

# THE ARCHITECTS' JOURNAL



## Standard contents

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

## NEWS and COMMENT

Diary

News

Architects' Commonplace Book

Astragal's Notes and Topics

Letters

Societies and Institutions

## TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

## PHYSICAL PLANNING SUPPLEMENT

## CURRENT BUILDINGS

## HOUSING STATISTICS

Architectural Appointments  
Wanted and Vacant

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

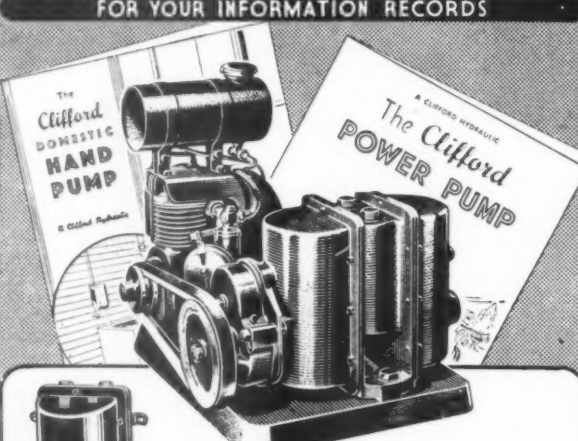
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 3158
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
ICW	Institute of Clayworkers. 4, Vernon Place, W.C.1.	Chancery 6258
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers. 72/74, Victoria Street, S.W.1.	Victoria 0146/7
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8.	Park 7678
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Belgrave Square, S.W.1.	Sloane 4522
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalt Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives. 8, Rosebery Houses, Breams Buildings, E.C.4	Holborn 1881
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBR	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4041
NHTPC	National Housing and Town Planning Council. 41, Russell Square, W.C.1.	Museum 1264
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NRIAD	National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2.	Whitehall 2415
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42 Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
PWB	Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission. 6, Burlington Gardens, W.1.	Regent 1446
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6 John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR. 98 Gower Street, W.C.1.	Euston 6272/3
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C.	Chancery 5313
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNTPC	Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3	Whitehall 2646
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 6146 (3 lines)
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2	Temple Bar 5006
TDA	Timber Development Association. 75, Cannon Street, E.C.4.	City 6146 (3 lines)
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

No. 2750] [VOL. 106  
THE ARCHITECTURAL PRESS  
9, 11 and 13, Queen Anne's Gate, Westminster,  
S.W.1. Phone: Whitehall 0611

Price 9d.

Registered as a Newspaper

FOR YOUR INFORMATION RECORDS



**Clifford**  
MODERN PUMPING EQUIPMENT

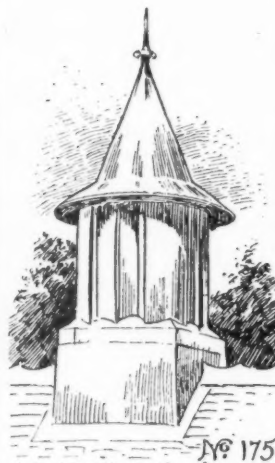
NEW TYPE ACTION provides COMPACT PUMPING EFFICIENCY for most domestic, industrial and agricultural purposes.

Pat. No. 558373

The CLIFFORD HAND PUMP for small houses, gardens, stock yards, etc. Petrol and electric driven units for deliveries up to 700 gallons per hour.

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

## BOYLE'S LATEST PATENT "AIR PUMP" VENTILATOR



"Of all the systems of ventilation, that employed by Messrs. R. Boyle & Son is the best."—Professor Sir Leonard Hill, M.B., L.D., F.R.S.

OVER 2,000,000 IN USE

Awarded £50 Prize with Diploma (only prize offered) International Ventilator Tests, London; Highest Award International Ventilator Tests, Paris: Two Gold Medals with Diploma.

PIONEERS OF THE  
VENTILATING BUSINESS

ESTABLISHED 1864

### ROBERT BOYLE & SON

VENTILATING ENGINEERS

27, JOHN ADAM STREET, ADELPHI,  
LONDON, W.C.2

Telephone:  
Temple Bar 5859

Telegrams:  
"Hypostile, Phone, London"

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

ENT  
MP"  
TOR

ventila-  
Messrs.  
best."—  
d Hill,

N USE

n Diploma  
ernational  
on; High-  
al Ventila-  
two Gold

F THE  
BUSINESS

SON

ELPHI,

Telegrams:  
e, London"

G

D.

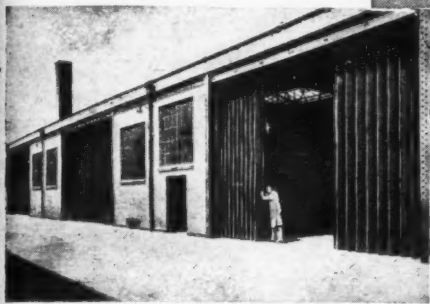
1178  
ston,  
A M





**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 BOLTTON GATES for

together with your Catalogue, giving the complete range.

A.J.23/10/47

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

dm 5G 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**



# EDMONDS

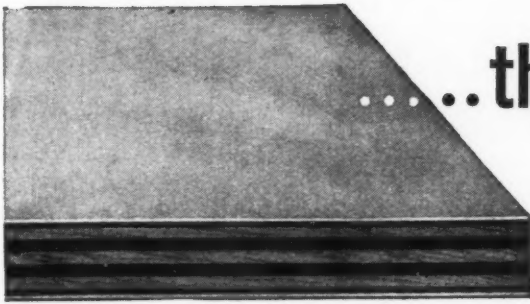
CONSTRUCTIONAL  
JOINERY AND  
METALCRAFT

BIRMINGHAM  
CONSTITUTION HILL  
CENTRAL 8351/3

GLASGOW

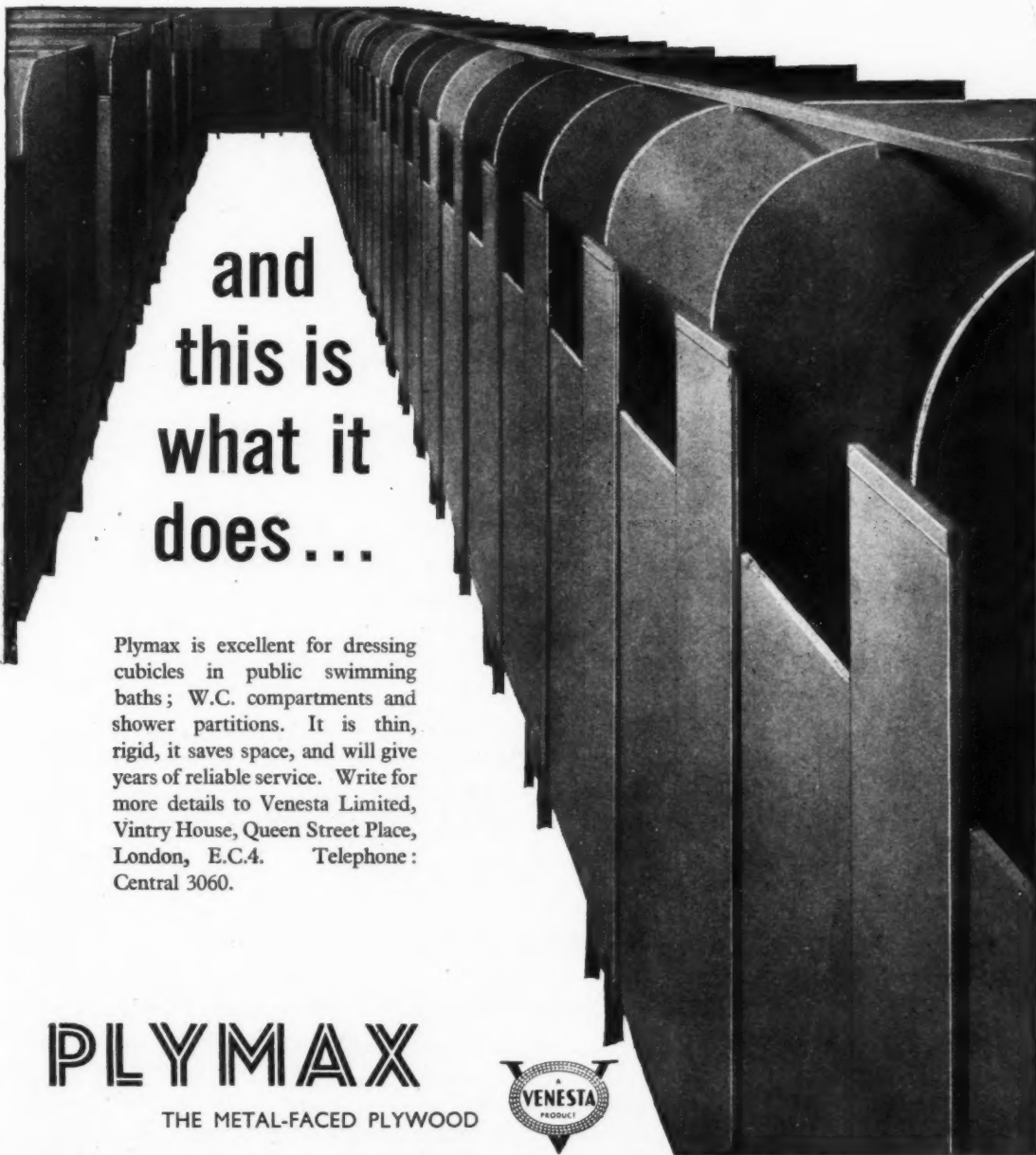
CARDIFF

LONDON  
8, GRAY'S INN ROAD, W.C.1  
CHANCERY 7694/5



.....this is what it is

Plymax is the metal-faced plywood—a light, rigid material resistant to damage and fire. The metal faces are water-proof and vermin-proof, easy to paint and easy to keep clean. Plymax is thin and easily fixed. It saves space, time and money.



and  
this is  
what it  
does...

Plymax is excellent for dressing cubicles in public swimming baths; W.C. compartments and shower partitions. It is thin, rigid, it saves space, and will give years of reliable service. Write for more details to Venesta Limited, Vintry House, Queen Street Place, London, E.C.4. Telephone: Central 3060.

**PLYMAX**

THE METAL-FACED PLYWOOD





### ***Britain captures a rainbow***

The optical glass industry is a small and a specialised one, and photographic colour filters are just a part of it. Nevertheless this is a tale of triumph. Colour filters demand scientific accuracy in manufacture — flawless glass with special light transmission properties. Before the war many of those sold in this country came from abroad, because foreign glass-makers held a corner in prestige.

To-day all that has changed. There is a choice of more than 40 different shades for the British Optical Industry which is now making filters for world markets. British photographers command a rainbow in British glass.

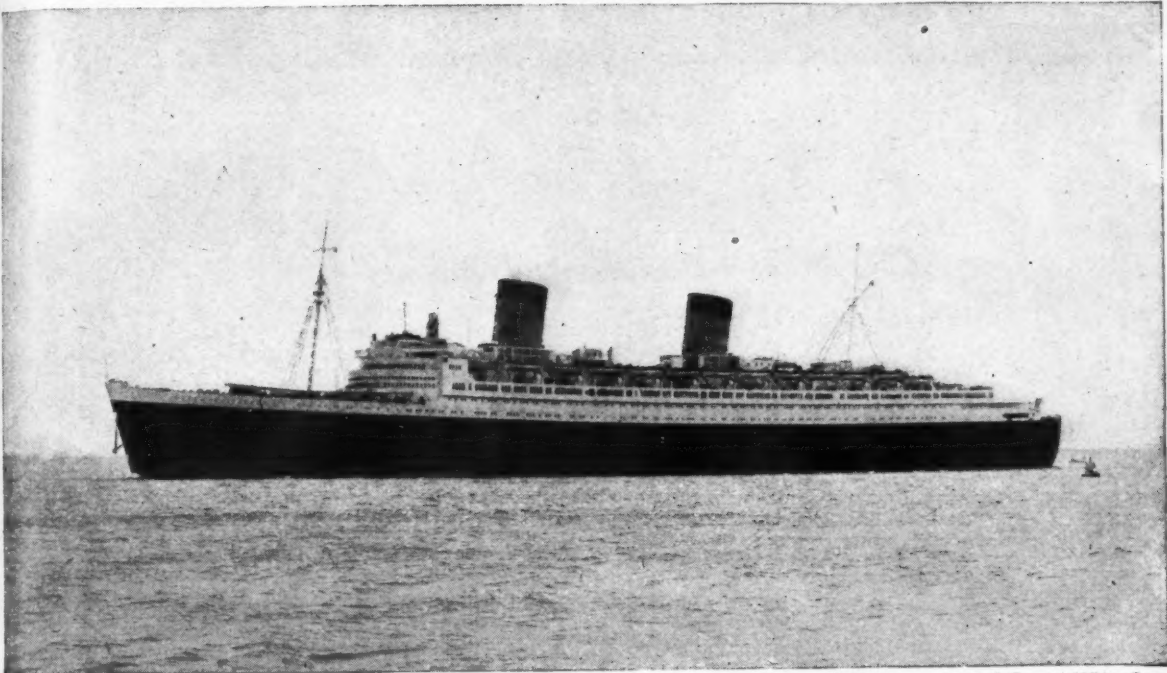
## *Chance* GLASS

FOR SCIENCE, INDUSTRY AND THE HOME

SEE OUR EXHIBIT AT THE BUILDING CENTRE, 9 CONDUIT STREET, W.1

**CHANCE BROTHERS LIMITED**, Glass-makers since 1824, produce Optical Glass, 'Hysil' (regd.) Laboratory Glassware, Pressed Glassware, Rolled and Wired Glass for Building, Lighting Glassware, Scientific and other Specialised Glass Products; Lighthouses, Marine and Aviation Lighting Equipment, etc. Head Office: Smethwick 40, nr. Birmingham. London Office: 28 St. James's Square, S.W.1. Scottish Office and Works: Firhill, Glasgow, N.W.





R.M.S. QUEEN ELIZABETH: Gross Tonnage 83,673.

Photo by courtesy of Cunard White Star.

## **NINE TIMES THE GROSS TONNAGE OF R.M.S. QUEEN ELIZABETH**

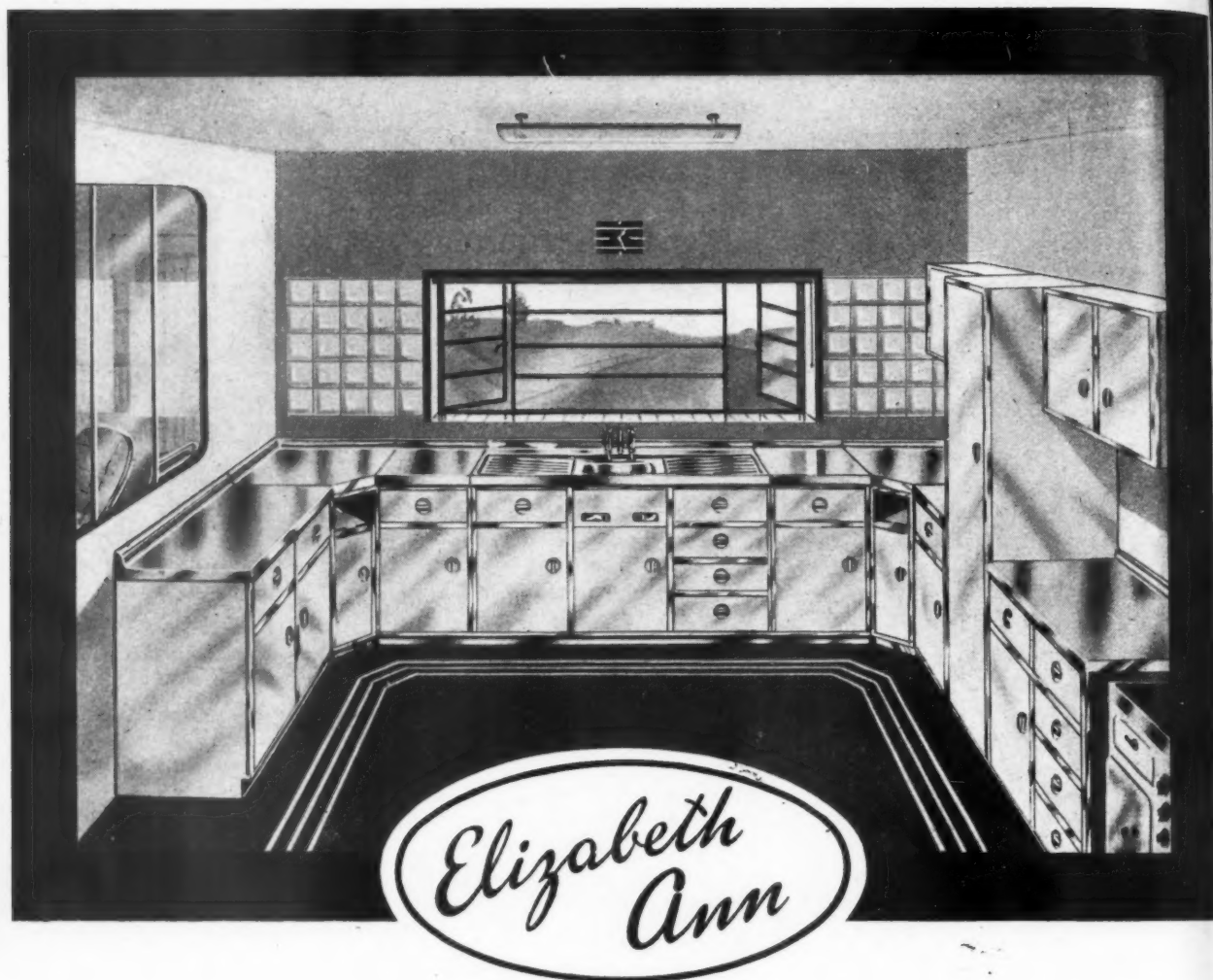
WOULD STILL BE FAR LESS THAN THE  
WEIGHT OF THE CONSTRUCTIONAL  
WORK SUPPORTED BY FRANKI PILES  
DRIVEN IN GT. BRITAIN DURING 1946.

NEARLY **800,000 TONS** WERE  
ENTRUSTED TO THIS WORLD-FAMOUS  
METHOD OF CAST-IN-SITU PILING.  
ECONOMY, AS WELL AS SECURITY,  
WAS ENSURED BECAUSE

**FRANKI PILES CARRY MORE TONS PER PILE**

THE FRANKI COMPRESSED PILE CO. LTD., 39, VICTORIA ST., S.W.1.

TELEPHONE: ABBey 6006-9



## STAINLESS STEEL KITCHEN UNITS

Elizabeth Ann Kitchen Units in brilliant Stainless Steel and lustrous enamel provides really lasting fittings for modern houses. The sinks and drainers are in one piece to eliminate any cracks or crevices and so designed to make cleaning easy. Front structures on each unit are also in stainless steel.

Long experiments have been conducted to ensure a rigidity which a number of similar products lack and it will be found that the Elizabeth Ann equipment while not heavy is constructed along the soundest engineering lines to give complete stability under all conditions, and parts are interchangeable making any replacements simple.

These parts constructed in mild steel are of generous gauge to prevent buckling and finished in heat treated cream enamel.

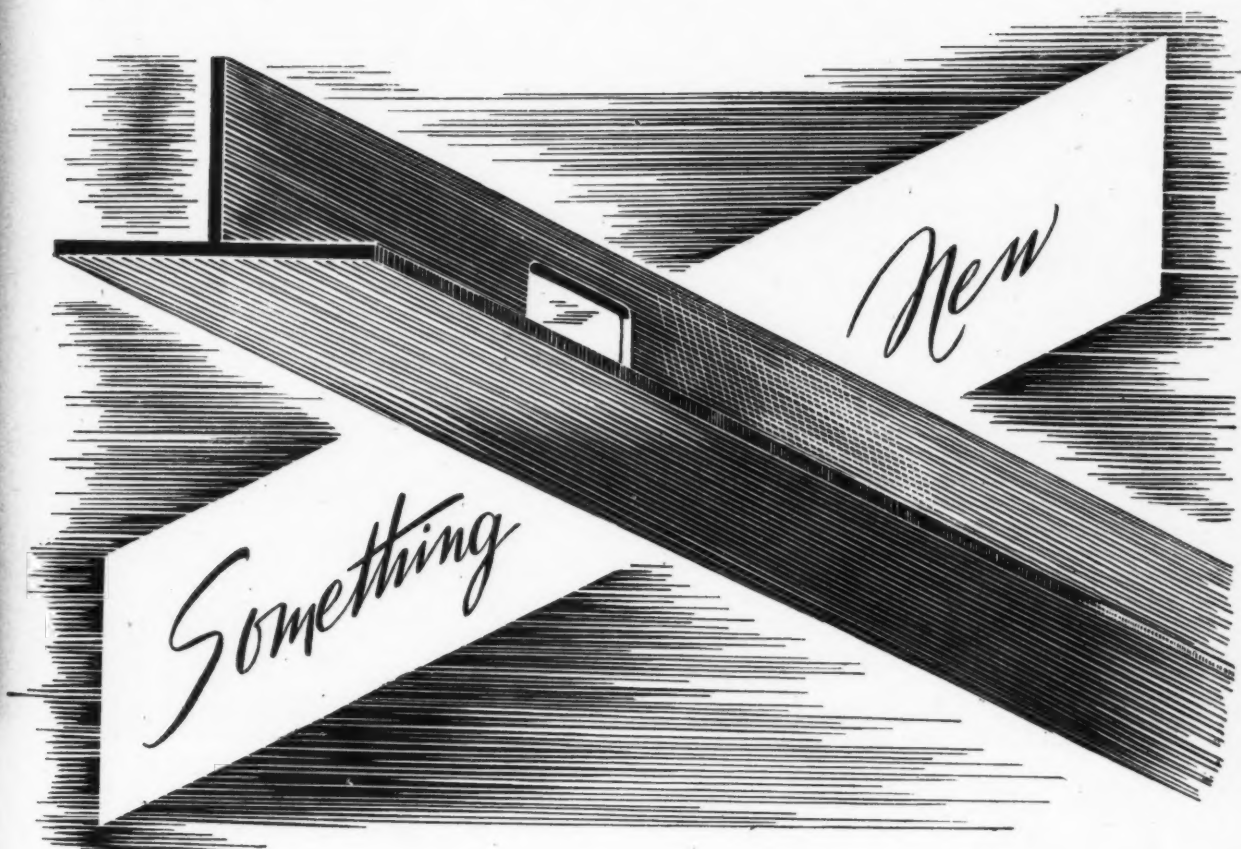
Ample toe recess in stainless steel is provided in each case, doors are hung on continuous piano type hinges chromium plated, all drawers are fitted with roller bearings.

A rigid system of inspection is carried out through every stage of manufacture and we thoroughly recommend the Elizabeth Ann Kitchen Units as the finest produced in this country. We supply standard units or make to specification. Ask for our descriptive booklet.

**ANDREWS BROS (BRISTOL) LTD. WALCOT ST. BATH**  
TELEPHONE: BATH 60251 (5 LINES) TELEGRAMS: STAINLESS. BATH



PATENT No. 519406



ANDERSON'S WEDGE METHOD INTRODUCES

A NEW PLAIN FACED TEE.

IT IS AN EXTRUDED SECTION IN ALUMINIUM ALLOY (FULLY HEAT-TREATED).

IS FREE FROM RESTRICTIONS.

PROMPT DELIVERY CAN BE MADE.

---

**BUILDING EXHIBITION  
OLYMPIA  
NOV. 19—DEC. 4, 1947  
STAND  
222**

---

FULL PARTICULARS AND SPECIFICATIONS SENT ON REQUEST

PLEASE NOTE  
CHANGE OF  
ADDRESS

STRUCTURAL  
INSULATION  
SPECIALISTS



CLIFTON HOUSE, EUSTON ROAD,  
Opp. St Pancras Station  
LONDON, N.W.1. EUSTON 7465

AGENTS IN:—  
BIRMINGHAM  
CARDIFF  
GLASGOW



**The hidden  
details  
count**

See our Exhibit at The  
Building Centre, 9, Conduit  
St., W.I.

This simple type of hollow-core flush door is cheap, strong and looks well—but its serviceability depends on the care with which it is made. The Timber of the core must be dried to the right moisture content; the frame members accurately machined; carefully assembled, and well glued to the ply facings under the controlled pressure of the Door Press platens. These are the hidden details which count.

**JOHN SADD & SONS, LTD.**  
**HIGH-CLASS JOINERY**

**Windows, Doors, Mouldings, Staircases, Dressers, Kitchen Units**

**MALDON**

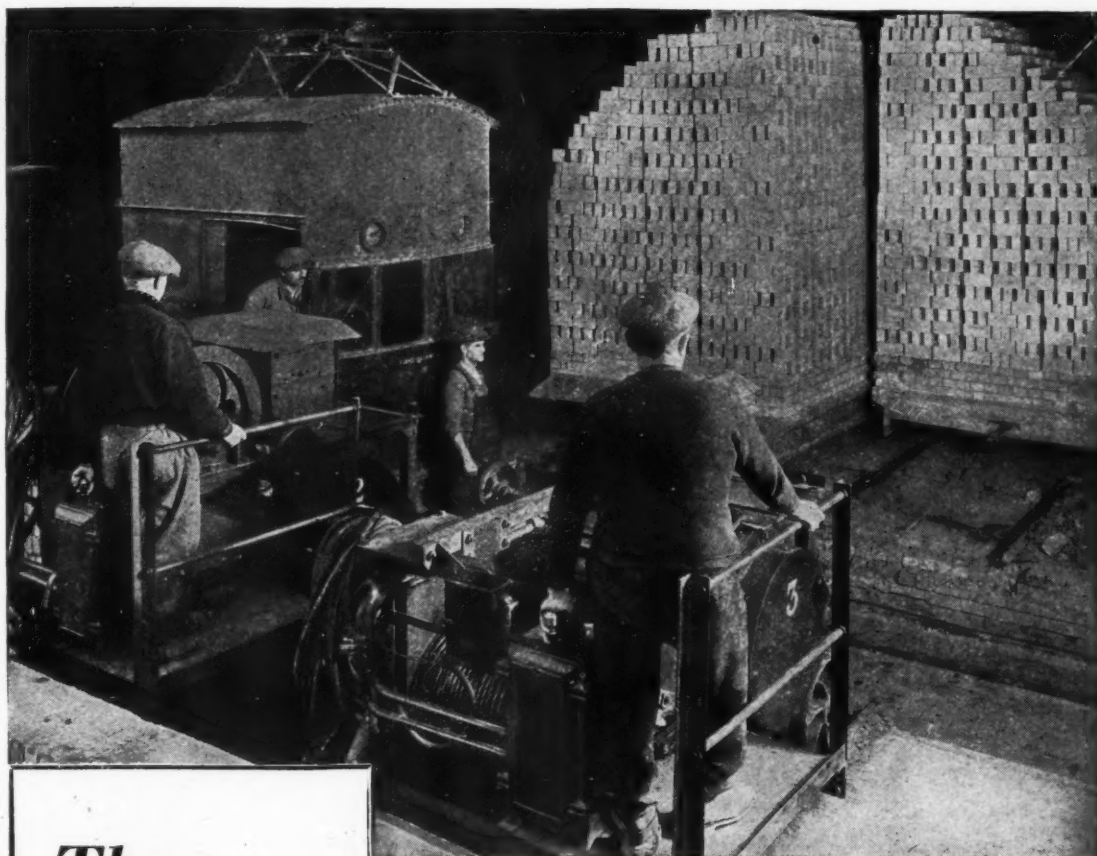
Telephone: Maldon 131 (6 lines)

**ESSEX**

London Office: ALDWYCH HOUSE, W.C.2.

Telephone: Holborn 7225.





*The  
Human  
Element  
in the  
BRICK  
Industry*



SATURDAY  
NOVEMBER 8<sup>th</sup>

A touch of the lever brings these trolleys of bricks (each weighing 15 tons) gliding from the kilns. Fourteen days ago they entered the chamber loaded with green bricks. Machinery, under the watchful supervision of skilled operatives, has brought them steadily through the various stages of the burning process. In London Brick Company works, manual labour is applied only where the job cannot be done by machinery. The operatives enjoy the best possible working conditions, and every facility for recreational activities.

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.



PHORPRES

LONDON BRICK COMPANY LIMITED

L.B.37



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

G.B. 175 D

**ECONOMISE IN  
GAS CONSUMPTION**

**BY MEANS OF THE  
GAS RATE CONTROL TAP**

fitted to the

**"LANCELOT"  
Gas Fire**



Now, more than ever, it is essential to economise in Gas consumption. By means of a specially designed tap fitted to "LANCELOT" Gas Fires the consumption can be reduced on a graduated scale without appreciable loss of brilliance in the radiants—a really important factor in these days of rigid economy.

*The Gas Rate Control Tap is also fitted to  
"RAYELLO A," "RAYELLO B," "SANDOWN SUPER."*

**BRATT COLBRAN LIMITED**

SPECIALISTS IN GAS FIRES AND OVERHEAD RADIANT HEATING  
10, MORTIMER STREET, LONDON, W.1 • Phone: MUSEUM 9411-9311

*See our fires in the "Gas in the Design for Living" Exhibit at the Building Centre, 9, Conduit Street, London, W.1.*

1787

# Nobles & Hoare's

**ALBAMATTE** Flat Oil Paint.

**NOBLEX** Washable Distemper.

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

**ALBAGLOSS**

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

**BODICOTE** Ready mixed flat white Under-coating with exceptional degree of obliteration.

**VARNISHES** For interior and exterior use.

**NH**

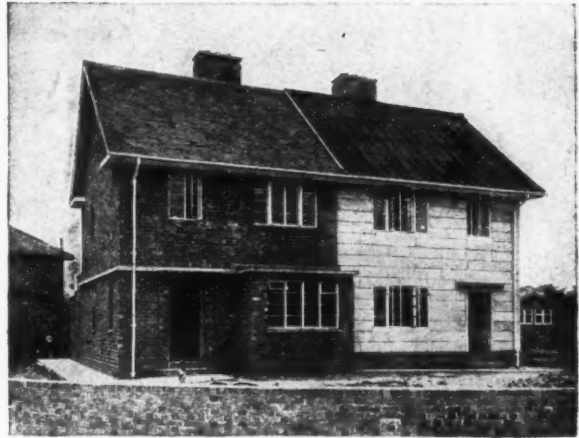
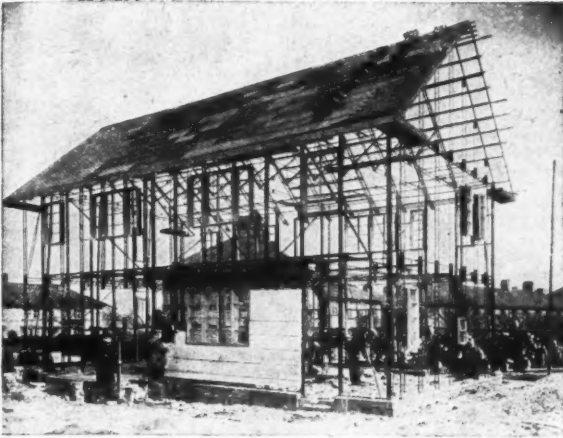
**Nobles & Hoare**  
LIMITED

Varnish, Paint and Cellulose Lacquer Manufacturers  
Woodbridge Works, Kingston Road, Leatherhead, Surrey.  
Tel.: Leatherhead 2450 & 2992

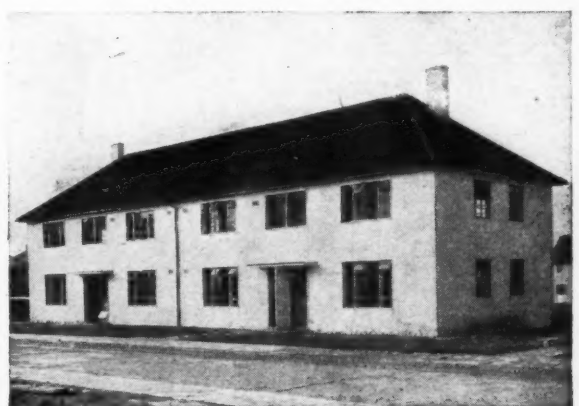
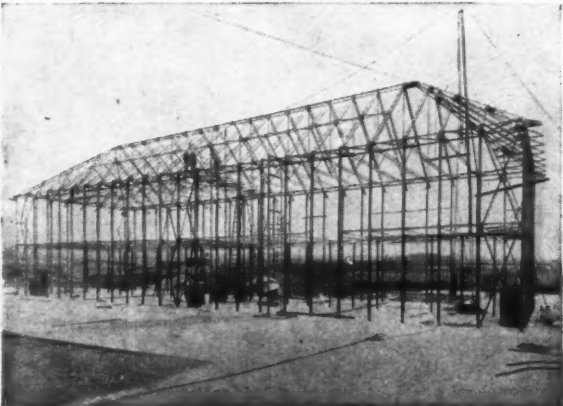
1947



# *Steel Frames for* **Permanent House Construction**



*City of Birmingham Experimental Houses by Herbert J. Manzoni, Esq., C.B.E., M.I.C.E., City of Birmingham Engineer & Surveyor.*



*Demonstration Housing Site, Northolt, Middlesex, by the Ministry of Works.*

Presweld is supplied to Contractors in the form of Complete Frames or alternatively Roof Structures or Floor Beams as required.

**HILLS**  
**Presweld**  
TRADE MARK  
STEEL FRAMEWORK

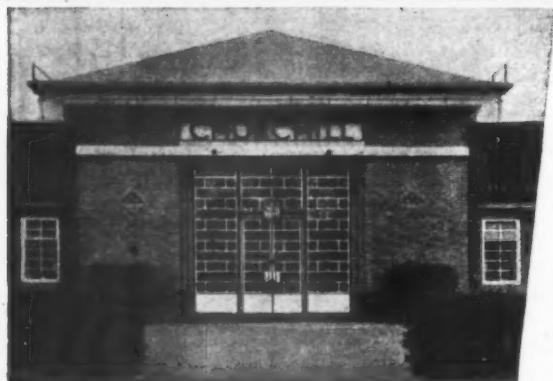
PROV. PATENT NOS. 544844, 544943, 270843, 270943

*Designed and Produced by*

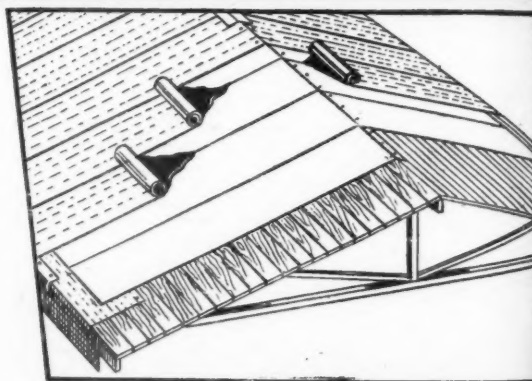
**HILLS PATENT GLAZING COMPANY LIMITED**

ALBION ROAD, WEST BROMWICH. PHONE: WEST BROMWICH 1025 (7 lines)  
LONDON OFFICE: 125 HIGH HOLBORN, W.C.1. PHONE: HOLBORN 8005/6

# How this roof was weatherproofed...



Factory for CHARLES CHURCHILL & CO. LTD., BIRMINGHAM  
Builder—W. C. SKINNER LTD., BIRMINGHAM



Section of Drawing BRIGGS ROOFS No. 2R

**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 WEATHERPROOFING



**WILLIAM BRIGGS & SONS, LTD. DUNDEE**  
Telephone DUNDEE 82211 (6 lines)      Telegrams Bitumen, Dundee

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



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 : "Bildaplant, Claproad, London."





## Again available **PAROPA** roofing by **FRAZZI**

### **FIRE RESISTING FLOORS & ROOFS**

With nearly 40 years' experience in every type of floor construction — concrete slab, hollow block and self-centering, Frazzi engineers will be pleased to give every assistance in working out the best system for the job in hand, from the point of view of both construction and cost.

Widely used for roofing the better type of permanent building, for swimming pool surrounds, forecourts and terraces, the Paropa system is once more available to architects desiring an attractive, permanent surface, capable of withstanding heavy traffic. It is lastingly waterproof and applicable **in situ** to any flat surface, at any angle, to specified designs.

### **FRAZZI LIMITED**

**SPECIALISTS IN FLOOR AND ROOF CONSTRUCTION**

LENNOX HOUSE, NORFOLK STREET, STRAND, LONDON, W.C.2. TELEPHONE: TEMPLE BAR 5371  
20 SAVILE STREET, SHEFFIELD, 4. TELEPHONE: SHEFFIELD 23721

Agents: Robert Kirk Ltd., Exchange St., Belfast. J. & W. Henderson Ltd., 93 West George St., Glasgow, C.2. Murphy Bros., 3 Castlewood Ave. Dublin, Eire.

F.S.A



100 EXPRESS TRAINS TO NEWCASTLE

on the fuel saved by insulating one factory

Nearly 600 tons of fuel—enough to run 100 express trains from London to Newcastle—can be saved in *one* steel-framed factory of average size by lining the roof and walls with Celotex cane-fibre insulation. For Celotex overcomes unnecessary heat losses; in buildings of every kind its installation produces immediate and drastic fuel economies; and in these economies—lower fuel bills and a reduced capital charge for the heating plant—the cost of Celotex is quickly recovered. The table, based on Fuel Efficiency Bulletin No. 12, gives a general picture of the fuel savings which result when steel framed roofs are insulated with Celotex. Our technical department will gladly calculate specific data for your individual needs.

CONSTRUCTION		Uninsulated		Under-Purlin Insulation		Over-Purlin Insulation			
Corrugated Asbestos Cement		1/4"	—	1/4"	—	1/4"	1/4"	—	—
Corrugated Iron		—	226	—	226	—	—	226	226
Celotex Insulating Board		—	—	—	—	1/2"	1"	1/2"	1"
Air Space/Purlins		—	—	4"	4"	—	—	—	—
Celotex Insulating Board		—	—	1/2"	1/2"	—	—	—	—
Thermal Transmittance 'U'		1.40	1.50	0.31	0.32	0.35	0.23	0.36	0.24
To make good heat loss per 1000 sq. ft.	Fuel Consumption tons p.a.	7.7	8.3	1.7	1.8	1.9	1.3	2.0	1.3
	Cost of Heating Plant. Cost £'s	88	94	19	20	22	14	22.5	15
	Saving in Plant and Fuel due to Celotex insulation %			78	79	75	84	76	84

invest in  
**CELOTEX**  
insulation

CELOTEX LIMITED, NORTH CIRCULAR ROAD, STONEBRIDGE PARK, LONDON, N.W.10 (ELGAR 5717)

HIGGS <sup>AND</sup> HILL  
LIMITED

LONDON

LEEDS

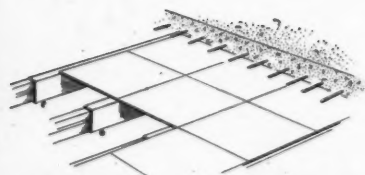
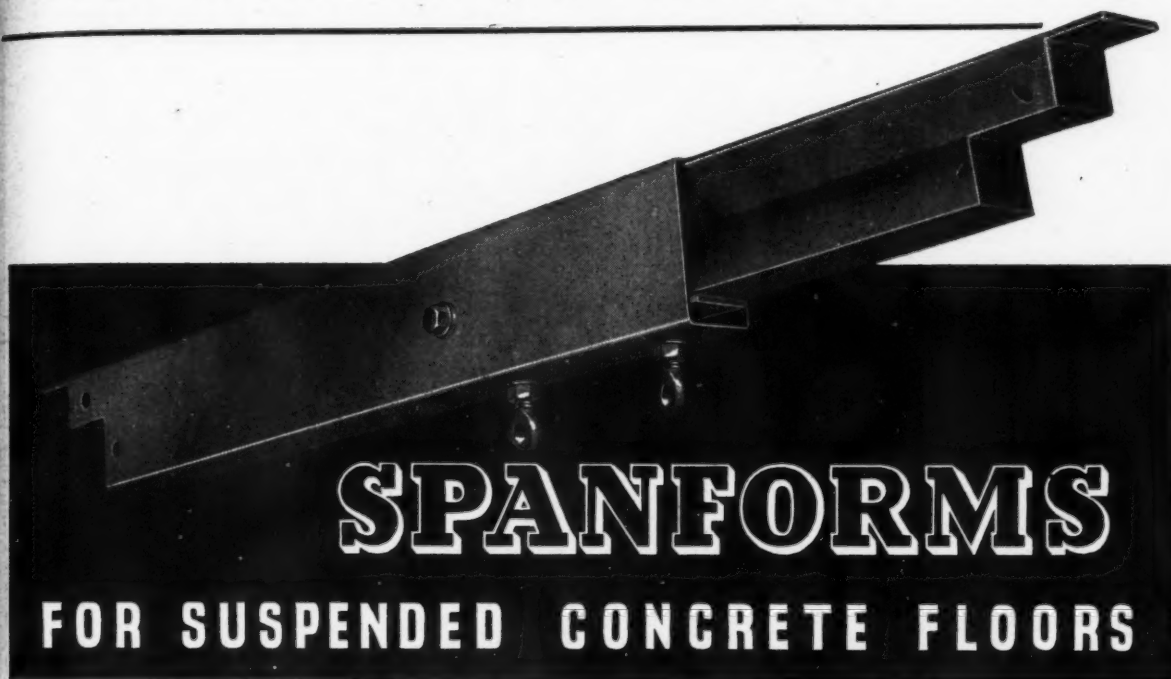
COVENTRY







# ANOTHER **KWIKFORM** PRODUCT



This diagram shows **FLATFORMS** and **SPANFORMS** fixed ready to pour concrete flat. Note the locking screws which secure **SPANFORMS** at requisite length.

**KWIKFORM** Spanforms are adjustable to any length from 2' 9" to 16' 0", and support **KWIKFORM** Flatforms which, used with filler plates, suit any dimension. Composite Spanforms may be used for lengths up to 28' 0".

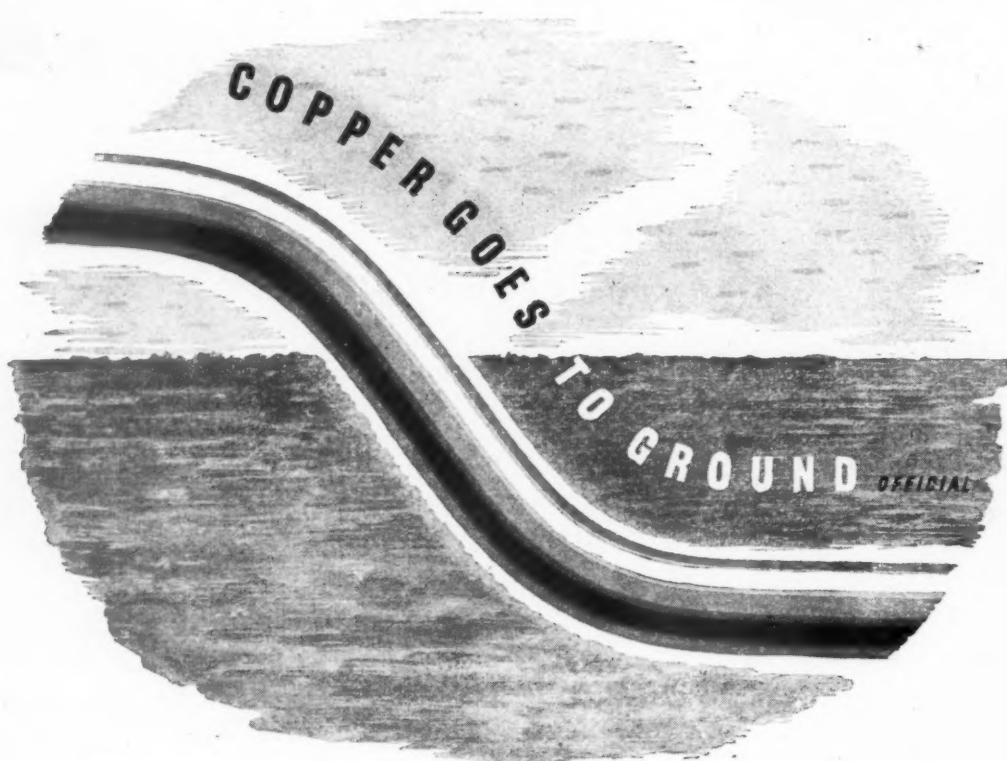
**ADJUSTABLE SCREWS ON SPANFORMS GIVE SPACE AT CEILING FOR EASE OF STRIKING SHUTTERING.**

The simplicity and adaptability of this and all other **KWIKFORM** products render possible speedy and efficient construction with inexperienced labour.

For further details of **KWIKFORM** Spanforms, write to the sales office for Schedule 2037.D.

*It's quicker... it's* **KWIKFORM**

**KWIKFORM LTD.** LONDON. 66, VICTORIA ST. S.W.1. TEL: VIC. 8915/9896  
GRAMS: KWIKFORM, SOWEST, LONDON.  
BIRMINGHAM (TECHNICAL & SALES OFFICE) 67, WHITMORE RD. 10. TEL: VIC. 1253  
GRAMS: KWIKFORM, B'HAM.



Within the past two decades, copper has come to be universally acknowledged as the ideal domestic pipe material, and the use of copper tubes has spread throughout the building industry. Now they are coming into general use underground for water, gas and sanitation purposes, replacing less serviceable yet often more expensive materials. This new phase is being marked by the publication by the British Standards Institution of:

**B.S. 1386-47, 'COPPER TUBES TO BE BURIED UNDERGROUND'**

Here is a specification of the first importance to architects, builders and plumbers. It sets the seal of the industry's approval on the use of copper tubes underground.

Copper has a higher resistance to corrosion by soils of almost all types than has any other pipe metal. Standard copper tubes have strength and toughness adequate to prevent mechanical damage and good flexibility to facilitate laying. Absence of internal

corrosion ensures a permanently free flow of water or gas. All these properties result in a very long, trouble-free life.

Further information on the behaviour of copper underground and advice on any point concerning the use of copper pipes will, on request, be given free of charge by the Copper Development Association. Write to Kendals Hall, Radlett, Herts. (Tel: Radlett 5616)

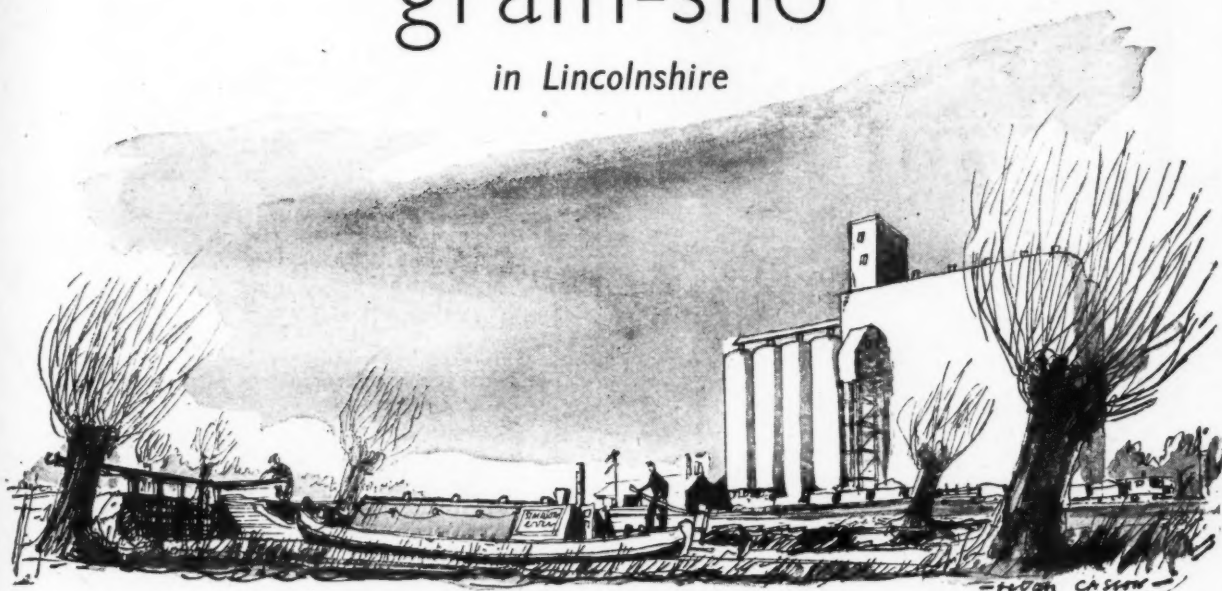


**USE STANDARD TUBES AND SPEED UP BUILDING**

**COPPER DEVELOPMENT ASSOCIATION**

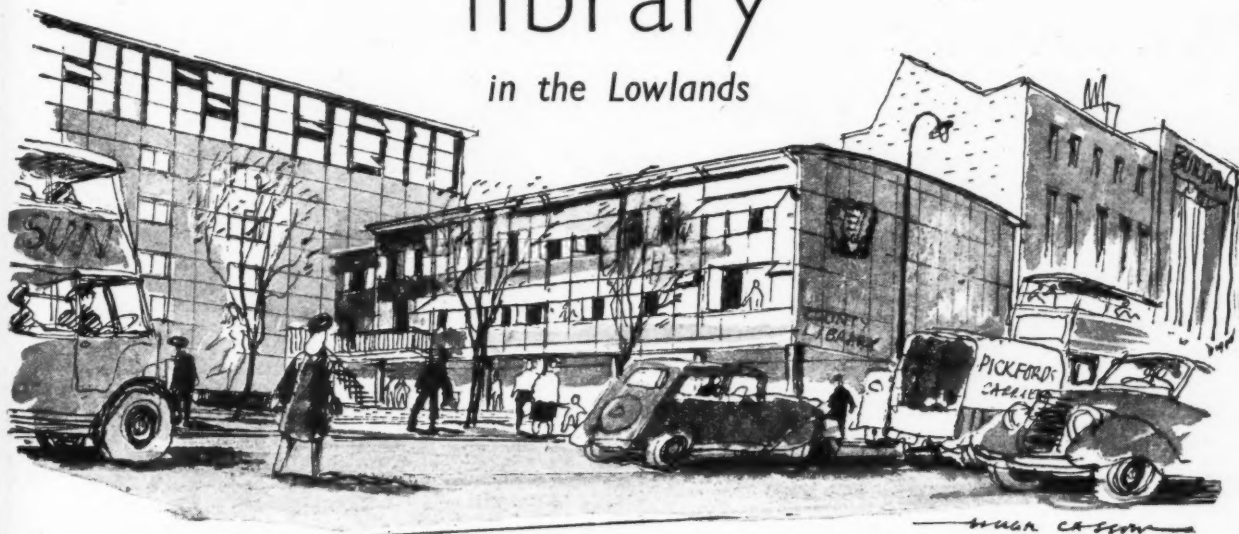
# grain-silo

in Lincolnshire



# library

in the Lowlands



IN THE FIELDS of Lincolnshire or in the centre of Glasgow, big contract or small—place or size doesn't affect the speed, economy and thoroughness of a Wimpey job. For Wimpey's have seven regional offices: at Birmingham, Cardiff, Manchester, Newcastle, Nottingham, Edinburgh, and Glasgow. These regional offices provide local data, local contact, local control—'the eye on the spot'.

Wimpey's pools of plant, transport and key manpower are immense—and immediately mobile. Every stage and section of every operation, wherever it may be, has Wimpey's whole resources behind it.

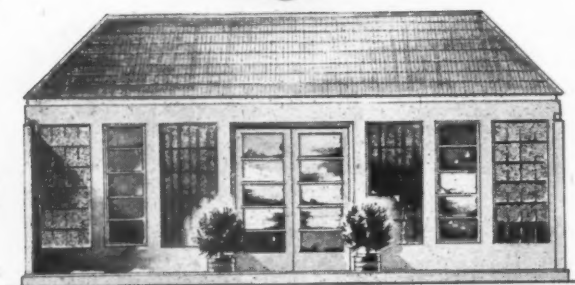
All this co-ordination can be summed up as *scientific planning in building construction*. And that's the open secret of Wimpey's sixty years of practical success.

**WIMPEY**

GEO WIMPEY & CO LTD

DENHAM MIDDLESEX

**visit  
stand No. 88  
Olympia**



*and get to know more about*  
**Redland Concrete  
Roofing Tiles**

We cordially invite you to visit our stand at the Building Trades Exhibition to discuss your roofing requirements.

Redland Concrete roofing tiles are now a permanent feature in the building trade and have been used by over 120 local authorities. They are available in five standard colours, Brown, Light Red, Dark Red, Red Mottled and Cotswold Stone. There are two types, Plain 10½ in. by 6½ in. and Interlocking 15 in. by 9 in.

**REDLAND TILES LTD.,**

Head Office: Kingsfield, Redhill, Surrey.  
Telephone: Redhill 1073/4.

**ASSOCIATED COMPANIES**

Redhill Tile Company, Limited,  
Kingsfield, Redhill, Surrey.

★

Tinsbury Tile Company, Limited,  
Tinsbury, Near Romsey, Hants, and  
Chipping Sodbury, Glos.

★

Runfold Sand & Tile Company Limited,  
Runfold, Near Farnham, Surrey.

★

Moorhouse Brick Tile & Concrete  
Products Limited,  
Moorhouse, Near Westerham, Kent.

★

Leicester Tile Co. (of Redhill), Ltd.,  
Syston, Near Leicester.

★

Hensall Roofing Tile Company, Limited,  
Hensall, Yorks.

★

Redhill Tile Co. (Northern Ireland) Ltd.,  
Belfast, Northern Ireland.

SELLING ORGANIZATION:-

**REDHILL TILE CO. LTD.**

MOORHOUSE · NR. WESTERHAM · KENT

Telephone: LIMPSELD CHART 3206-7

Exhibiting at  
Building Trades Exhibition, Olympia, Nov. 19th to Dec. 4th.

**LIGHTING**  
is an integral part of  
modern architecture



THE modern architect is fully alive to the necessity of considering the lighting in the initial stages of design. It is at this point that expert technical collaboration is of immense value in ensuring that practical expression, having due regard to aesthetic requirements, is given to a creative conception.

BTH Lighting Engineers bring to such consultations with architects a wealth of technical knowledge and seasoned experience which enables original ideas about lighting to be correctly interpreted and embodied as an integral part of the general plan.

Architects desirous of discussing the technical details of lighting installations of any description are invited to communicate with BTH Lighting Advisory Service, Bridle Path, Watford. Phone: Watford 7701.



**MAZDA**  
LAMPS

in  
**MAZDALUX  
FITTINGS**

The British Thomson-Houston Co. Ltd.,  
Crown House, Aldwych, London, W.C.2

M4083



CLUBS  
HOTELS  
POLICE COURTS  
THEATRES · STUDIOS ·  
HOMES ·  
MILLS  
INNS  
COUNCIL CHAMBERS  
LIBRARIES ·  
BRIDGES  
BATHS ·  
HOSPITALS  
SHOPS ·  
CANTEENS  
OFFICE  
CLUBS

**THE "DULUX" CAN**

is at present only a reminder of fine craftsmanship—"Dulux" itself is not yet available.

But there are today other I.C.I. paints which will serve with great credit to the user.

Employers and painters who wish to obtain the best possible results with these are cordially invited to visit the I.C.I. Painting School at Slough.

**IMPERIAL CHEMICAL INDUSTRIES LIMITED**

**PAINTS DIVISION**

(successors to Nobel Chemical Finishes Ltd.)

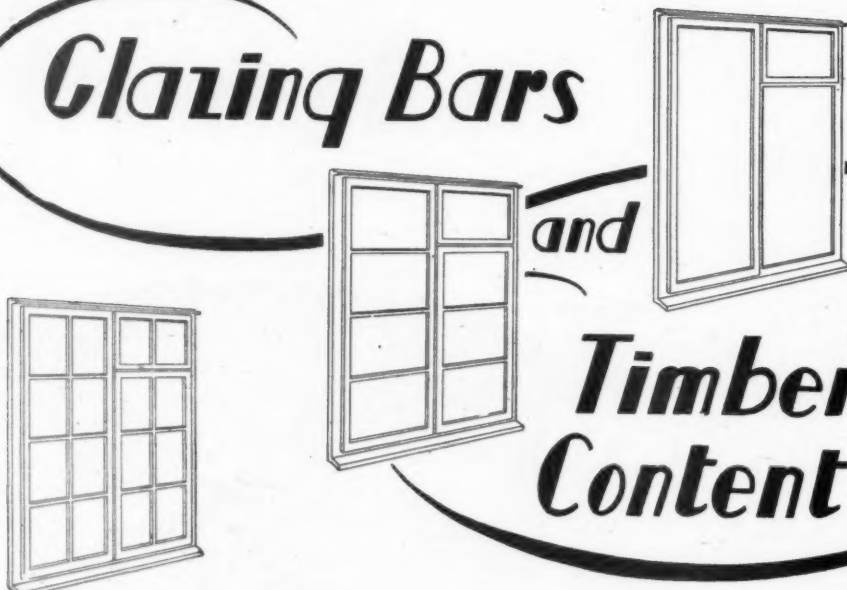


**SLOUGH · BUCKS.**

**Telephone · SLOUGH 23851**

D.D.750

# Glazing Bars and Timber Content



Will the present timber ration allow the inclusion of windows with glazing bars? Architects who prefer this type to the simple unbarred casement can find the answer from the table on the right, which shows the timber content of the EJMA range of windows with no bars, with lay bars only, and with both vertical and horizontal bars. It will be seen that the additional amount of timber used is very small, and, in fact, fully-barred windows are being specified in a number of housing schemes.



EJMA is the Certification Trade Mark of The English Joinery Manufacturers Association (Incorporated) and applies ONLY to joinery made by manufacturers who are licensed and who undertake to conform to EJMA Specifications. The Secretary will be glad to supply the name of member firms, many of whom can give prompt delivery of EJMA windows.

EJMA guarantees a STANDARD OF QUALITY

## PRINCIPLES OF NOTATION

The first figure gives the number of lights in width, the letters indicate the type, and the last two figures the height in feet and inches. Example—The window illustrated is type 2V46.

P — Plain (no vent).      N — Narrow.  
V — Vent.                      S — Sublight.  
T — Through Transom.

## TIMBER CONTENT in decimals of a standard.

INP26	-004	-004	—
INP36	-005	-005	—
INV26	-004	-004	—
INV36	-004	-005	—
INV40	-004	-005	—
IP26	-005	-005	-006
IP36	-006	-006	-007
IP40	-006	-006	-007
IP46	-007	-007	-007
IV26	-005	-005	-006
IV36	-005	-006	-007
IV40	-006	-007	-008
IV46	-006	-008	-008
IT46	-008	-008	-009
IT50	-008	-009	-009
IP550	-008	-009	-009
2V26	-008	-009	-009
2V36	-009	-010	-011
2V40	-010	-012	-013
2V46	-010	-012	-013
2T46	-010	-013	-014
2T50	-010	-014	-015
2VS50	-010	-014	-015
3P26	-010	-012	-012
3V36	-013	-015	-016
3V40	-014	-016	-017
3V46	-014	-017	-018
3T46	-015	-018	-020
3T50	-016	-020	-022
3VS50	-016	-020	-022
4V36	-016	-020	-021
4V40	-017	-021	-023
4V46	-018	-023	-025
4T46	-018	-024	-026
4T50	-018	-026	-028
4VS50	-018	-026	-028

**THE  
ENGLISH JOINERY MANUFACTURERS ASSOCIATION  
(INCORPORATED)**

SACKVILLE HOUSE, 40 PICCADILLY, W.1

RÉGENT 4448

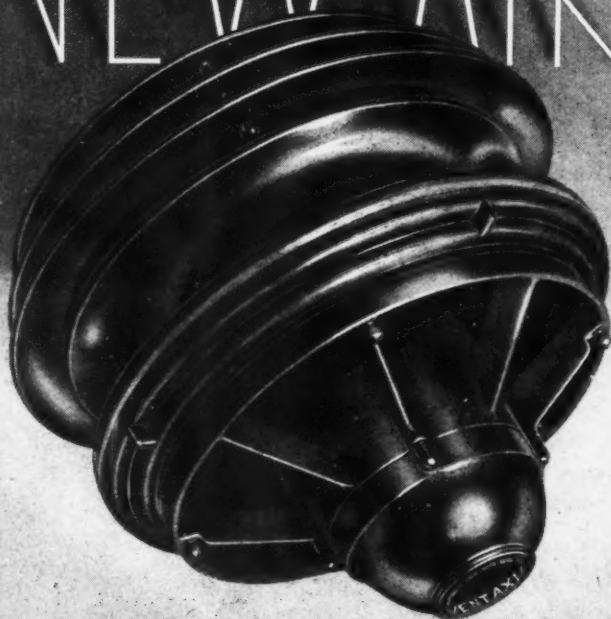
EJ.X/4-47







# NEW AIR

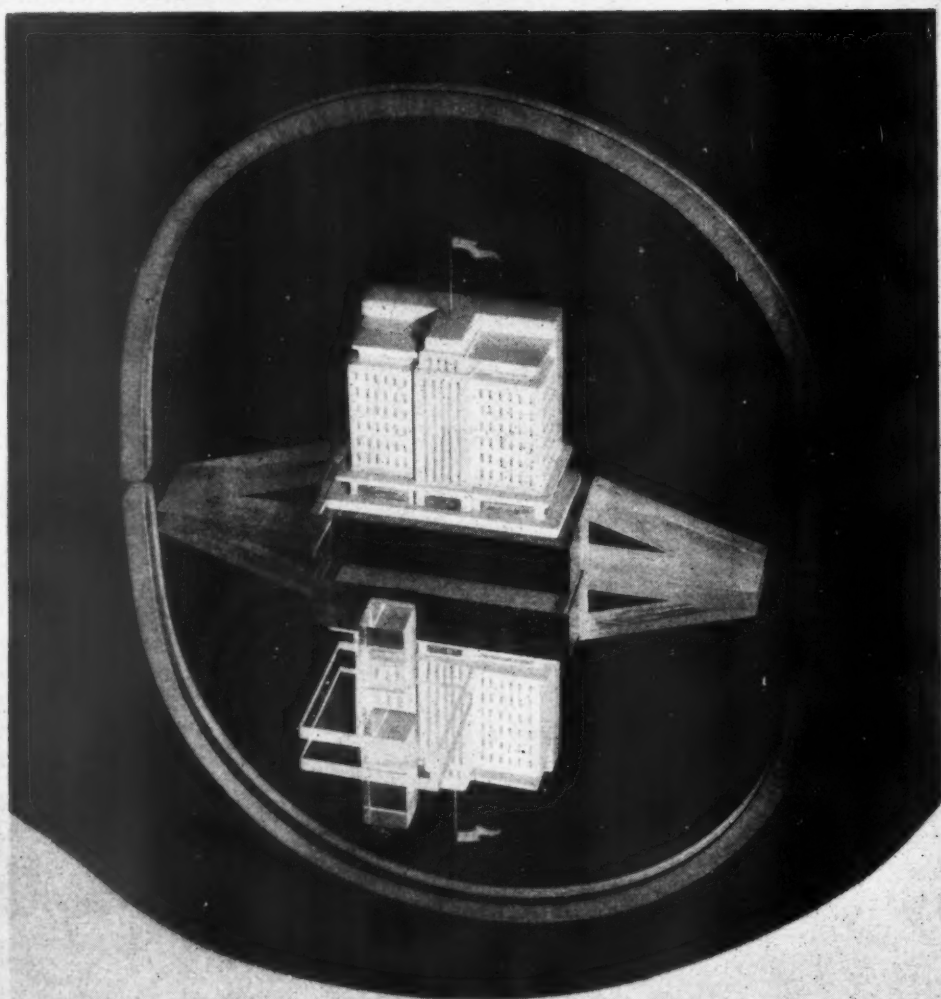


WITH

## *Vent-Axia*

THE SIMPLEST AND MOST 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



## DEVELOPMENT

Store and Shop Designs which are revolutionary in an attempt to be different have no place in good planning. Our work is evolutionary, based on long experience and an understanding of Modern Sales technique.

CRAFTSMEN IN WOOD AND METAL

# GEORGE PARNALL

AND COMPANY LIMITED

4 BEDFORD SQUARE LONDON, W.C.1.



In  
no  
pe  
8

I  
M

T  
P  
B

E  
D  
F  
(S

L  
C  
ti  
in  
N  
H

/fe  
T  
W  
vi  
an  
w  
£  
£  
fe  
th

E  
si  
tr  
E  
v  
E  
h  
in

h  
to  
P  
M  
to  
E  
in  
p  
(  
c  
a

C  
M

A  
t  
V  
M



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

Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw material now in short supply, are not necessarily available for export.



# NEWS

THURSDAY, October 23, 1947  
No. 2750 Vol. 106

News .. .. .	355
Jobs in the Making: US Sports Club .. .. .	356
This Week's Leading Article ..	357
Astragal's Notes and Topics ..	358
Letters from Readers .. .. .	359
At the Inland Waterways Exhibition .. .. .	360
Information Sheets:	
33.P.1 Sheet Manhole Covers	Following page 360
26.C.1 Morliss Fencing and Gates	

Factory at Dundee for National Cash Register Company. Designed by J. Stanley Beard, Bennett and Partners.. ..	361
Societies and Institutions ..	367
Competition for Exhibition Stand: Winning Design. By Deryck Vesper .. .. .	368
Floating Homes from Assault Landing Craft .. .. .	369
Technical Section: Information Centre .. .. .	371

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.

★★

**The National Joint Council for the Building Industry has finally approved proposals for a GENERAL WAGES INCREASE of 3d. an hour for craftsmen, with 80 per cent for labourers, and for payment by results.**

The new agreement will operate from the first pay week after November 16, and it is accepted by both sides that no further alteration of wage status or adjustment of payments will take place before February 1, 1949. The 3d. an hour increase will mean that craftsmen in inner London receive 2s. 10½d. an hour instead of 2s. 7½d., and in a 44-hour week will earn £6 6s. 6d. instead of £5 15s. 6d., with bonus payments in addition. Increases in other areas will be on a similar scale. Lowest paid craftsmen will receive 2s. 7½d. an hour instead of 2s. 4½d. and £5 15s. 6d. for a 44-hour week instead of £5 4s. 6d. Labourers' rates are 80 per cent. of those of craftsmen in all cases.

## DIARY FOR OCTOBER NOVEMBER AND DECEMBER

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

**BRISTOL.** *Building Science Exhibition.* At George Wills Museum. (Sponsor, DSIR.) UNTIL NOV. 1

**FOLKESTONE.** *Fourth Building Congress.* At Leas Cliff Hall, Folkestone. (Sponsor, BINC.) Admission 1 guinea. Nov. 18 and 19

**LONDON.** *The Miner Comes to Town Exhibition.* At the COI Exhibition Centre, Marble Arch. There are nine sections dealing with all aspects of the mining industry. (Sponsor, COI for MFP and NCB.) UNTIL OCT. 23

*Woman's Fair Exhibition.* At Dorland Hall, Regent Street, S.W.1. (Sponsor, "Woman.") UNTIL NOV. 22

*Helping Young People to See.* A conference on design for Youth Leaders and Teachers. At Brown's Hotel, Dover Street, W.1. The conference will include lectures, visits, discussions: on content and method, and social functions. The resident fee, which includes a visit to the theatre, is £5 10s. 0d., and the non-resident fee is £2 10s. 0d. Copies of the programme and forms of application may be obtained from the DIA headquarters. (Sponsor, DIA.) UNTIL OCT. 30

*The Englishman's Home: A History of House Design.* An Exhibition of posters designed to meet the needs of schools for illustrative material on housing and history. The Exhibition provides a rapid survey of the developments in the architecture of the Englishman's Home from the early primitive huts to the modern "prefab." At the Housing Centre, 13, Suffolk Street, S.W.1. UNTIL NOV. 1

*Architects' Working Drawings.* An exhibition of drawings that a practising architect hands to a contractor. Drawings by Sir Patrick Abercrombie and Richard Nickson, Maxwell Fry, and R. H. Matthew, Architect to the LCC, are included. At the RIBA, 66, Portland Place. Students' Evening with exhibiting architects present to explain their drawings, 6.30 p.m., Oct. 29. (Sponsor, RIBA Board of Architectural Education.) 10 a.m. to 7 p.m. Saturdays, 10 a.m. to 5 p.m. UNTIL OCT. 30

*Curtains and Murals, designed by Michael O'Connell for Industrial Canteens and Small Theatres.* At Heal's, 196, Tottenham Court Road, W.1. UNTIL OCT. 31

*Joan Whitgift. Some Aspects of Domestic Electrification in the USA.* At the Institution of Electrical Engineers, Savoy Place, Victoria Embankment, W.C.2. (Sponsor, Electrical Association for Women.) 6 p.m. OCT. 23

*F. S. Snow. Presidential Address to the Institution of Structural Engineers.* At 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6 p.m. OCT. 23

*Charles Madge. The Social Growth of a New Town.* At the Planning Centre, 28, King Street, Covent Garden, W.C.2. (Sponsor, TCPA.) Buffet lunch, 12.35 p.m. Talk, 1.15 p.m. OCT. 23

*Course of Lectures. School Planning and Construction.* At the RIBA, 66, Portland Place, W.1. The course will be open to members of the RIBA and of allied Societies and, in addition, the Clerks to Local Authorities will be invited to nominate professional representatives to attend. (Sponsor, RIBA.) OCT. 23-24

*Annual Dinner and Dance, Institute of Registered Architects.* At Park Lane Hotel. Guest of honour, Rt. Hon. Lewis Silkin. (Sponsor, IRA.) Reception, 6.30 p.m. OCT. 24

*Mrs. Alexander. The Educational Centres Association.* At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) 1.15 p.m. OCT. 28

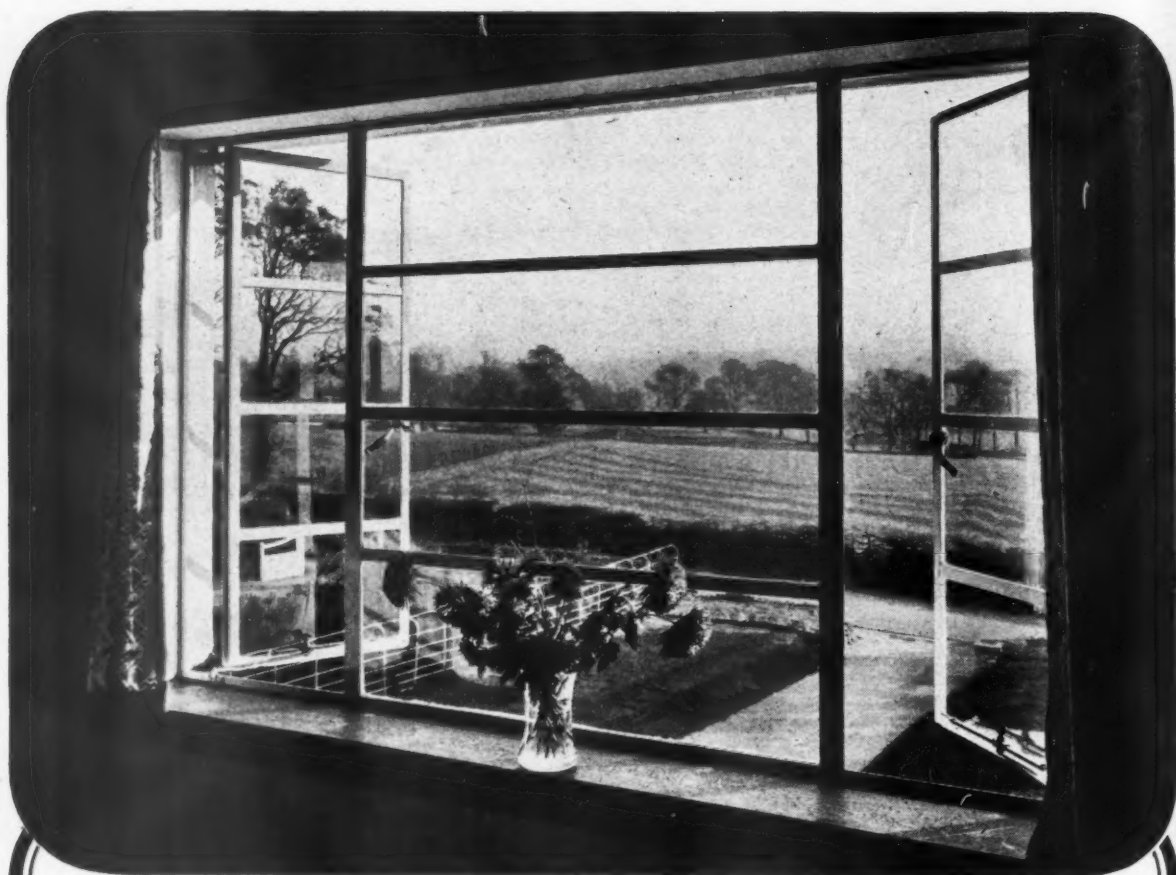
*Annual General Meeting of the Architectural Association.* Howard Robertson. *Quality in Architecture.* At 36, Bedford Square, W.C.1. 7.45 p.m. OCT. 29

*Dr. M. D. Whinney. Mortlake Tapestries.* At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, Courtauld Institute.) 5.30 p.m. 2s. OCT. 28

*J. L. Adam. Presidential Address to the Institute of Welding.* At the Institution of Civil Engineers, Great George Street, S.W.1. (Sponsor, IW.) 6 p.m. OCT. 29

**MANCHESTER.** *Regional Building in America.* Exhibition prepared by the Museum of Modern Art, New York. At the Municipal School of Art, Cavendish Street, All Saints, Manchester. 15. (Sponsor, Arts Council.) UNTIL OCT. 28

**TONBRIDGE.** *Exhibition of Work by Planning Students of The Polytechnic, Regent Street.* Some individual studies based upon the results of the Planning Survey of the Tonbridge and District Joint Planning Committee area, carried out by the Diploma Year students of Planning, are included, together with additional survey material loaned by the Tonbridge and District Joint Planning Committee. At Tonbridge School. (Sponsor, The Polytechnic School of Architecture, Regent Street.) Monday, Wednesday and Friday, 2-4 p.m. Tuesday, Thursday and Saturday, 2-6 p.m. OCT. 27-Nov. 1



# HOPE'S STANDARD WINDOWS

ARE NOW AVAILABLE FOR  
QUICK DELIVERY

*Send for Catalogue No. 230*

HENRY HOPE & SONS LTD., Smethwick, Birmingham  
LONDON: 17 Berners Street, W.1

## From AN ARCHITECT'S Commonplace Book

**PAINTING AS AN ART.** [From *Concerning the Spiritual in Art*, by Wassily Kandinsky (Wittenborn, Schultz, Inc., New York).] Painting is an art; and art is not vague production, transitory and isolated, but a power which must be directed to the development and refinement of the human soul, to raising the triangle of the spirit. If art rejects this work, a pit remains unbridged; no other power can take the place of art in this activity. And sometimes when the human soul is gaining greater strength, art also grows in power, for the two are inextricably connected and complementary. Conversely, at those times when the soul tends to be choked by materialist lack of belief, art becomes purposeless, and it is said that art exists for art's sake alone. The relation between art and the soul, is, as it were, doped into unconsciousness. The artist and the public drift apart, until at last the public turns its back, or regards the artist as a juggler whose skill and dexterity alone are worthy of applause. It is important for the artist to gauge his position correctly, to realize that he has a duty to his art and to himself, that he is not a king but a servant of a noble end. He must search his soul deeply, develop it and guard it, so that his art may have something on which to rest and does not remain flesh without bones. *The artist must have something to communicate, since mastery over form is not the end but, instead, the adapting of form to internal significance.*



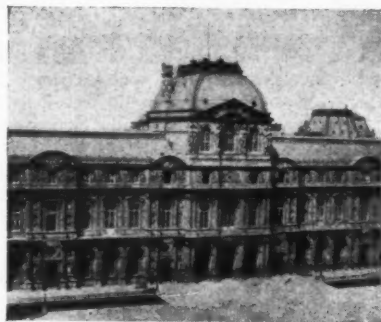
Leas Cliff Hall, Folkestone, in which the Fourth Building Congress is to be held. See News item.

★★

**A member of the Building Industries National Council Fourth Building Congress Committee: During 40 years' experience of the building industry I have never known any national drive to be without a parallel BUILDING DRIVE.**

Speaking at a Press Conference dealing with the Fourth Building Congress to be held at Folkestone on November 17-19, the Committee Member cited an example in 1940 when all building virtually ceased overnight. But within six months of the national war effort programme, immense building activity inevitably followed. Any national programme immediately ahead might well involve similar tasks for the building industry despite the announced Government cuts in capital expenditure. The Congress has been divided into four sessions each to be opened with brief addresses by four experts. The programme: Monday, November 17, 2.15 p.m.: Visit to Dover to view the town and to inspect the plans for reconstruction, followed by a reception by the Mayor of Dover; 8.15 p.m.: Films of interest to the building industry. Tuesday, November 18: 10 a.m., Opening of the Congress. Welcome to the Delegates by the Mayor of Folkestone. First session: *The Present Position*. A discussion on what is being done, what are the obstacles to progress, what should be done to expedite progress. Papers: Cyril Walker, *Housing*; G. L. Greaves, *Factories*; C. G. Stillman, *Schools and Other Buildings*; E. H. Ford, *War Damage and Redevelopment*. Tuesday, November 18, 2.15 p.m. Second Session: *What Lies Ahead*. A discussion on the future prospects of the industry, the demand for building, the availability of labour and materials. Papers: Congress Committee of the Building Industries

National Council, *The General Situation*. R. Coppock, *The Labour Position*. P. O. Reece, *Availability of Materials* (1) *A Traditional Material—Timber*. (2) Dr. E. G. West, *A New Material—Aluminium*. 6.45 p.m. for 7 p.m.: Congress Dinner at the Hotel Metropole, Folkestone. Wednesday, November 19, 10 a.m.: Third Session: *Research and Training*. A discussion on research in the building industry, the assimilation into practice of new technical developments, education and training for the industry. Papers: Professor C. A. Mace, *Research*. Alistair G. MacDonald, *The Architect and Technical Development*. J. W. Laing, *The Builder and Technical Development*. J. W. Stephenson, *The Training of Operatives*. 2.15 p.m., Fourth Session: *Problems of Organisation*. A discussion on the operations of the industry under conditions of full employment, the report on "Placing and Management of Contracts," distribution and transport problems. Papers: Sir Thomas P. Bennett, *The Architect*. H. W. Langdon, *The Surveyor*. Nigel Hannen, *The Builder*. Sir Dudley Pryke, *The Distributor*.



The Louvre, Paris, part of which has now reopened. See News item.

**Redecorated and rehung, the GRANDE GALERIE of the LOUVRE has been re-opened.**

It had been closed and empty since the outbreak of war. After the liberation a few smaller galleries were reopened, and a selection of masterpieces was shown. These were closed during the summer, and now something like the original collection of Italian and Spanish paintings is again on view. Cimabue's "Virgin with the Angels" first meets the visitor at the top of the stairs. In the "Seven Metres Hall" are the Italian primitives and the artists of the early Renaissance, including Botticelli and Ghirlandaio. The "Grande Galerie" contains the Renais-

sance painters and their successors down to the eighteenth-century Venetians—Leonardo da Vinci, Raphael, Andrea del Sarto, Titian, Tintoretto, Mantegna, Canaletto, and Guardi. Near the end of the gallery are the paintings of the Spanish school—Velazquez, Murillo, and Goya. As before the war, the centre of the gallery is reserved for the special masterpieces, "Joan of Aragon" and "Baltasar Castiglione," by Raphael, "Francis I" by Titian, and Leonardo's "Mona Lisa." The redecoration of the gallery is not yet quite completed. The walls, now painted, are to be hung with cloth.

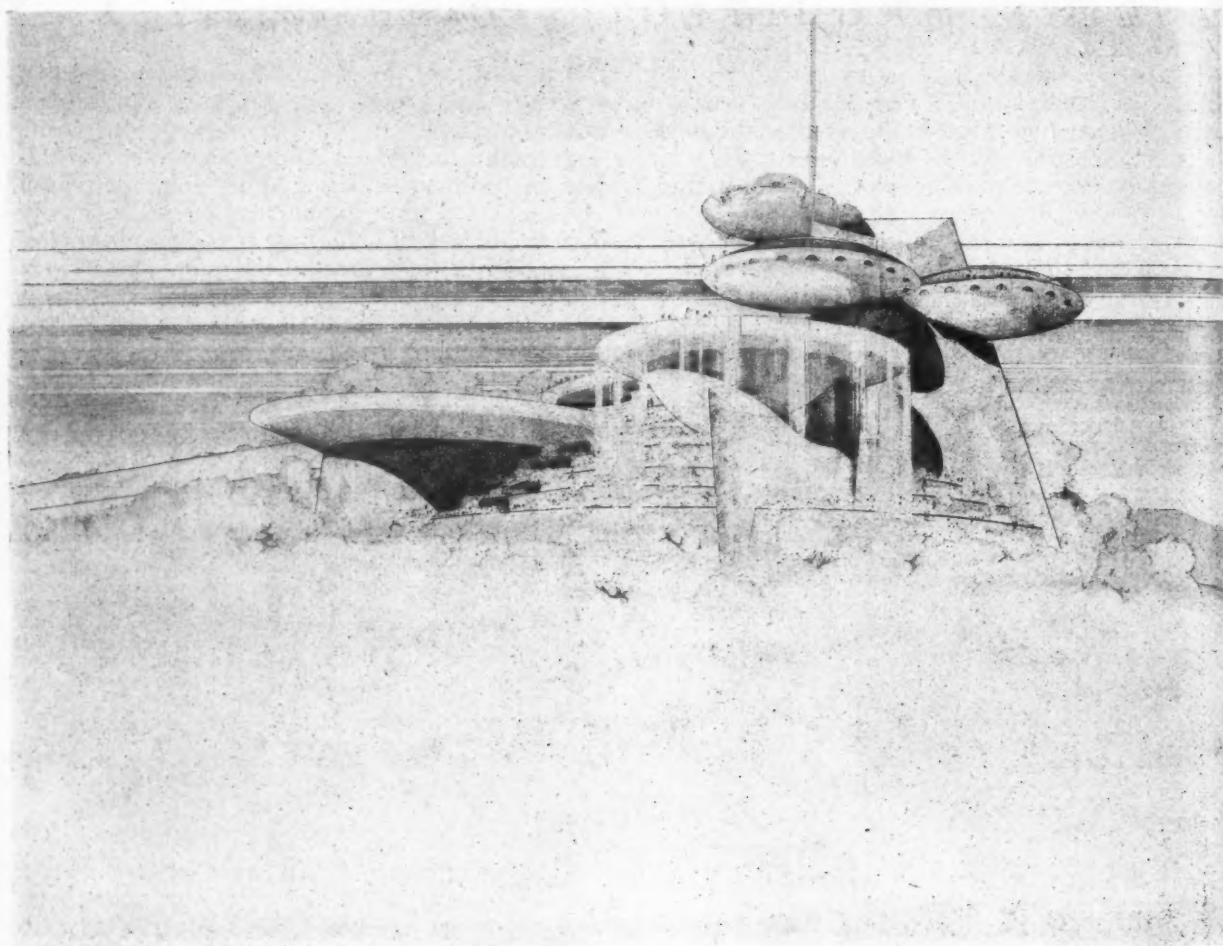
**Mr. S. G. Besant Roberts, Dip. Arch., A.R.I.B.A., at present senior architect on the staff of the Lancashire County Architect, has been APPOINTED DEPUTY CITY ARCHITECT AT MANCHESTER.**

A native of Carmarthenshire, Mr. Roberts was educated at the Welsh School of Architecture at Cardiff, and has held appointments with a number of local authorities. He went to Preston a year ago from the Herefordshire County Council and, during the time he has been in Lancashire, has been engaged largely in the design and construction of new schools. During the war he was a Major in the Royal Engineers, and commanded a company in the field with BAOR.



Mr. S. G. Besant Roberts who has been appointed Deputy City Architect at Manchester. See News item.





## *Jobs in the Making: US Sports Club*

This millionaires' Sports Club in Hollywood Hills for Huntington Hartford is one of Frank Lloyd Wright's latest designs. On the top of a low range of hills overlooking Los Angeles the great stone three-cornered trunk will carry three reinforced concrete cantilevered bowls. The bottom one will be a swimming pool, the centre is a lounge

and the top a restaurant and dance floor. The two upper bowls will have roofs of glass tubing similar to that used on the well-known Johnson Wax building. On the left is another circular area with a massive masonry support that will provide space for tennis courts. At the top of the structure is a sun-bathing deck. Photo by Max M. Klein

*At the Annual Dinner of the Incorporated Association of Architects and Surveyors, held at the Dorchester Hotel, a PRESENTATION was made to Major and Mrs. Athoe.*

The occasion was to mark Major Athoe's twenty-first anniversary as General Secretary of the Association. The chairman, Mr. W. Forbes Campbell, announced the purchase of a country house and estate near Caterham to provide a cultural and recreational centre for the Architectural and Surveying professions.

*Architects and Town planners are being invited to take part in a TOWN PLANNING COMPETITION FOR TANGIER.*

A competition for a town plan of Tangier, open to all qualified architects and town

planners, is announced in the official bulletin of the International Administration of the Zone of Tangier. Prizes totalling two million Moroccan francs will be awarded to the four best surveys and town planning schemes based on the outline plan held at the International Administration's offices in Tangier. The competition is for a comprehensive planning scheme, preceded by a survey, of the town and surrounding area, including the native quarter. The scheme must provide for residential, commercial and industrial areas and shopping centres; parks, gardens and recreation spaces; public buildings, including theatres and a casino; traffic routes and parking spaces, and public services. The four competitors who produce the best planning schemes will be invited to compete for the final town plan. Entries will be judged by a panel of officials of the International Administration, guided by a commission of technical and administrative experts. Closing date for entries is in April, 1948. Details may be obtained from the International Administration of the Zone of Tangier.

★★

*The Common Council of the City of London has approved the report of Mr. S. B. Donkin on the possibility of providing a SYSTEM of DISTRICT HEATING for the rebuilt area of the City.*

The conclusions in the report prepared for the Improvements and Town Planning Committee, are that a system of district heating for the rebuilt areas should be provided by means of the heat-electric system, subject to its being economically adapted during the period of reconstruction. It has not been possible to find a site for a fuel burning generating station inside the City area, and it is proposed that one or more stations shall be situated outside on sites of existing or discarded electricity stations from which heat could be transmitted to substations within the City by underground pipes. A generating station on the south bank of the Thames is proposed, if permission is obtained.



★★  
*The Government's plan for CUTTING the CAPITAL INVESTMENT programme has been outlined to building employers and union leaders by the Minister of Works.*

The Minister emphasised that the cuts had not been finally decided and gave assurance to the industry's representatives that they would be given an opportunity to advise on the working-out of the cuts. They will be spread over a period and will not involve any immediate dislocation of the housing programme or widespread unemployment among building operatives. One difficulty has been to decide at what stage a building project becomes "work started," and whether "start" means the blue-print or contract stage, or work under actual construction.

*Mr. Clifford Holliday, M.Arch. F.R.I.B.A., M.T.P.I. has been appointed CHIEF ARCHITECT PLANNER, by the Stevenage Development Corporation.*

In a distinguished career, Mr. Holliday has been directly engaged in the planning of four new towns: *Nathania*, Palestine, for a population of 30,000 persons. *Emek Zebulon*, Palestine, in partnership with Sir Patrick Abercrombie, an industrial and residential town for an ultimate population of 250,000. *Kimcorth*, Aberdeenshire, a complete satellite town on a 600 acre site, for a population of 20,000. The project (done jointly by Messrs. Holliday, Medwin and Winston) won an international competition in 1938. *New Anuradhapura*, Ceylon, designed to replace an existing town which had encroached on part of the sacred Buddhist Capital of Ceylon—an agricultural town of 25,000 population. In addition, he prepared planning schemes for six existing towns in Palestine, England, Ceylon, and an outline plan for the colony of Gibraltar. With Sir Patrick Abercrombie he designed a layout for the University of Ceylon. Clifford Holliday's main appointments have been Research Fellow in Civic Design at Liverpool University, and Joint Editor of *Town Planning Review*, 1922-23; Civic Adviser to the City of Jerusalem, 1923-37; Town Planning Adviser and Architect to the Government of Palestine, 1928-34; Private practice 1934-44; External Examiner in Town Planning at London University, 1938; Planning Consultant, Gibraltar, 1944-47. Mr. Holliday was a student at Liverpool University, where he studied Architecture and Town Planning under Sir Charles Reilly, and Sir Patrick Abercrombie.



*Mr. Clifford Holliday, who has been appointed Chief Architect Planner by the Stevenage Development Corporation. See news item above.*

## TO PROFESSIONAL SERVICES

ARCHITECTS in practice are in a dilemma. While their services are too frequently not understood or even mistrusted, they are at the same time ill-rewarded. If increased fees are to be demanded it seems likely that less work will be entrusted to architects.

It is assumed that the readers of the JOURNAL are agreed that the architect has a valuable, indeed an essential function to fulfil. It follows that he should receive a proper remuneration for his services. As there is likely to be a large cut in the building programme, architects will have time and opportunity to reconsider their position, economic and social.

It certainly does not appear that the RIBA has succeeded in maintaining a reasonable level of fees for architects in private practice. While the argument that the standard percentage on the increased cost of building will adequately cover the increased overhead expenses of the architect appears reasonable enough, it must be remembered that many architects are working for public authorities at scales of fees well below the standard rates, and it does not take into account that the architect's work has changed somewhat. It is a common experience for the architect to spend more time on additional administrative work in licensing, negotiations with public departments of all kinds than on his proper work, which remains precisely as it was before.

It is unfortunately true that cheap architects produce bad architecture. While for his private work the architect receives 6 per cent, for his work for local authorities he may receive as little as  $2\frac{3}{4}$  per cent. Yet his work is no less. In fact he has to do more work than was originally envisaged in the standard scale of fees for less than half the fee. The architect who is determined to do the best possible work cannot exist on fees such as those embodied in the Scale of Architects' Fees for State-aided Multi-storey Flats. Only by doing shoddy work and leaving the rest to builder and Local Authority can an architect show a profit on the scale fees.

The well disposed Local Authority wishing to employ a architect recognised for his creative work cannot even if it wishes so do so pay an adequate fee. The RIBA scale must be observed, for the Auditors would certainly disallow additional expenditure. The position is, then, that the architect who does good work and is conscientious in dealing with all the problems that arise in matters affecting labour, materials and progress on the site is penalised, and, in fact, cannot make ends meet; while the architect who is content to turn out inferior standardised work and is willing to let others accept responsibility for seeing that a job is kept running under present difficulties is able to profit by his irresponsibility. In respects other than the level of its fees the scale for multi-storey flats is unsatisfactory. Its wording is inadequate and confusing, and allows of wide variations of interpretation, while the reference to repeated work encourages one of two courses, the use of standardised solutions with no attempt

at adequate architectural solutions or an attempt at bogus variations without any architectural justification.

The same difficulties arise in the use of the scale for housing schemes for local authorities, and the LCC scale paid to private practising architects invited to design schools and hospitals for the Council. The responsible architect often devotes a great deal of time to the study of problems which the local authority's architect cannot undertake due to the pressure of committees, and the shortage and frequent inadequacies of staff.

It is time that two parallel actions were taken by the RIBA and other professional bodies. An intensive propaganda to convince the public of the necessity of architecture and an immediate revision of the scale of fees for all classes of work to ensure that those architects still able to practise their profession will be adequately paid.



*The Architects' Journal*

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

# N O T E S & T O P I C S

## STEVENAGE AND . . .

The Corporation has at last appointed an Architect Planner. Mr. Holliday, from the wide range of his experience both as a planner and a designer of buildings, seems to be a very competent individual, though he will no doubt find the temperament and tempers of the future inhabitants of Stevenage somewhat different from those of the new Nathania and other Middle East towns where he has been principally engaged.

Stevenage continues to be the ugly duckling or odd man out of the Greater London new towns. There is apparently to be no distinction between the planning consultant and the chief architect—both jobs will be largely combined in the person of Mr. Holliday. He will, however, not have the

pleasures and pains of preparing a master plan. That, as readers of the *Journal* know, has already been done at MOTCP. It seems probable also that the Ministry will keep a somewhat more intimate grip upon Stevenage than on the other three new towns, and will to some extent act *in loco consultantis*.

Being so fathered, there is some hope that the present ugly duckling will turn into a veritable swan. Or, is there?

## LIVERPOOL

Two of the three important architectural appointments are now filled. CID has its new director, Stevenage has its Architect Planner, but Liverpool is still without its professor. As a hot tip it is rumoured that the favourite is a post-closing date entry. It is a pity that the selectors had not the courage to declare that another individual had been invited to apply for the job with gilt-edged chances, after interviews had been arranged. Apart from the unhappy way in which the appointment is being made, the favoured candidate, an old Liverpool student will, if appointed, do a very good job.

## POLESDEN LACEY

Last Sunday, in company with several hundred other fellow property-owners, I visited Polesden Lacey, the National Trust estate near Dorking which was left to the nation by the late Mrs. Ronald Greville. The day was warm and sunny. Cars glittered in the car park;

hikers lay like shoals of herrings across the shimmering green lawns; children clambered happily over the statuary; in the laurels near the dog cemetery the curator, Robin Fedden, could be seen miserably searching for a lost tennis ball; queues waiting to see the interior trailed from the front door across the drive.

The wait was well worth while. Externally, the house, designed originally in 1824 by Thomas Cubitt, is a pleasant rambling building which has been casually extended from time to time by its late owner. Internally, however, it has been largely reconstructed by some engagingly thorough but insensitive hand. [In the new hall, for instance, which was built to house the carved seventeenth century reredos from the Wren church of St. Matthew, demolished in 1881, the architect did not even bother to fit his stained oak cornice gracefully on to the one provided by Sir Christopher.] But the interest and fascination of the house lies not in its architecture, which is unassuming, nor in its contents, which are for the most part unremarkable, but in its period atmosphere, which is quite overpoweringly evocative of Edwardian England.

There is no time more remote than the period just past and not yet fashionably recalled. To those of us still off the Beaton track, diablo and De Dion Boutons, Norfolk jackets and croquet mallets are features of an age more distant, it seems at times, than that of the Pharaohs. At Polesden Lacey the lid is taken off, the relics and idols of that golden age are once more revealed. Persian carpets and Chinese vases, Dutch paintings and French tapestries, Irish linen and Indian silver, all grouped and displayed in that indescribably English way.

Yet the place is no museum. There are no ropes across the chairs, no drugget pathways across the carpets. The guide is well trained in the tradition of Polesden *laissez-faire* and permits you to linger at will among the handsomely framed photographs of Indian potentates, Liberal statesmen and favourite collies or to decipher at leisure the sprawling Royal signatures on cards attached to the Fabergé boxes.

Visit Polesden Lacey, then, before its visual personality becomes, by the turn of fashion's wheel, contaminated by the slime of modishness. And, judging by the latest issue of *Vogue*, you haven't much time.

#### HOUSES OFF THE PEG

Most of us have a vague idea that houses ought to be designed to suit the site as well as the client and have thus taken a poor view of the types who lift a house cold from the papers and dump it down on any old site regardless of aspect. Our disapproval is no doubt heightened by the fact that a possible client has nipped in through the back door, but should we disapprove as much if the client couldn't afford an architect? Would you rather see a few of your houses about (with a fee of a guinea or so a time), or would you prefer spec. builders' reach-me-downs?

I'm asking you to think about this, because I see that the Royal Victorian Institute, with financial help from the enlightened *Melbourne Age*, has started a "Small Homes Service." Clients pay £5 for working drawings, specification, estimates of cost, forms of contract, and unlimited advice on finance, land, furnishings, fittings and equipment. The architect gets £2 for each plan sold.

At first glance I didn't think much of the idea, but when you think a bit more it has its points. Small house designing seldom shows much of a profit, and there are plenty of jobs where one can't really charge scale fees for site visits, and before one knows it one is in the red. So much so that I know several architects who limit themselves to one house a year. But suppose the House Service sold 50 sets of plans? It might work out not too badly. No good here while housebuilding is dead, but in Melbourne it is the architects who run it, so presumably they are satisfied. Anyway, they have averaged 100 inquiries a week (many from clients sent by builders), and are selling about 15 sets of plans a week.

No doubt the scheme wouldn't have worked so well without Press help, but a major factor must be good advice to inquirers and the ability to give them the plan they need rather than the one they've chosen because it has a snug angle-nook.

#### POWER TO THE IWA

Tell me what a man most enjoys at the exhibition of the Inland Waterways Association, now on at Heal's, and I will tell you what he is like. If still a child, he will fall for the charming models of canal boats; if a poet, he will escape into the soothing reality of canal life depicted in the photographs; the artist will look no further than the display of the bright folk art of roses and castles; the architect will gaze long and reverently at the engravings of the early engineering structures.

Astragal, being a philosopher, went to the heart of the exhibition—a large map showing England's rivers and canals. Here you can see the surprising number and length of the navigations; in England alone they run to over 2,000 miles. You can also see how depressingly large a part of this mileage is no longer navigable.

It is the IWA's purpose to urge the revitalization and maintenance of the whole decaying canal system of this country. In this it has no easy task, for it is up against certain powerful vested interests. It has, indeed, already unearthed several pretty cases of deliberate sabotage. One wonders what the Ministry of Transport is going to do about the canals, and hopes that the IWA can bring some healthy influence to bear. The inland waterways of this country can still perform a valuable economic job and can, at the same time, provide delightful waters for pleasure craft and fishing. More power, then, to the IWA.

#### ASTRAGAL



This drawing by Barbara Jones from the *Architectural Review* gives an idea of the characteristic traditional decorations in use on England's canal barges. See Astragal's note on the Inland Waterways Exhibition above.

## LETTERS

C. G. Stillman, F.R.I.B.A.  
(County Architect, Middlesex)

H. S. Goodhart-Rendel, F.R.I.B.A.  
(Hon. Treasurer, Architects' Benevolent Society)

### The New Library of Information Sheets

SIR.—We have been reminded of a commonplace that "developments in the means of spreading information and knowledge have long ago outstripped our ability to make intelligent use of what we learn."

This is not altogether true, of course. There are cases where a particular type of development for spreading information is lacking. In the case of architects, for instance, whose work may often depend upon getting some particular information at a particular time, the means for acquiring it does not always exist.

Grey Wornum has already pointed out that a great deal of our present building data (mostly pre-war) is inadequately prepared and insufficiently reliable.

Paper restrictions no doubt have added to the problem, and incidentally given encouragement to those advertisers who tend to withhold essential facts in order to attract enquiries from which interviews may follow.

This procedure is obviously cumbersome, expensive and wasteful of valuable time, and it often fails to provide what is wanted.

I hope therefore that the lead you have given by re-introducing Information Sheets in the *Journal* will help in raising the standard of advertisements and trade catalogues where technical data is concerned. This is a development in "the means of spreading information" which is long overdue.

If I have any suggestions on this to make, it is that diagrams should be made as intelligible as possible and that the normal plans, sections and elevations, fully dimensioned, are superior to the axonometric projections for anything but the simplest things.

London

C. G. STILLMAN

### ABS Tombola at Olympia

SIR.—Need for funds for the Architects' Benevolent Society is very great and, amongst our other efforts to secure an increase in our income to provide money to meet current and future needs, we are organising a Tombola at Olympia during the forthcoming Building Exhibition.

This Tombola is made possible by the kindness of Mr. H. Greville Montgomery, who is, as in pre-war years, most generously providing a stand and all facilities. The Tombola will be a prize draw and every ticket will win a prize. We are, therefore, appealing for gifts for prizes, such as small sculptures, china, glass and items of household equipment, pictures, either framed or mounted, books on architecture and related subjects.

The ABS urgently asks for gifts of this kind to be sent as soon as possible and before the first week in November, to the Society's Offices at 66, Portland Place, London, W.1. This is a great and easy opportunity of helping the ABS.

Tickets for the Tombola, price one guinea, can be obtained now from the Secretary of the ABS or at the Building Exhibition from the ABS Stand.

London

H. S. GOODHART-RENDEL

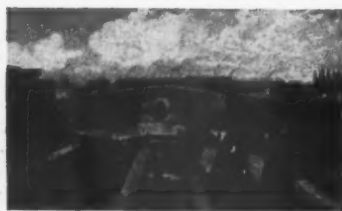


## AT THE INLAND WATERWAYS EXHIBITION



The Inland Waterways Association (11, Gower Street, W.C.1), a voluntary private body recently formed for the purpose of stimulating the revival of our decaying canal system, is now holding its first exhibition, which can be seen at Heal's, in Tottenham Court Road, until November 22. Here is displayed a great deal of information about the canals and navigations of England and Wales and the life that is lived on them. A large map of the waterways, with their many miles of impassable canals, together with a panel of photographs illustrating their derelict state show how necessary is the work of the Association in bringing to the public notice the urgent need for their reconstruction. Photographs and old prints show some of the fine bridges and other engineering structures connected with the canals, which should appeal especially to architects. Models of canal boats can be seen, as well as a collection of the articles used by the boatmen, decorated with bright roses and castles with a traditional folk art of obscure origin. Top left, a cabin roof block. Top right, a print of 1794 of Brindley's first aqueduct at Burton, an example of the early type of masonry aqueduct over which the waterway is carried on a puddled clay bed. Bottom, a print of 1827 of the double lock and east entrance to the Islington Tunnel, Regent's Canal. Right, some of the traditional appurtenances of canal life, a cabin stool and tray, a pair of lace-edge plates, some actual lacework, a water can and a bonnet.

See also Astragal's note on page 359.





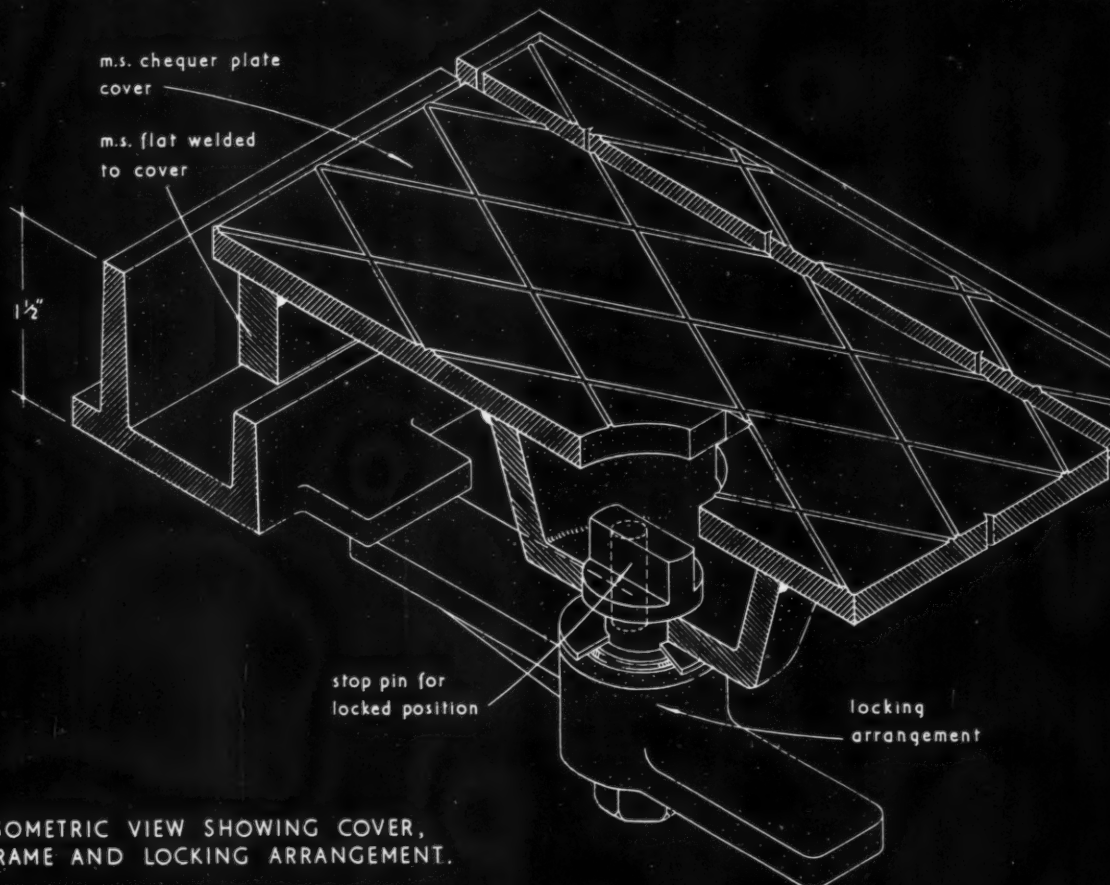




# SANITATION EQUIPMENT

33.PI

The Architects' Journal Library of Information Sheets 7. Editor: Cotterell Butler, A.R.I.B.A.



SINGLE SEAL TYPE.



bearing strips,  
in each corner  
of outer rim



DOUBLE SEAL TYPE.

STEEL MANHOLE COVERS.

Manufacturer: Robert Jenkins and Company Limited.

### 33.P1 STEEL MANHOLE COVERS

#### General

The shock-proof manhole covers illustrated on the face of this Sheet consist of a mild steel plate provided with an integral non-slip chequer surfacing, and welded steel seating strips on the underside. The frames to receive the covers may be of cast iron or welded steel, and are available in either single or double seal type. All covers fit flush with the top of the frame.

#### Carrying Capacity

Each size is available in two weights. Light pattern covers are all tested to withstand the equivalent weight of any wheel of a fully laden lorry up to 5 tons total weight, while heavy pattern covers will carry a load equivalent to that of any wheel of a 10-ton four-wheeler or a 15-ton six-wheeler.

#### Lifting

Two keyholes are provided in each cover, and these are positioned over shallow, circular steel catchments welded to the underside of the cover. The lifting keys are inserted in the wings of the keyholes, and a bearing is obtained by a quarter turn of each key. Handgrips can be supplied in place of keylifts. Locking gear may be fitted to the keyholes of any cover, and special keys are then necessary. When these are inserted and turned through 90°, the cover is unlocked, and may be lifted with the keys. When the cover is replaced, it is impossible to remove the keys without first locking the cover in place.

#### Hinged Covers

Steel chequer plate hinged covers and doors are manufactured to the standard dimensions given below and to special requirements. Covers may have single or double doors, suitably reinforced with welded steel channels and provided with locks and standard lifting keyholes. Hinged covers are supplied with steel frames only.

#### Sizes

The following tables give the sizes of covers and frames available for both single and double seal types.

SINGLE SEAL				
Opening	Weight in lb.			
	Cover		Frame	
	Light Patt.	Heavy Patt.	C.I.	M.S.
12 in. × 12 in.	21	25	14	14
15 in. × 15 in.	24	29	18	18
18 in. × 18 in.	37	45	22	23
21 in. × 21 in.	47	54	24	24
24 in. × 18 in.	50	59	27	27
24 in. × 24 in.	62	73	28	31
27 in. × 21 in.	62	73	28	31
30 in. × 18 in.	66	77	38	33
30 in. × 24 in.	84	101	44	36
36 in. × 24 in.	107	114	47	38
30 in. × 30 in.	104	119	52	39
36 in. × 36 in.	147	163	56	48

DOUBLE SEAL		
Opening	Pattern	Weight per set, lb.
24 in. × 18 in. Cast frame	Light	103
	Heavy	112
24 in. × 18 in. Steel frame	Light	122
	Heavy	132
24 in. × 24 in. Cast frame	Light	132
	Heavy	144
24 in. × 24 in. Steel frame	Light	144
	Heavy	157

Compiled from information supplied by :

Robert Jenkins & Co., Ltd.

Head Office : Ivanhoe Works, Rotherham.

Telephone : Rotherham 4201-6 (6 lines).

(Not in operation until 1948, temporary number Rotherham 1850).

London Office : 149, Abbey House, Victoria Street, S.W.1

Telephone : Abbey 6327.

Copyright Reserved.

The Architects' Journal Library of Information Sheets.

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



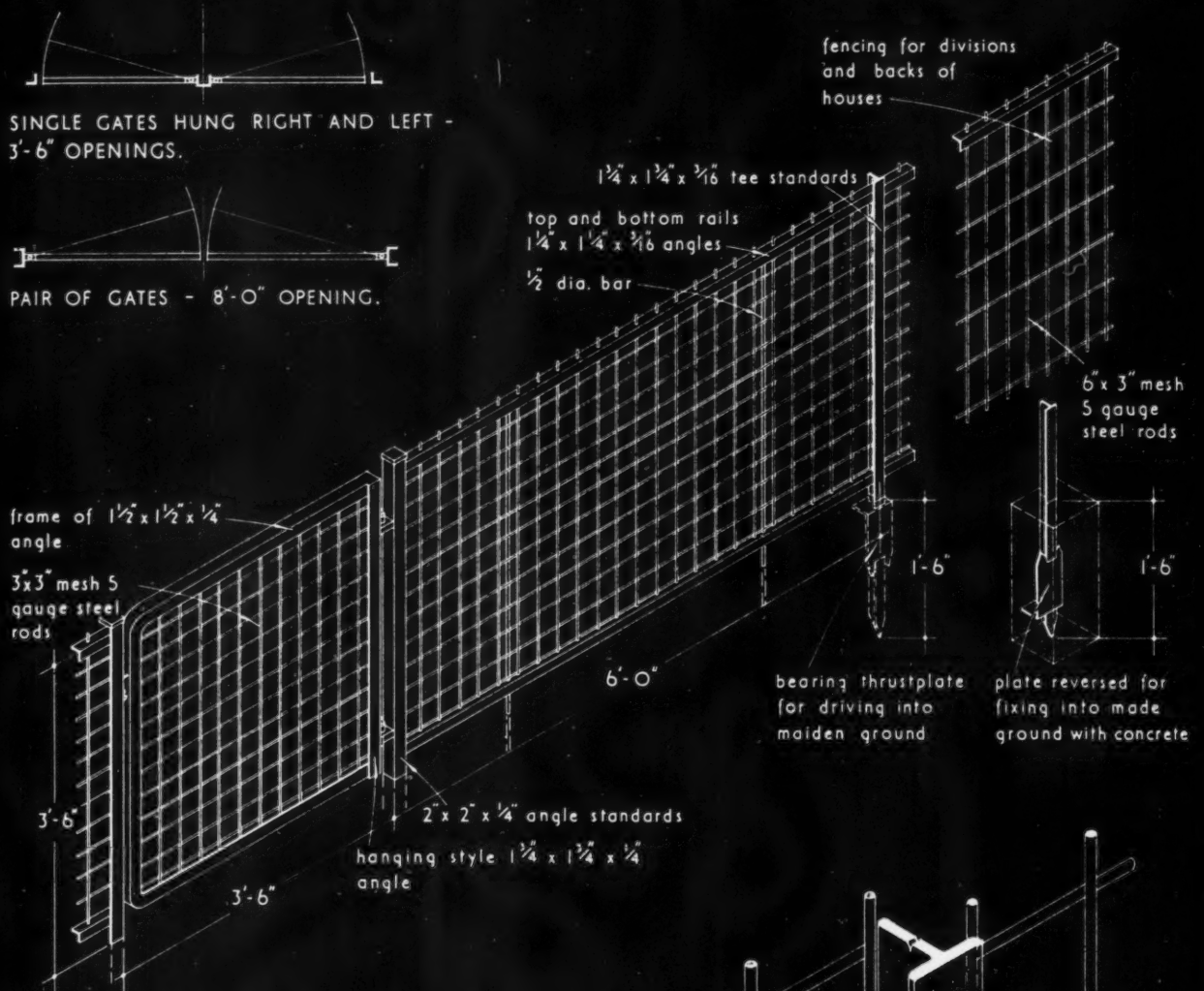




# PRODUCTS MISCELLANEOUS FENCING AND GATES

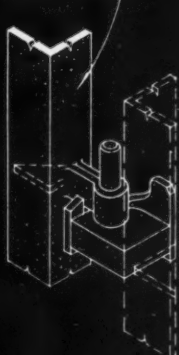
26.C1

The Architects' Journal Library of Information Sheets 8. Editor : Cotterell Butler, A.R.I.B.A.



GATE, FENCING PANEL AND PORTION OF BACK FENCING PANEL.

frame of gate

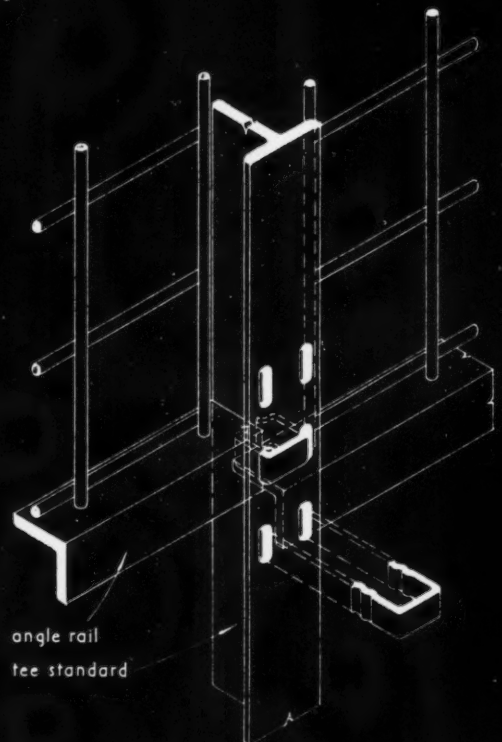


SELF-CLOSING DEVICE ON LOWER HINGE OF GATE.

frame of gate



PENDULUM SELF-ACTING LATCH.



angle rail  
tee standard

DETAIL OF STANDARDS SHOWING HOW PANELS ARE STEPPED TO SUIT GRADIENT.

## 26.C1 ·MORLISS· FENCING AND GATES

### General

This Sheet describes Morliss mild steel fencing which is supplied in two standard types, frontage and division. British patent rights have been applied for. A gate either single- or double-leaf is available for use with each type. The fence is adjustable to gradients up to 1 in 24, 3 ft. 6 in. high and in panels 6 ft. long : single gates 3 ft. 6 in. wide, double-leaf gates 8 ft. wide between posts.

### Construction and Assembly

*Frontage fencing* : This is constructed of 5 gauge steel rods ( $\frac{1}{2}$  in. diameter approximately) welded at intersections forming 3 in. squares and giving  $\frac{1}{2}$  in. of metal at each point. Top and bottom rails of  $1\frac{1}{2}$  in. by  $1\frac{1}{2}$  in. by  $\frac{1}{4}$  in. angle connected to  $1\frac{1}{2}$  in. by  $1\frac{1}{2}$  in. by  $\frac{1}{4}$  in. tee standards by U-clips, there being three sets of slots for clips enabling the panels to be hung at three alternative levels so that fencing may be stepped. Further rigidity of the panels is obtained by two  $\frac{1}{2}$  in. diameter mild steel bars welded to the frame and panels.

The tee standard is fitted with a bearing thrust-plate and is driven into the ground 18 in. The thrust-plate is reversed when fixing into made ground with concrete.

*Division fencing* : This is similar to frontage fencing but has angle rail at top only and one centre stiffener

instead of two. Horizontal rods of the welded mesh are at 6 in. centres forming a mesh 6 in. vertically by 3 in. horizontally.

*Gates* : The single type is hung to 2 in. by 2 in. by  $\frac{1}{4}$  in. angle, double type to 3 $\frac{1}{2}$  in. by 2 in. channel. Gate frame is of  $1\frac{1}{2}$  in. by  $1\frac{1}{2}$  in. by  $\frac{1}{4}$  in. angle, hanging style  $1\frac{1}{2}$  in. by  $1\frac{1}{2}$  in. by  $\frac{1}{4}$  in. angle. A steel rod panel to match frontage fencing is welded to the inside.

*Gate fittings* : The fittings include a pendulum automatic latch and a self-closing device on the lower hinge, as shown on the face of this Sheet. Fittings for 4 in. square wood or concrete posts are available.

### Finish

All material is supplied painted one priming coat of battleship grey. Recommended final painting at site is a good quality oilbound paint.

Compiled from information supplied by :

Bayliss, Jones & Bayliss Ltd.

Head Office : Victoria Works, Wolverhampton.

Telephone : Wolverhampton 20441.

London Office : 139 & 141 Cannon Street, E.C.4.

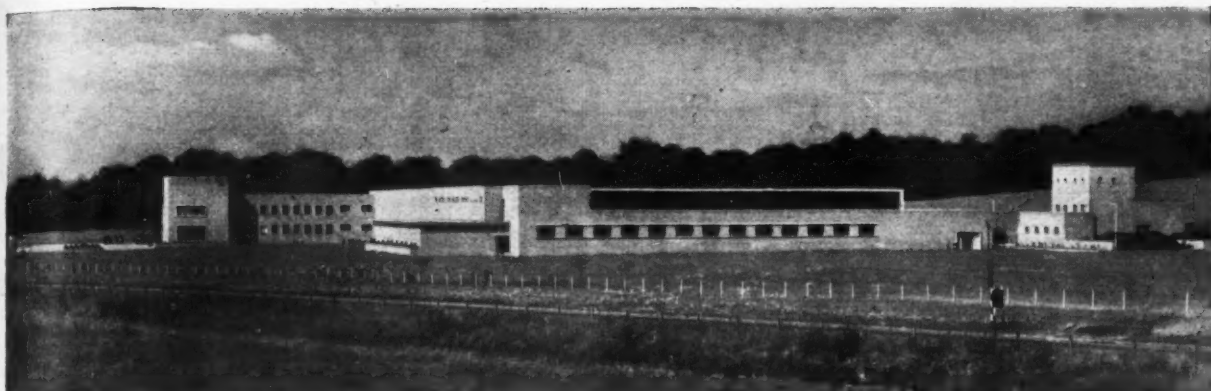
Telephone : Mansion House 8524.

Copyright Reserved.

The Architects' Journal Library of Information Sheets.

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





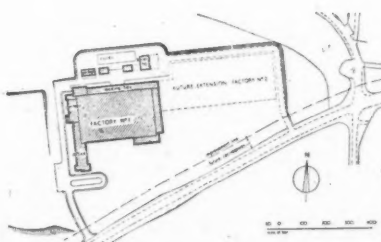
Top, a view of the factory from the south-east and bottom, from the south-west.

# FACTORY AT DUNDEE

FOR THE NATIONAL CASH REGISTER COMPANY

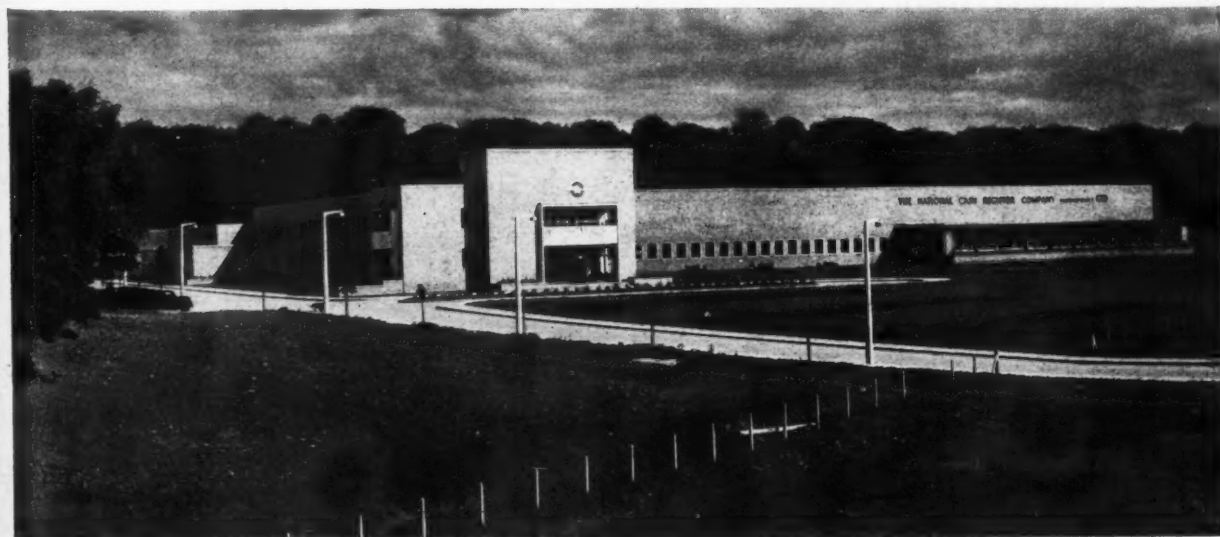
DESIGNED BY J. STANLEY BEARD, BENNETT AND PARTNERS

**GENERAL.**—Factory for the National Cash Register Co., Ltd., to manufacture cash registers, accounting and adding machines. The building is provided with administrative offices, canteen and welfare departments, and general assembly and special manufacturing areas, and provision is made for future extension to manufacturing area and for a training school for training mechanics and engineers.

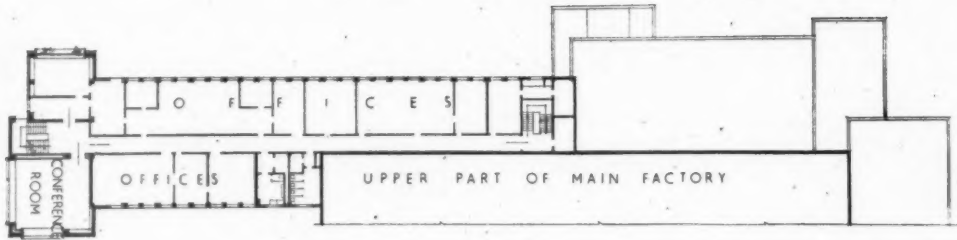


SITE PLAN

**SITE.**—The site covers 44½ acres and is about 3 miles from Dundee, with the main road frontage to Kingsway West, the Dundee bypass. It has a magnificent setting with a background of trees to be preserved and there are extensive views over the River Tay and the surrounding countryside. The site which has a gradual rise from front to back of about 50 ft. 0 in., adjoins Camperdown Park, acquired by the Dundee Corporation



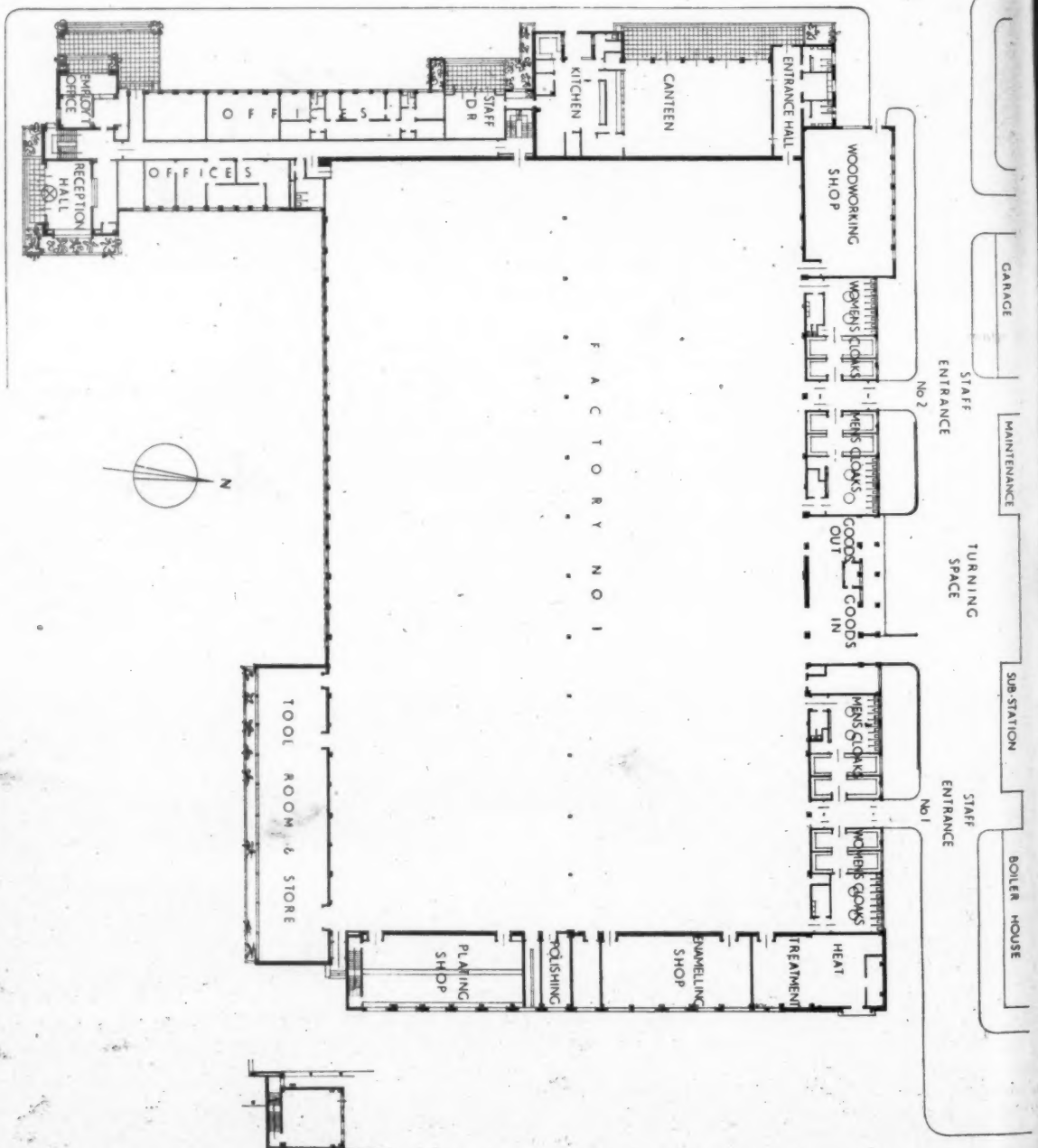
FIRST FLOOR PLAN



SECOND FLOOR PLAN



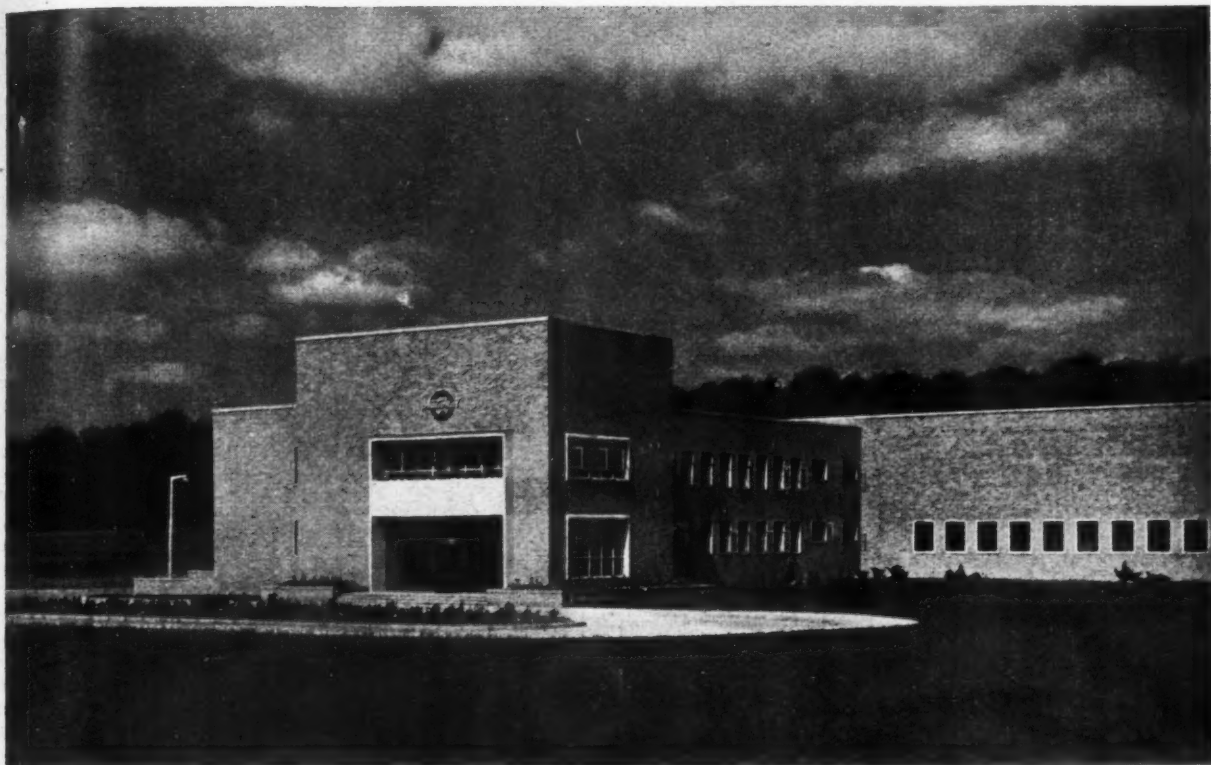
GROUND FLOOR PLAN



[Scale: 1/4" = 1' 0"]

Top,  
and l

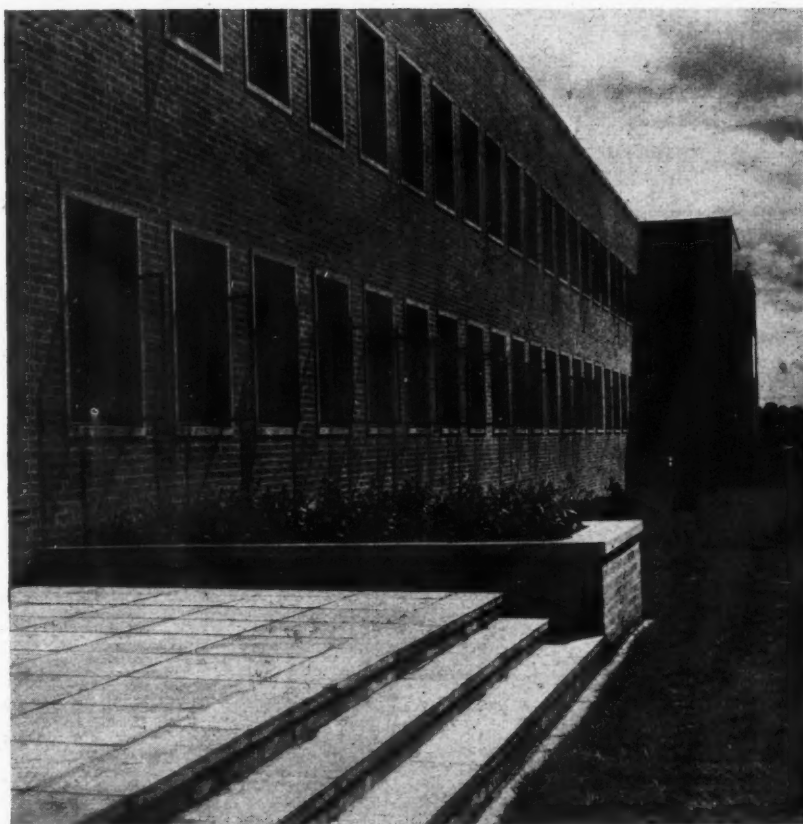
as a  
the  
floor  
the  
back  
lands  
exter  
build  
not  
laid  
and  
and  
laid  
PLA  
were  
asse  
one  
mar  
trea  
woo  
lit  
tive  
sq.  
the  
goo  
and  
par  
clo  
bu  
sul  
an  
all



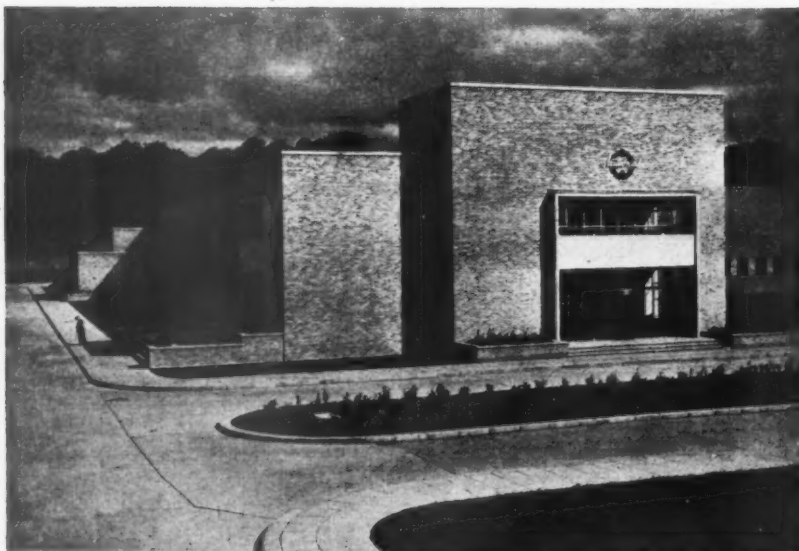
*Top, office block from south-east and bottom, from north.*

as a public open space. Owing to the rise in ground, the ground floor level is about 9 ft. 0 in. above the road. The colouring of the background of trees and local landscape determined the general external colour treatment of the building. All parts of the site not used for buildings have been laid out with landscape gardening and playing fields, tennis courts and a bowling green are now being laid down.

PLAN.—Principal requirements were a large manufacturing and assembly area of 65,000 sq. ft. on one floor with separate special manufacturing rooms for heat treatment, enamelling, plating, woodworking, etc.; a large and well-lit tool making room; administrative offices covering about 18,000 sq. ft.; a canteen connected to the factory and office block with good views across the gardens and playing fields; welfare departments and good lavatory and cloakroom facilities. The ancillary buildings, comprising boiler house, sub-station, garage and maintenance building, are designed to allow for extension. The main



## FACTORY AT DUNDEE



entrance hall and showroom together with the conference room over and factory manager's office are planned to take advantage of extensive views over the countryside.

**CONSTRUCTION.**—All buildings are steel framed. The main assembly area has an internal width of 200 ft. 0 in. divided only by one centre row of stanchions. Walls: Brick of hollow construction with 3-in. wide cavity in view of very exposed situation. Roofs: factory, north light roofing with aluminium alloy glazing bars and wired glass, and opposite slope covered with corrugated asbestos sheeting lined on underside with fibreboard sheeting as insulation. Remaining roofs are flat roofs of hollow tile construction covered with patent felt roofing. Internal walls: hollow tile blocks or brickwork. Floors: concrete or hollow tile. Partitions generally: glazed steel interchangeable partitions. External walls faced with a buff hand-made sand-faced facing bricks with cream tinted pointing. Artificial stone dressings to windows and door surrounds.

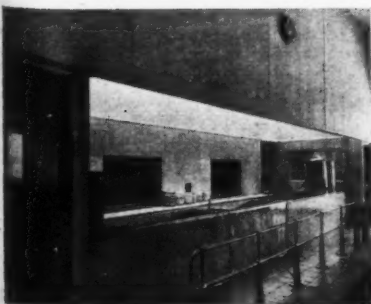
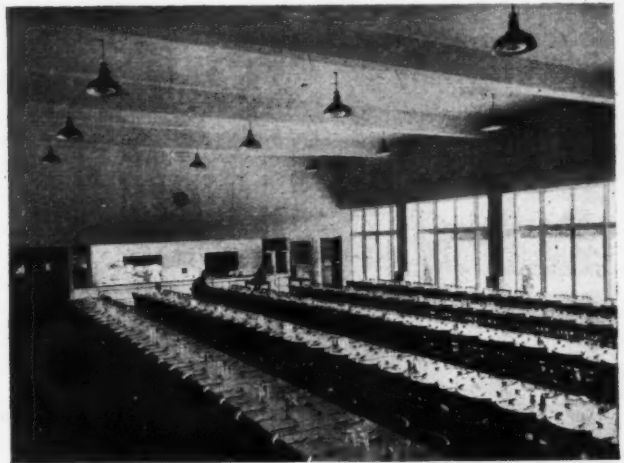
**INTERNAL FINISH.**—Main assembly area and other manufacturing rooms: jarrah wood block floors; painted fairfaced brickwork. Lavatories, cloakrooms and staff entrances: terrazzo tile floor and walls up to 7 ft. 0 in.; plaster ceiling; terrazzo w.e. partitions. Boiler house and sub-station: quarry tile floor; painted fair-faced brick walls. Kitchen: quarry tile floor; terrazzo tile walls to 7 ft. 0 in., plastered above. Canteen: plastered walls; jarrah woodblock floor; fibreboard faced suspended screen over service counter. Offices: plastered walls and ceiling; terrazzo window cills (cream); steel glazed office partitions painted; jarrah wood block floor. Medical section: terrazzo (eau de nil) tiled floor and walls up to 7 ft. 0 in. plastered above; terrazzo cills; surgeon's sink and washup. Entrance hall: polished

*Left, top and centre: office block from north-west; and from south-west. Bottom; northern out-buildings showing boiler house, sub-station, maintenance building and garage.*

*Facing page: top, conference room; and workers' canteen (lighting fittings are temporary). Centre, entrance hall. Bottom, servery of canteen; assembly area; and tool room.*

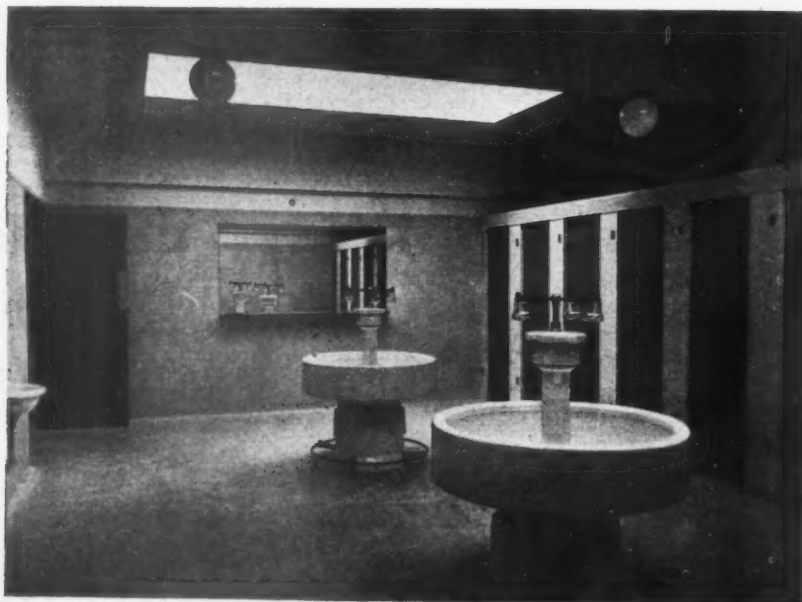
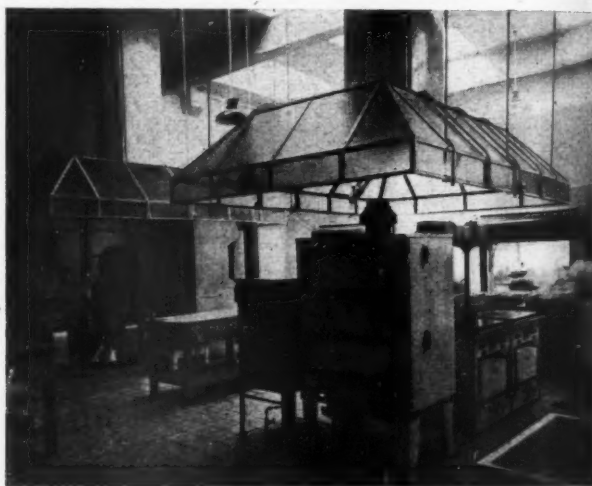
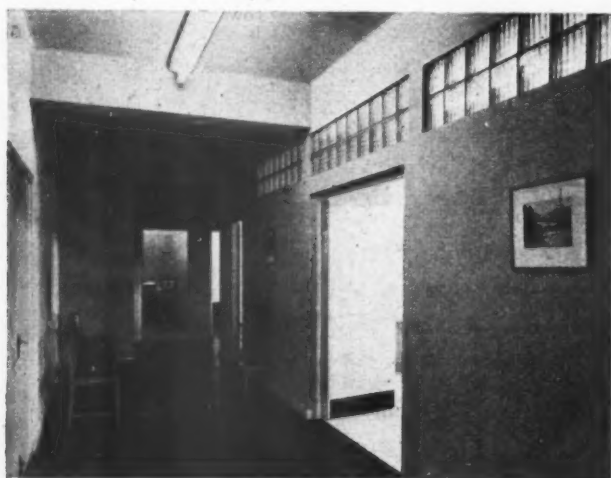
## FACTORY AT DUNDEE





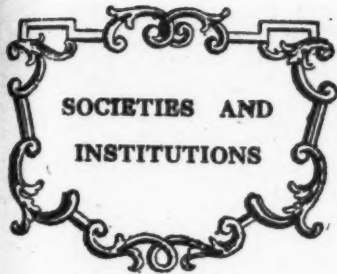


Top: male staff lavatory; and surgery.  
Centre: surgery waiting room; and canteen  
kitchen (pavement lights give top lighting)  
Bottom, female lavatory, north annexe  
(east).



cork floor; terrazzo surround and skirting (dark green); suspended plaster ceiling with lighting coves and porthole lighting fittings; showcase in wood veneered plastic sheets with satin chrome metal frame and plate glass front. It is intended to have a mural painted on the west wall. Main staircase: dark green terrazzo with anodised aluminium balustrade; glass brick window. Conference room and manager's office: jarrah wood block floor; plaster walls; suspended plaster ceiling with coved recess. The general contractors were Sir Robert McAlpine and Sons (Scotland) Ltd. For sub-contractors see page 374.

FACTORY  
AT DUNDEE



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

## Scotland Tomorrow Planning Congress 1947

October 3-6. At Merchant Company's Hall, 22, Hanover Street, Edinburgh. A congress under the patronage of the Secretary of State for Scotland and convened by the Town Planning Institute (Scottish Branch), the Scottish National Housing and Town Planning Council, the Town and Country Planning Association (Scottish Section) and the Royal Incorporation of Architects in Scotland. Among papers read were **THE NEW PLANNING SYSTEM**, by Professor W. G. Holford; **NEW PLANS—NEW ARCHITECTURE**, by Maxwell Fry; and **NEW TOWNS**, by G. L. Pepler.

### THE NEW PLANNING SYSTEM

**Prof. W. G. Holford:** The objects of planning legislation are many, but the really fundamental power that all good Planning Acts should provide is the power to organise and improve the living and working conditions of human beings. Planning attracts all sorts of cranks whose enthusiasm for one form of control outruns their ability to put things in their order of importance—in other words, to plan. This year Parliament has added to the Statute Book the Planning Acts of 1947, probably the most far reaching mechanism for controlling the physical environment in the public interest that any authorities in the world possess. The powers are enormous, but they are completely untried. If the new planning system is to work as intended, it must be handled by people with courage and vision, and not by cranks, so that the life of the average citizen will show some benefit. The most important feature of the new Act is the increase in positive powers of development as compared with negative powers of control. There are at present conflicts between different branches of physical planning, between

physical and economic planning, between both and public opinion. Will the new legislation remove some of these difficulties?

The intentions of the Act are clear. It provides for the making of plans, the control of development and positive action to promote the execution of plans. The old statutory planning scheme was static and unwieldy. The new system is more hopeful, but at present extremely vague. It is worth looking into the prospects of solving in the future what has proved to be an intractable administrative problem in the past, namely, to secure that when land is scheduled for a particular development, that development is actually carried out, is well designed and fulfils its economic and social purpose; secondly, to eliminate waste, by such things as re-claiming derelict land, building on empty sites in central areas, bringing homes and work places into a more satisfactory relationship. No one knows how the powers will be used in practice during a time of intense economic crisis. The old question of "to plan or not to plan" will come up again in new and strange forms.

A most useful train of thought at the present time is a definition of the role of planning, and particularly of essential physical planning, during a production crisis.

### NEW PLANS—NEW ARCHITECTURE

**Maxwell Fry:** The threatened separation of architecture from Town Planning would divert and waste our powers. Our pressing need is to solve the problem of how to build and to rebuild our towns to-day. This problem you must think of as how to bring harmony to the industrialised way of life. How to humanise the dead heat rhythm of the machine. The situation is urgent. The machine moves faster than we. Its system permeates our public life today. It can destroy us as it destroyed Hitler if we do not fight to control it for human uses. Therefore you must say—What can it do that will make it beneficent instead of malevolent? What is its possible contribution to a good life? What is its nature?

Railway and motor car make town expansion possible but unplanned expansion leads to internal confusion. What is to be done? Cut through the tangle or it will kill us. *Separate road traffic from foot*—make rapid transit possible. A crowded mixed traffic street is death, confusion and frustration. A new idea is needed.

The centres of all towns are overcrowded. They are inter-penetrated by rapid transit for which there was *no preparation*. The new idea brings death to the old and cancels speed.

But the old centres are worn out and we have the solution in terms of high building. Lifts and framed building are the machine's contribution for us to use. Think of high buildings, free pedestrian space—separated rapid transit. In those three terms the solution is presented. The "precinct" is an evasion, a moment of quiet from the continuing chaos, rather than an ending of chaos itself. Town planning is too negative. Its germination idea in Britain was the garden city. But that was not idea enough for the occasion, and failed. It increased expansion on the principle and had no solution to offer at the centre. Town planning based on prohibition and two-dimension control is lawyer's planning, a dismal science based on measuring what is already dead. The situation calls for a new synthesis in four dimensions, not two. As in architecture the *section* is all important. We must use the third dimension, *height* at the centre, in order to free movement and bring back the soil now buried under outworn building. That way lies beauty. The two-storey house has its place only in relation to this.

*Prefabrication* is no short cut to new towns. Beware of the prefab unit. It is

not a total answer to our needs, it is as inflexible as the old bye-law street—an economist's but not a humanist's answer. The prefabrication of *building component parts* produces flexibility to deal with all occasions and variations with modular planning as the vehicle of architectural implementation. If we do not seek an answer to this question the home will be treated as an industrial unit, and the machine will once more, control us.

### NEW TOWNS

**G. L. Pepler:** The New Towns Committee has dealt with the subject so exhaustively in their interim and final reports that there is little left to say except by way of comment on those reports.

Is it not true to say that most of the towns we regard with affection are small, have been slow in growth, and show the hand of the craftsman? Today with the crying demand for houses and the need to get industry into full swing again at the earliest possible moment, speed is of the essence of the contract. One of our most difficult problems will be to achieve speed and at the same time avoid the soulless stereotype. Speed demands the use of the machine and much mass production and this should be frankly recognised in our plans and designs. How then can we achieve something with a sense of companionable unity that can be regarded with both pride and affection?

The New Towns Committee rightly points out that it is a matter of team work, but I think it does not sufficiently realize that the leader of the team must be a man qualified in civic design. All the needs of life, work, culture and recreation must be provided for and experts in each of these needs and in the practical arts, crafts, sciences, and businesses required for actual construction, must be employed. But, unless all the time all these experts are guided by someone trained to see the whole as a whole, from start to finish, nothing worthwhile can emerge.

How can a rapidly erected New Town be made to fit into the countryside? If equipped with up-to-date, safe and convenient shopping and amusement centres, it is likely to act as a powerful magnet. Its inhabitants will want fresh food from the surrounding country but it should not draw agricultural workers from the land to its industries.

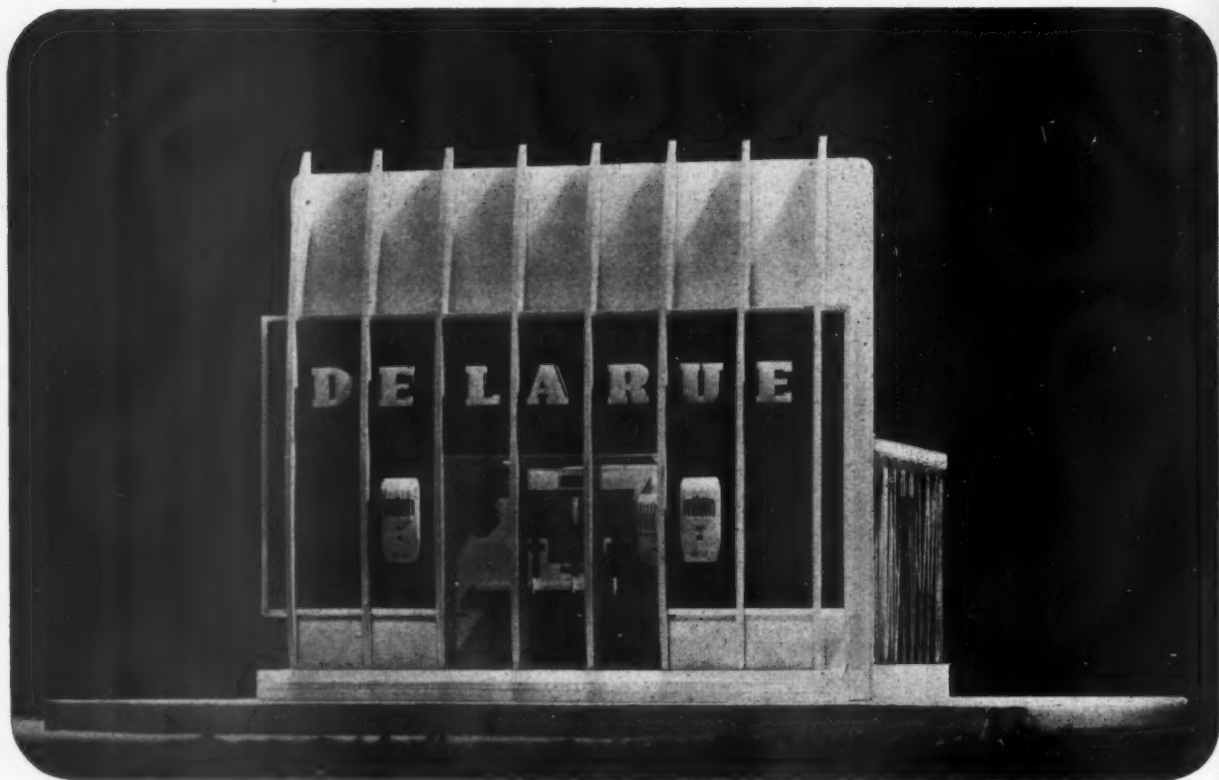
Therefore, as it can, if the right site is selected, be designed to fit into the country, it should be possible to establish neighbourly relationships. Also if its inhabitants are drawn from big cities they can be expected, in time, to respond to the mellowing influence of the countryside.

It has been taken as an axiom that New Towns should be self-contained, but in some circumstances a proportion of dormitory population may help to secure balance, and it might even be the case that a new town predominantly dormitory in character would fit the regional pattern, provided that the amount of travel was not excessive in time or money spent and could be taken in comfort.

## Publications Received

- Russian Icons.* David Talbot Rice (Penguin Books. 2s. 6d.)
- The English Tradition in Design.* John Gloag. (Penguin Books. 2s. 6d.)
- Town Trees.* John Gloag. (Council for the Preservation of Rural England. 9d.)
- Site Investigations.* John Gloag. (British Standards Institution. 10s.)
- Domestic Heating (Rural Areas).* John Gloag. (Women's Advisory Council on Solid Fuel. 2s.)
- U.N. Headquarters.* Le Corbusier. (Chapman & Hall. 21s.)

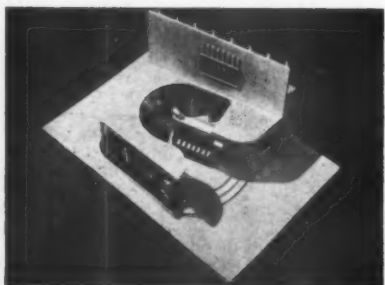
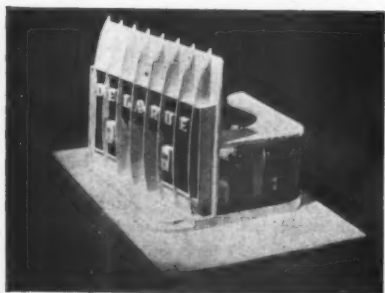




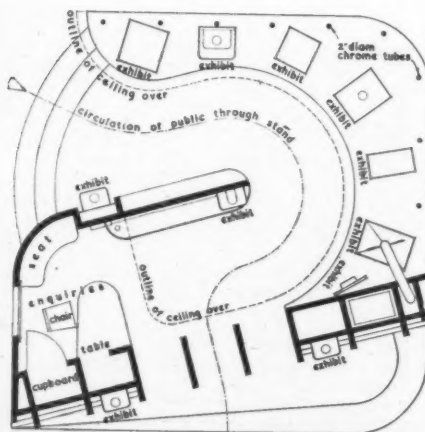
# COMPETITION

## FOR EXHIBITION STAND: WINNING DESIGN

*B Y D E R Y C K V E S P E R*



*Top and left, photographs of the model of the winning design.*



## LAY OUT PLAN

Eighty-seven entries were received in the competition, organised by *Art and Industry* and sponsored by Messrs. De La Rue Gas Development Ltd., for designs for an exhibition stand to display domestic gas appliances. The first prize of 100 guineas was awarded to Deryck Vesper and Messrs. De La Rue hope to erect a stand from his designs at the Building Exhibition, to be held at Olympia next month. The second prize of 50 guineas was awarded to Stanley W. Cox, of Ewell, Surrey, and the third of 25 guineas to Derek Rabley of London. In their comments on the winning design the assessors—Messrs. A. L. B. Leigh Ashton, Director, Victoria and Albert Museum; L. H. Hardern, Public Relations Officer, Gas Light and Coke Co., and G. Grey Wornum, F.R.I.B.A.—state: This design shows a distinctive link and a merging of architectural design with the appliances on display, without losing architectural proportions.





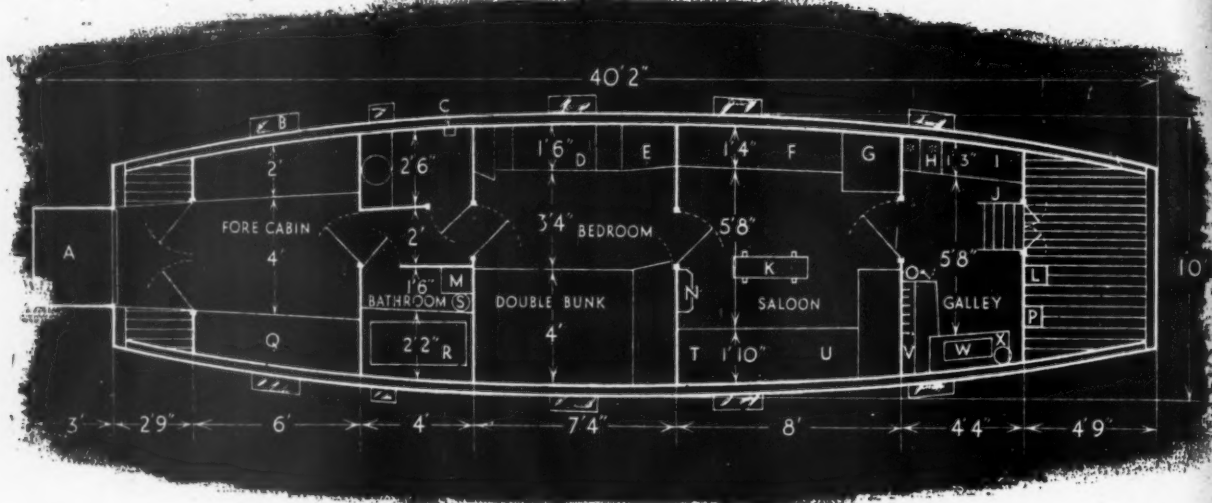
Right: the floating home is boarded by a hinged ramp leading through French doors to the two-berth fore cabin illustrated on the following page. Bottom, a general view showing the ramp in a lowered position.

# FLOATING HOMES

## FROM ASSAULT LANDING CRAFT



Assault landing craft, which played such a vital part in the "D" day landings after their earlier successes in North Africa, Sicily and Italy, are being converted into mobile floating homes by Meikle's Shipyard, Ltd., of Twickenham, Middlesex. Accommodation is for four persons, and each floating home, complete with engine, fittings, and lino on the floor, ready to live in, costs £2,000. The construction is based on the boat-building practice of steel and timber, with cavity walls and ceilings to reduce condensation and eliminate dry rot. Steel casement windows are fitted throughout and there is storage for 175 gallons of fresh water in a galvanised tank



- A. Hinged ramp in lowered position
- B. Steel windows
- C. Bilge pump
- D. Built-in dressing table
- E. Shoe locker with padded seat
- F. Sideboard
- G. Refrigerator
- H. Gas stove
- I. Vegetable locker
- J. Step ladder to after deck
- K. Table
- L. Meat safe
- M. Washbasin
- N. Courtier-type stove
- O. Broom locker
- P. Coal locker hatch
- Q. Single berth
- R. Bath
- S. Water heater
- T. Settee berth
- U. Lockers below
- V. Fitted dresser over engine
- W. Modern sink
- X. Draining board

under the after deck, connected to the galley and bathroom. Lighting is by Calor gas (used for cooking and water heating) or by electricity. This can be generated on board, or if electric mains are available in the vicinity the craft can be plugged in for standard 220 volts. The engine is optional, but a Ford V 8-cylinder engine, giving a normal cruising speed of 6 knots, is usually fitted.

Above, in converting an assault landing craft into a mobile floating home the hull is stripped and supports for the new roof are bolted to the steel frame. Right, the two-berth fore cabin.



## FLOATING HOMES







# WOOD CASEMENT WINDOWS



*Boulton & Paul Limited*

NORWICH

LONDON OFFICE: 14 STANHOPE GATE, W1.

Telephone GROSVENOR 4521

## 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)

*You buy lifelong security — when  
you invest in a **MILNERS***



Choosing a safe is a difficult task—but how is one to choose? Obviously, reputation is the best and surest guide. Here the name of Milners is pre-eminent. For over 100 years Milners—largest safe-makers in the Empire—have built safes and strong-rooms for nearly every world-famous concern, and Milners' safes are to be found in every quarter of the globe. Thousands of owners have sent glowing testimonials, telling how Milners' safes have protected books, money, bullion, and valuables of all kinds from fire, theft, air attack, and every conceivable misfortune. Whether it's a specially constructed strong-room to protect a fortune,

*Safe!*

or whether it's a small safe to take care of personal treasures, you can be sure that you've made the wisest choice when you specify "Milners".

**MILNERS SAFE CO. LTD.,  
58, HOLBORN VIADUCT, E.C.1**

Telephone: CENTRAL 0041/5.

Telegrams: Holdfast, Cent, London.

Factories: Phoenix Works, Speke, Liverpool.

Telephone: Hunts Cross 1281/6.

*This is one of the "B" range of Milners' post-war designs—a masterpiece of security. Further details of this range will be sent on request.*



**MILNERS — THE SAFEST SAFE INVESTMENT**

## TECHNICAL SECTION

The function of this feature is to supply a digest of, and commentary on current information of interest to architects as recorded in technical publications and statements of every kind throughout the world. Items are prepared by specialists of the highest authority who are not on the permanent staff of the Journal, and views expressed are disinterested and objective. Items are printed on one side of the paper only to permit of cutting out and pasting up in classified order in readers' files. The Editors welcome information on all developments from any source.

## INFORMATION CENTRE

To enable items to be filed all information is classified under the following headings:

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

### 5.15 planning: public utilities

#### AIRPORT PLANNING: USA

*Airport Reference*, 1946-1947. L. Black, Editor. (Occidental Publishing Company, New York, USA, 1946, 2 dollars.)

Yearly reference book containing much useful material on various aspects of airport design. Fully illustrated. Bibliography.

Airport construction and operation are analysed in six sections dealing respectively with planning technique, aerodrome surfaces, lighting, buildings, communications, and administration.

It is stated that the intelligent planning of any airport should be preceded by an analytical survey of the community to be served, and should take account of requirements as much as ten years ahead. The more important aspects of such a survey should include an examination of population figures and distribution within the city and its commercial area; of the distance between adjoining cities or airports both present and proposed; of local topography in relation to site selection and construction costs; of local flying activities including both private and commercial aviation; of current airline requirements and estimates of future needs; of the volume of tourist travel to and from the area; of the amount of the city's postal receipts which indicate airmail and express service potentialities; of rental levels and their distribution in order to determine the probable number and location of private aeroplane owners; and of surface transport facilities to potential aerodrome sites as factors in airport utility.

Whether for original construction or for planned expansion of an existing airport a master plan should be drawn up, the principal elements of which are: (1) a property survey; (2) a topographical survey; (3) a

location and obstruction map; (4) an aerial survey of the site and the surrounding area; (5) the compilation of meteorological and soil condition data; (6) contour plans of the landing area; (7) a public utilities plan in regard to water supply, sewerage, power supply and surface transport facilities; (8) runway layouts; (9) location of airport buildings and car parks; (10) landing area lighting plans; (11) consideration of density and control of air traffic; (12) zoning plans; and (13) a plan of development stages.

The book fully discusses all these aspects of a master plan and provides a wealth of useful data regarding actual design, layout, construction and servicing. A select bibliography compiled by the Library of Congress and covering US publications only is appended.

### 21.41 construction: miscellaneous

#### ERECTING STEEL FRAMING

*Steel Erection for the Terrace Plaza Hotel*. (Engineering News-Record [USA], September 4, 1947, pp. 336-9.)

Erection of 6,200 tons of structural steel-work within five months.

Careful planning turned the erection of the framework of the 18-storey Terrace Plaza Hotel (see 10.8, 19.26 and 20.2) into a smooth working operation from start to finish. Four guy derricks were used, three of them with 100-ft. mast and 90-ft. boom. The article describes the various steps in the erection, particularly the repeated repositioning of the derricks made necessary by the setbacks of the steel skeleton.

### 21.42 construction: miscellaneous

#### FIXING DEVICES

*Modern Fixing Technique*. Kenneth E. Caine, Manager and Consultant, Technical Service Dept. of the Rawlplug Co. Ltd. (Journal of the Royal Institute of British Architects, September, 1947.)

Clear explanation of different types of fixing device and the functions they perform. Illustrated.

This article explains clearly how different types of plug act and the kind of conditions for which each type is suited. First there is the ordinary fibre plug which with wood screws provides the best fixing to all hard and homogeneous materials. A variant of this is the metal plug, intended for wet situations such as swimming pools. Where the plug might be pushed right through to a cavity behind the main fixing material a flanged plug is used.

Many new materials, because they are too thin, cannot take a normal grip-by-expansion plug, and for these a toggle plug is used. There are two types, one where gravity will make the toggle fall round and the

other, rather more expensive type, which is spring loaded and can be used for such places as ceiling fixings. There are also variants of this for special cases.

Heavy duty fixings using expanding bolts are described, and one or two special devices are also illustrated.

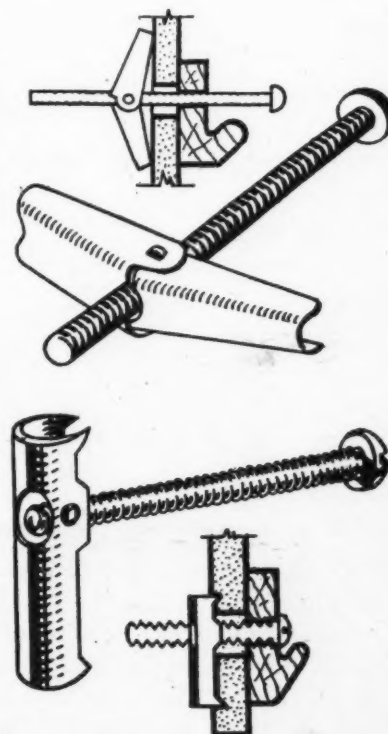
The article is particularly good in that it explains clearly the reason for using different types of plugs and bolts.

### 23.43 heating and ventilation HOUSE INSULATION

*Memorandum on How to Insulate Houses of Traditional Construction*. (Structural Insulation Society. October, 1947.)

Officially recommended standards of thermal insulation for houses now show great improvement over pre-war practice. Claims these standards are entirely practicable in all new housing. List of insulation values for pitched roofs, flat roofs in timber and concrete, walls and ground floors showing pre-war methods and alternatives at present possible but which give the recommended insulation values.

There is no doubt that this list of insulation values for a variety of constructions is a useful reference, and it is to be hoped that it will form one more step in the slow progress of bringing actual construction up to officially recommended standards, but it leaves the designer to work out for himself which method is likely to give the best economic result, and it does not give any indication as to which part of a house is most likely to be worth attention. There have been a number of papers and books dealing with this aspect, but it would have been convenient if the present note could have been made a little more self sufficient by the inclusion of such general guidance in addition to the tabulated data. It would also be of considerable help to designers who are attempting to work to a good



Toggle fixing devices. Above: spring loaded type, bottom: gravity type. See 21.42.



THE ORIGINATORS OF TUBULAR STEEL SCAFFOLDING

**Reg. Office & Works. 53. PLOUGH LANE, LONDON. S.W.17. Tele: WIMBLEDON 6201/5.**

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



standard if the Society could bring into public prominence the fact that many houses are still being built to less than the officially recommended standards. This might perhaps be done by means of a statistically sound sample survey.

## PITCHED ROOFS.

No.	"U" Value.
1.1	Tiles on battens, plaster or plasterboard ceiling. 0.56
1.2	Tiles on battens on felt, plaster, or plasterboard ceiling. 0.43
1.3	Tiles on battens on $\frac{1}{2}$ in. insulating board, $\frac{1}{2}$ in. insulating board ceiling. 0.19
1.4	As 1.2, but with sheet of aluminium foil draped over joists. 0.19
1.5	As 1.2, but with corrugated aluminium foil on plain sheet of foil laid between or over joists. 0.16
1.6	As 1.4, but with $\frac{1}{2}$ in. insulating board ceiling. 0.16
1.7	As 1.2, but with 1 in. loose fill or 1 in. quilt or blanket laid on top of ceiling between joists. 0.18
1.8	As 1.2, but with 1 in. insulating blanket or quilt draped above joists. 0.15
1.9	As 1.8, but with ceiling of $\frac{1}{2}$ in. insulating board. 0.13
1.10	As 1.2, but with $\frac{1}{2}$ in. insulating board ceiling and $\frac{1}{2}$ in. insulating quilt laid between joists. 0.19
1.11	As 1.10, but with the $\frac{1}{2}$ in. quilt draped over joists to include an air space. 0.17
1.12	Tiles on boards and felt, ceiling of 1 in. wood wool slabs plastered. 0.20
1.13	Tiles on battens on 2 in. wood wool slabs, plaster ceiling. 0.19

## FLAT ROOFS (TIMBER).

2.1	1 in. (nominal) timber boarding covered with roofing felt or asphalt; ceiling of plaster or plasterboard under timber joists. 0.32
2.2	As 2.1, but with $\frac{1}{2}$ in. insulating board in place of plaster ceiling, and $\frac{1}{2}$ in. insulation board under roofing. 0.17
2.3	As 2.1, but with 1 in. corkboard beneath roofing. 0.15
2.4	As 2.1, but with one layer combined corrugated and plain aluminium foil either laid between joists, or across joists under boarding. 0.14
2.5	As 2.1, but with sheet of paper-reinforced aluminium foil draped across joists under boarding. 0.18
2.6	As 2.1, but with 1 in. loose fill between joists. 0.15
2.7	As 2.1, but with 1 in. quilt draped across joists under boarding. 0.14
2.8	As 2.7, but $\frac{1}{2}$ in. quilt. 0.20
2.9	As 2.1, but with 2 in. wood wool slab in place of 1 in. boarding. 0.18

## FLAT ROOFS (CONCRETE).

3.1	4 in. reinforced concrete covered asphalt or roofing felt, plastered soffits. 0.61
3.2	As 3.1, with 1 in. corkboard under roofing or as permanent shuttering. 0.20
3.3	As 3.1, but with $\frac{1}{2}$ in. insulating board ceiling nailed to battens and $\frac{1}{2}$ in. insulating board beneath roofing. 0.19
3.4	As 3.1, but with 2 in. wood wool slab as insulation beneath roofing or as permanent shuttering plastered. 0.20
3.5	As 3.1, but with $\frac{1}{2}$ in. insulating board ceiling nailed to battens and 2 in. lightweight concrete screed beneath roofing. 0.19
3.6	As 3.5, but with 1 in. wood wool slab instead of 2 in. lightweight concrete screed. 0.18
3.7	As 3.1, but with $\frac{1}{2}$ in. quilt or blanket and $\frac{1}{2}$ in. insulating board ceiling nailed to battens. 0.18
3.8	As 3.1, but with aluminium foil and $\frac{1}{2}$ in. insulating board ceiling nailed to battens. 0.19
3.9	As 3.1, but with combined corrugated and plain aluminium foil and $\frac{1}{2}$ in. insulating board ceiling nailed to battens. 0.13

## EXTERNAL WALLS.

4.1	11 in. ventilated cavity brick wall, plastered internally. 0.34
4.2	11 in. sealed cavity brick wall plastered internally. 0.30
4.3	As 4.2, but with 4 in. foamed slag or lightweight concrete block as inner leaf of wall. 0.20
4.4	As 4.2, but with 2 in. wood wool slab as inner leaf of wall, plastered. 0.17
4.5	As 4.2, but with $\frac{1}{2}$ in. insulating board fixed to battens instead of plaster. 0.18
4.6	As 4.5, but with 1 in. insulating board. 0.15
4.7	As 4.2, but with 1 in. corkboard bonded to brickwork before plastering. 0.15

No.	"U" Value.
4.8	8 in. solid foamed slag wall, plastered internally and rendered externally. 0.18
VENTILATED GROUND FLOORS.	
5.1	1 in. (nominal) t and g flooring on timber joists, ventilated beneath. 0.40
5.2	As 5.1, with linoleum laid on floor. 0.35
5.3	As 5.2, with 1 in. corkboard under flooring over joists. 0.16
5.4	As 5.2, with 1 in. insulation board under flooring, over joists. 0.18
5.5	As 5.2, with one layer combined corrugated and plain aluminium foil under flooring, over joists. 0.15
5.6	As 5.2, with paper-reinforced aluminium foil under flooring, draped over joists. 0.20
5.7	As 5.2, with 1 in. quilt or blanket under flooring, draped over joists. 0.14
5.8	As 5.7, but $\frac{1}{2}$ in. quilt or blanket. 0.18

## 26.10 services and equipment

## GAS METER CUPBOARDS

Gas Meter Cupboards. B.S. 1396:1947. (British Standards Institution. 2s.)

This specification, divided into two parts and illustrated, sets down (i) the dimensions, (ii) the materials and construction, with sections on dimensions and tolerances, doors, fastenings and ventilating louvres, outlets, fixing and finishing. The illustrations are dimensioned and explained.

This specification has not considered the possibility of double access to the meter, that is to say, so that the gas supply company's representative need not have access to the house to read it, and so be independent of the comings and goings of the housewife. Nor does it suggest any possibility of a combined unit to accommodate electric and gas meters in a single fitment, as was suggested in the Post-War Study Committee Reports.

26.11 services and equipment: miscellaneous  
FUSED-PLUGS

Fused-Plugs and Shuttered Socket-Outlets. B.S. 1363:1947. (British Standards Institution. 2s. 6d.)

Specification for new standard plug for domestic use up to 13 amp. Specially required with ring-main winding.

The long-awaited specification for the new standard all-purpose domestic plug has now been issued by the British Standards Institution as B.S. 1363. The plug and socket-outlet are rated at 3 Kw. (13 amp. at 230 volts), and the plug incorporates a fuse the rating of which may be 3, 7, or 13 amp. These fuses are interchangeable, but are readily identifiable, and are covered by B.S. 1362 which was published recently.

In reporting the publication of this new specification it may be recalled that the report on "Electrical Installations" (Post-War Building Studies, No. 11, published by H.M. Stationery Office for the Ministry of Works) stated that:—

(a) A standard three-pin socket-outlet and plug, intermediate in capacity between the existing 5-ampere and 15-ampere standards, should be made available (para. 83).

(b) The recommendation for a ring circuit connected to a single 30-ampere fuse necessitates arrangements for fusing at each point of outlet, which is also desirable for the alternative of room-circuits (para. 85).

(c) Provision should be made in the plug for the accommodation of fuses for 13 amperes and alternatively for 3 amperes, the fuses for these ratings being interchangeable and readily identifiable (Appendix).

A number of other recommendations on the details of the design are also made.

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. 23.10.47

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

## QUESTIONS AND ANSWERS

## 2916 AGRICULTURAL COTTAGES

**Q** I should be pleased to have your opinion on the following points concerning the design of a pair of cottages for letting to agricultural workers, which would be erected by a private client.

(a) Is there any official publication (other than the *Housing Manual*) in which standards of accommodation, amenity and construction in connection with agricultural cottages have been laid down?

(b) Is there a prescribed limit of cost, as for normal housing?

(c) If there is a prescribed limit, does it exclude the cost of running water, gas and electric services to the site and of providing a sewage disposal plant in the absence of a public sewer?

**A** Designs and specifications for houses in rural areas are issued by the Regional Officers of the Offices of the Ministry of Health in the area concerned. These houses must not cost more than £1,300, including the site and connections to all services. The cost of running water, gas and electrical services to the site and of providing a sewage disposal plant is additional to the £1,300, and, therefore, a further licence for this work must be obtained.

## Announcements

Captain C. G. Radnedge, F.I.A.S., Quantity Surveyor, has removed to 7, Triangle South, Queens Road, Bristol, 8. Telephone: 26359.

Mr. R. Willis Deans, A.R.I.B.A., has removed his office from 37, Norfolk Street, Strand, London, W.C.2, to 231, Strand, Temple Bar, London, W.C.2 (telephone, Central 7739), at which address he will be pleased to receive trade catalogues, etc.

Mr. Misha Black, O.B.E., F.S.I.A., Director of Design Research Unit, has been appointed exhibition consultant to UNESCO in connection with the special exhibitions to be staged in Mexico City concurrently with the UNESCO Month, which is to be held there in November. Most of the exhibitions are being produced by Design Research Unit, and Misha Black is flying to Mexico this month to supervise the last stages of their installation.

Major John G. Martin, M.B.E., HON. A.T.P.I., General Secretary of the National Housing and Town Planning Council for more than 21 years, has left for Cape Town.

Mr. Edward D. Mills, F.R.I.B.A., Chartered Architect, has moved his office to 38A, Soho Square, London, W.1. Telephone Gerrard 4960. He will be glad to receive trade catalogues and information relating to housing and industrial work at this address.

Mr. Raymond Erith, F.R.I.B.A., has opened an office at 5, Queen Street, Ipswich (Ipswich 4232), and will also continue to practise at Dedham House, near Colchester (Dedham 2173).

Because of the present shortage, the Ministry of Works has reviewed the distribution and use of Door Stock (Douglas Fir normally selected, sawn to sizes and imported for dowelled door manufacture).

The following arrangements, which are in accordance with recommendations made by the representatives of the Joinery Industry, will be put into operation until further notice:—Door Stock may only be used for the manufacture of Dowelled Panel Doors to British Standard Specification. Door Stock will be sold to consumer licence holders in parcels of a minimum of 20 standards or a complete Bill of Lading, whichever is the smaller. Applications for the special release of Door Stock will continue to be made to the Board of Trade, Timber Control Area Offices.

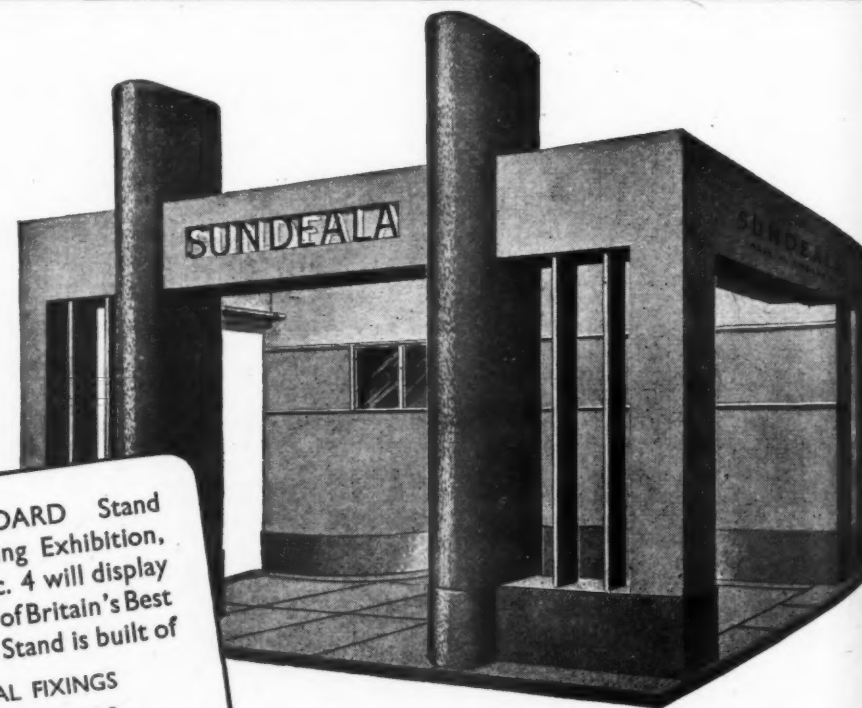
## Buildings Illustrated

New factory at Kingsway West, Dundee, Angus, for the National Cash Register Co. Ltd. (pages 361-366). Architect, J. Stanley Beard, Bennett & Partners. General contractor, Sir Robert McAlpine & Sons (Scotland) Ltd. Resident architect, Mr. L. A. Farr. Contractors' senior agent, Mr. J. Hardie. Consulting engineers, Messrs. E. Wingfield Bowles & Partners (heating, ventilating and electrical); Mr. J. F. Farquharson, M.I.Struct.E. (structural). Advice on Internal Colour Scheme, the British Colour Council. Sub-contractors: John Laing, Ltd., building bricks; Williamson Cliff, Ltd., facing bricks; Girdings Ferro Concrete Ltd., artificial stone; Redpath Brown & Co. Ltd., structural steel; Turners Asbestos Cement Co. Ltd., special roofings; Wm. Briggs, Ltd., roofing felt and waterproofing materials; Roneo Ltd., steel partitions; Williams and Williams, Ltd., patent glazing.

casements and window furniture; A. M. McDougall and Son, Ltd., woodblock flooring; O. Toffolo and Co., and Toffolo Jackson, terrazzo; Stuarts Granolithic Co., granolithic; Prodorite Ltd., acid resisting patent flooring; Z. D. Berry & Sons, Ltd., central heating, ventilation and plumbing; Ivor Power. Speciality Co., boilers; Troughton and Young, Ltd., electric wiring; Troughton and Young, Ltd., Tucker & Edgar, Variletric, electric light fixtures; Troughton and Young, Ltd., electric heating; Southhook Potteries, Ltd., and J. Bolding and Sons, Ltd., sanitary fittings; M. & C. Switchgear, Ltd., and Bill Switchgear Ltd., electrical switchgear; Yannedis and Co., Ltd., door furniture; Gents, Ltd., bells and clocks; Reliance Telephones, Ltd., telephones; Mather and Platt, Ltd. and Shutter Contractors, rolling shutters; Mather and Platt, Ltd., fireproof shutters; Samuel Elliott (Reading) Ltd., revolving doors; J. Avery, Ltd., sunblinds; E.M.I. Ltd., loud speaker system; G. Rome, Ltd., plaster; G. C. Harris, metalwork, and signs; John Scott and Son, Ltd., joinery; Allan M. R. Robertson, horticultural work; E. Pollard and Co., counter and showcase; Express Lift Co., hand lifts; Venesta, Ltd., w.c. Plymax doors; J. A. King, Ltd., pavement lights.

## Correction

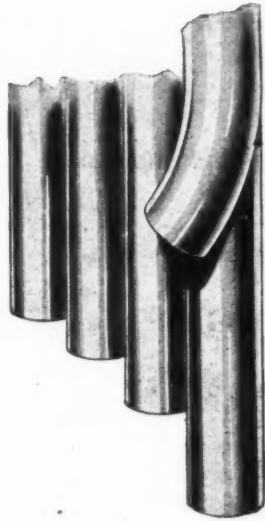
Owing to a punctuation error, Mr. Misha Black was attributed in our issue of October 2 as Supervising Designer of "The Miner Comes to Town" Exhibition. In fact he was responsible only for "The Miner at Home" Section. Mr. James Holland was the Supervising Designer.



The SUNDEALA BOARD Stand No. L226 at the Building Exhibition, Olympia, Nov. 19 - Dec. 4 will display a comprehensive range of Britain's Best Building Boards. The Stand is built of

- SUNDEALA METAL FIXINGS
- SUNDEALA HARD BOARDS
- SUNDEALA MEDIUM HARD BOARDS
- SUNDEALA SUPER HARD BOARDS
- SUNDEALA INSULATION BOARDS

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



## **"SEND TO SERCK"**

is the first step  
towards a solution  
of the tube problem

Serck NON-FERROUS Tubes

AS USED BY SERCK

SERCK TUBES LTD., BIRMINGHAM

# FLOORS AND (ACID AND NON-ACID PROOF) WALL SURFACES OF ALL TYPES TO SUIT ALL CONDITIONS

## INDUSTRIAL FLOOR AND WALL SURFACES

"Diamonite" — hardened grano surfaces. Asphalt (plain and coloured). Composition flooring. Floor Tiling. Steel Plate floors. Cast Iron floors. Wood Block floors. Cork Tiles. Kor-Koid flooring. Texture Plastic Wall finishes. Special Paint finishes and Waterproof Cement finishes. Refractory cement and concrete for furnace linings.

"Prodordur" anti-abrasive lining material for wear-resisting surfaces.

21 YEARS' EXPERIENCE  
GOES INTO EVERY JOB



LONDON OFFICE:  
Artillery House, Artillery Row, S.W.1  
Telephone: 1547-8 Abbey

HEAD OFFICE & WORKS:

(Telephone: 0284-five lines)

WEDNESBURY, STAFFS.

## *Mirage* on his mind

The foreman has had a busy day, walking, talking, checking, advising. His workers have had a tough day too—sweating inside on a hot summer day with bad ventilation and stifling air. A lot he'd give to be "seaside cool"; to have a breath of fresh air. He knows that Air-Conditioning Equipment would solve the problem and help his workers to step-up output.

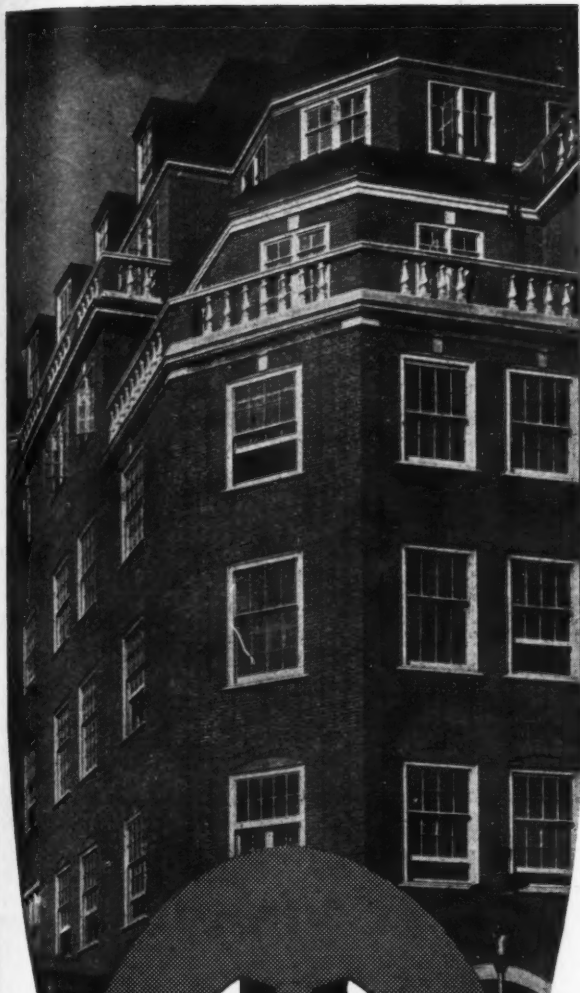
And he knows too, that what is wanted is Musgrave Air Conditioning Equipment. He intends to pass that information on to his Managing Director at the first opportunity.

install  
**MUSGRAVE**  
**AIR CONDITIONING**



MUSGRAVE & CO., LTD., ST. ANN'S WORKS, BELFAST: and at LONDON, MANCHESTER, GLASGOW, BIRMINGHAM





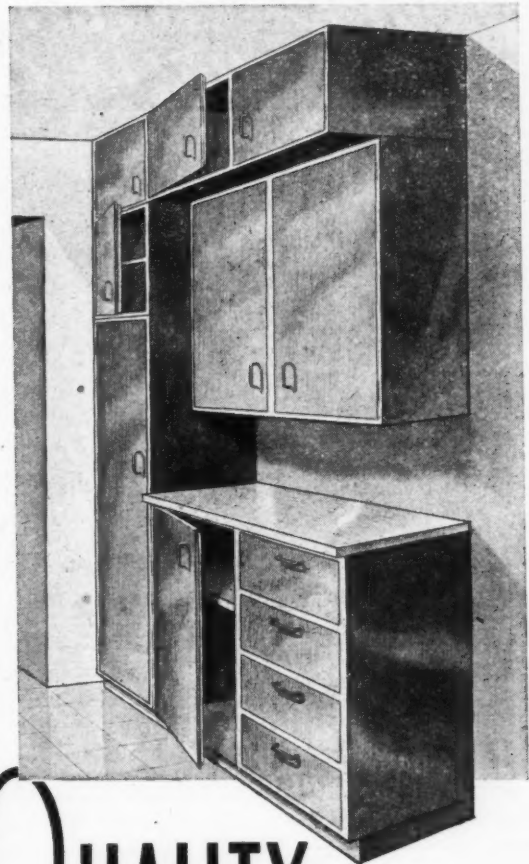
**H&C**  
**LIFTS**

**HAMMOND & CHAMPNESS**

OFFICES & WORKS: GNOME HOUSE,  
BLACKHORSE LANE, WALTHAMSTOW, E.17

Telephone: LARKSWOOD 1071

Telegrams: Hydrolifts, London



**QUALITY ...**

**IN A STANDARDISED PRODUCT**

In a world of austerity and restrictions, individuality can be expressed in execution alone.

The same high-class workmanship and attention to detail upon which Duncan Tucker's long-standing reputation has been built, is to be found in these examples of kitchen units.

These are the characteristics which are distinctive in the otherwise strictly utilitarian aspect of present-day domestic furniture manufactured by Duncan Tucker Ltd. Designed as separate units, these can be grouped in a variety of ways according to taste or space limitations.

**Duncan Tucker**  
(TOTTENHAM LTD. ESTD. 1830)  
**KITCHEN UNITS**

Made to B.S.S. 1195 (1944)

Manufactured Woodwork Division:

LONDON, N.15

Telephone: Stamford Hill 1212 (8 lines)

## 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.

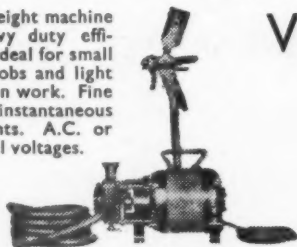
Stocked in lengths 4' 0" to 10' 0" rising by 6" increments.

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

## The Mecca of Spray Equipment

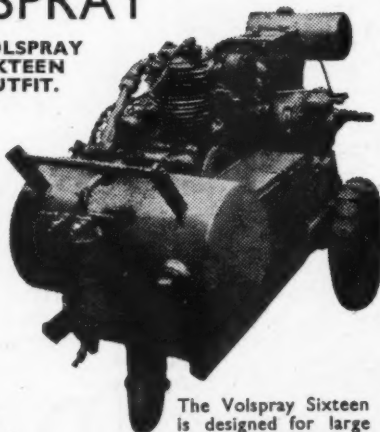
A light-weight machine with heavy duty efficiency. Ideal for small painting jobs and light production work. Fine control—instantaneous adjustments. A.C. or D.C. in all voltages.



VOLSPRAY 1A/4.

### VOLSPRAY

VOLSPRAY  
SIXTEEN  
OUTFIT.



The Volspray Sixteen is designed for large scale contracting work and will operate two high-speed spray guns simultaneously to heights of 100ft. or more. A compact and comprehensive outfit.

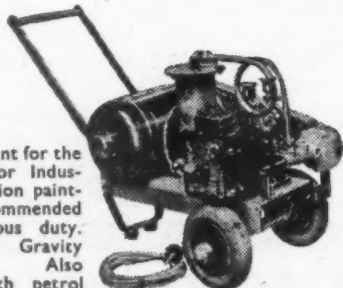
### The CRYSTAL SPRAY PLANT

An excellent low-pressure outfit at an economical price. Although light in weight it is highly efficient and suitable for domestic and light industrial work.

£27.10.0



The ideal plant for the Contractor or Industrial production painting. Recommended for continuous duty. Pressure or Gravity Paint Feed. Also supplied with petrol engine power unit.



VOLSPRAY II/ZEW.

A fully illustrated catalogue showing our complete range of petrol and electric motor driven Spray Equipment, Air Compressors, etc., will be sent on application. OUR SERVICE DEPARTMENT IS ABLE TO SUPPLY FROM STOCK A COMPLETE RANGE OF SPARES AND ACCESSORIES FOR BOTH VOLSPRAY AND CRYSTAL EQUIPMENT.

BUILDING TRADES EXHIBITION, OLYMPIA, NOV. 19—DEC. 4. OUR STAND No. 315 NATIONAL HALL

**CENTRAL DISTRIBUTING CO.,**  
341, REGENT'S PARK ROAD, LONDON, N.3.  
(NEAR FINCHLEY CENTRAL STATION.)

Telephone: FINchley 5190

The Directors of  
**PLASBRIC PRODUCTS (ENGLAND) LIMITED**

*request the pleasure of the company of*

**ALL ARCHITECTS AND CIVIL ENGINEERS**

*to an*

**EXHIBITION OF FLOORINGS**

*and other uses of*

**PLASBRIC JASPERINE FORMULAE**

*at*

**The Royal Star Hotel, Maidstone, Kent**

on Tuesday, Wednesday and Thursday, October 28th, 29th and 30th,  
from 10 a.m. to 7.30 p.m.

R.S.V.P.

62, London Wall, E.C.2.

## The Cylinder Latch that Deadlocks

The 'K' 146 Cylinder Deadlocking Rim Latch is a small and neat piece of door furniture designed to give added security. It functions in every way as a cylinder latch, but a part turn in the opposite direction to unlatching deadlocks the lock bolt and inside control knob ... it is truly the safest lock to fit.



### OTHER ADVANTAGES

- The cylinder is fitted with hardened steel protection plate which cannot be drilled.
- The bolt stop is operated by a press button which cannot fall into or out of engagement.
- The concentric tumbler arrangement gives a greater degree of individuality.
- Interchangeable between right and left hand doors.
- The outside escutcheon or rose is solid and fits flush to the door panel.

# LOCK

**K. 146 CYLINDER DEADLOCKING RIM LATCH**

CYRIL KIEFT & CO. LTD., BRIDGEND, SOUTH WALES. PHONE BRIDGEND, 950.





**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**

*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.  
CL Erkenwell 6384 (5 lines)

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

**EXCEL  
ASPHALTE**

*Send us your Enquiries for*

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

ON APPROVED LIST OF ALL GOVERNMENT DEPARTMENTS.

**EXCEL SERVICE ENDURES**

**EXCEL ASPHALTE CO. LTD.**

**Broadway Chambers, Hammersmith, W.6**

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

**HILLALDAM**  
MANUFACTURERS OF GOOD SLIDING DOORS (ALL SYSTEMS)

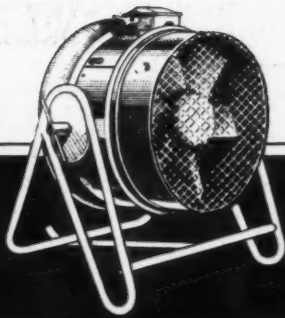
**FLYING SIDE**  
**PANTHER - JAGUAR - LYNX**  
INTERIOR RESIDENTIAL SLIDING DOOR GEAR  
F. HILLALDAM & CO LIMITED



*Design: Hammersmith 1947*

*Carbide: Hammersmith, West London*





MAN  
COOLING  
FAN

## 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

## VERONA HOT WATER ON TAP!

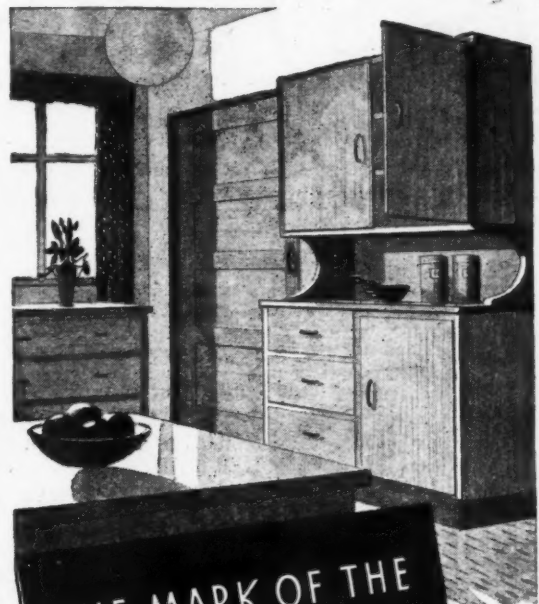
DESIGNED for the modern housewife, hotel, farm and industrial user. Water heat regulated by two switches giving low, medium and high operation. Tinned copper boiler tank of 10 gal. capacity. Semi-recessed plated tap just the right height. Vitreous Enamel or Galvanised Steel finished body. Loose white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



IMMEDIATE  
DELIVERY

Send for  
ILLUSTRATED FOLDER

**JABEZ BATE & CO. LTD.**  
VERONA WORKS, SUMMER LANE, BIRMINGHAM, 19, ENGLAND  
TELEPHONE 2574-5 (4 lines) TELEGRAMS: JABEZ BATE BIRMINGHAM



In the selection of timber, the precision of machining, the accurate assembly and the superb finish, it is evident that the spirit of craftsmanship lives on in "CYGNET" Joinery. Whether it is one off or a thousand there is pride in every piece.

Flush and Panelled Doors, Windows, Stairs, Kitchen Fittings etc. to BS Specifications or made specially to Architects' own designs. Write now for lists and prices.

THE MARK OF THE



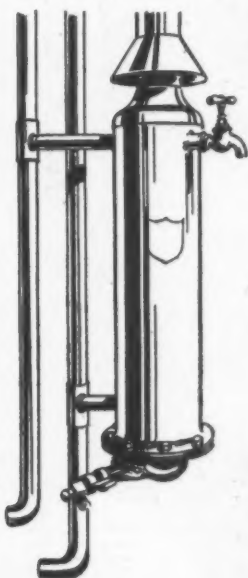
CRAFTSMAN

**CYGNET**  
*Joinery*

**CYGNET JOINERY LIMITED**  
HIGHER SWAN LANE, BOLTON  
Bolton 5576/7.

# The STOICS

anticipated modern politicians by preaching austerity a couple of thousand years ago. They practised it, too. We practise it, but hardly through principle! And where we can dispense with it, quite rightly we do, as in the comfort and convenience provided by an unfailing supply of hot water.



## The HALLIDAY Gas-Fired BOILER

has these merits:

- ★ "STREAM LINED" CONSTRUCTION GIVES QUICK HEATING
- ★ IT IS ECONOMICAL TO RUN
- ★ IT IS EASY TO FIT
- ★★ IT CAN BE USED INDEPENDENTLY OR TO BOOST EXISTING SYSTEM.

Booklet Post Free

## HALLIDAY BOILERS LTD

SAXON ROAD, SELHURST, LONDON, S.E.25  
(Telephone: Thornton Heath 2244)



Visit our  
STAND No. 268 ROW P.  
at the  
BUILDING TRADES EXHIBITION  
OLYMPIA  
Nov. 19th.—Dec. 4th.

## SHARP BROS & KNIGHT LTD

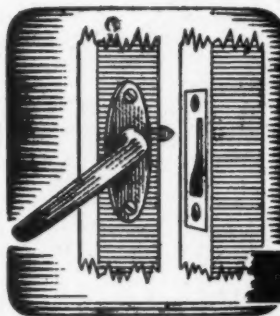
JOINERY MANUFACTURERS

BURTON - ON - TRENT

Lion House, Red Lion Street, Richmond, Surrey

Telephone . . . . . Richmond 0165

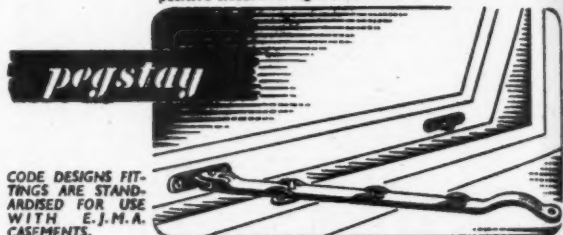
## WHEN PLANNING THE MODERN HOME



Eliminate clumsy old fashioned types of Casement Fittings. CODE DESIGNS Products are light, strong and hand-somely styled to suit modern interior decoration. Here are two examples, standardised for use with E.J.M.A. Casement.

**midloc**

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



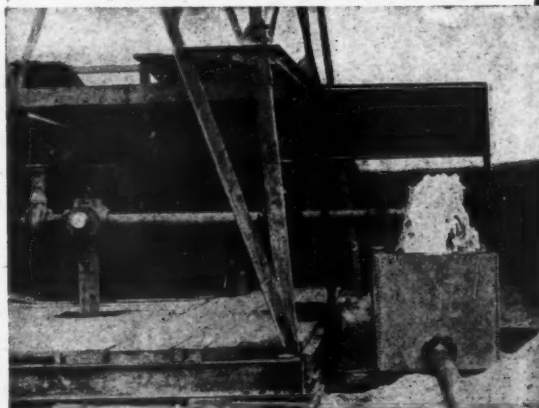
CODE DESIGNS FITTINGS ARE STANDARDISED FOR USE WITH E.J.M.A. CASEMENTS.

**PEGSTAY.** Standard type for casement and vent when shut. Also in dull nickel plate or A.C.B. finish. Send for full particulars of Code Designs specialities, including Radiocls, Hinges, Swivets, etc.



**Code Designs Ltd.**  
OLDFIELD LANE • GREENFORD • MIDDX.  
Telephone: WAXLOW 7020

## — 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



# AIREY RURAL HOUSE CONSTRUCTION

## Approved Compounds

- ① **RITO Mastic**  
for Uprights
- ② **RITOLASTIC Liquid**  
for dampcourse membranes

Details giving number of Airey Rural Houses to be erected will ensure prompt quotations and, if desired, a visit by one of our site representatives.

Write to:—

"HOUSE CONSTRUCTION DEPT."

**ANDREW MAXWELL**

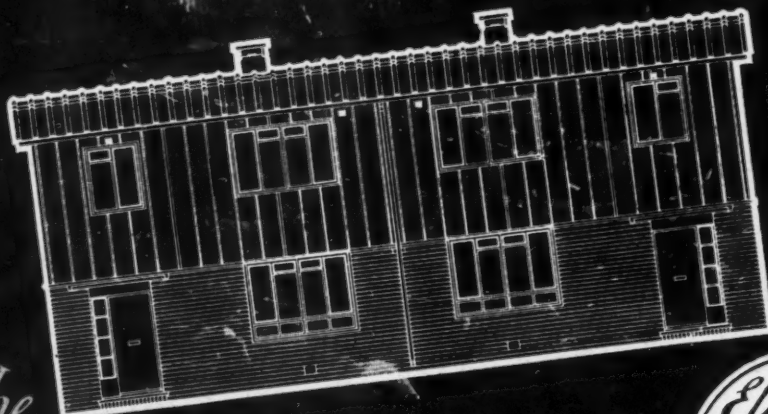
(The Liverpool Borax Co. Ltd.)

6, St. Paul's Square, Liverpool 3

\*Grams: ALKALINE.

\*Phone: Central 1783/4/5.

*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".

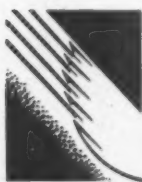




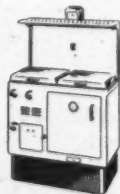


**THE GOOSE**  
**IS A FOOLISH BIRD**  
*...too much for one and*  
*not enough for two!*

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

RP-1932H



It's human nature to take for granted the important functions of the human body because nobody has any say in the choice of its components. But how much thought would be given and how painstaking would people be if the selection of their arteries were left to them. Cables are the arteries of homes and industry, the carriers of heat, light and power, to places closely associated with our everyday life. Yours is the choice here, and much depends on your decision. Will you simply say "cables and flexibles" or will you ensure trouble-free uninterrupted service by specifying Ashton Cables and Flexibles and insisting on your choice? Distributors all over the country have supplies to meet your needs and applaud the wisdom of your insistence.





## 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

(4 lines or under, 10s.; each additional line, 1s. 6d.)

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 75, ETON 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 £780 a year.

TECHNICAL ASSISTANT, up to £630 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) 335

DEPARTMENT OF HEALTH FOR SCOTLAND invite applications for the following temporary Planning and Architectural appointments. The work covers town and country planning, housing and design of hospitals, health centres, schools, and other community buildings.

(a) Planning Appointments (covering regional planning work, planning technique, and studies for survey and development plans).

(1) ASSISTANT PLANNING OFFICERS. Candidates should be qualified as architects, engineers or surveyors, and should have passed the Final examination of the T.P.I. Preferably they should have had at least three years' experience in a planning office. Minimum age: 25. Commencing salary: £485 at age 26, with additions of £25 for each year up to age 32.

(2) PLANNING ASSISTANTS. Candidates should have reached the Intermediate examination stage as architects, engineers, surveyors or planners, and should preferably have had some experience in a planning office. Minimum age: 22. Commencing salary: £220 at age 22, with additions of £20 for each year up to age 25.

(b) ASSISTANT ARCHITECTS. To assist on research work on special building types and on design and layout of housing and other building schemes for redevelopment areas and new towns. Candidates should be fully qualified architects, preferably with at least ten years' practical experience. Minimum age: 24. Commencing salary: £435 at age 24, with additions of £25 for each year up to age 30.

Successful candidates over the higher ages mentioned may be given further additions to the salaries indicated. Salaries for women in respect of all the above-mentioned appointments will be somewhat lower than those for men. Forms of application may be obtained from the Establishment Officer (Room 33), Department of Health for Scotland, St. Andrew's House, Edinburgh, 1. No application can be considered unless received by the Department on the prescribed form not later than 1st December. 961

## LONDON COUNTY COUNCIL. VACANCY FOR ASSISTANT SENIOR PLANNING OFFICER.

Applications invited for the position of Assistant Senior Planning Officer, at a salary of £1,000 a year, rising by annual increments of £50 to £1,200 a year. The position is secondary to that of the Senior Planning Officer in charge of the Planning Division of the Architect's Department, dealing with all general planning matters, including the preparation of the Development Plan for the Administrative County, the progressing of Reconstruction Area schemes, and the examination of Town Planning applications submitted to the Council.

Candidates should possess good professional qualifications and experience, and should be conversant with current town planning legislation.

Apply to the Architect, County Hall, S.E.1, for form of application (enclosing stamped addressed envelope), returnable within ten days.

Canvassing disqualifies. (3269) 929

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

Applications are invited for the appointment of an ASSISTANT ARCHITECT, Grade V, at a commencing salary of £460, 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.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 1st November, 1947.

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.

DUDLEY AUKLAND, Clerk of the Council. County Hall, Kingston-upon-Thames. 915

## MONMOUTHSHIRE COUNTY COUNCIL.

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

(a) PERMANENT PRINCIPAL ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade VII of the Administrative, Professional and Technical Division of the National Joint Council's Scheme, viz., £575 per annum, rising by annual increments of £25 to a maximum of £650 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

(b) SIX PERMANENT ARCHITECTURAL ASSISTANTS, at a salary in accordance with Grade V of the Administrative, Professional and Technical Division as above, viz., £460 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £510, plus cost-of-living bonus, at present £59 16s. per annum.

(c) TWO PERMANENT ASSISTANT QUANTITY SURVEYORS, at a salary in accordance with Grade IV of the Administrative, Professional and Technical Division of the National Joint Council's Scheme, viz., £420 per annum, rising by annual increments of £15 to a maximum of £465 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Candidates for (a) and (b) must have a knowledge of design and construction, particularly in relation to schools, public buildings, police stations, etc., and must be Associate Members of the Royal Institute of British Architects, and for (c) should be Members of the Surveyor's Institution (Quantity Surveying Section), and should have had wide experience in preparing estimates and bills of quantities and in dealing with contractors' accounts, etc. The appointment will be subject to the Local Government Superannuation Act, 1937, and to the Regulations of the Council in force from time to time governing their Administrative, Technical and Clerical Staff. The successful candidates will be required to pass a medical examination. Canvassing, directly or indirectly, will be a disqualification, and applicants must disclose in writing any relationship within their knowledge to a member of the authority or to a holder of any senior office under the authority. Forms of application, and conditions of service, can be obtained from the undersigned. Applications, together with copies of three recent testimonials, must be delivered to Mr. Colin I. Jones, F.R.I.B.A., County Architect, Queen's Hill, Newport, Mon., not later than Saturday, 8th November, 1947.

VERNON LAWRENCE, Clerk of the Council. County Hall, Newport, Mon. 919

## BOROUGH OF LUTON. BOROUGH ENGINEER'S DEPARTMENT. TECHNICAL STAFF.

Applications are invited for the following appointments:—

(a) SENIOR ARCHITECTURAL ASSISTANTS. Salaries £535—£20—£20—£25—£600.

(b) ARCHITECTURAL ASSISTANT. Salary £420—£15—£465.

Applicants must be A.R.I.B.A. and have had extensive experience in the design and construction of public buildings, schools and houses, and, in particular, have had recent experience in the design and development of housing programmes. In the cases of appointments (a), every endeavour will be made to provide housing accommodation within a reasonable time.

The appointments are all subject to the provisions of the Local Government Superannuation Act, 1937, and the temporary cost-of-living bonus, at the rate of £59 16s. per annum.

Applications, suitably endorsed, giving particulars of age, qualifications, experience, and present appointment and salary, together with copies of not more than three recent testimonials, should be delivered to the Borough Engineer, Town Hall, Luton, not later than Monday, the 3rd November, 1947. Canvassing will disqualify.

W. H. ROBINSON, Town Clerk. Town Hall, Luton. 7th October, 1947. 921

## CITY OF OXFORD. CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned posts on the permanent staff of the City Architect's Department:—

(1) ASSISTANT ARCHITECT (Site Planning). Grade VII, A.P.T. Division. Salary £575×£25—£650 per annum, plus cost-of-living bonus (at present £60 per annum).

The successful applicant will be required to prepare, under general direction, comprehensive site layouts for new Council Estates and general City Development schemes. A high standard of ability in design will be expected, and at a later date the duties of the post may also include detailed architectural work required in connection with new public buildings.

Applicants should be Members of the R.I.B.A., and a Town Planning qualification will be an advantage.

(2) TWO ASSISTANT ARCHITECTS (HOUSING). ONE ASSISTANT ARCHITECT (EDUCATION).

Grade V, A.P.T. Division. Salary £460×£15 (2) × £20 (1)—£510 per annum, plus cost-of-living bonus (at present £60 per annum).

For the Housing posts experience in House and Flat design, and for the Education post experience in the design and construction of Schools will be an advantage. Applicants should be members of the R.I.B.A.

(3) (a) ASSISTANT SURVEYOR.

Grade VII, A.P.T. Division. Salary £575×£25—£650 per annum, plus cost-of-living bonus (at present £60 per annum).

The successful applicant will be required to take charge of the Quantities and Accounts section of the Department. The duties of this Section comprise the checking of accounts for both new building contracts and maintenance, and repair work on Council property, preparation of estimates, valuations for certificates, labour and materials returns, etc. In addition the section deals with administrative work connected with the Works Section of the Department which carries out Council building work by direct labour.

Candidates should be members of the Royal Institution of Chartered Surveyors.

(b) ASSISTANT SURVEYOR.

Grade III, A.P.T. Division. Salary £390×£15—£435 per annum, plus cost-of-living bonus (at present £60 per annum).

The successful applicant will be required, with others, to assist the head of the section, referred to above. Preference will be given to qualified members of the R.I.C.S.

Housing accommodation, if required, will be made available by the Council for successful applicants for the above-mentioned posts.

(4) TWO ARCHITECTURAL ASSISTANTS.

Grade III, A.P.T. Division. Salary £390×£15—£435 per annum, plus cost-of-living bonus (at present £60 per annum).

The successful applicants will be required to carry out work on Schools, Housing and Public Buildings.

It may be possible to assist the persons appointed in finding housing accommodation.

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

Further details of the duties and application forms, which must be used in applying for the posts, may be obtained from R. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect, Town Hall, Oxford.

Applicants must clearly state for which post they wish to apply when writing for forms, and these forms must be returned to the City Architect not later than first post Wednesday, 19th November, 1947.

HARRY PLOWMAN, Town Clerk. Town Hall, Oxford. 929

## CUMBERLAND COUNTY COUNCIL. APPOINTMENT OF PLANNING ASSISTANT.

Applications are invited for the position of Planning Assistant, at a salary of £460 per annum, rising by annual increments of £15 and £20 to £510, plus cost-of-living bonus (at present £59 16s. per annum), and a car allowance in accordance with the Council's scale (at present £50 per annum for standing charges and 4d. per mile running costs with free petrol). Subsidies paid on the National Charter Scales. The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to undergo a medical examination. The appointment to be terminable by one month's notice in writing on either side.

Applicants should be Members, or Associate Members, of the Town Planning Institute, and a qualification in architecture will be an advantage. The commencing salary on the grade will be determined according to the candidate's previous experience. Applicants must be fully conversant with the Town and Country Planning Acts, and Orders made thereunder, and be fully competent to carry out field work, plotting, and the preparation of plans. Applications, stating age, qualifications, experience, and previous appointments held, accompanied by copies of three recent testimonials, and endorsed "Planning Assistant," should be sent to the County Planning Officer, Citadel Chambers, Carlisle, not later than Monday, 27th October, 1947.

G. N. C. SWIFT, Clerk of the County Council. The Courts, Carlisle. 4th October, 1947. 906

**BOROUGH OF GILLINGHAM.**  
**BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**  
**SENIOR ARCHITECTURAL ASSISTANTS.**  
 Applications are invited from Chartered or Registered Architects for the following appointments—  
 (a) SENIOR ARCHITECTURAL ASSISTANT.  
 (b) SENIOR ARCHITECTURAL ASSISTANT (SCHOOLS).

The salary in each case will be in accordance with Grade IV (£420-£465 per annum) of the Administrative, Professional and Technical Division of the National Scale of Salaries, plus cost-of-living bonus (at present £59 16s. per annum). Applicants for appointment (a) should have had good experience in architectural design of a general character, including housing and experience in the management of control of house building by Direct Labour will be considered an advantage. Applicants for appointment (b) should have had experience in the architectural design, alteration, and maintenance of Educational Buildings.

The Council have made arrangements for housing accommodation to be available if required by the successful applicants.

Forms of application and further particulars may be obtained from the Borough Engineer and Surveyor, Municipal Buildings, Gillingham. Applications, appropriately endorsed, must be received by the undersigned, accompanied by copies of not more than three recent testimonials, not later than the 7th November, 1947.

Canvassing, directly or indirectly, will disqualify.

J. C. NELSON, Town Clerk.

Municipal Buildings, Gillingham, Kent. 955  
 15th October, 1947.

**CITY AND COUNTY OF LINCOLN.**  
**HOUSING ARCHITECT'S DEPARTMENT.**  
 Applications are invited for the following appointments—

(a) DEPUTY HOUSING ARCHITECT (Grade VI, £535-£600). Applicants for this appointment should be Registered Architects and have a wide experience in housing development with a local authority.

(b) ARCHITECTURAL ASSISTANT (Grade IV, £420-£465). Applicants for this appointment should have attained Intermediate standard.

(c) JUNIOR ARCHITECTURAL ASSISTANT (Grade I, £330-£375).  
 (d) SECOND CLERK (Clerical Division, £315-£360 for men and £252-£288 for women). Experience in building craft, wages, materials, and general office routine is required for this appointment.

Cost-of-living bonus (£59 16s. per annum for men and £48 2s. for women) is payable in addition to the salaries set out above.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and to the Service Conditions of the National Joint Council for Local Authorities' Administrative, etc., services, as adopted by the City Council.

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

Forms of application and particulars of the appointments may be obtained from P. F. Burridge, F.R.I.B.A., Housing Architect, Stamp End, Lincoln.

Applications must be received by the undersigned on or before Wednesday, 5th November, 1947.

Canvassing, either direct or indirect, will be a disqualification.

J. H. SMITH, Town Clerk.

Town Clerk's Office, Lincoln. 950  
 13th October, 1947.

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

STRUCTURAL ASSISTANT, Grade V, at a commencing salary of £460, 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.

Applicants must have had a comprehensive training in Structural Engineering, and have had good experience in the design and detail of—  
 (a) Steel-framed buildings and/or (b) reinforced concrete structures.

Preference will be given to applicants who are members of the Institute of Structural Engineers. GENERAL ARCHITECTURAL ASSISTANT, at a salary commencing at £150 at 21 years of age and rising to £300 at 39 years, plus London allowance of £20/£30, together with cost-of-living bonus, at present £59 16s. per annum.

Applicants should be of good general training and experience.

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 8th November, 1947.

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

DUDLEY AYKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames. 952

**WILTSHIRE COUNTY COUNCIL.**

**ASSISTANT ARCHITECT.**

The County Council invite applications for the post of Assistant Architect, in the County Architect's Department.

Applicants should be Members of the Royal Institute of British Architects or hold equivalent qualifications.

Salary in accordance with Grade VII of the National Scale (£575, rising by increments of £25 to £650 per annum), plus war bonus (at present £59 16s. per annum).

Applicants should have had experience in the Office of a Public Authority, and be conversant with school planning as required by the Education Act of 1944.

The appointment is superannuable, subject to medical examination, and terminable by one month's notice on either side.

The person appointed must provide a car for official journeys. Travelling allowances are payable on the County Scale.

Forms of application may be obtained from the County Architect, County Hall, Trowbridge, and should be forwarded to the undersigned not later than 14 days after date of publication.

P. A. SELBORNE STRINGER, Clerk of the County Council.

County Hall, Trowbridge, Wilts. 957  
 October, 1947.

**COUNTY BOROUGH OF SWANSEA.**

Applications are invited for the following appointments on the established staff, in the Borough Architect's Department—

(a) ASSISTANT ARCHITECT (Grade IV, A.P.T.).

Salary £420, rising by annual increments of £15 to £465 per annum.

(b) ARCHITECTURAL ASSISTANT (General Division).

Salary between £65 and £300 per annum (male) or between £52 and £240 per annum (female), according to age.

(c) SENIOR ASSISTANT QUANTITY SURVEYOR (Grade V, A.P.T.).

Salary £460, rising by annual increments of £15, £15 and £20 to £510 per annum.

The salary scales are those of the National Scheme of Conditions of Service, and are exclusive of the "cost-of-living" bonus, payable in addition at the will of the Council (current rate 23s. per week).

Applicants must be under 45 years of age. The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

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

Forms of application may be obtained from the Borough Architect (Mr. H. T. Wykes, F.R.I.B.A.), Guildhall, Swansea.

Applications, accompanied by copies of three recent testimonials, and enclosed in an envelope endorsed "Assistant Architect," "Architectural Assistant," or "Senior Assistant Quantity Surveyor," as the case may be, must be delivered to the undersigned not later than Wednesday, 19th November, 1947.

Canvassing, directly or indirectly, will disqualify.

T. B. BOWEN, Town Clerk.

Guildhall, Swansea. 950  
 16th October, 1947.

**CITY OF STOKE-ON-TRENT.**

**CITY ARCHITECTURAL DEPARTMENT.**

Applications are invited for the following appointments, on the establishment staff of the City Architectural Department—

(a) ONE ASSISTANT ARCHITECT. Salary A.P.T. Division, Grade VI, £535-£600.

(b) ONE ARCHITECTURAL ASSISTANT. Salary A.P.T. Division, Grade I, £330-£375.

(c) ONE ASSISTANT QUANTITY SURVEYOR. Salary A.P.T. Division, Grade VI, £535-£600.

All the above appointments carry, in addition, a cost-of-living bonus, at present £59 16s. per annum.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the following—

(1) One calendar month's notice on either side.

(2) The provisions of the Local Government Superannuation Act, 1937.

(3) The National Scheme of Conditions of Service for Local Government Officers.

Applicants for (a) must be Associates of the Royal Institute of British Architects, and have had experience in the planning, design, and construction of buildings for Local Government purposes.

Applicants for (b) should have received a sound architectural training, be neat and accurate draughtsmen, and have had a good general experience of architectural design and building construction.

Applicants for (c) must be members of the Royal Institution of Chartered Surveyors (Quantity), and must be competent in all branches of Quantity Surveying practice.

Applications, giving date of birth, particulars of education and training, qualifications, experience, present and previous appointments, with copies of two recent testimonials, and names and addresses of two persons to whom reference may be made, should be received by J. E. Piggett, F.R.I.B.A., Chief Architect, City Architectural Department, Kingsway, Stoke-on-Trent, endorsed with the title and grade of the appointment applied for, not later than Friday, 31st October, 1947.

HARRY TAYLOR, Town Clerk.

Town Hall, Stoke-on-Trent. 953

**HIS MAJESTY'S COLONIAL SERVICE.**

**ASSISTANT GOVERNMENT TOWN PLANNER.**

Applications are invited for the post of Assistant Government Town Planner, in the Town Planning Division of the Local Government Department, Colombo, Ceylon. Candidates must be British subjects, and should not be more than 40 years of age. They must possess the qualifications of A.M.T.P.I. and A.R.I.B.A., and they must have had practical experience both in Town Planning and Housing. Preference will be given to those with experience in the preparation and administration of statutory planning schemes. The selected candidate will serve under the Government Town Planner, and will be required to assist him in the administration of the Town and Country Planning Ordinance and in the preparation of statutory Regional and Town Planning schemes and of comprehensive housing schemes.

The appointment will be on agreement for three years in the first instance, with the possibility of renewal for a further period. Salary scale, £600-£30-£960 per annum; the officer selected may, if his qualifications and experience warrant it, be permitted to enter the scale at a suitable point above the minimum. He will be required to contribute 5 per cent. of his salary to the Public Service Provident Fund, and will be allowed, at his option, to contribute a further 5 per cent. The Ceylon Government will in either case contribute 7½ per cent. Income tax at Ceylon rates only. If Government quarters are not available, rent allowance of 15 per cent. (7½ per cent. if unmarried) of salary is payable subject to certain maxima. Travelling allowances, cost-of-living allowances, and leave will be in accordance with Ceylon Government Regulations. Free passages for the Officer and, if married, for his wife and children on first appointment and on satisfactory termination of agreement.

Applicants should write at once to the Director of Recruitment (Colonial Service), Colonial Office, 15, Victoria Street, London, S.W.1, stating age and full particulars of their qualifications, training, and experience. 953

**BOROUGH OF ROYAL TUNBRIDGE WELLS.**

**ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant, in the Borough Surveyor's Department, for the period of approximately three years, on Grade IV (£420-£465) of the National Scheme, plus war bonus, at the rate from time to time in force.

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

Applications, together with copies of not more than three testimonials, should be delivered to Mr. H. P. Bishop, Borough Surveyor, Town Hall, Tunbridge Wells, not later than Wednesday, 29th October, 1947.

JOHN WHITEHEAD, Town Clerk.

Town Hall, Tunbridge Wells. 948



## SOUTH BUCKS JOINT PLANNING

## COMMITTEE.

## APPOINTMENT OF PLANNING OFFICER.

Applications are invited for the position of Planning Officer to the South Bucks Joint Planning Committee, at a salary of £850 per annum, rising by annual increments of £50 to £1,000, plus cost-of-living bonus, at present £59 16s. per annum.

The appointment will continue until the "appointed day" under the Town and Country Planning Act, 1947, and thereafter the officer will be transferred to the Staff of the Bucks County Council, in accordance with the provisions of Section 101 of the 1947 Act.

The appointment will be subject to termination by three months' notice in writing on either side, and is subject to the Local Government Superannuation Act, 1937.

Applicants should be Associate Members of the Planning Institute, and preference will be given to candidates holding additional qualifications in architecture, surveying and engineering. The successful candidate will be required to pass a medical examination.

The person appointed will be required to use his own motor car in the service of the Committee, and will be paid travelling and subsistence allowances on the County Council's existing scale.

Applications, giving full details of age, education, qualifications, experience and salary in present post, together with copies of three recent testimonials, and endorsed "Planning Officer," should be addressed to reach the undersigned not later than 4th November, 1947.

Canvassing, directly or indirectly, will be a disqualification.

F. R. NIGHTINGALE

Clerk to the Committee.

"Abbeyfield," Windsor Road,  
Slough, Bucks. 962

## LONDON COUNTY COUNCIL.

## VACANCY FOR GRADE II PLANNING

## OFFICER.

Applications invited for the position of Grade II Planning Officer, at a salary of £340 a year, rising by annual increments of £40 to £360 a year, to assist in the Planning Division of the Architect's Department. Duties will include responsibility for a group of planning staff engaged either on Town Planning applications and detailed planning for a part of the County or on research and negotiations in connection with planning standards and matters of principle for application to the County as a whole.

Candidates should possess good professional qualifications and experience, and should be conversant with current town planning legislation. Apply to the Architect, County Hall, S.E.1, for form of application (enclosing stamped addressed envelope), returnable within ten days.

Canvassing disqualifies. (3269) 928

## LONDON COUNTY COUNCIL.

## VACANCIES FOR ARCHITECTURAL STAFF

IN THE ARCHITECT'S DEPARTMENT.

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

ARCHITECT, Grade II, £700-£35-£840 a year.

ARCHITECT, Grade III, £550-£25-£700 a year.

TECHNICAL ASSISTANT (Section A), \*£440-£20-£580 a year.

TECHNICAL ASSISTANT (Section B), \*up to 16s. 6d. a week (max.).

\*Commencing rates will be according to qualifications and experience.

Candidates for Grade II and III positions should possess appropriate professional qualifications, and are required for work in connection with the design and erection of school buildings.

A number of Technical Assistants of good architectural training also required both for new works and for alterations.

Successful candidates are required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for permanent appointment and for advancement to higher positions, according to merit.

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

Canvassing disqualifies. (3659) 812

## HIS MAJESTY'S COLONIAL SERVICE.

TOWN PLANNING OFFICERS required by the Government of Nigeria. Appointments will be made on probation for permanent and pensionable employment or on contract for one tour in the first instance. Salary scale (inclusive of expatriation pay), £660-£1,300 per annum, by varying annual increments, point of entry depending on age, qualifications and experience. Rent of Government quarters varies from £60 to £90 per annum, according to salary. Candidates must possess the qualification of A.M.T.P.I., and preferably have professional engineering, architectural, or surveying qualifications in addition. They should have had experience in the Town Planning Branch of Municipal or other Local Authorities in the design and execution of Town Planning Schemes.

Tours of duty last from 18-24 months. The terms of service include free passages once each way each tour for the officer and, if married, for his wife, free medical attention and home leave on full pay at the rate of seven days for each month of resident service. Income tax is payable at low Nigerian rates only.

Applications should be made at once to the Director of Recruitment (Colonial Service), Colonial Office, 15, Victoria Street, London, S.W.1, stating age, professional qualifications, and experience. 954

COUNTY BOROUGH OF BIRKENHEAD.  
APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, salary in accordance with Grade A.5 of the National Scales, £460-£510 per annum, plus bonus, at present £59 16s. per annum.

Candidates should be qualified by examination, and should be Associates of the Royal Institute of British Architects or have an equivalent qualification, and must have had experience in housing, alterations and additions to properties, new buildings, quantities, specifications and estimates.

The appointment is subject to one month's notice on either side, and the person appointed will require to pass a medical examination, and to contribute the appropriate percentage of his salary in accordance with the Local Government Superannuation Act, 1937.

Applications must be made in the prescribed manner, particulars of which can be obtained from Mr. B. Robinson, M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Birkenhead, and must be submitted in a plain envelope endorsed "Senior Architectural Assistant," and delivered to me not later than 10 a.m. on Friday, 7th November, 1947.

E. W. TAME

Town Clerk.

Town Hall, Birkenhead.  
September, 1947. 938

## WEST SUSSEX COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments, at salaries in accordance with the National Scales of Salaries:—

(a) ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade V (£460-£510).

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

(c) ASSISTANT ARCHITECT. A.P.T., Grade II (£360-£405).

Each of the above appointments will carry a cost-of-living bonus (at present £59 16s. per annum).

Further particulars may be obtained from F. R. Steele, F.R.I.B.A., F.R.I.C.S., M.T.P.I., County Architect, County Hall, Chichester, to whom detailed applications must be submitted not later than the 6th November, 1947.

T. C. HAYWARD

Clerk of the County Council.

County Hall, Chichester.  
9th October, 1947. 942

## ROYAL BOROUGH OF NEW WINDSOR.

## TOWN PLANNING CONSULTANT.

Applications are invited from persons (preferably Architects), with suitable qualifications and experience in Town Planning, to act as the Council's Town Planning Consultant generally.

For the guidance of applicants, the main features of the Consultant's duties would be to advise on applications for town planning permission, and on the Council's own plans for housing and improvements generally; to attend meetings when necessary, and to prepare sketches to illustrate any suggestions made.

Applications, stating age, qualifications, experience, and the fees required, together with the names of three persons to whom reference may be made, must reach me not later than the 15th November, 1947.

R. WEBSTER STORR.

Town Clerk.

14, Park Street, Windsor. 939

## COUNTY BOROUGH OF WALLASEY.

## APPOINTMENT OF TEMPORARY ASSISTANT SCHOOLS ARCHITECT.

Applications are invited for the above post. The appointment will be temporary for a period of two years in the first instance. Applicants should be not more than 45 years of age, and preferably Associates of the R.I.B.A. Good experience of educational buildings is desirable.

Salary £535, plus two increments of £20 and one of £25 to £600, plus bonus, £59 19s. 3d.

Forms of application and further particulars may be obtained from the Director of Education, Town Hall, Wallasey, to whom completed forms should be returned not later than a fortnight from the date of the appearance of this advertisement.

EMRYS EVANS.

Town Clerk.

Town Hall, Wallasey. 946

## WEST SUFFOLK COUNTY COUNCIL.

Applications are invited for the appointment of a QUANTITY SURVEYOR, in the County Architect's Department, at a salary within the range of Grades A.P.T., V-VI, of the National Joint Council salary scale (£460-£600), commencing salary according to qualifications and experience, plus cost-of-living bonus (at present £60 per annum).

Travelling allowance in accordance with County Scale.

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

Forms of application may be obtained from the undersigned, by whom applications, accompanied by three recent testimonials, should be received not later than Monday, 10th November, 1947.

L. G. H. MUNSEY.

Clerk of the County Council.

Shire Hall, Bury St. Edmunds. 961

LEEDS COLLEGE OF ART.  
SCHOOL OF ARCHITECTURE.

Applications are invited for the appointment of Full-time HEAD of the Leeds School of Architecture. The School is a department of the Leeds College of Art, and its diplomas are recognised for statutory purposes and by the R.I.B.A. and the Town Planning Institute for exemption purposes.

Applicants must be Associates or Fellows of the R.I.B.A. Salary: minimum £1,000, annual increments £23; maximum £1,150; additions (maximum £45) for approved training.

Further particulars and forms of application may be obtained by forwarding stamped addressed foolscap envelope to the Director of Education, Education Offices, Leeds, 1. 964

## METROPOLITAN BOROUGH OF STEPNEY.

The Council of the above Borough invite applications for FOUR TEMPORARY ARCHITECTURAL ASSISTANTS. Two of these positions are within Grade A.P.T., V, of the National Scheme of Conditions of Service (basic annual salary £460, rising to £510), and two are within Grade A.P.T., II, of the National Scheme (basic annual salary £360 to £405). In addition to the basic salary, there will be paid the London weighting allowance of £20 and cost-of-living bonus, at present £59 16s. per annum. Candidates should not be more than 40 years of age, and Associates or Licentiates of the Royal Institute of British Architects are preferred. Applications, stating age and experience, should be delivered to the undersigned. Canvassing on behalf of any applicant, either directly or indirectly, will disqualify.

J. E. ARNOLD JAMES.

Town Clerk.

London Fruit Exchange, Duval Street, E.1.  
16th October, 1947. 977

## CITY OF COVENTRY.

Applications are invited for the following whole-time appointments, on the permanent staff of the City Architectural Department:—

(a) ONE ASSISTANT ARCHITECTS, one vacancy each in the Housing and Education Sections.

Salary grade A.P.T., V, commencing at £460 per annum, and rising to £510 per annum. Candidates should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

(b) ONE ASSISTANT ARCHITECT.

Salary grade, A.P.T., IV, commencing at £420 per annum, and rising to £465 per annum.

(c) ONE SENIOR ASSISTANT QUANTITY SURVEYOR.

Salary grade A.P.T., V, commencing at £460 per annum, and rising to £510 per annum. Candidates should be Professional Associates of the Royal Institution of Chartered Surveyors (Quantities Division).

(d) ONE ASSISTANT QUANTITY SURVEYOR.

Salary grade A.P.T., III, commencing at £390 per annum, and rising to £435 per annum.

Salary increments are subject to satisfactory service. The above salaries are exclusive of the Council's cost-of-living bonus, which may vary, but which at present amounts to 23s. per week.

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's medical referee. The successful male applicants will be required to contribute to the Coventry Municipal Officers', Widows' and Orphans' Pension Fund.

Applications must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Monday, the 10th November, 1947.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON.

City Architect.

1a, Warwick Row, Coventry.  
23rd October, 1947. 976

## HIS MAJESTY'S COLONIAL SERVICE.

ARCHITECTS are required by the Government of Nigeria. The appointments are on probation for permanent and pensionable employment, or on contract for one tour of 18-24 months in the first instance, with possibility of renewal up to 7 years. Salary (inclusive of expatriation pay), £660-£1,300 per annum, according to qualifications and experience. Candidates must possess the qualifications of A.P.T.B.A., and preference will be given to candidates who have had experience in the design of modern school and hospital buildings. A diploma in Town Planning would be an advantage.

The terms of service include free passages once each way each tour for the officer and, if married, for his wife, free medical attention and home leave on full pay at the rate of 7 days for each month of resident service. Rent of Government quarters varies from £60 to £90 per annum, according to salary. Income tax is payable at low West African rates only. A gratuity is payable, on the completion of his contract, to an Officer appointed on temporary terms if he has not been selected for transfer to the pensionable establishment.

Applicants should write at once to the Director of Recruitment (Colonial Service), Colonial Office, 15, Victoria Street, London, S.W.1, stating age, professional qualifications, and experience. 974

# CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

Applications are invited for the under-mentioned appointments, in the City Architect's Department. Salaries in accordance with the National Joint Council Salary Scales, plus cost-of-living bonus, at present £59 16s. per annum.

- (a) ASSISTANT ARCHITECT. A.P.T., Grade VI (£535-£600).
- (b) ASSISTANT ARCHITECT. A.P.T., Grade V (£460-£510).
- (c) ASSISTANT ARCHITECT. A.P.T., Grade IV (£420-£465).
- (d) ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade IV (£420-£465).

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

Applications, stating age, qualifications, experience, and post applied for, and accompanied by copy testimonials, should be addressed to the City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1.

17th October, 1947.

971

## CITY OF CARDIFF.

### CITY SURVEYOR'S DEPARTMENT.

Applications are invited for the under-mentioned appointments, which are subject to the following conditions: (i) the Scheme of Conditions of Service approved by the National Joint Council for Local Authorities, (ii) the Local Government Superannuation Act, 1937, (iii) the passing of a medical examination by the successful candidates, (iv) determination by one month's notice on either side, (v) the disclosure in writing of any known relationship between the candidate and any member of the Council or the holder of any senior office under the Council, and (vi) canvassing, directly or indirectly, will disqualify.

(a) ASSISTANT ARCHITECT. £625 - £700 (Grade VIII). Applicants must be Chartered Architects and be competent to take charge of a section of the department principally concerned with public buildings and hospitals.

(b) ASSISTANT ARCHITECTS. (£535-£600 (Grade VI). Applicants must be Chartered Architects with good experience in design and the supervision of buildings during erection. (Two vacancies).

(c) ASSISTANT ARCHITECTS. £460 - £510. (Grade V). Applicants must be Chartered Architects with good experience in the preparation of working drawings of all types. (Three vacancies).

(d) ARCHITECTURAL ASSISTANTS. £420-£465 (Grade IV). Applicants must be Architects with good general experience as an Assistant. (Six vacancies).

(e) ARCHITECTURAL ASSISTANTS. (£390-£435 (Grade III). Applicants should have had experience of a general nature. (Five vacancies).

(f) ASSISTANT QUANTITY SURVEYOR. £575-£650 (Grade VII). Applicants should be Chartered Quantity Surveyors and fully experienced in the preparation of bills of quantities and the control of major contracts.

(g) ASSISTANT QUANTITY SURVEYOR. £535-£600 (Grade VI). Applicants must be Chartered Quantity Surveyors and have had a good general experience.

(h) QUANTITY SURVEYING ASSISTANT. £460-£510 (Grade V). Applicants to be fully experienced in the duties of a Quantity Surveyor and able to control contracts under supervision.

(i) QUANTITY SURVEYING ASSISTANT. £420-£465 (Grade IV). Applicants should have had a general experience in a large quantity surveying department.

The foregoing are permanent appointments, and the City Council will materially assist in obtaining housing accommodation for successful applicants.

The salaries are exclusive of the present cost-of-living bonus of £59 16s. 6d. per annum.

Applicants should be tabulated, showing age, qualifications, present and previous appointments, salaries, list of buildings on which experience has been obtained, and the names of three referees to whom reference can be made, and delivered to the undersigned within fourteen days of the appearance of this advertisement.

S. TAPPER JONES.

Town Clerk.

City Hall, Cardiff.

967

## KINGSTON-UPON-HULL EDUCATION

### COLLEGE OF ART AND CRAFTS.

Required, as soon as possible, a Senior Assistant Lecturer in Architecture for appointment to the Kingston-upon-Hull College of Art and Crafts. Candidates should possess a degree or diploma of a recognised school of architecture and be qualified (in co-operation with three other full-time Lecturers) to lecture and to supervise the studio work in connection with the five-year diploma course. Salary will be in accordance with the Burnham Scale of Salaries for Technical Institutions, i.e., £600 to £25 to £750 (men) or £480 to £20 to £600 (women), with additional allowances for training.

Particulars of appointment and application forms (to be returned within fourteen days of the date of this issue) may be obtained on receipt of a stamped addressed foolscap envelope from the Director of Education, Guildhall, Kingston-upon-Hull.

966

## QUANTITY SURVEYORS.

The Imperial War Graves Commission have vacancies in their London office for Quantity Surveyors on salary scale £750/25/1,000. They should have received recognised and adequate training and have had experience in the offices of professional quantity surveyors on structures of important architectural value.

Applications to be made in writing to Appointment Office, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks.

968

## GOVERNMENT OF IRAQ.

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

QUANTITY SURVEYOR required by Iraqi State Railways for three years in first instance. Salary I.D.90 a month, plus cost-of-living allowance, I.D.24 (Iraq Dinar 1 equals £1). Free passages. Provident Fund. Candidates should be experienced Quantity Surveyors, and be competent to undertake all operations up to final preparation of Bills of Quantities. 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/17612 on both letter and envelope.

966

## FIFE COUNTY COUNCIL.

### PROPERTY AND WORKS DEPARTMENT, KIRKCALDY.

ARCHITECTURAL ASSISTANT required. Salary £370 by £20 to £480, plus war increase, at present £60 per month. Applicants must be under 45 years of age, preferably with previous experience of Local Authority Schemes, such as Schools, Hospitals, etc. Medical examination under Superannuation Scheme. Applications, with copies of testimonials, to be lodged with the undersigned not later than 30th October, 1947. No canvassing.

J. M. MITCHELL,

County Clerk.

County Buildings, Cupar-Fife.

17th October, 1947.

970

## Architectural Appointments Vacant

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

INTERNATIONAL CORRESPONDENCE SCHOOLS.—Require for immediate full-time employment, an ARCHITECT (Male), A.R.I.B.A., also a JUNIOR ARCHITECTURAL ASSISTANT, qualified by examination. Write or 'phone, stating age, experience, and salary required, to Director of Instruction, International Correspondence Schools, Kingsway, W.C.2.

EXPERIENCED ARCHITECTURAL ASSISTANT required in progressive London office. Knowledge of prices and ability to prepare specifications an asset. Reply, stating experience and salary required, to Box 923.

JUNIOR ARCHITECTURAL ASSISTANT required in general practice in Somerset; R.I.B.A.; Intermediate standard; good draughtsmanship and experience essential; excellent prospects; salary by arrangement. Box 933.

JUNIOR ARCHITECTURAL ASSISTANT required (Female); good draughtswoman; knowledge of office routine, shorthand and typing an advantage. Apply, stating age, experience, training, and salary required, to G. Scott-Baird, Chartered Architect, Senior & Godwin, Blandford.

934

ESTIMATING SURVEYOR required by large building contractors engaged on Council housing schemes, factories, etc.; must have knowledge of estimating, measuring, quantities; write, stating age, experience, and salary required; interviews open to likely candidates. Apply Architect, E. O'Sullivan, Ltd., Building Contractor, Cray Avenue, St. Mary Cray, Kent. Telephone: Orpington 3737.

961

MICHELIN TYRE CO., LTD., Stoke-on-Trent, have vacancy for PROPERTY SURVEYOR, to be based at Stoke and as required, visit the major provincial towns to value and report on property; also arrange for alterations, decorations, etc. Write Labour Office in confidence, stating qualifications and experience. 948

ARCHITECTURAL ASSISTANT required immediately in London office; must be good draughtsman of intermediate standard; some experience of industrial buildings an advantage. Box 963.

REQUIRED, young, qualified Quantity Surveyor for Bills of Quantities, Specifications, Estimates, etc., in private architect's office, Somerset. Full particulars to Box 972.

LEADING firm of Architectural Joiners, Shop-fitters and Decorative Specialists engaged on work of national importance and high priority invites applications from experienced Estimators for a vacancy which exists in the Estimating Department. Applicants, whose ages should range between 35 and 40, must be capable of working on own initiative, preparing specifications, taking off quantities and calculating basic prices. The type of man required is one who is prepared to work as a member of a team in which the right spirit and goodwill are preferred to individual brilliance and self-interest. Please give full particulars to Box 973.

xlvi

QUANTITY SURVEYOR required by Scottish Firm of Architects, to take charge of surveying department. Apply with full particulars and salary expected, to Box 969.

## Architectural Appointments Wanted

MATRICULATED ex-Serviceman, very keen to resume work, desires post with Building Surveying Firm for Training as Building Surveyor; a little previous experience, night school. Box 412.

ARCHITECT (35), chartered and registered 16 years, most varied experience, seeks position of responsibility. Box 433.

ARCHITECT'S ASSISTANT (34), ex-Serviceman, full qualification, wide experience, domestic, commercial, industrial, etc., seeks position in progressive London office, or abroad. Box 436.

A.R.I.B.A. (29) requires position in progressive London office; experience in housing and war damage; good knowledge of building construction, reversion, specification, and working drawings; competent designer. Box 437.

ARCHITECT, mature, varied experience, would accept freelance work or responsible post as Assistant. Box 435.

## Other Appointments Vacant

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

ACTIVE REPRESENTATIVES required for part-time, calling on builders already (building chemicals); Home Counties, South Wales and East Anglia; excellent possibilities for experienced salesman; preferably car owners. Apply, stating references and experiences, to Box 956.

ENGINEER ESTIMATORS required by a large City Company; age 30/35; B.Sc., Mechanical or Civil Engineering or equivalent; engineering apprenticeship and experience in estimating major projects with large engineering contracting organizations; salary depending on qualifications and experience, minimum £600; Provident Fund benefits. Applicants should write, quoting Dept. H.415, stating age, qualifications, experience, etc., to Box 947.

MANAGER for old-established Company engaged in the manufacture of Factory made agricultural workers houses; preference will be given to applicants possessing a thorough knowledge of standardised quantity production of sectional timber structures, and an executive ability to maintain administrative control in offices, works, and on outside erection; modern housing accommodation is available if required. Write, giving full details of age, experience, and positions held in chronological order, stating salary required, and when free to take up this appointment. Box 943.

## Other Appointments Wanted

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

QUALIFIED ARCHITECT, with own office, can undertake part-time work for Architects in North-East area; working drawings, sketches, surveys, etc.; literary work. Box 841.

QUANTITY SURVEYOR, with London and Provincial practice, desires to meet Architects and Surveyors whom he can assist in any professional capacity. Box 941.

ARCHITECT (A.R.I.B.A.), in practice in Grays Inn, London, offers spare-time coaching, as desired, to Students or Probationers; individually or as small group. Box 940.

## For Sale

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

FOR SALE, 5-cwt. Hand-operated Express Lift; cage 4 ft. x 3 ft. x 6 ft. 6 in. high; in working order; £200 complete; easily converted to electricity. Box 975.

## 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.

WANTED.—One set of "Arts Et Mathesis Graphiques." Please reply to Box 6.

WANTED.—Complete set of "Typography." Box 467.

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.

TRACINGS (London), 235, Vauxhall Bridge Road, S.W.1 (Vic. 4203). Professional tracings to busy offices, quality of work described as exquisite, most economic.

977



**WANTED**, to purchase, Small Architectural Practice in triangle Bath—Cardiff—Gloscester; full investigation required, supported by audited accounts. Reply in the strictest confidence to Box 902.

**SECRETARY/SHORTHAND TYPIST** required by Architect to large London Company; application should state age, experience, etc.; salary, £325 p.a. Box 958.

**CENTRAL HEATING OIL BURNERS.**—Insist on the British-made Parwinc—no smoking, clean, trouble free; no waiting for coal or coke deliveries; no embargo now. Write at once to Parker, Winder & Achurch, Ltd., Makers, 20, Broad Street, Birmingham, 1.

**OAK** Panelling, Balustrade or Banisters wanted, to make parapet approximately 15 ft. long by 2 ft. high. Write Hay, Stoke Hill Farm, Andover, Hants. 945

**ELDERLY ARCHITECT**, with office furniture and small practice, desires arrangement with another firm in West End for use of 2-3 Rooms., with possible share of typist. Write Box 944.

### Educational Announcements

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

#### R.I.B.A. QUALIFYING EXAMINATIONS.

Mr. O. W. Box, F.R.I.B.A., M.R.San.I. Courses of Correspondence and Personal to Studio 11, Gower St. London, W.C.1 (Tel.: Euston 3906)

#### R.I.B.A. and T.P. INST EXAMS. Private

Arranged by Mr. L. Stuart Stanley, M.A. F.R.I.B.A., M.T.P.I. Tutor, 213, Euston Road N.W.1. Tel.: EUS. 774.

### COURSES IN PREPARATION FOR

#### R.I.B.A. Intermediate and Final

conducted by post for the full examinations or for selected subjects only. A descriptive booklet is obtainable on application to

#### THE ELLIS SCHOOL OF BUILDING

Principal: A. B. Waters, F.R.I.B.A.

#### 10, ALBANY HOUSE, WORCESTER

A London office is available for consultation by appointment.

### RUBBER FLOORING

Attractive colours, quick delivery. Fully trained staff available. Suitable Industrial, Commercial premises and Conversions. Plans submitted for special designs. Full particulars:

**METROPOLITAN RUBBER CO.**  
75, Parkway, Camden Town, N.W.1.  
Gulliver 4535.

## STEELWORK BY R.W. SHARMAN LTD.

SWAN WORKS, HANWORTH, MIDDX

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

### Pressed Steel Tanks by

#### BRAITHWAITE

& CO ENGINEERS LTD

KINGS HOUSE, HAYMARKET, S.W.1

Telephone: W H Itchall 5093 Telegrams: Bromkirk-Phone

## AMERICAN ARCHITECTURE

"AMERICAN BUILDER"	per year
Monthly	50s. 0d.
"THE ARCHITECTURAL FORUM"	
Monthly	50s. 0d.
"THE ARCHITECTURAL RECORD"	
Monthly	32s. 6d.
"PROGRESSIVE ARCHITECTURE"	
(formerly "PENCIL POINTS")	
Monthly	30s. 0d.

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

## HAND FORGED WROUGHT IRON WORK

to Architects designs  
by highly skilled craftsmen

IMPROVED DESIGNS LTD.  
LEAMINGTON SPA.

### SPECIFY

**ELLISON** for MAIN  
ELECTRIC  
SWITCHGEAR

GEORGE ELLISON  
LIMITED  
Perry Barr, Birmingham 22B  
*It's Reliable*

### John Broadfoot & Sons, Ltd.

Inchholm Works, Ferryden Street,  
Whiteinch, GLASGOW, W.4.

"Teakoid" Composition Flooring,  
Lino, Cork and Rubber in plain  
and decorative designs.

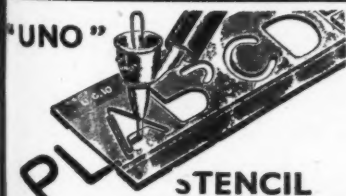
## FIRE PROTECTION

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.



## "UNO" STENCILS for Lettering ENGINEERS' & ARCHITECTS' PLANS

A. WEST & PARTNERS Ltd.

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



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

(FIRE-FINISHED  
COLOURED  
OPAQUE GLASS)

James Clark & Son, Ltd., and Eaton, Parr & Gibson Ltd., were leading specialist makers 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.


Barby House, Glasshill St., Blackfriars, London, S.E.1  
Telephone: WATERLOO 4611 (12 lines)  
Canbury Bournemouth Eastbourne Reading



## Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Accrington Brick & Tile Co., Ltd.	xxiv	Freeman, Joseph, Sons & Co., Ltd.	—	Oak Veneer Co., Ltd.	—
Aerialite, Ltd.	xi	General Cable Mfrg. Co., Ltd.	—	Oliver, Wm., & Sons, Ltd.	xxix
Aldam, E. Hill & Co., Ltd.	ix	Gray, J. W., & Son, Ltd.	—	Philip Flooring Co., Ltd.	—
Allied Paints & Chemicals, Ltd.	viii	Greenwoods & Alrva Ventiliating Co., Ltd.	—	Pilkington Bros., Ltd.	xxviii
Anderson Construction Co., Ltd.	—	Halliday Boilers, Ltd.	—	Pinnall, George, & Co., Ltd.	xxviii
Andrews Bros. (Bristol), Ltd.	—	Hall, Matthew & Co., Ltd.	—	Plastic Products (England), Ltd.	—
Austin-Hall Group of Companies	—	Hammill Brick Co., Ltd.	—	Poles, Ltd.	—
Bate, Jabez, & Co., Ltd.	—	Hammond & Champness, Ltd.	—	Prodorite, Ltd.	—
Belling & Co., Ltd.	—	Harvey, G. A., & Co. (London), Ltd.	—	Pritchett & Gold and E.P.S. Co., Ltd.	—
Blackburn, Thomas, & Sons, Ltd.	—	Helliwell & Co., Ltd.	—	Pynford, Ltd.	—
Booth, John, & Sons (Bolton), Ltd.	—	Henderson, P. O., Ltd.	—	Redhill Tile Co., Ltd.	—
Bolton Gate Company, Ltd.	—	Higgs & Hill, Ltd.	—	Renfrew Foundries, Ltd.	—
Boulton & Paul, Ltd.	—	Hills Patent Glazing Co., Ltd.	—	Ruberoil Co., Ltd.	—
Boyle, Robert, & Son	—	Hollway, W. F., & Brother, Ltd.	—	Sadd, John, & Sons, Ltd.	—
Braby, Fredk., & Co., Ltd.	—	Hope, Henry, & Sons, Ltd.	—	Sanders, Wm., & Co. (Wednesbury), Ltd.	—
Brathwaite & Co., Engineers, Ltd.	—	Horsley Bridge & Thomas Piggott, Ltd.	—	Sankey, J. H., & Sons, Ltd.	—
Bratt, Colbran, Ltd.	—	Huntley & Sparks, Ltd.	—	Scaffolding (Great Britain), Ltd.	—
Briggs, William, & Sons, Ltd.	—	Insulte Products Corporation, Ltd.	—	Seamastic, Ltd.	—
British Cast Iron Research Assoc.	—	Imperial Chemical Industries	—	Serck Tubes, Ltd.	—
British Dolomene Co. (1938), Ltd.	—	Improved Designs, Ltd.	—	Service Electric Co., Ltd.	—
British National Electric, Ltd.	—	Jenkins, Robert, & Co., Ltd.	—	Shaffer, James, Ltd.	—
British Steelwork Assoc.	—	Kieft, Cyril, & Co., Ltd.	—	Sharman, R. W., Ltd.	—
British Thomson-Houston Co., Ltd.	—	King, George W., Ltd.	—	Sharp Bros. & Knight, Ltd.	—
Broadcast Relay Service, Ltd.	—	Kwikform, Ltd.	—	Shires & Co. (London), Ltd.	—
Broadfoot, John, & Son, Ltd.	—	Laing, John, & Son, Ltd.	—	Simplex Electric Co., Ltd.	—
Bromsgrove Guild, Ltd.	—	Lead Industries Development Council	—	Smiths Fireproof Floors, Ltd.	—
Bryant, C., & Son, Ltd.	—	Le Grand, Sutcliffe & Gell, Ltd.	—	Spiral Tube & Components Co., Ltd.	—
Bryce White & Co., Ltd.	—	Linealux, Ltd.	—	Spooner's	—
Carlisle Electric Manufacturing Co., Ltd.	—	Limmer & Trinidad Lake Asphalt Co., Ltd.	—	Sterling Textile Industries, Ltd.	—
Cattell, R., Ltd.	—	London Brick Co., Ltd.	—	Stobart & Son, Ltd.	—
Celotex, Ltd.	—	Mackay Industrial Equipment, Ltd.	—	Sundala Board Co., Ltd.	—
Cement Marketing Co., Ltd.	—	Magnet Joinery, Ltd.	—	Supremus Tile Co., Ltd.	—
Central Distributing Co., The	—	Mallinson, William, & Son, Ltd.	—	Taylor Woodrow Construction, Ltd.	—
Chance Bros., Ltd.	—	Mavitta Drafting Machines, Ltd.	—	Tentest Fibre Board Co., Ltd.	—
Clark & Eaton, Ltd., James	—	Maxwell, Andrew	—	Thompson Beacon Windows, Ltd., John	—
Clarke & Vigilant Sprinklers, Ltd.	—	McArd, Robert, & Co., Ltd.	—	Thornborough & Son (Manchester), Ltd.	—
Clifford Aero & Auto, Ltd.	—	McCall & Co. (Sheffield), Ltd.	—	True Flue, Ltd.	—
Code Design, Ltd.	—	Merchant Trading Co., Ltd.	—	Tucker, Duncan (Tottenham), Ltd.	—
Copper Development Association	—	Metropolitan Rubber Co.	—	Tudor Accumulator Co., Ltd.	—
Crittall Manufacturing Co., Ltd.	—	Metropolitan-Vickers Electric Co., Ltd.	—	Universal Asbestos Manufacturing Co., Ltd.	—
Cygnat Joinery, Ltd.	—	Morris, M. A., Ltd.	—	Val de Travers Asphalt Paving Co., Ltd.	—
Denny, Mott & Dickson, Ltd.	—	Midland Electric Manufacturing Co., Ltd.	—	Venesta, Ltd.	—
Doulton & Co., Ltd.	—	Midland Joinery Works, Ltd.	—	Vent-Axia, Ltd.	—
Eagle Range & Grate Co., Ltd.	—	Mills Scaffold Co., Ltd.	—	Versil, Ltd.	—
Edgar, Wm., & Son, Ltd.	—	Milners Safe Co., Ltd.	—	Walpamur Co., Ltd., The	—
Edmonds, A., & Co., Ltd.	—	Moler Products, Ltd.	—	Wardle Engineering Co., Ltd., The	—
Ellison, George, Ltd.	—	Morris, Herbert, Ltd.	—	West, A., & Partners, Ltd.	—
Ellis School of Building	—	Morris Singer Company	—	Wheeler, F. H., & Co., Ltd.	—
English Joinery Manufacturers' Assoc.	—	Musgrave & Co., Ltd.	—	Winpey, George, & Co., Ltd.	—
Excel Asphalt Co., Ltd.	—	National Federation of Clay Industries	—	Wood of Colchester, Ltd.	—
Expanded Metal Co., Ltd.	—	Neuchatel Asphalt Co., Ltd.	—	Youngman, W. C., Ltd.	—
Franki Compressed Pile Co., Ltd.	—	Nobles & Hoare, Ltd.	—	Zinc Alloy Rust-Proofing Co., Ltd.	—
Frazzi, Ltd.	—				

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see pages xiv, xli, xlii, xliii, xliv, xlv.



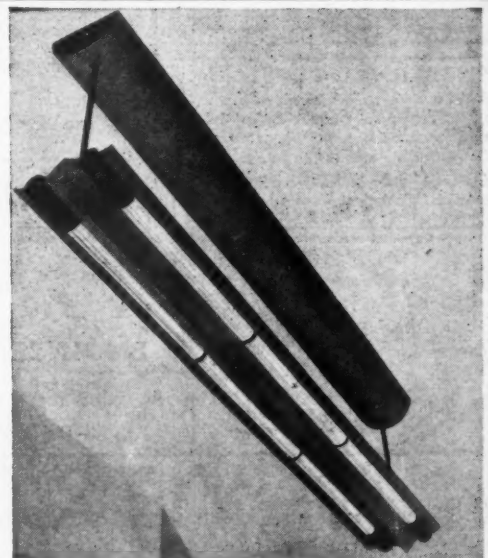
**IN TILE OR BRIQUETTE**  
for Housing Schemes

**SUPREMUS TILE**  
**COMPANY LTD.**

WOODCOCK HILL,  
RICKMANSWORTH, HERTS  
'Phone 2803

Made to  
Architect's Specification

Showrooms:  
544, KINGSLAND RD., DALSTON, LONDON, E.8.  
CLIsold 5532.



**ALBATROSS**—2 x 5 ft. 80 watt warm white tubes control gear housed in top portion. Finish, mottled plastic on metal. Designed for direct and indirect lighting

Please send for illustrated catalogue and price list.

Designers and Manufacturers of Commercial, Industrial and Decorative lighting, fittings and signs.

**LINEALUX LTD**  
142, Liverpool Road,  
London - N.1.  
Tel.: North 4841/2

PAGE

xxx

xxxv

xxxvi

xxxvii

xxxviii

xxxix

xl

xli

xlii

xliii

xliiii

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

xlv

TD

oad.

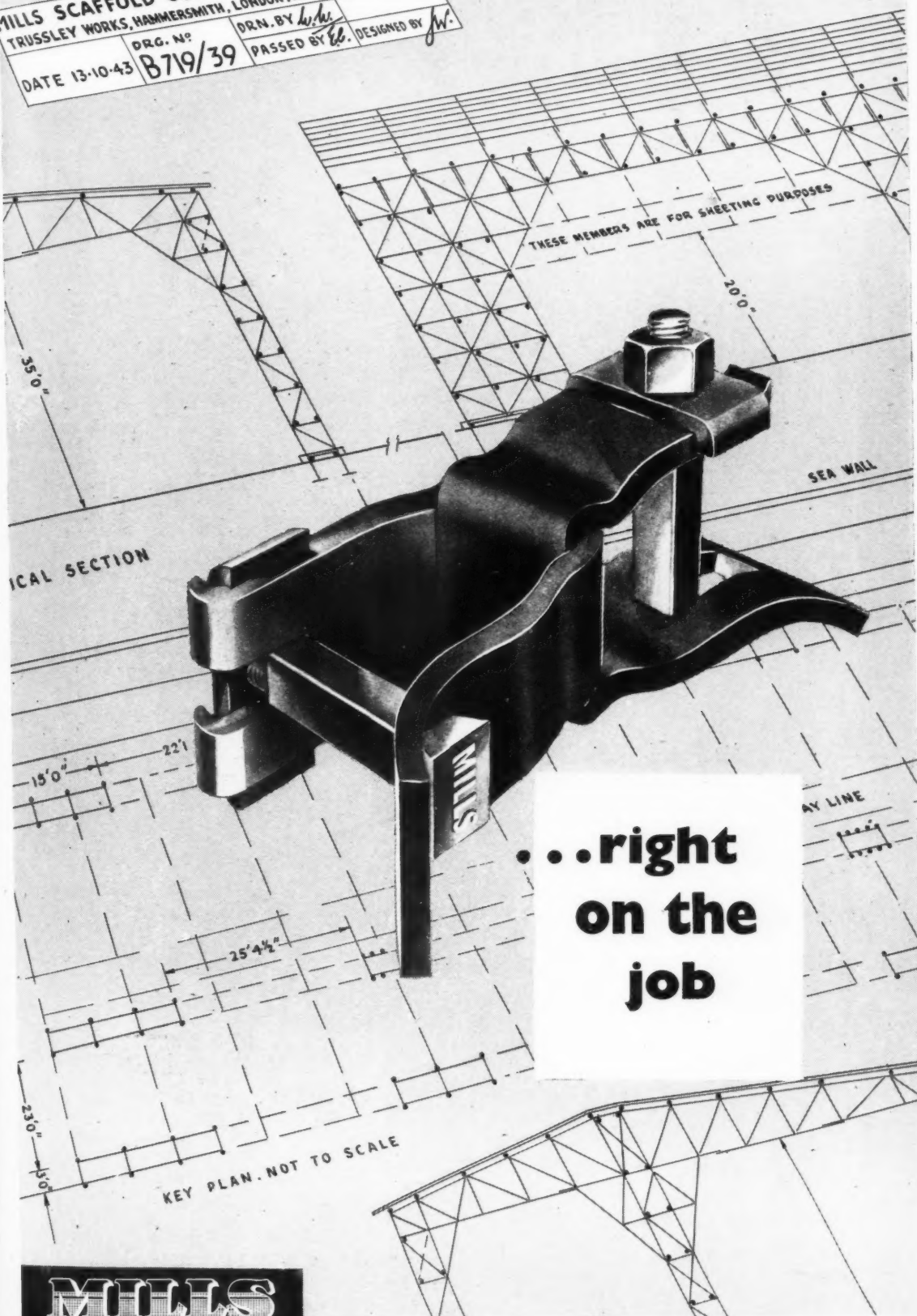
N.I.

41/2





MILLS SCAFFOLD COMPANY LTD.  
TRUSSLEY WORKS, HAMMERSMITH, LONDON, W.6.  
DATE 13-10-43 DRG. NO. B719/39  
DRN. BY *W.H.* PASSED BY *E.E.* DESIGNED BY *J.W.*



...right  
on the  
job

**MILLS**  
SCAFFOLD CO., LTD.

Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6. Tel: RIVERSIDE 5026/9



## STERLING FELT

*plays an important part  
in the building programme*

SPECIFY "STERLING" CORRUGATED  
HAIR FELT INSULATION SHEETS

**"STERLING"**

DOUBLE SIZE

HAIR FELT SHEETS

34" x 40" also 48" x 48"

Made only by—

**STERLING TEXTILE INDUSTRIES LTD**

STERLING WORKS, ALEXANDRA ROAD, PONDERS END  
MIDDLESEX

Phone: HOWARD 2214-S, 1755

MIDDLESEX

STERTEX, ENFIELD

ENQUIRE FROM YOUR MERCHANT  
TRADE ENQUIRIES INVITED



## Tudor

*completes a proud half century*

FROM very small beginnings, in 1897, the Tudor Accumulator Company has grown to be one of the best-known names in the battery industry. Tudor played a prominent part in the early intense developments of the electrical industry. One of the largest batteries ever supplied was the 1,500 ton mammoth accumulator for the Rio tramways. They made batteries, too, for the earliest electric vehicles, the forerunners of the many thousands now on the road. To-day Tudor installations, large and small, stationary and mobile, are serving in countless ways all over the world—in telephone exchanges, in power stations, for emergency lighting equipment, in submarines, and in electric road vehicles. With such a crowded half century of successful development behind them Tudor look forward with confidence to a prosperous century.

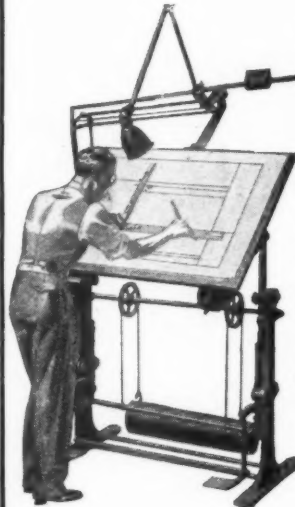
**TUDOR**

ACCUMULATOR CO. LTD.  
50, GROSVENOR GARDENS, LONDON, S.W.1.



T57C/47

*The perfect  
drawing board*



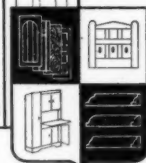
The MAVITTA Drafting Machine stamps your drawing office as EFFICIENT. Made of steel tube with adjustable ball-bearings. The main angles are located automatically, intermediate angles by lock. Scales have inlaid celluloid edges and are divided to order on two edges.

THE  
MAVITTA DRAFTING  
MACHINES LTD.  
Anchor Works, Park Rd.,  
Aston, Birmingham, 6.  
Telephone: EAST 0462.  
Telegrams: MAVITTA,  
Birmingham.

**MAVITTA**  
DRAFTING MACHINES



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



ESTABLISHED 1879

**BRYCE WHITE & CO. LTD.**

LANGLEY, SOUTHAMPTON, BRISTOL & LONDON  
ESTABLISHED 1879

Head Office: DESERONTO WHARF, LANGLEY, BUCKS  
(Telephone: LANGLEY 232 & SOUTHALL 2231)

s  
g  
s

.  
.