 50 Wellington St., C.2. **NEWCASTLE-UPON-TYNE:** Northumbria House, Portland Terrace, Jesmond, 2.

Members of Building Board Manufacturers' Association.

# FLOOR SURFACES

(ACID & NON-ACID PROOF)

**DIAMONITE—**  
 Hardened grano  
**PRODORDUR MACHINE**  
**FACED FLOOR TILES—**  
 Coloured non-slip,  
 hard-wearing  
**FERROGRAN STEEL**  
**FACED FLOOR FLAGS—**  
 Hydraulically pressed,  
 surface heavily  
 impregnated with metal  
 For heavy duty



**HEAD OFFICE & WORKS:**  
**WEDNESBURY, STAFFS.**  
 Telephone: 0284 (five lines)

**London Office:** Artillery House,  
 Artillery Row, S.W.1  
 Telephone: 1547-8 Abbey.

**CONSOL STEEL ANCHOR**  
**FLOOR PLATES—**  
 For very heavy duty

**COLOURED ASPHALT**

**STANDARD ASPHALT**  
**FLOORING**

**WOOD BLOCK FLOOR-**  
**ING**

**ACID-PROOF FLOORS**

TO SUIT ALL CONDITIONS

# & WALL SURFACES





Portion of Scale Model of Vauxhall Motor Works. Built to the order of Messrs. Vauxhall Motors Ltd. Luton.

### 'TRUE TO LIFE' SCALE MODELS

The above illustration shows a model of the Vauxhall Motor Works, scale 44.66 feet to 1 inch, recently executed at Northampton by our craftsmen, highly skilled in the making of all types of Architectural Models. Minute accuracy of detail and perfect finish ensure that all our models create the very atmosphere of the original. You are invited to consult us for any type of Architectural Model.

Write for our Brochure (SM/27) illustrating every type of model for Publicity and Exhibition produced at our works

## BASSETT-LOWKE LTD NORTHAMPTON

London Showrooms: 112 High Holborn, W.C.1  
Manchester: 28 Corporation Street

**You pay up**  
—AND HOPE YOU'LL  
NEVER NEED THEM

**M**OST people cheerfully meet the annual bill for insurance. They know that the only way to counter the many hazards of life, is to insure with a name that carries confidence. It is much the same with emergency lighting. It is installed and maintained perhaps for years without use. The guarantee that it will work when the critical time comes lies in the reputation of the makers.

Tudor Safetylyte is a name known to most architects as a certain safeguard against sudden interruption of the mains, with all its possibilities of catastrophe. It is the best insurance against a danger present wherever large numbers of people are assembled.

**TUDOR  
SAFETYLYTE**

THE TUDOR ACCUMULATOR CO. LTD., 50 GROSVENOR GDS., LONDON, S.W.1

A  
**RONUK**  
PRODUCT



## ★ WOOD DYE

THE "1-COAT" TRANSPARENT  
PENETRATING, PERMANENT  
PRESERVATIVE STAIN FOR ALL  
NEW WOODWORK.

*It cannot raise the grain.*

★ 8 SHADES:  
ALL SIZES

### ADVISORY SERVICE

Shade cards, panels, full directions and working instructions for contractors' use, estimates and 45 years of specialists' experience are at your service.

**RONUK Ltd., Portslade, Sussex**  
Polishing 16 South Molton Street  
Contract Depot London, W.1

*The New Star in*  
**SANITARY EQUIPMENT**

**Shires**

A NEW STANDARD OF EFFICIENCY IN  
**W.C. CISTERNS**  
including High & Low Level models in  
**MOULDED PLASTIC**

**SHIRES & CO.  
(LONDON) LTD.**  
Mfrs. of Sanitary Equipment  
Norman Bldgs., Central St.,  
LONDON, E.C.1.  
CLerkenwell 6384 (5 lines)

• Literature on request  
• Prompt delivery through Plumbers' & Builders' Merchants.



## The insulation of Pipes and fittings



The first requirement of a thermal insulating material is that it must reduce heat losses to the lowest possible level. Couple with this essential quality other important factors such as long life, ease of fitting and non-combustibility, to name a few, and you have a material well-nigh perfect from most points of view.

Glass, silk-like fibres, fabricated by us to suit hundreds of different thermal insulating problems, is known to possess these vital attributes.

VERSIL rigid sections are widely used for pipe insulations. Simplicity of fixing, ease of removal and replacement, are features the

heating engineer appreciates. No heat is required, no dirt, or mess. Just clip the section on and the job is done.

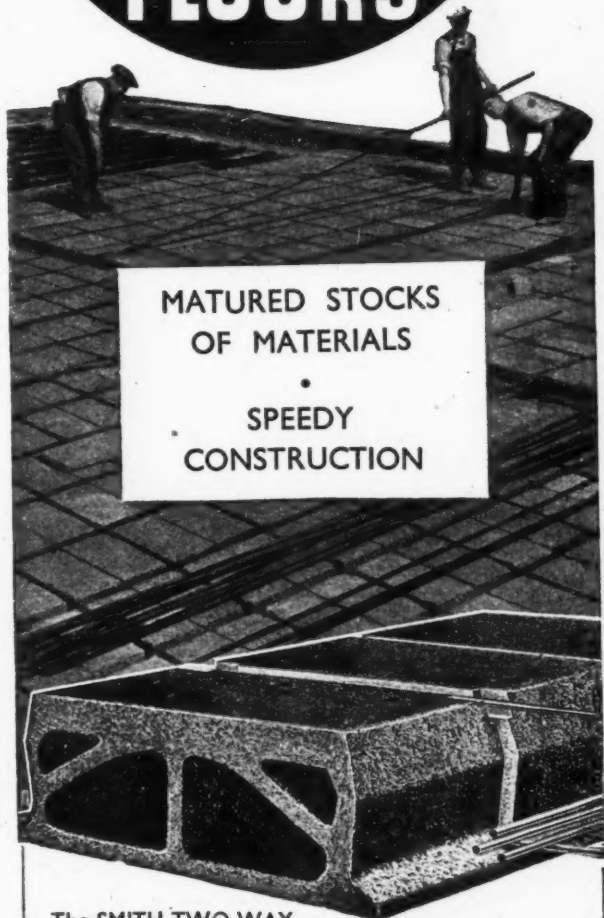
*Literature dealing with the multitudinous uses of this versatile material is available on application to Versil Limited, Rayner Mills, Liversedge, Yorks.*

**VERSIL**  
glass silk  
the all-purpose  
insulation

CPW

lxxix

# SMITHS FIREPROOF FLOORS



MATURED STOCKS  
OF MATERIALS

•  
SPEEDY  
CONSTRUCTION

### The SMITH TWO-WAY

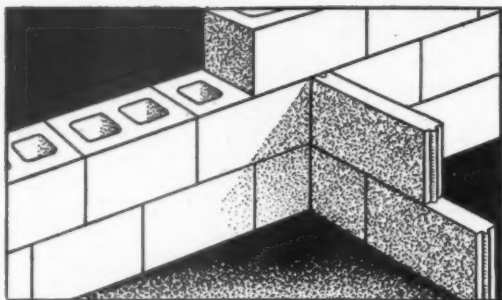
reinforced fireproof floor can be employed immediately for any flooring or roofing requirement. It is constructed with standardised pre-cast hollow concrete blocks.

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

SMITH'S FIREPROOF FLOORS LTD. (Dept. A)  
Imber Court, East Molesey, Surrey. Telephone : Emberbrook 3300 (4 lines)

**SMITH'S** 2-WAY REINFORCED  
FIREPROOF FLOORS  
employing Unique Telescopic Centering

## CROFT ADAMANT



### HOLLOW CONCRETE BLOCKS

	LENGTH		WIDTH		DEPTH
STANDARD SIZES	17 1/2"	×	8 1/2"	×	8 1/2" & 5 1/2"
	17 1/2"	×	6"	×	8 1/2" & 5 1/2"
	17 1/2"	×	4 1/2"	×	8 1/2" & 5 1/2"

The 8 1/2" and 6" wide blocks are made in Granite, Breeze and Foamagg aggregates. The 4 1/2" wide in Granite and Foamagg only.

### SOLID CONCRETE PARTITION BLOCKS

STANDARD SIZES	LENGTH	DEPTH	THICKNESS
	17 1/2"	8 1/2"	4 1/2", 4", 3", 2 1/2" & 2"

Made in Granite, Breeze and Foamagg aggregates.  
Half blocks for bonding are supplied.

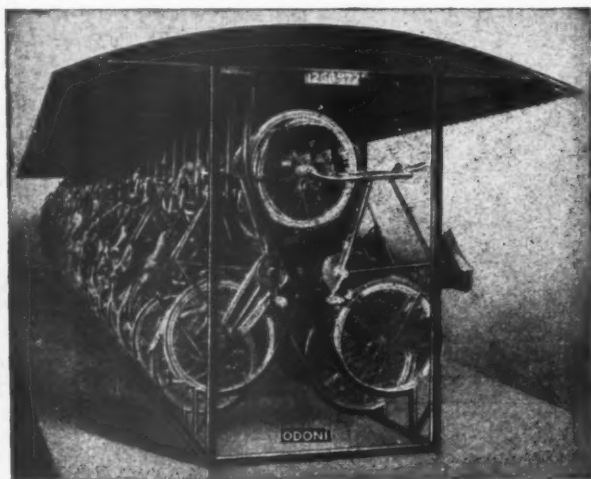
### ART TILES

STANDARD SIZES	5 1/2" x 8 1/2"	5 1/2" x 11 1/2"	COLORS
			Cream, Red, Green and Black

Your enquiries are invited

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

London: 7, Victoria Street, Westminster, S.W.1. Tel.: ABBey 4802  
Branch Office and Works: West Bank, Widnes. Tel.: Widnes 2656-7



### ODONI PATENT

### ALL-STEEL BICYCLE STANDS

Write for fully illustrated catalogue

### VARIOUS TYPES TO SUIT REQUIREMENTS

Sole Manufacturers and Patentees:

**ALFRED A. ODONI & CO. LTD.**

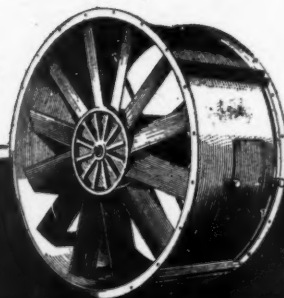
SALISBURY HOUSE: FINSBURY CIRCUS

LONDON, E.C.2

WORKS: LONDON, S.W.

Telephone:  
MONarch  
8638/9

Telegram:  
"Odoni, Ave  
London"



## WOODS OF COLCHESTER FANS

Aerofoil AXIAL FLOW FANS  
PROPELLER FANS  
MAN COOLING FANS  
ROOF EXTRACTOR UNITS  
ROOF INPUT UNITS



**WOODS OF COLCHESTER LTD.**

AN ASSOCIATE COMPANY OF  
THE GENERAL ELECTRIC CO. LTD.  
OF ENGLAND

BRAISWICK WORKS COLCHESTER

also London, Birmingham, Cardiff, Glasgow, Manchester

## midloc pegstay



**MIDLOC.** Single point fastener finished dull nickel plate or A.C.B. Gives smooth and positive closure for light casements.

**PEGSTAY.** Standard type for casement and vent-holds window closely at two points when shut. Also in dull nickel plate or A.C.B. finish.

CODE DESIGN FITTINGS ARE STANDARDISED FOR USE WITH E.J.M.A. CASEMENTS

Send for particulars of Code Designs specialities, including Radioc, Hinges, Swivots, etc.

**Code Designs Ltd.**  
OLDFIELD LANE • GREENFORD • MIDDX

Phone: WAXLOW 767F

## ROOF SHEETING IN ASBESTOS-CEMENT AT 6'6" PURLIN CENTRES



### "UNIVERSAL"

ASBESTOS-CEMENT  
REINFORCED  
**TROFSEC**  
SHEETS

—have been specially designed and reinforced so that they may be fixed on purlins spaced up to 6' 6".

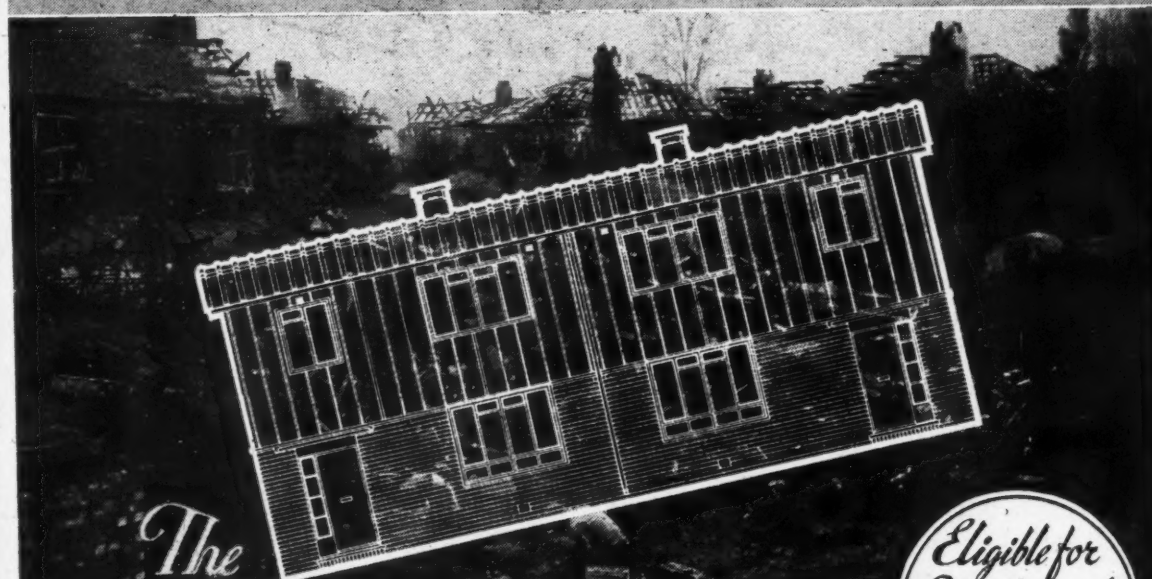
In addition to the obvious saving in Constructional Steel, Universal Trofsec Sheets can be applied to the existing purlins in ordinary repair work.

Stocked in lengths 4' 0" to 10' 0" rising by 6" increments.

For complete technical details and method of fixing write for Catalogue—C.16.

**THE UNIVERSAL ASBESTOS**  
MFG. CO. LTD.  
37-38 CHANCERY LANE LONDON WC2 TEL. HOLBORN 70013

*Now Available* — **FOR YOUR**  
**RE-HOUSING PROGRAMME**



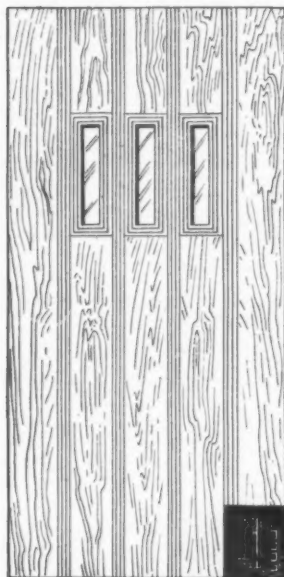
*The*  
**SPOONER HOUSE**

APPROVED BY THE MINISTRIES OF HEALTH & WORKS

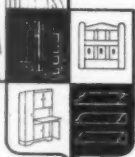
SPOONER'S, Kingston-upon-Hull. Tel: 31750; 31759; 31079. 'Grams: "Spoonfos, Hull".'







*First  
impressions  
are lasting  
and good  
when the  
front door  
is a  
'Brycite'*



ESTABLISHED 1879

**BRYCE WHITE & CO. LTD.**

LANGLEY, SOUTHAMPTON, BRISTOL & LONDON  
Head Office: **DESERONTO WHARF, LANGLEY, BUCKS**  
(Telephone: LANGLEY 232 & SOUTHALL 2231)



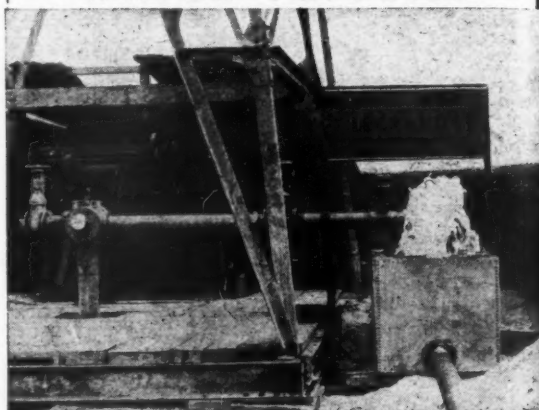
**GOOD CABLES TODAY —  
REDUCE TROUBLE TOMORROW**

General Cables have 30 years' experience of making cables in their factory at Leatherhead, Surrey, and are contractors to all Departments of His Majesty's Government. They manufacture every type of Rubber Insulated Cable, Lead Covered, Armoured, T.R.S. (tough rubber sheathed), Trailing, Braided and Plastic Insulated Cables.

**GENERAL CABLES**

The General Cable Manufacturing Co. Ltd., Leatherhead, Surrey  
Telephone: Leatherhead 3021-4 Telegrams: "Isolde," Leatherhead  
Specify General Cables through your contractor  
Divots at: 204/206, Newhall Street, BIRMINGHAM.  
54a, Newton Street, MANCHESTER. 55/63, Washington Street, GLASGOW, G.2

— **LE GRAND** —  
**BOREHOLES and WELLS**  
for  
**WATER SUPPLIES**



Artesian overflow of 10,000 gallons per hour from a lower greensand borehole, 1,100 feet deep.

**BORED TUBE WELLS • PUMPING PLANT  
SHAFTS AND HEADINGS**

**LE GRAND**  
**SUTCLIFF & GELL LTD**  
SOUTHALL • LONDON

Telephone: Southall 2211



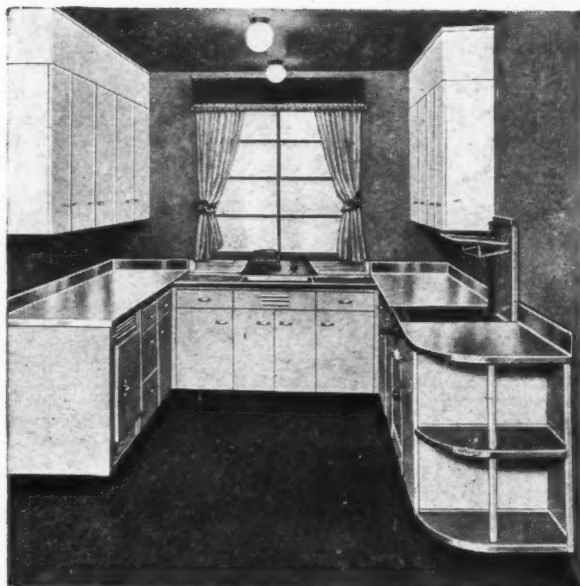
*The*  
**BURGESS**  
sound absorbing

Each "Perfotile" installation is designed individually to achieve optimum acoustical conditions.  
Full details forwarded on request.

**PERFOTILE**

BURGESS PRODUCTS CO. LTD. • HINCKLEY • LEICS.





**EZEE**

FOR THE  
HOUSEWIFE

The smooth baked enamelled flush doors and easily sliding drawers are easy to clean, while dirt gathering crevices are eliminated.



**EZEE**

FOR THE  
ARCHITECT

The sinks, counter units and wall cabinets are supplied to standard height and depth, but in various widths to fit any size or shape of room.

**BETTER LIVING THROUGH  
BETTER KITCHENS . . .  
AN EZEE KITCHEN  
FOR OLD OR NEW HOUSES**

This all-steel kitchen with plastic counter tops provides a vastly superior kitchen at normal costs. A refrigerator is built into a standard counter unit and a broom cupboard can also be supplied.

**EASY TO INSTALL; EASY TO RUN; EASY ON THE EYES**  
these kitchens will revolutionise your ideas of kitchen planning.

**DELIVERY WITHIN 2 MONTHS.**

Contact us soon regarding your requirements for 1948. Write for our brochure or, better still, call and see our exhibition kitchens in Glasgow, suitable for all types of houses. Also at the Building Centre, 9, Conduit Street, London, W.1.

**IT'S HERE AT LAST! IT'S COME TO STAY! IT'S EZEE!  
DON'T SELECT YOUR KITCHEN UNTIL  
YOU HAVE SEEN AN EZEE KITCHEN**

**EZEE KITCHENS LTD.**

**341A SAUCHIEHALL STREET, GLASGOW • TELEPHONE: DOUGLAS 4956**

*specify*



**ORIGINAL JOINTLESS FLOORING**

*for*

**HOUSES • HOSPITALS • OFFICES  
AND FACTORIES**

**Warm • Hygienic • Dustless  
Fire and Vermin Proof**

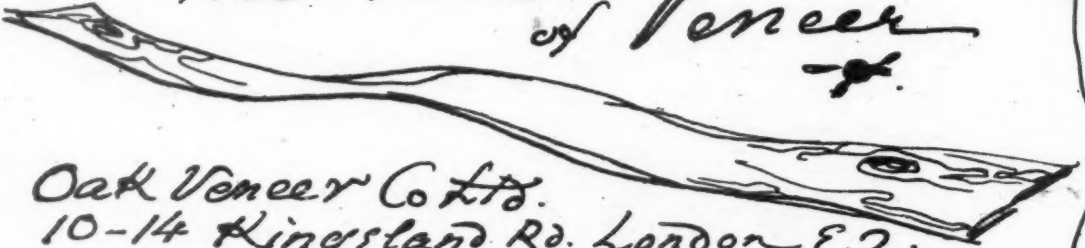
*Send for Samples and Prices*

**THE BRITISH DOLOMENT CO. (1938) LTD.**  
FLOOR SPECIALISTS

VIC. 2677 and 2734  
147, VICTORIA STREET,  
LONDON, S.W.1

Edgbaston 1178  
238/239 Monument Rd., Edgbaston,  
**BIRMINGHAM**

*All Kinds of Veneer*



*Oak Veneer Co. Ltd.*  
*10-14 Kingsland Rd. London E.2.*

SHOreditch 8544

## RUSSIAN ARCHITECTURE

by  
ARTHUR VOYCE

The first comprehensive story, in English, of the origin and development of Russian Architecture—a vital contribution to the study of one of the least known, and yet most fascinating phases of Russia's artistic life.

Price 30/- post free.

direct from:—

**JOHN CROWTHER (Publishers) LTD**  
**CROWTHER HOUSE, BOGNOR REGIS**

NEW AIR WITH  
*Vent-Axia*

A SIMPLE AND  
 ATTRACTIVE METHOD OF  
 UNIT VENTILATION

VENT-AXIA LTD., 9 VICTORIA STREET, LONDON, S.W.1. Telephone: ABBey 5168-9  
 And at GLASGOW, MANCHESTER, BIRMINGHAM, LEEDS

**MOLER**  
**PRODUCTS**  
**LIMITED**

*Hythe Works*  
**COLCHESTER**  
 Tel: Colchester 3191

**"FOSALSIL"**  
*Flue Bricks and Setting Powder*

**"FOSALSIL"**  
*Aggregate for Insulating Concrete*

**FLUE**  
**BRICKS**  
**POWDERS**  
**PARTITION**  
**BLOCKS**

If it's about **'VITROLITE'**  
 consult **CLARKS**

(FIRE-FINISHED  
 COLOURED  
 OPAQUE GLASS)

James Clark & Son, Ltd., and Eaton, Parr & Gibson Ltd., were leading specialist fixers of 'Vitrolite' before the war. Now, their resources and experience are pooled, and despite present conditions Clark-Eaton are giving exceptional service.

**JAMES CLARK & EATON LTD.**  
 Searesby House, Glasshill St., Blackfriars, London, S.E.1  
 Telephone: WATerloo 4611 (12 lines)  
 Canterbury · Bournemouth · Eastbourne · Reading



## R. CATTLE LTD.

Look forward to renewing the pleasant associations with their many friends in the Architectural profession and can assure them that the same personal service will still be gladly given.

*High Class Joinery and Precision Wood Work*

EVERITT RD. • CHASE RD. • NORTH ACTON • N.W.10

Telephone: ELGAR 5411 (4 lines)

## OUR BUILDING PRODUCTS INCLUDE

- PRESSED & FORM ROLLED METAL DOOR & WINDOW FRAMES
- SOMMERFELD JOISTS
- ROOF CONSTRUCTION & LIGHT STEEL STRUCTURES
- FENCING, RAILING & METAL GATES
- MANHOLE COVERS
- PORTABLE ROADS
- CONCRETE REINFORCEMENTS

K.J. & A.  
*Sommerfeld*  
LTD.

BUILDING COMPONENTS IN METAL

Main Office and Factory:  
TRENCH WORKS, WELLINGTON, SALOP. Tel: 831 (5 lines)

Sales Office:  
167 VICTORIA STREET, LONDON, S.W.1  
Tel: Victoria 8844 (2 lines)



# PARAGON LANTERN LIGHTS

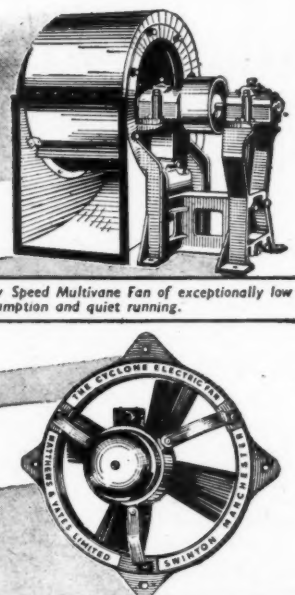
Maximum strength, minimum obscuration of light, extreme durability and attractive neatness of design are four outstanding characteristics of "Paragon" Lantern Lights and Skylights, whether of standard pattern (24 sizes), or purpose-made to suit any curb-trimming. They are manufactured outright by us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

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

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

# CYCLONE

## FANS ENSURE EFFICIENT VENTILATION



"S.S." Slow Speed Multivane Fan of exceptionally low power consumption and quiet running.

— COOLING — DRYING — FUME REMOVAL Etc  
 ★ WRITE FOR TECHNICAL BROCHURES... REF. A.J./II

**MATTHEWS & YATES LTD**  
 SWINTON (Manchester) & LONDON  
 Phones: SWinton 2273 (4 lines) London CHAncery 7823 (3 lines)

Electric Propeller Fans  
 reversible — rotation being reversed by change-over switch — highly efficient and quiet in operation.

Also at GLASGOW, LEEDS, BIRMINGHAM, CARDIFF



## 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.

None of the vacancies in these columns relates to a man between the age of 18 and 50, inclusive, or a woman between the age of 18 and 40, inclusive, unless he or she is excepted from the provisions of the Control of Engagement Order, 1947, or the vacancy is for employment excepted from the provisions of that Order.

## Public and Official Announcements

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

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

### LONDON COUNTY COUNCIL COUNTY OF LONDON PLAN-VACANCIES FOR PLANNING STAFF.

Applications are invited for positions in the following grades:—

**PLANNING OFFICER**, Grade III, up to £700 a year.

**TECHNICAL ASSISTANT**, up to £550 a year. Commencing rate according to qualifications and experience. Opportunities for competing for permanent appointment and promotion. Successful candidates will be superannuable.

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

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

Application forms obtainable from Architect to the Council, County Hall, S.E.1 (enclose stamped addressed envelope), returnable not later than 10 days from this date.

Canvassing disqualifies. (1690) 635

### DEVON COUNTY COUNCIL.

Applications are invited for the appointment of **ASSISTANT ESTIMATOR AND SURVEYOR**, in the County Architect's Department. Candidates need not necessarily hold professional qualifications, but must be experienced in the preparation of estimates for new buildings, extensions, and adaptations to existing buildings, measuring and pricing variations off drawings, and agreeing same with building contractors; and the preparation and settlement of final accounts.

Salary will be paid in accordance with Grade III of the National A.P.T. Scales (£390-£435 per annum), plus cost-of-living bonus, at present £59 16s. per annum.

Applications, stating age and experience, accompanied by not more than three recent testimonials, should be sent to the County Architect, 97, Heavitree Road, Exeter, not later than Monday, the 26th January, 1948.

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

H. A. DAVIS,

Clerk of the County Council.

The Castle, Exeter. 693  
1st January, 1948.

### FIFE COUNTY COUNCIL. PLANNING DEPARTMENT, CPUR.

A vacancy exists for a **PLANNING ASSISTANT**, preferably holding the Associate Membership of the Town Planning Institute, and having practical experience in the preparation of planning schemes. Salary £480-£525-£630, plus £60 war bonus. Medical examination under Superannuation Scheme. Age under 45. Applications in writing, stating age, qualifications and experience, to undersigned not later than 3rd February, 1948. No canvassing.

J. M. MITCHELL,

County Clerk.

County Buildings, Cupar, Fife. 705  
30th December, 1947.

### MANCHESTER MUNICIPAL SCHOOL OF ART, ALL SAINTS, MANCHESTER, 15.

Principal: JOHN M. HOLMES, Dip. Fine Art (Lond.)

### DEPARTMENT OF ARCHITECTURE.

Applications are invited for appointment as **LECTURER IN ARCHITECTURE**, the post being granted as a Senior Assistantship, with salary in accordance with the Burnham Technical Report, namely £600-£25-£750 (with additional training allowance in appropriate cases).

Candidates should be qualified to lecture in structural design and to supervise studio work in connection with the 5-year diploma course.

Particulars of appointment and application forms may be obtained (stamped, addressed foolscap envelope) from the Chief Education Officer, Education Offices, Deansgate, Manchester, 3. Completed forms should be returned to this address within 14 days from the appearance of this advertisement. 714

### NEATH AND AFAN VALLEYS JOINT PLANNING COMMITTEE.

#### PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the appointment of **TWO DRAUGHTSMEN**, at a salary in accordance with the National Scale of Salaries in the General Division, ranging from £65 to £300 per annum for males, according to age.

The appointments carry in addition a cost-of-living bonus, which at present amounts to approximately £60 per annum for males for persons over 21 years of age.

The appointments may be terminated by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the Scheme of Conditions of Service laid down by the National Joint Council for Local Authorities Administrative, Professional, Technical and Clerical Services. The successful applicants will be required to pass a medical examination.

Applicants must have knowledge and experience in land surveying and practical experience in survey work on the 1/2,500 scale, must be neat and expeditious draughtsmen and colourists.

Applications, giving full particulars of age, training qualifications and experience, together with the names of three referees, must be sent to the undersigned endorsed with the title of appointment, not later than 26th January, 1948.

T. D. WINDSOR WILLIAMS,

Clerk to the Neath and Afan Valleys

Joint Planning Committee.

8, New Street, Neath. 697

### CITY AND COUNTY OF KINGSTON-UPON- HULL.

#### CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments, on the Staff of the City Architect:—

(a) **ASSISTANT ARCHITECT**, A.P.T., Grade V (£460-£510).

(b) **ASSISTANT ARCHITECT**, A.P.T., Grade III (£390-£435).

(c) **ARCHITECTURAL ASSISTANT**, A.P.T., Grade I (£330-£375).

Plus bonus, at present £59 16s. per annum.

The appointments are subject to the Local Government Superannuation Act, 1937, terminable by one month's written notice on either side, and subject also to the successful candidates passing satisfactorily a medical examination.

Applicants should not be over 40 years of age (except in the case of applicants who are serving or have served in the Forces).

Candidates for (a) should be Associates of the Royal Institute of British Architects, and thoroughly experienced in the design and layout of, and preparation of working drawings for, Municipal Housing.

Candidates for (b) should preferably be Associates of the Royal Institute of British Architects, and have had good general architectural experience and be capable of preparing working drawings of Municipal Housing.

Candidates for (c) should have had a good training in Architecture, and preference will be given to those who have passed the Intermediate examination of the Royal Institute of British Architects.

Application forms, which can be obtained from the undersigned, should be returned complete on or before 30th January, 1948.

ANDREW RANKINE, A.R.I.B.A.,

City Architect.

Guildhall, Kingston-upon-Hull. 713

### BOROUGH OF CHELMSFORD. ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments within the scale stated, plus cost-of-living bonus, at present £59 16s.

(a) **QUANTITY SURVEYOR**, Grade V. Salary £460-£510.

(b) **ARCHITECTURAL ASSISTANT**, Grade IV (special maximum £480). Salary £420-£480.

Applicants must have the recognised qualifications and experience for the various appointments, which are subject to the provisions and conditions of service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and will be terminable by one month's notice on either side.

Applications, stating age, qualifications, present and previous appointments and general experience, together with copies of three recent testimonials, should be forwarded to reach the undersigned by not later than Tuesday, 27th January, 1948. Canvassing in any form will disqualify.

VINCENT J. WILLIS, M.I.Mun.E.,

Borough Engineer, Surveyor, and Architect.

Municipal Offices, Chelmsford. 723  
7th January, 1948.

### CROWN AGENTS FOR THE COLONIES.

Applications from qualified candidates are invited for the following post:—

**ARCHITECTURAL ASSISTANT** required by Government of Northern Rhodesia, Public Works Department, for two tours each, 2-3 years in first instance. Commencing salary according to experience, in scale £300-£600 a year, plus cost-of-living allowance of up to £168. Gratuity £15-£20 for each three months' service. Free passages and quarters. Candidates should have had experience in the general work of an architect's office, including drawing and site surveying. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/17578 on both letter and envelope. 724

### LANCASHIRE COUNTY COUNCIL.

#### COUNTY PLANNING DEPARTMENT.

Applications are invited for appointments as follows:—

(1) **ASSISTANT PLANNING OFFICER** (ARCHITECTURAL): £1,000-£1,250 a year.

(2) **SENIOR DIVISIONAL PLANNING OFFICERS**, within the salary range £900-£1,000 a year.

(3) **SENIOR PLANNING ASSISTANTS**: £700-£900, £625-£700, and £535-£600 a year.

(4) **PLANNING ASSISTANTS**: £420-£465 a year.

(5) **CHIEF ADMINISTRATIVE ASSISTANT**: £700-£800 a year.

(6) **ADMINISTRATIVE ASSISTANT**: £420-£465 a year.

(7) **DRAUGHTSMEN** or **DRAUGHTS-**

**WOMEN**: £255-£300 a year.

All appointments will be subject to the terms and conditions of service of the National Joint Council, the appropriate cost-of-living bonus (£50 male, £48 female) being payable in addition to the salaries mentioned above; and to the Local Government Superannuation Act, 1937.

Persons appointed to the posts numbered 2 above will be outstationed in the vicinity of the following towns:—Blackburn, Bury, Liverpool, Manchester, Preston and Wigan. Some of the persons appointed to those posts numbered 3, 4 and 7 will be required in the vicinity of Blackburn, Bury, Fylde, Lancaster, Manchester, Merseyside, Preston, Ulverston and Wigan. Other appointments will be to Headquarters of the County Planning Officer's staff at Preston.

Candidates for positions 1, 2, 3 and 4 should preferably possess one or more of the following qualifications:—University Degree in Civil Engineering or Architecture, A.M.T.P.I., A.M.I.C.E., A.R.I.B.A., A.M.I.Mun.E., F.A.S.I. For the appointment numbered 1 and one of the Senior Planning Assistant's posts (£700-£800) preference will be given to candidates who possess an architectural qualification. In addition they must also have a wide practical experience in the preparation and administration of planning schemes, and should have a thorough knowledge of the operation of the various Acts and Orders dealing with Town Planning.

Candidates should state whether they wish to apply for more than one appointment. In such cases applicants will be considered first for the position carrying the highest salary.

Testimonials are not required, but applicants should give the names of two persons who can testify to their character and ability.

Applications, stating age and qualifications and experience, should be received by the undersigned not later than 31st January, 1948.

R. H. ADCOCK,

Clerk of the County Council.

County Offices, Preston. 715

### BOROUGH OF MALDEN AND COOMBE.

#### BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

##### APPOINTMENT OF TWO ARCHITECTURAL ASSISTANTS (GRADE I AND GRADE II).

Applications are invited for the above-mentioned appointments, at salaries of £350-£415-£395 and £380-£415-£425 respectively, plus in each case cost-of-living bonus, at present £59 16s.

Applicants should have had good general experience, be good draughtsmen, and be engaged upon a course of training leading to a recognised architectural qualification, and in the case of the Grade II appointment preference will be given to candidates who have passed the R.I.B.A. Intermediate examination.

The appointments will be terminable by one month's notice on either side, and subject to the National Scheme of Conditions of Service.

The successful candidates will be required to pass a medical examination and to contribute under the Local Government Superannuation Act, 1937.

Applications, giving details of age, experience and present and past appointments, with designations and salaries, and enclosing copies of two recent testimonials, should be addressed to reach the undersigned not later than 24th January, 1948.

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

HAROLD E. BARRETT,

Town Clerk.

Municipal Offices, New Malden, Surrey. 716  
January, 1948.

### AMBLE URBAN DISTRICT COUNCIL.

#### APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited from suitably qualified applicants for the post of Architectural Assistant to the above Council, to work under the supervision of the Council's Surveyor, for a period of at least three years, with a view to permanency.

The duties will include designing and superintending the erection of the Council's houses and ancillary works, and the salary will be according to Grade V of the National Joint Council Scale as applicable to the Administration, Professional, and Technical Division.

Applications, stating age and experience, together with not more than three recent testimonials, should reach the undersigned on or before 12 noon on Saturday, the 31st January, 1948.

R. J. HOGG,

Clerk to the Council.

Council Chambers, Amble, Morpeth, 721  
Northumberland.

METROPOLITAN BOROUGH OF  
PADDINGTON.

## HOUSING DEPARTMENT.

## APPOINTMENTS OF CLERICAL STAFF.

Applications are invited for the following appointments to the permanent establishment of the Council, viz.:

(a) **MALE SENIOR CLERK.** This appointment is in Grades I and II of the A.P.T. Division of the National Joint Council's Scheme of Conditions of Service, viz., £350 per annum, rising by annual increments of £15 to £425 per annum (inclusive of London "weighting"), plus cost-of-living bonus (at present £59 16s. per annum).

Candidates should be shorthand writers and have considerable experience, preferably in the office of a Municipal architect, engineer or surveyor, particularly associated with extensive housing and building works under contract and by direct labour; be accustomed to the control of staff, employees' wages, and conditions of service; purchase and control of stores, tenders, contracts, and local government procedure.

(b) **SENIOR SHORTHAND-TYPIST (MALE OR FEMALE).** This appointment is in the Clerical Division of the National Joint Council's Scheme, viz., for men £335 per annum, rising by annual increments of £15 to £380 per annum (inclusive of London "weighting"), plus cost-of-living bonus (at present £59 16s. per annum); for women £268 per annum, rising by annual increments of £12 to £304 per annum (inclusive of London "weighting"), plus cost-of-living bonus (at present £48 2s. per annum).

Candidates should be competent shorthand-typists, preferably with experience in an architect's or surveyor's office, and with supervisory experience over staff dealing with registration and filing; and typing of reports, specifications, bills of quantities and accounts, including duplicating.

Forms of application and conditions of appointment can be obtained from me on receipt of a stamped, addressed, foolscap envelope. Applicants should state clearly for which appointment it is proposed to make application.

Applications, accompanied by copies of three recent testimonials, must be received by me not later than Saturday 7th February, 1948.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY,

Town Clerk.

Town Hall, Paddington, London, W.2.

7th January, 1948.

735

DORKING URBAN DISTRICT COUNCIL.  
TECHNICAL ASSISTANT-SURVEYOR'S  
DEPARTMENT.

Applications are invited for this appointment, at a salary in accordance with Grade II, A.P.T. Division, plus bonus.

Duties will include:—

(a) Examination of all plans submitted under By-laws and for Planning purposes and supervision of the works under construction.

(b) Examination of applications for Building Licences and report thereon to the Engineer and Surveyor.

(c) Supervision of any building works carried out by direct or contract labour (other than housing schemes) for the Council.

Preference will be given to applicants who have had considerable experience in a Municipal Engineer's office and who hold the Testamur of the Institute of Municipal Engineers or the R.I.B.A.

The appointment will be subject to the Local Government Superannuation Act, to the passing of a medical examination, and to the Conditions of the National Scheme of Conditions of Service. It will be terminable by one month's notice on either side. Applications, endorsed "Technical Assistant," stating age, experience and qualifications, accompanied by three recent testimonials, should be received by the undersigned not later than the 25th January, 1948.

Canvassing, either directly or indirectly, will disqualify.

H. D. JEFFRIES,

Clerk of the Council.

Pippbrook, Dorking.

725

## PONTYPRIDD URBAN DISTRICT COUNCIL.

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT, at a salary of £660 per annum—the maximum of A.P.T. Grade VII, of the National Scale of Salaries—plus cost-of-living bonus, at present £59 16s. per annum. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

Candidates must be Registered Architects and Associates of the Royal Institute of British Architects, with considerable experience of Housing and Municipal Architectural Work.

Form of application is obtainable from the Council's Architect, Mr. W. Cecil Evans, Municipal Buildings, Pontypridd, Glam., and should be obtained by intending applicants.

Applications in form required, together with copies of three recent testimonials, must be delivered, appropriately endorsed, to the undersigned, not later than Monday, the 9th day of February, 1948.

Canvassing will be a disqualification, and candidates must disclose any relationship to members of the Council.

H. LEONARD PORCHER,

Clerk of the Council.

Municipal Buildings, Pontypridd, Glam.

January, 1948.

728

METROPOLITAN BOROUGH OF  
PADDINGTON.

## HOUSING DEPARTMENT.

Applications are invited for the following appointments to the permanent establishment of the Council, viz.:

(a) **BUILDING SURVEYOR.** This appointment is in Grade V of the A.P.T. Division of the National Joint Council's Scheme of Conditions of Service, viz., £480 per annum, rising by two annual increments of £15 and one of £20 to a maximum salary of £530 per annum (inclusive of London "weighting"), plus cost-of-living bonus (at present £59 16s. per annum). The commencing salary may be fixed at a higher point within the grade, in accordance with qualifications and experience.

Applicants should hold an appropriate professional examination qualification, and must be able to carry out the survey of properties, and report upon their suitability for development for housing purposes. They must be capable of advising upon schemes for the repair, adaptation, and conversion of large houses to multi-family occupations, and must be capable of preparing plans and specifications in respect of such work.

(b) **TWO ASSISTANT QUANTITY SURVEYORS.** The appointments are in Grades III and IV of the A.P.T. Division of the National Joint Council's Scheme, the commencing salary for which is £410 per annum, rising by annual increments of £15 to a maximum of £485 per annum (inclusive of London "weighting"), plus cost-of-living bonus (as above). The appointments may be made at commencing salaries within the grades, according to the qualifications and experience of the selected candidates.

Applicants must have experience in all branches of building work, and should be familiar with every aspect of a Quantity Surveyor's duties, including preparation of estimates, bills of quantities, abstracts, contract documents and cost statistics, and be able to measure up for interim and final certificates and to settle final accounts. Preference will be given to candidates possessing an appropriate professional examination qualification.

(c) **THREE QUANTITY SURVEYORS' ASSISTANTS.** These appointments are in Grades I and II of the A.P.T. Division of the National Joint Council's Scheme, commencing at a point within the minimum of £350 per annum (rising by annual increments of £15) and the maximum of £425 per annum (inclusive of London "weighting"), plus cost-of-living bonus (as above).

The successful candidates will be expected to be capable of assisting the QUANTITY SURVEYOR in all his duties, and to have experience of those duties enumerated in connection with the appointments (b) above. Preference will be given to applicants preparing for the examination of the Royal Institute of Chartered Surveyors (Quantities Section).

The above appointments will be subject to one month's notice on either side, and the successful candidates will be required to produce a certificate of birth; pass an examination by the Council's medical examiner; and devote the whole of their time to the duties of their respective offices. The appointments will also be subject to the Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and to the provisions of the Paddington Borough Council (Superannuation and Pensions) Acts.

Applications, clearly indicating the appointment sought, should state age, qualifications and experience, and present and previous appointments with salaries; should include copies of three recent testimonials, and should be delivered to me in an envelope endorsed with the designation of the post for which application is made, not later than Monday, 2nd February, 1948.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY,

Town Clerk.

Town Hall, Paddington, London, W.2.

7th January, 1948.

734

SPALDING RURAL DISTRICT COUNCIL.  
ARCHITECT'S DEPARTMENT.

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

(a) **TECHNICAL ASSISTANT.** A.P.T. Division, Grade III, of the National Scale (£390-£435), plus cost-of-living bonus (at present £59 16s. per annum). Applicants should have a sound and practical knowledge of architectural and quantity surveying work. The main duties will be to prepare Bills of Quantities, Estimates, Valuations, and settlement of accounts in connection with the Council's Housing Schemes.

(b) **CLERK OF WORKS.** A.P.T. Division, Grade III, of the National Scale (£390-£435), plus cost-of-living bonus (at present £59 16s. per annum). The successful applicant will work under the direction of the Council's Architect and Building Surveyor, and his main duties will be to inspect housing and sewerage works in progress. He will be required to provide and maintain a car, for which a travelling allowance will be paid.

The appointments will be subject to the Local Government Superannuation Act, 1937. Applications, stating age, qualifications and experience, and earliest date on which duties could be commenced if appointed, together with copies of two recent testimonials, must reach the undersigned not later than 27th January, 1948.

L. FENNELL,

Clerk to the Council.

Council Offices, The Crescent, Spalding.

726

SURREY COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

**ASSISTANT ARCHITECT, Grade V.** Commencing salary £450, rising by annual increments of £15/£20 to a maximum of £510 per annum, plus London allowance of £20, together with cost-of-living bonus, at present £59 16s. per annum.

Preference will be given to applicants who are Associate Members of the Royal Institute of British Architects, and have had a good training and an adequate experience in the design and construction of modern buildings.

**JUNIOR ENGINEERING DRAUGHTSMAN, Grade I.**

Commencing salary £330, rising by annual increments of £15 to a maximum of £375 per annum, plus London allowance of £20, together with cost-of-living bonus, at present £59 16s. per annum.

Applicants should be neat and accurate draughtsmen, with experience in the layout and design of heating, ventilating, hot water and electrical services of large buildings, and should be in possession of the National or Higher National Certificate in Mechanical Engineering. The appointments will be subject to the provisions of the Local Government Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 31st January, 1948.

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

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

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

DUDLEY AUKLAND,

Clerk of the Council.

County Hall, Kingston-upon-Thames.

717

COUNTY BOROUGH OF EAST HAM.  
BOROUGH ENGINEER'S DEPARTMENT.

Vacancies exist in the following additional permanent positions:—

**SENIOR ARCHITECTURAL ASSISTANT.**

Grade A.P.T. VI, salary £555-£620.

**ARCHITECTURAL ASSISTANT.** Grade

A.P.T. IV, salary £440-£485.

**ARCHITECTURAL ASSISTANT.** Grade

A.P.T. III, salary £410-£455.

**JUNIOR ARCHITECTURAL ASSISTANT.**

Grade A.P.T. 1, £350-£395.

**SENIOR ASSISTANT PLANNING OFFICER.**

Grade A.P.T. V, salary £480-£530.

The above salaries are inclusive of the London allowance. Cost-of-living bonus, at present £59 16s. per annum for men over 21, will be paid in addition. Salaries in excess of the minima of the grades may be paid according to the qualifications and experience of successful candidates.

The Council have in course of preparation a large and varied programme of interesting works, which it is anticipated will not be affected by the proposed reductions in capital expenditure. Housing accommodation is not provided, but the Council will be prepared to consider applications for subsistence allowances in appropriate cases from persons appointed who may be unable to obtain suitable accommodation.

Full particulars of the duties, terms and conditions of appointment, and form of application (which must be returned by Monday, the 2nd February, 1948) may be obtained from the undersigned.

Canvassing in any form will disqualify.

H. A. EDWARDS,

Town Clerk.

Town Hall, East Ham, E.5.

January, 1948.

729

HERTFORDSHIRE COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.

ARCHITECTS AND QUANTITY SURVEYORS.

Applications are invited from members of the appropriate Institutions for the following appointments:—

**CHIEF ASSISTANT ARCHITECTS.** Salary £750-£850, plus cost-of-living bonus, at present £59 16s. p.a.

**SENIOR ASSISTANT ARCHITECTS (Grade VII).** Salary £575-£650, plus cost-of-living bonus, at present £59 16s. p.a.

**ASSISTANT ARCHITECTS (Grade V).** Salary £460-£510, plus cost-of-living bonus, at present £59 16s. p.a.

**ASSISTANT ARCHITECTS (Grade II).** Salary £360-£405, plus cost-of-living bonus, at present £59 16s. p.a.

**FIVE QUANTITY SURVEYORS (Grade VI).** Salary £535-£600, plus cost-of-living bonus, at present £59 16s. p.a.

**FOUR QUANTITY SURVEYORS (Grade V).** Salary £460-£510, plus cost-of-living bonus, at present £59 16s. p.a.

**ONE QUANTITY SURVEYOR (Grade IV).** Salary £420-£465, plus cost-of-living bonus, at present £59 16s. p.a.

Applicants need not have had previous Local Government experience.

Applications, together with three references, should be addressed to the Clerk of the County Council, County Hall, Hertford, to be received not later than first post on 24th January, 1948. 759



# DENBIGH COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

The above County Council invite applications for the under-mentioned appointments, in the County Architect's Department, viz.:-

## (a) HEATING ENGINEER. Grade A.P.T., VI. Salary, £535-£600 per annum.

Applicants must be fully experienced in the design of and preparation of drawings, specifications, and estimates for modern hot water heating, ventilating and hot water supply schemes, for all types of Public Buildings, and should be Associate Members of the Institute of Heating and Ventilating Engineers.

## (b) ELECTRICAL ENGINEER. Grade A.P.T.V. Salary, £460-£510 per annum.

Applicants must be fully experienced in the design of and preparation of drawings, specifications and estimates for modern electrical installations, for all types of Public Buildings, and should be Members of the Institute of Electrical Engineers.

The salaries specified for the respective appointments are subject to the addition of temporary cost-of-living bonus, at present £59 16s. per annum, and the appointments will be subject to the provisions of the Local Government Superannuation Act, 1937.

The successful applicants will be required to pass a medical examination, and to reside in such place in the County as the County Council may direct.

Applications, giving age, qualifications, and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to me, the undersigned, endorsed with a description of the post applied for, by not later than the 31st day of January, 1948.

WILLIAM JONES,

Clerk of the County Council.

County Offices, Ruthin. 719

# CITY OF BATH.

## CITY ENGINEER'S DEPARTMENT.

(1) Applications are invited for the following appointment, on the permanent staff of the City Engineer:-

## (2) UNQUALIFIED JUNIOR ARCHITECTURAL ASSISTANT (Grade Misc. I). £255-£300.

(3) Cost-of-living bonus is payable in addition to the salary stated, at present £59 16s. per annum at 21 years of age. Under 21, according to age.

(4) The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

(5) Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, should be sent to the City Engineer, Guildhall, Bath, not later than 31st January, 1948.

J. BASIL OGDEN,

Town Clerk.

Guildhall, Bath.

7th January, 1948. 758

# ROYAL TECHNICAL COLLEGE, SALFORD.

Principal: P. F. E. VENABLES, Ph.D., B.Sc., F.R.I.C.

## APPOINTMENT OF HEAD OF BUILDING AND CIVIL ENGINEERING DEPARTMENT.

Applications are invited for the post of Head of the Building and Civil Engineering Department of the College. Duties to commence as soon as possible. The salary is in accordance with Grade III for Heads of Departments under the Burnham Technical Report, £900×£25 to £1,000 per annum, plus approved training allowance. (The attention of candidates is drawn to the proposed new Burnham Scale of £950×£25 to £1,050, plus other allowances, which if accepted will apply as from 1st April, 1948).

Candidates should possess an Honours Degree, or equivalent, and should have had considerable industrial or professional experience in Building, Structural, or Civil Engineering. Teaching of advanced technical courses, experience in the administration of a department of a Technical College, and some research experience, will be desirable qualifications.

Forms of application, together with further particulars of the appointment, may be obtained from the Principal, Royal Technical College, Salford, 5, to whom they should be returned within 14 days of the appearance of this notice.

H. H. TOMSON, Clerk to the Governors. 757

# COUNTY OF WARWICK. ARCHITECT'S DEPARTMENT.

Applications are invited for appointments on the established staff as follows:-

ASSISTANT ARCHITECTS, to be Members of the R.I.B.A. Salary £420×2 of £20 to £460 per annum.

JUNIOR ASSISTANT ARCHITECTS. Salary £36×3 of £15 to £410 per annum.

ARCHITECTURAL ASSISTANTS. Salary £315×3 of £15 to £360 per annum.

Cost-of-living bonus, at present £59 16s. per annum, will be payable in respect of each appointment.

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

Application forms can be obtained from C. H. Ekins, F.R.I.B.A., A.R.I.C.S., County Architect, Shire Hall, Warwick, and must be returned to him within 14 days of the appearance of this advertisement.

L. EDGAR STEPHENS,

Clerk of the Council.

Shire Hall, Warwick. 755

# COUNTY BOROUGH OF HUDDERSFIELD.

Applications are invited for the following appointments, in the Borough Architect's Department:-

(a) SENIOR TOWN PLANNING ASSISTANT (Grades VI-VII). £535-£650. Candidates must have had considerable experience in all aspects of statutory planning, interim development control and planning procedure in general, and should be Associate Members of the Town Planning Institute, additional qualifications in Architecture or Engineering or Surveying will be an advantage.

(b) TOWN PLANNING ASSISTANT (Grade V). £460-£510. Preference will be given to candidates who are Associate Members of the Town Planning Institute and Planning Office experience is essential.

(c) TOWN PLANNING ASSISTANT (Grade I). £330-£375. Applicants should have had interim development experience in a Planning Office, and preference will be given to candidates who are Students of the Town Planning Institute.

For each of the posts, in addition to the salary, a bonus, at present £59 16s. per annum, will be payable.

Houses now nearing completion are being reserved, and will be made available for renting by the successful candidates.

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

Applications, appropriately endorsed, together with not more than three recent testimonials, should be delivered to the Borough Architect, High Street Buildings, Huddersfield, not later than the 31st January, 1948.

Canvassing of members of the Council, either directly or indirectly, will be a disqualification.

HARRY BANN,

Town Clerk.

The Town Hall, Huddersfield. 754

# COUNTY BOROUGH OF HUDDERSFIELD.

Applications are invited for the following appointments, in the Borough Architect's Department:-

(a) ASSISTANT QUANTITY SURVEYOR (Grade V). Salary £460-£510.

(b) ASSISTANT QUANTITY SURVEYOR (Grade IV). Salary £420-£465.

For each of the posts, in addition to the salary, a bonus, at present £59 16s. per annum, will be payable.

Houses now nearing completion are being reserved, and will be made available for renting by the successful candidates.

Applicants must have experience in the preparation of bills of quantities, specifications, estimates, and the settlement of final accounts, and preference will be given to Associates of the Royal Institute of Chartered Surveyors.

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

Applications, endorsed "Assistant Quantity Surveyor, Grade V" (or "Grade IV"), together with not more than three recent testimonials, should be delivered to the Borough Architect, High Street Buildings, Huddersfield, not later than the 31st January, 1948.

Canvassing of members of the Council, either directly or indirectly, will be a disqualification.

HARRY BANN,

Town Clerk.

The Town Hall, Huddersfield. 753

# LLWCHWR URBAN DISTRICT COUNCIL.

## APPOINTMENT OF ARCHITECT.

Applications are invited from duly qualified persons for the whole-time appointment of Architect to the Council at a salary in accordance with Grade A.P.T. VII, of the National Scheme of Conditions of Service (£275 to £650 per annum), plus cost-of-living bonus (at present 59 16s. per annum). The person appointed will be in charge of the Architect's Department, which is now being established by the Council, and his duties will be such as the Council may from time to time decide.

Applicants must be Registered Architects, and have had good experience on general architectural work, including Local Authority housing. The possession of an appropriate professional qualification will also be of advantage.

The appointment will be terminated by three months' notice in writing on either side, and subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. The Council will also require the successful applicant to reside in the urban district.

Subject to the foregoing, the conditions of appointment will be those contained in the National Scheme of Conditions of Service.

Applications, stating age, qualifications and experience, must be delivered, with copies of two recent testimonials, to the undersigned, not later than 3rd February, 1948.

Dated this 9th day of January, 1948.

E. A. GRIFFITHS,

Clerk of the Council.

Council Offices, West Street, Gorseinon, Swansea. 752

# MINISTRY OF TOWN AND COUNTRY PLANNING.

The Civil Service Commissioners announce vacancies for Senior Regional Planning Officers, Regional Planning Officers, Senior Planning Inspectors, Assistant Regional Planning Officers, Planning Inspectors and Planning Assistants, Grade I, on the permanent establishment of the Ministry of Town and Country Planning, to be filled by competitive interview.

The inclusive salary scales for men, in London, are:-

SENIOR REGIONAL PLANNING OFFICERS: £1,320×£50-£1,520.

REGIONAL PLANNING OFFICERS AND SENIOR PLANNING INSPECTORS: £1,100×£35-£1,320.

ASSISTANT REGIONAL PLANNING OFFICERS AND PLANNING INSPECTORS: £850×£30-£1,050.

PLANNING ASSISTANTS (Grade I): £250×£25-£300.

The salaries of women and of officers appointed to posts in the Provinces will be somewhat lower. The posts are pensionable under the Superannuation Acts.

Candidates must have professional qualifications in architecture, civil engineering, Municipal and county engineering, estate surveying, or land agency. They must also have had practical experience in town and country planning, and preference will be given to Corporate Members of the Town Planning Institute.

Candidates for appointment as Senior Regional Planning Officer must be at least 35 years of age on the 1st January, 1948; for appointment as Senior Planning Inspector, Regional Planning Officer, Assistant Regional Planning Officer, and Planning Inspector they must be at least 30 years of age on the 1st January, 1948; and for the posts of Planning Assistant, Grade I, at least 28 and under 40 years of age on the 1st January, 1948.

Further particulars, with full information on the duties of the posts, and application forms, may be obtained from the Secretary, Ministry of Town and Country Planning, 32, St. James's Square, London, S.W.1; completed applications must be returned not later than 28th February, 1948. 727

# CITY OF PETERBOROUGH.

## APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

### CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the established appointment of Chief Architectural Assistant, in the City Engineer and Surveyor's Department, at a salary in accordance with Grade VI of the A.P.T. Division of the National Scale of Salaries, i.e., commencing at £535 and rising by annual increments £20, £30, £25 to £600 per annum, plus a cost-of-living bonus, at present £59 16s. per annum. At the moment £1 per week is paid in respect of the use of this officer's private car for official purposes.

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

Applicants, who should not be more than 40 years of age, should be Registered Architects, preferably Associates R.I.B.A., and the successful applicant will be responsible to the City Engineer for administering, with the minimum of supervision, the Architectural Section of the Department consisting of architects, quantity surveyors, clerks of works, etc. In addition, candidates must be good designers, familiar with modern practice in relation to housing, schools and general Municipal work.

Applications, stating age, details of qualifications, and experience, together with copies of three recent testimonials, should be delivered to the undersigned in a sealed envelope, and endorsed "Chief Architectural Assistant," not later than 31st January, 1948. Canvassing, or directly or indirectly, will be a disqualification, and candidates must disclose whether they are related to any member or senior officer of the Council.

ARTHUR J. REEVES,

Town Clerk.

Town Hall, Peterborough.

January, 1948. 743

# CITY OF LEICESTER EDUCATION COMMITTEE.

## COLLEGE OF ART.

### SCHOOLS OF ARCHITECTURE AND BUILDING.

Applications are invited for the post of Full-time TEACHER OF QUANTITY SURVEYING AND ESTIMATING. The post is to be a Senior Assistantship under the Burnham Scale (at present £600-£750; the scale may be revised from April, 1948, under recommendations of the Burnham Committee).

Ability to teach Builders' Quantities, Costing and Estimating up to Final A and B City and Guide Stages is essential; candidates should state subsidiary subjects in which they have had teaching experience, or are qualified to teach. Duties are to commence as soon as possible. Applications (no forms) giving full particulars of training, qualifications, industrial and/or teaching experience, with copies of recent testimonials, should be forwarded to the Registrar, College of Art, The Newarke, Leicester, by 14th February, 1948.

ELFED THOMAS, Director of Education.

Education Department, Newarke Street,

Leicester. 744

## Partnerships and Financial

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

**CHARTERED CIVIL ENGINEER** (33) desires appointment with established Architect in London or Home Counties area, with a future view to Partnership, at present in own small practice in London; over 10 years' experience in office and constructional work, in a responsible position, also experience in dilapidations, surveys, etc.; ample initiative and good connections. Apply Box 751.

## Tenders

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

### BOROUGH OF SALE. SUPPLY OF CHAIRS.

Tenders are invited for the supply of 300 Chairs of the "Stacking" or "Nesting" variety, for use in the Town Hall Building.

Sealed Tenders, in plain envelopes, endorsed "Chairs," are to be delivered to the undersigned not later than 12 noon on 6th February, 1948.

The Corporation do not bind themselves to accept the lowest or any tender.

BERTRAM FINCH,  
Town Clerk.

Town Hall, Sale.

## Architectural Appointments Vacant

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

**SENIOR QUANTITY SURVEYING ASSISTANTS** are required to fill vacancies for permanent and pensionable positions in the Head Office of the Premises Department, Ind Coope & Allsopp, Ltd., Burton-on-Trent. Applicants should be either Associates of the Royal Institute of Chartered Surveyors or other recognised Association, but consideration will be given to students nearing the required standard for the final examination; they should have a good general experience in taking off, abstracting, billing, specifications, writing, and checking accounts. Experience in connection with licensed premises and breweries would be an added asset, but is not insisted upon. They will also be required to pass a medical examination and contribute to the generous Staff Superannuation Scheme in force. A five-day working week is in operation, and amenities offered include excellent canteen facilities and sportsground. Commencing salaries will be up to £500 p.a., plus a cost-of-living bonus (at present £67 10s. on £500), according to qualifications and experience. Particulars of training, experience, past and present appointments, and qualifications, together with testimonials, and stating age, date available, and whether married or single, to be sent to the Manager, Premises Department, Ind Coope & Allsopp, Ltd., 149, Station Street, Burton-on-Trent. While no housing accommodation can be immediately offered to successful applicants, the Company will assist as far as possible. 655

**DRAUGHTSMAN**, with Architectural training, for Exhibition Designing and Detailing. David Edsall & Co., 30, Stannary Street, Kennington, S.E.11. Reliance 1666. 649

**SEELY & PAGET, F.L.R.I.B.A.**, require fully qualified ASSISTANT; must be experienced working drawings and specifications, with sound knowledge of all normal methods of construction; licensed work now in hand includes many important Ecclesiastical commissions. Apply by letter, giving usual details, to 41, Cloth Fair, E.C.1. 648

**FIRST-CLASS** qualified ARCHITECTURAL ASSISTANTS wanted, for busy and interesting practice; good scope for individuality. Apply, stating experience and salary required, to Newton, Leach & Booker, Chartered Architects, 25, Kennedy Street, Manchester, 2. Tel.: Cen. 1125. 692

**SENIOR** qualified ARCHITECTURAL ASSISTANT required; experience in industrial and varied practice essential, and must be able to undertake all work from sketch designs to completion. Write, stating full experience and salary required, etc., to G. Alan Burnett, A.R.I.B.A., 75, Albion Street, Leeds, 1. 687

**JOHNSON & CRABTREE, F.F.R.I.B.A.**, 20, Priory Place, Doncaster, require ASSISTANT ARCHITECTS, for interesting work on industrial architecture. Write, with particulars of age, experience, and salary required, or telephone Doncaster 3445. 685

**SENIOR ASSISTANT** required, with interest in contemporary design; office near Hampton Court (4 hr. Waterloo). Apply Eric Lyons & Townsend, Mill House, Bridge Road, East Molesey. 698

**INTERNATIONAL CORRESPONDENCE SCHOOLS** require for immediate full-time employment, a JUNIOR ARCHITECTURAL ASSISTANT, qualified by examination. Write or call, stating age, experience, and salary required, to Director of Instruction, International Correspondence Schools, Kingsway, W.C.2. 641

**ASSISTANT** required by Westminster Architects; good draughtsman, knowledge of building construction and simple surveying; varied work, including London housing scheme and country practice; state salary required. Box 723.

**JUNIOR ASSISTANT** required for W.C.2 office; must be neat and accurate draughtsman in ink or pencil, and capable of measuring up. Apply, giving full particulars and salary required. Box 666.

**ARCHITECTURAL TRACER** required, male or female; able to assist if necessary in preparing working drawings from sketch designs. Apply in writing, Sir William Crawford & Partners, Ltd., 233, High Holborn, W.C.1. 741

**ARCHITECTURAL ASSISTANT**, in South-West London office; sound knowledge of construction and design experience necessary; work mainly concerned with high-class building projects abroad. Write, giving particulars of age, experience, salary, etc., to Box 740.

**WANTED**, for Railway Civil Engineer's Office in Edinburgh, two Temporary ARCHITECTURAL ASSISTANTS; capable of preparing working drawings from rough sketches, estimating and supervising works in progress; salary according to qualifications and experience. Apply Box 760.

## Architectural Appointments Wanted

**ARCHITECTURAL ASSISTANTS**. — Two Assistants in South, desiring change, require separate positions in Nottingham-Leicester area; Inter. final standard. Box 16.

**YOUNG** qualified ARCHITECT, at present Chief Architectural Assistant to a Local Authority, desires change. Box 18.

**ARCHITECT** (41), ex-Service, wide experience (15 years); ready to join progressive office in responsible position. Write Box 19.

**A.R.I.B.A., A.M.T.P.I.**, with extensive experience, requires Senior position, with good prospects. Box 21.

**QUALIFIED ARCHITECT** (age 36) desires change; used to office administration and controlling staff; experienced in layouts, housing, flats, factories, schools, drill halls and shops; specialised in surveying and levelling; good knowledge of quantities; Scotland or North-East England preferred. Box 20.

## Other Appointments Vacant

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

**SECRETARY** wanted for Architects' St. John's Wood Office (N.W.8); essential qualifications: patience, tact, reliability, pleasant personality, capacity to assume responsibility and work on own initiative, shorthand, touch-typing; desirable qualifications, previous experience in similar position, knowledge of building trade terms and usages, also simplest type of book-keeping; hours 9.5.30 alternative Saturday mornings; state salary required. Box 674.

**AN ESTIMATING and COSTING SURVEYOR or ENGINEER** is required by old-established Civil Engineering and Building Contractors in the Essex/London area, engaged mainly on factory construction, extension and maintenance; experience is required in estimating for Civil Engineering, as well as building work; but management of the contracts is not one of the duties; salary about £900, depending on experience and ability; the appointment is pensionable, and assistance will be given, if required, in obtaining a house. Applicants should write, giving details of their age, education, qualifications and experience, to Box 2044, c/o Charles Barker & Sons, Ltd., 31, Budge Row, London, E.C.4. 720

**ESTIMATING SURVEYOR**; accustomed to preparation of labour, materials, and progress schedules, negotiation of technical details with local authorities, and assisting preparation of estimates; give details of experience and state salary required. Box 736.

**ESTIMATOR-SURVEYOR**; capable of estimating for Building and Civil Engineering contracts of any magnitude, from quantities or direct from drawings; conversant with current rates and conditions, preparation of progress and materials schedules, and able to work on own initiative subject only to finalisation by Chief Surveyor; preference given to a man with continuous contracting experience; give details of experience, and state salary required. Box 737.

**EXPERIENCED SECRETARY** wanted, for London architect's office. Phone CHA. 1795. Box 747.

## Services Offered

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

**CAPABLE ASSISTANT** undertakes perspectives, interiors and architectural renderings. Box 691.

**EXPERT TYPIST** requires work at home; efficient and prompt service. Apply Box 718.

**PROFESSIONAL ASSISTANCE** offered by experienced Architect; sketches, designs, perspectives, models, interiors, etc. execution perfect; terms by arrangement; own London office. Box 722.

**FREE-LANCE DRAUGHTING SERVICE FOR ARCHITECTS**.—Any kind of drawing or tracing executed; surveys in London or home counties; perspectives, etc.; neat, quick and accurate work; personal service, and low fees. Please write Box 738.

**SENIOR DRAUGHTSMAN** would like to contact Architects, Surveyors, etc., with the view to carrying out spare-time work immediately or in the near future; expert knowledge of industrial and domestic work; advertiser would be prepared to carry out complete land or structural surveys, fully detailed, levelled, etc., ready for future schemes; available daily in London area; very moderate fees. Write Box 746.

**SENIOR ARCHITECTURAL ASSISTANT** offers part-time Services to Birmingham Architects. Box 745.

**DRAUGHTSMAN**, with 25 years' experience, also on Continent, specialised for interior decorating, looking for part- or full-time job. Box 761.

## For Sale

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

**FOR SALE**.—Studio: Lease for Sale (3-year term); Chancery Lane area; 350 sq. ft., fitted with telephone and gas fire; excellent light; rent, £3 per week. Box 748.

**FOR SALE**.—8 ft. Draughtsman's Desk, with large plan drawers, £30; Padded Oak Stool, 30s. 6d.; Double Ped. Oak Desk (top needs veneering), £12; Padded Oak Swivel Chair, £3; Single Ped. Oak Typist's Desk, £8; Semi-Arm Bentwood Chair, 30s.; two Tables, 4 by 2 ft. (one top damaged), 70s. pair. Phone Hillside 7293. Box 750.

**FOR SALE**.—Ex-Student has for disposal superior Set Engineering Drawing Instruments, with Trammel Blocks, Set Squares, French Curve, Drawing Board, and Tee-Square; all nearly new. Phone Caterham 3517. Box 756.

## Miscellaneous

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

**A. J. BINNS, LTD.**, Specialists in the supply and fixing of all types of fencing, guard rail, factory partitions and gates. Harvest Works 99-107, St. Pauls Road, N.1. Canonbury 2061.

**NEWER HEAT DISPLAY**, Building Centre Conduit Street, W.1. New solid-fuel appliances. New heating methods. New standard of home comfort. Open 10.5. Organised by the Coal Utilisation Joint Council. 724

**FENCING FOR ALL PURPOSES**.—Supplied and erected; established 100 years. Parker, Winder & Achurch, Ltd., 20, Broad Street, Birmingham, 1.

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

**AUTHORS**.—MSS promptly considered for book publication—particularly Poems, and book-length Stories for Boys and Girls. Stockwell, Ltd., Elms Court, Ilfracombe. 721

**GLASGOW**.—Wanted by Architect, returning to private practice, small Office Accommodation, with telephone; would consider sharing. Box 739.

**ARCHITECT** urgently requires 300-500 sq. ft. of Office Accommodation in the Central London area. Reply Box 742.

**SOUTH AFRICA**.—The Builder's paradise; liner and rail, £100; no waiting. Write O.P.S.A. Club, Veyran, Cornwall, stating desired date. 749

## Educational Announcements

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

**R.I.B.A. and T.P. INST. EXAMS**. Private Courses of Tuition by correspondence arranged by Mr. L. Stuart Stanley, M.A., F.R.I.B.A., M.T.P.I. Tutor, 212, Euston Road, N.W.1. Tel.: EUS. 776



**QUALIFYING EXAMINATIONS**  
(INTER and FINAL)  
of  
**R.I.B.A.**  
COURSES OF INSTRUCTION BY CORRESPONDENCE AND PERSONAL TUITION IN STUDIO  
**C. W. BOX**  
F.R.I.B.A., A.I.Struct.E., M.R.San.I.  
115, GOWER STREET, W.C.1  
Telephone: EUS. 3906

**CORRESPONDENCE COURSES**  
for EXAMINATIONS OF THE TOWN  
PLANNING INSTITUTE AND JOINT  
EXAMINATION BOARD

By GORDON PAYNE, O.B.E., F.R.I.C.S.,  
M.T.P.I., M.Inst.Mun.E., F.R.G.S.

19, CLARENCE STREET, GLOUCESTER  
Telephone: GLOS. 4471/2

**R I B A** INTER, FINAL &  
SPECIAL FINAL.

Postal Courses in all subjects of the examination syllabus (including Professional Practice) are conducted by  
**THE ELLIS SCHOOL OF BUILDING**  
Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.  
10, ALBANY HOUSE, WORCESTER.

**SOUND INSTRUCTION**  
by Postal Method

is offered by the world's largest and  
greatest correspondence school in the  
following subjects:

Architecture  
Architectural Drawing  
and Designing  
Building Contracting  
Building Construction,  
Interior Work and  
Quantities  
Building Specifications  
and Quantities  
Quantity Surveying  
Structural Steelwork  
Civil Engineering

Surveying and Mapping  
Municipal Engineering  
Plan and Map  
Draughtsmanship  
Structural Engineering  
Concrete Engineering  
Structural Drawing  
Construction Draughts  
Sanitary Engineering  
Air Conditioning  
Heating and Ventilation

**Special Courses for the Diplomas**  
of the R.I.B.A., I.O.B., R.I.C.S., I.C.E., I.M.E.  
I.Struc.E., R.S.I., I.S.E., etc.

(Examination students are coached till successful)  
**Write to-day for Syllabus of our Courses**  
in any of the subjects mentioned above

**INTERNATIONAL**  
**CORRESPONDENCE SCHOOLS, LTD.**  
Dept. 141, International Buildings  
KINGSWAY, LONDON, W.C.2



**WALL AND FLOOR TILING BY**  
**TILYARD TILES LTD**

Merchants and Contractors  
(Successors to W. H. Twigg & Son,  
Late 195, Upper Thames Street, E.C.4)

Members of  
**L.M.B.A. & N.M.T.F.A.**

**TILE SURROUNDS**  
To Architects' Specifications

182, EARL'S COURT ROAD, S.W.5  
Phone: FROBISHER 3479  
SHOWROOMS:  
1-5, CHILDS PLACE, EARL'S COURT

**STEELWORK BY**  
**R.W. SHARMAN LTD.**

SWAN WORKS, HANWORTH, MIDDY

'Phones: Feltham 3007. Sunbury 3210. 'Grams: 'Sharmar,' Feltham

**FIBROUS PLASTERWORK OF**  
**EVERY DESCRIPTION**

**ALLIED GUILDS**  
King Edward Square,  
SUTTON COLDFIELD. Tel.: Sut 3809

**PRECAST REINFORCED**  
**CONCRETE**

Panel Fencing, Posts, Spurs Edging, Electric Cable  
Joint Boxes, Sectional 15 cwt. Coal Bunkers,  
Domestic & Industrial Metal & Timber Gates.

**CHAIN LINK FENCING**  
—wide range and good delivery—  
**MOFFATT, WHITEHART & Co Ltd**  
"Percy House," 796, High Rd., Tottenham,  
London, N.17. TOT: 6011 (4 lines)

**HAND FORGED**  
**WROUGHT IRON WORK**  
to Architects designs  
by highly skilled craftsmen  
**IMPROVED DESIGNS LTD.**  
LEAMINGTON SPA.

**Pressed Steel Tanks by**  
**BRAITHWAITE**  
& CO ENGINEERS LTD

KINGS HOUSE, HAYMARKET, S.W.1  
Telephone: WH 1144/5. Telegrams: Bromvik-Phone

**AMERICAN**  
**ARCHITECTURE**

"AMERICAN BUILDER" .. per year 50s. 0d.  
Monthly .. ..  
"THE ARCHITECTURAL FORUM" .. 60s. 0d.  
Monthly .. ..  
"THE ARCHITECTURAL RECORD" .. 32s. 6d.  
Monthly .. ..  
"PROGRESSIVE ARCHITECTURE"  
(formerly "PENCIL POINTS") .. 30s. 0d.  
Monthly .. ..

by annual subscription through  
**STOBART & SON LTD**  
9, Victoria Street, London, S.W.1

**Wm. OLIVER & SONS, Ltd.**  
(of Bunhill Row), 12/13 Bow Lane, E.C.4  
City 3335  
14, Norman Rd, Northfield, Birmingham 31.  
Priory 1762.

HOME GROWN { **HARDWOODS**  
**SOFTWOODS**

Quota Merchants for  
**NATIONAL STOCK**

**SPECIFY**  
**ELLISON** for  
**HIGH VOLTAGE SWITCHGEAR,**  
**CIRCUIT BREAKERS** of up to 4000 amps,  
and **STARTERS** for  
Electric Motors of up to 1000 H.P.  
Made by GEORGE ELLISON LIMITED, Perry Barr, Birmingham. 22B

**FIRE**  
**PROTECTION**

See Information  
Sheet No. 78. Copies  
may be obtained from:

**CLARKE & VIGILANT**  
**SPRINKLERS LTD.**

Atkinson St. Deansgate, Manchester, 3.  
Phone: Deansgate 2727. 8

and  
10/13, Bedford St., Strand, W.C.2  
Phone: Temple Bar 8314/5.



**DOORS**  
**WINDOWS**  
**STAIRS**

**SPECIALISING IN WOODWORK TO ARCHITECTS' DESIGNS**

**THE MIDLAND JOINERY WORKS LTD.**

'PHONE: 3686 (8 lines) **BURTON - ON - TRENT.** **GRAMS: MIDJOIN**



A LIST OF LICENSED PRODUCERS OF **EJMA** JOINERY  
CAN BE OBTAINED FROM THE SECRETARY AT:—

SACKVILLE HOUSE, 40, PICCADILLY, LONDON, W.1 Telephone REGENT 4448

## Alphabetical Index to Advertisers

Allied Guilds.....	PAGE xcl	Etchells, Congdon & Muir, Ltd. ....	PAGE lxxiv	Muir, R. L. (Construction) Co., Ltd. ....	PAGE lxi
Anderson Construction Co., Ltd. ....	vii	Excel Asphalt Co., Ltd. ....	lxxvi	Mullen & Lumsden, Ltd. ....	i
Anderson, D., & Son, Ltd. ....	lxxiv	Ezee Kitchens, Ltd. ....	lxxvii	McAlpine, Sir Robt. & Sons ....	xlv
Andrews Bros. (Bristol), Ltd. ....	xviii	Fairhead, Allen, & Sons, Ltd. ....	xxi	National Savings Committee ....	iv
Austin Hall Group of Companies, The ...	lxxviii	Falkus Bros., Ltd. ....	lxi	Negus, W. & M., Ltd. ....	l
Barclays Bank Ltd. ....	lxxvi	Ferguson Edwards, Ltd. ....	lxi	Oak Veneer Co., Ltd. ....	lxxv
Bassett-Lowke, Ltd. ....	lxxvii	Ferodo, Ltd. ....	lxi	Odoni, Alfred A., & Co., Ltd. ....	lxxx
Bate, Jabez, & Co., Ltd. ....	lxxvii	Freeman, Joseph, Sons & Co., Ltd. ....	viii	Oliver, Wm., & Sons, Ltd. ....	xcl
Bath Cabinet Makers & Artcraft, Ltd....	lxxvii	French, Thos., & Sons, Ltd. ....	lxi	Paragon Glazing Co., Ltd. ....	lxxvii
Bayliss Kenton Installations, Ltd. ....	lxxvii	Gaskell & Chambers, Ltd. ....	lxi	Payne, Gordon E. ....	xcl
Birmid Rain-Water Goods.....	lxxvii	Gaze, W. H., & Sons, Ltd. ....	lxi	Philips Electrical, Ltd. ....	lxxv
Bolton Gate Co., Ltd. ....	lxxvii	General Cable Manufacturing Co., Ltd....	lxi	Pilkington Brothers, Ltd. ....	lxxv
Boulton & Paul, Ltd. ....	lxxvii	Gerrard, J., & Sons, Ltd. ....	lxi	Pollard, E., & Co., Ltd. ....	lxxv
Box, C. W., F.R.I.B.A. ....	xcl	Girling's Ferro-Concrete Co., Ltd. ....	lxxvi	Prodorite, Ltd. ....	lxxvii
Braithwaite & Co., Engineers, Ltd. ....	xcl	Griggs & Son, Ltd. ....	lxxvii	Roberts, A., & Co., Ltd. ....	xvi
Bratt Colbran, Ltd. ....	lxxvii	Guest, Keen & Nettlefolds, Ltd. ....	lxxvii	Ronuk, Ltd. ....	lxxvii
Briggs, William, & Sons, Ltd. ....	lxxvii	Hall, J. & E., Ltd. ....	front cover	Sankey, Joseph & Sons, Ltd. ....	lxxvii
British Dolomene Co. (1938), Ltd. ....	lxxvii	Hall, Matthew, & Co., Ltd. ....	lxxvii	Scaffolding (Great Britain), Ltd. ....	lxxvii
British Gas Council ....	lxxvii	Harper, John, & Co., Ltd. ....	ii	Sealcrete Products, Ltd. ....	lxxvii
Bryant, C. & Son, Ltd. ....	lxxvii	Harvey, G. A., & Co. (London), Ltd. ...	iii	Sharmad, R. W., Ltd. ....	lxxvii
Bryce White & Co., Ltd. ....	lxxvii	Henderson, P. C., Ltd. ....	lxxvii	Shires & Co. (London), Ltd. ....	lxxvii
Bull Motors (E. R. & F. Turner), Ltd....	lxxvii	Higgs & Hill, Ltd. ....	xli	Simplex Electric Co., Ltd. ....	lxxvii
Burgess Products, Ltd. ....	lxxvii	Holliday & Greenwood, Ltd. ....	lxxvii	Smith, E. H. (Croydon), Ltd. ....	lxxvii
Cable Makers' Association ....	lxxvii	Holloway Bros. (London), Ltd. ....	lxxvii	Smiths' English Clocks, Ltd. ....	lxxvii
Camelion Iron Co., Ltd. ....	lxxvii	Holophane, Ltd. ....	lxxvii	Smith's Fireproof Floors, Ltd. ....	lxxvii
Cargo Fleet Iron Co., Ltd. ....	lxxvii	Hope, Henry, & Sons, Ltd. ....	lxxvii	Soil Mechanics, Ltd. ....	lxxvii
Carlisle Electric Manufacturing Co., Ltd.	lxxvii	Hurseal, Ltd. ....	lxxvii	Sommerfeld, K. J. & A., Ltd. ....	lxxvii
Cattle, R., Ltd. ....	lxxvii	Imperial Chemical Industries.....	lxxvii	Spiral Tube & Components Co., Ltd., The	lxxvii
Cement Marketing Co., Ltd. ....	lxxvii	Improved Designs, Ltd. ....	lxxvii	Spooner's ....	lxxvii
Chloride Electrical Storage Co., Ltd. ...	lxxvii	International Correspondence Schools,	lxxvii	Stobart & Son, Ltd. ....	lxxvii
Clark & Eaton, James, Ltd. ....	lxxvii	Ltd. ....	lxxvii	Sundea Board Co., Ltd. ....	lxxvii
Clarke & Vigilant Sprinklers, Ltd. ....	lxxvii	Johnston Brothers (Contractors), Ltd....	lxxvii	Sutcliffe Speakman & Co., Ltd. ....	lxxvii
Clarke Barton & Co., Ltd. ....	lxxvii	Kent & Sussex Contractors, Ltd. ....	lxxvii	Tentest Fibre Board Co., Ltd. ....	lxxvii
Clifford Aero & Auto, Ltd. ....	lxxvii	Kier, J. L., & Co., Ltd. ....	lxxvii	Thomas, L. P. ....	lxxvii
Code Designs, Ltd. ....	lxxvii	Kingfisher, Ltd. ....	lxxvii	Tilyard Tiles, Ltd. ....	lxxvii
Copper Development Association ....	lxxvii	Laing, John, & Son, Ltd. ....	lxxvii	Trollope & Colls ....	lxxvii
Costain, Ltd., Richard ....	lxxvii	Lawrence, Walter, & Son, Ltd. ....	lxxvii	Troughton & Young (Lighting), Ltd....	lxxvii
Cox Bros. (Contractors), Ltd. ....	lxxvii	Legend Sutcliffe & Gell, Ltd. ....	lxxvii	Tudor Accumulator Co., Ltd. ....	lxxvii
Cox & Co. (Watford), Ltd. ....	lxxvii	London Brick Co., Ltd. ....	lxxvii	Tungum Sales Co., Ltd. ....	lxxvii
Croft Granite Brick & Concrete Co., Ltd.	lxxvii	Lovatt Wilson & Sons, Ltd. ....	lxxvii	Turners Asbestos Cement Co., Ltd. ....	lxxvii
Crowthier (Publishers), Ltd., John ....	lxxvii	Mather, John, Builders, Ltd. ....	lxxvii	Universal Asbestos Manufacturing Co.,	lxxvii
Doulton & Co., Ltd. ....	lxxvii	Matthews & Yates, Ltd. ....	lxxvii	Ltd. ....	lxxvii
Dreyfus, A., Ltd. ....	lxxvii	Merchant Adventurers, Ltd. ....	lxxvii	Vent Axia, Ltd. ....	lxxvii
Durable Asphalt Co., Ltd. ....	lxxvii	Metallic Seamless Tube Co., Ltd. ....	lxxvii	Versil, Ltd. ....	lxxvii
Durasteel Roofs, Ltd. ....	lxxvii	Midland Electric Manufacturing Co., Ltd.	lxxvii	Wimpey, George, & Co., Ltd. ....	lxxvii
Eagle Pencil Co. ....	lxxvii	Midland Joinery Works, Ltd., The ....	lxxvii	Whitehouse, B., & Sons, Ltd. ....	lxxvii
Eagle Range & Grate Co., Ltd. ....	lxxvii	Mills Scaffold Co., Ltd. ....	lxxvii	Woods of Colchester, Ltd. ....	lxxvii
Efril Sales Organisation ....	lxxvii	Moffatt, Whitechart & Co., Ltd. ....	lxxvii	Wright Anderson & Co., Ltd. ....	lxxvii
Ellis School of Building ....	lxxvii	Moler Products, Ltd. ....	lxxvii	Youngman, W. C., Ltd. ....	lxxvii
Ellison, George, Ltd. ....	lxxvii	Morris, H., & Co., Ltd. ....	lxxvii	Zinc Alloy Rustproofing Co., Ltd. ....	lxxvii
English Joinery Manufacturers' Assoc....	lxxvii	Moss, Wm., & Sons, Ltd. ....	lxxvii		

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see pages lxxvii, lxxviii, lxxix, and xc.

# SHERARDIZING PREVENTS RUST!

SHERARDIZING IS FULFILLING AN IMPORTANT ROLE  
IN THE NATIONAL EFFORT

## ZINC ALLOY RUST-PROOFING CO. LTD.

Crawford Street,  
Rochdale, Lancs

Shakespeare Street,  
Wolverhampton

Minerva Road,  
Chase Estate, London, N.W.10

Copies of Information Sheet No. 108 and  
Text Book "Sherardizing" free on application

ge  
li  
i  
xlv  
lv  
div  
xx  
xci  
xvi  
xci  
xv  
xli  
xix  
xvii  
xlv  
viii  
xvi  
xvi  
lxx  
xci  
viii  
xvi  
lv  
xvi  
xix  
viii  
xxv  
xxi  
xci  
xvii  
x  
xxx  
xli  
xci  
lx  
xviii  
xviii  
xvii  
xxd  
xclv  
xxix  
xxix  
xviii  
lxxx  
lxx  
xiv  
xcii





**MILLS SCAFFOLD COMPANY LTD.**  
 TRUSSLEY WORKS, HAMMERSMITH, LONDON W.6  
 DATE 30-6-47 Dwg. No. H167/11  
 CHECKED BY 28

## BARREL VAULT ROOF: WORKING DETAILS OF

DOTTED PORTION SHOWS SCAFFOLD FOR CONCRETE  
 FERRO CONCRETE DESIGN WEIGHT OF SCAFFOLDING  
 BE NOT MORE THAN 5 CWT. PER FOOT RUN

NGTH	No. OFF
1'0"	120
3'0"	180
4'0"	88
5'0"	236
6'0"	210
7'0"	389
8'0"	143
9'0"	44
10'0"	264
11'0"	22
12'0"	22
13'0"	154
14'0"	71
15'0"	57
16'0"	12
17'0"	92
18'0"	8
19'0"	69
20'0"	2
21'0"	100

END TO END COUPLERS OCCURRING  
 IN THIS DESIGN TO BE LAPPED  
 WITH BUTT TUBE & 2 SCREWS

...right  
 on the  
 job

**MILLS**  
 SCAFFOLD CO., LTD.

**MILLS SCAFFOLD COMPANY LTD.**  
 TRUSSLEY WORKS, HAMMERSMITH, LONDON W.6  
 DATE 10-10-47 Dwg. No. H159/10  
 CHECKED BY 28

## BARREL VAULT ROOF: DETAILS

Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6. Tel: RIVerside 5026/9

# Moving Earth

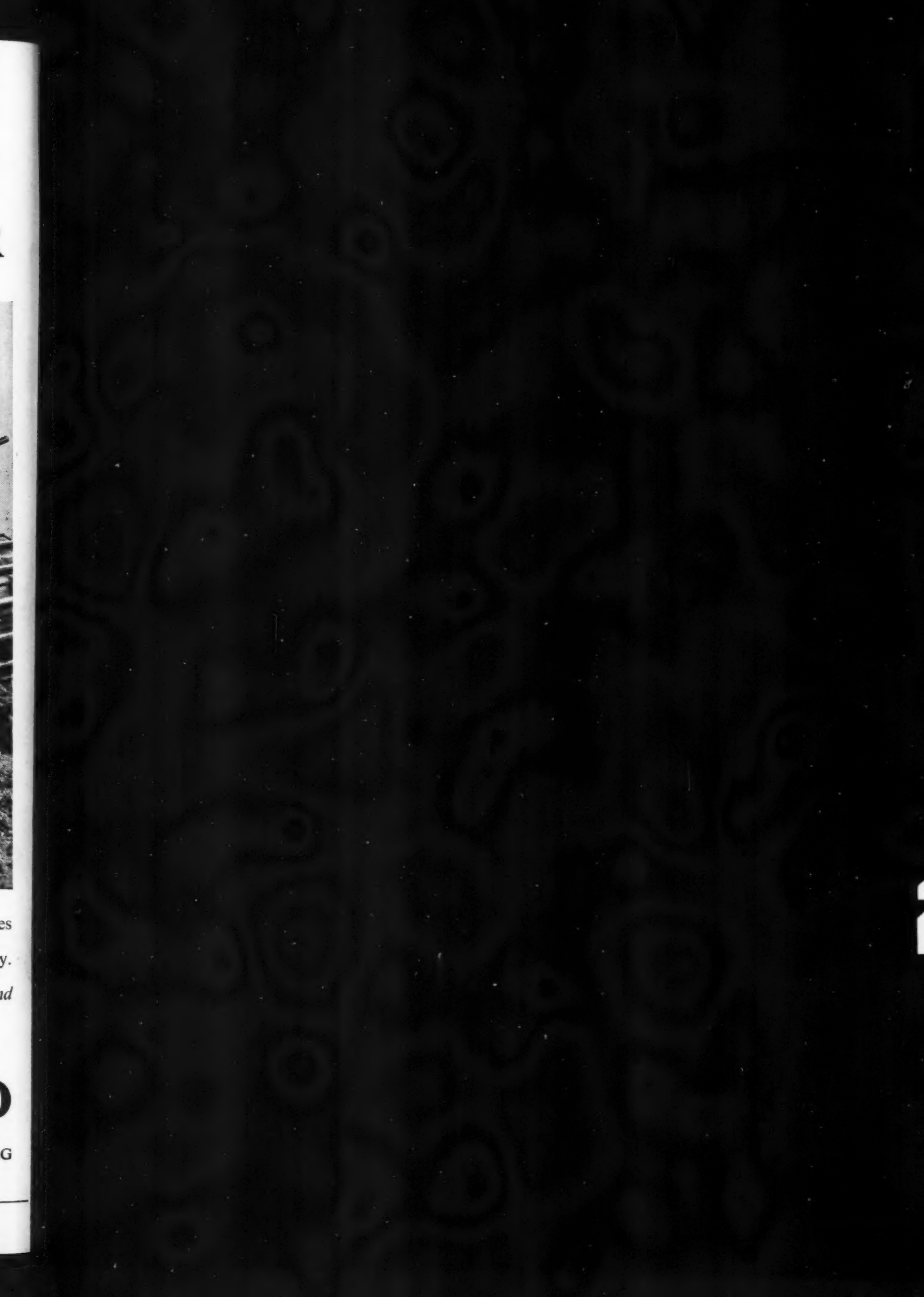
## 700 TONS AN HOUR



THE EUCLID LOADER EXCAVATOR, which can move 500/700 tons an hour, is one of the machines we are using to excavate 5½ million tons of earth at the deepest opencast coal site in this country. *This century-old firm, noted for its efficient organisation and team-work, has up-to-date plant and equipment available for all types of large scale civil engineering and building work.*

# JOHN LAING & SON LTD

BUILDING AND ENGINEERING CONTRACTORS · LONDON · CARLISLE · JOHANNESBURG



es  
y.  
ad

G