

# 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.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Welbeck 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 9, Belgrave Square, S.W.1.	Sloane 0421
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 14	Ardwick 3480
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Welbeck 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council. 28, Sackville Street, W.1.	Regent 3613
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 25, Victoria Street, S.W.1.	Abbey 5422-3
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGC	British Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	British Steelwork Association. Egginton House, Buckingham Gate, S.W.1.	Victoria 7301-2-3
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A. Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAD	Central Institute of Arts and Design. C/o National Gallery, W.C.2.	Whitehall 2415
CIAM	Congres Internationaux d'Architectures Modernes. Dolderstr. 7, Zurich, Switzerland	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 7070
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280	
CUJC	Coal Utilization Joint Council. 54, Victoria Street, S.W.1.	Victoria 9851
DIA	Design and Industries Association. 9, Conduit Street, W.1.	Mayfair 5432
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EC	Electricity Commission. Savoy Court, Strand, W.C.2.	Temple Bar 7565
EJMA	English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Whitehall 9606
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association. Stapleford Road, Trowell, Nottingham.	Ilkeston 623/4/5
FLD	Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881

No. 2737] [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

# GREENWOOD'S

"DIFUSAIRE"  
DISTRIBUTORS  
FOR WALLS AND  
CEILINGS



"DIFUSEX"  
FOR WALLS & DOORS.  
HINGED OR SLIDING  
REGISTERS

**GREENWOOD'S AND AIRVAC VENTILATING COMPANY LIMITED**

SPECIALISTS IN THE DESIGN AND MANUFACTURE OF VENTILATORS AND COMPLETE VENTILATING UNITS

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

Telephone: CHANCERY 8135/6/7



Sash Cords do not break—they Rot!

If you are specifying  
Sash Windows, avoid  
future Cord troubles and  
expense, by specifying

**"EVERLASTO"**

Weatherproofed by scientific process AT NO EXTRA COST

Rotproof  
Non-Stretch  
Flexible

Strength  
Long Life  
Low Cost



ENGLANDS  
SUPER CORD

Registered Trade  
Mark No. 519412

Weatherproof & Rotproof

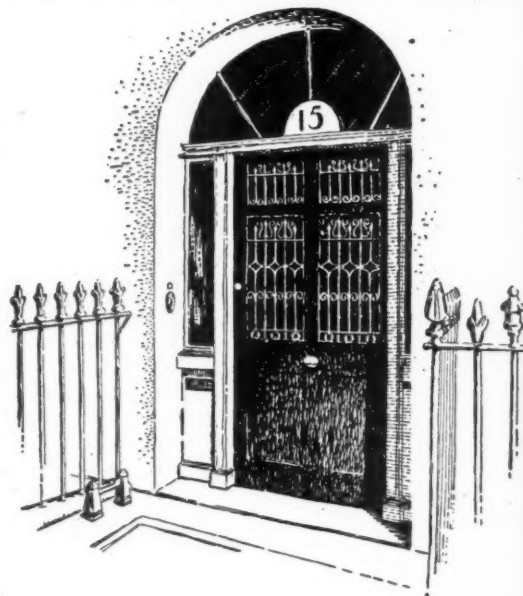
## SASH CORD

for Sashes, Poles, Clothes Rails, etc.—in  
fact wherever a SUPER Cord is required.

MADE IN ALL SIZES AND LENGTHS. Write for details.

**JAMES LEVER & SONS LIMITED**

Everlasto Cordage Works, Delph Street, Bolton



This interesting old door leads to the offices of

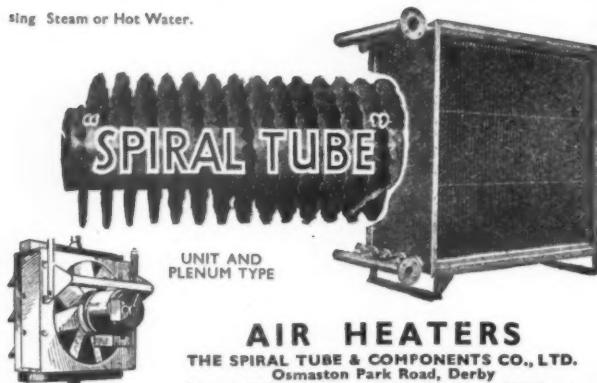
## LLOYD BOARDS LTD

15 PORTMAN ST • LONDON • W.1



MEMBERS OF THE BUILDING BOARD  
MANUFACTURERS ASSOCIATION

ing Steam or Hot Water.

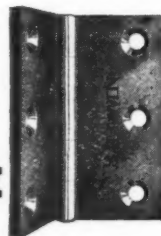


**SPIRAL TUBE**

UNIT AND  
PLENUM TYPE

### AIR HEATERS

THE SPIRAL TUBE & COMPONENTS CO., LTD.  
Osmaston Park Road, Derby  
London Office: Honeypot Lane, Stanmore, Middlesex.



EASY DOES IT

**FIX**

**BALDWIN'S**

Cast iron butt hinges

Sole Manufacturers:

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

RS.  
NG



TD

W · I

ARD  
ION

T

S

S

N

M-W-33



HOMES

- Fire
- Gale
- Per
- and
- Verm
- Bea
- col
- app
- Per
- insu
- One
- weigh
- Sav
- roof

1" Cedar  
in resis  
Economi  
Long  
We quot  
if requir

Colt Shi  
ever for  
and wea

Copies o  
graphs  
Write t

**W**

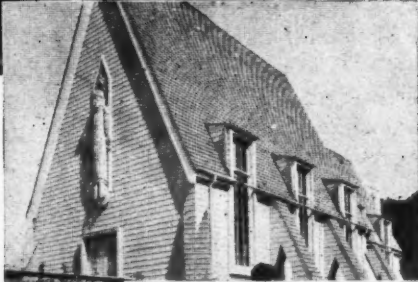


# COLT Canadian Cedar Wood (CEDAR WOOD TILES) SHINGLES

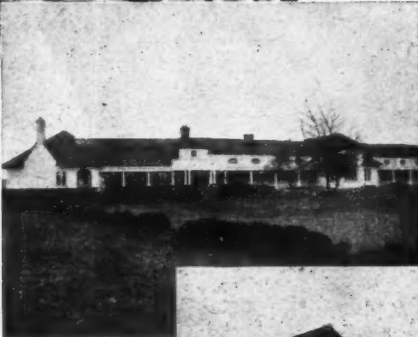
**ALL PURPOSE,  
PERMANENTLY  
DURABLE  
TROUBLE-FREE  
ROOFING**



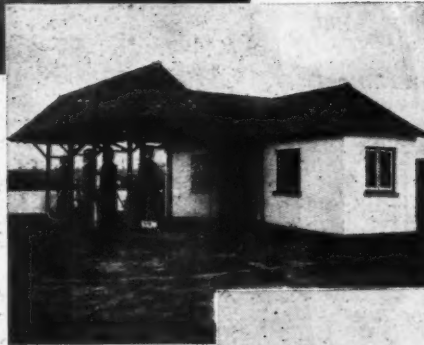
**HOMES**



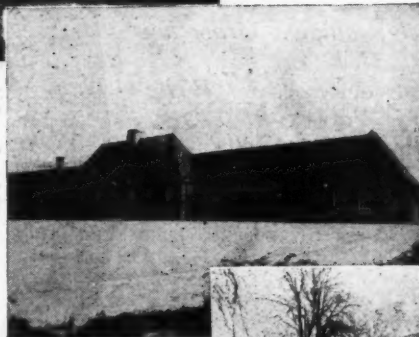
**CHURCHES**



**CLUB HOUSES**



**PETROL STATIONS**



**SCHOOLS**



**AGRICULTURAL BUILDINGS**

- Fire retardant.
- Gale proof.
- Permanent and Rot proof.
- Vermin proof.
- Beauty in colour and appearance.
- Perfect insulation.
- One tenth the weight of tiles. Saves 40% roof timber.

1" Cedar equals 11 in. concrete in resistance to heat or cold. Economical in cost and fixing. Long trouble-free life. We quote for supply and fixing if required.

Colt Shingles are now being specified more widely than ever for their beauty, long life, high insulation value and weatherproof qualities.

Copies of our Shingle Handbook containing 110 photographs and full technical information on request. Write to:

**W.H.COLT (LONDON) LTD**  
**SURBITON • SURREY**

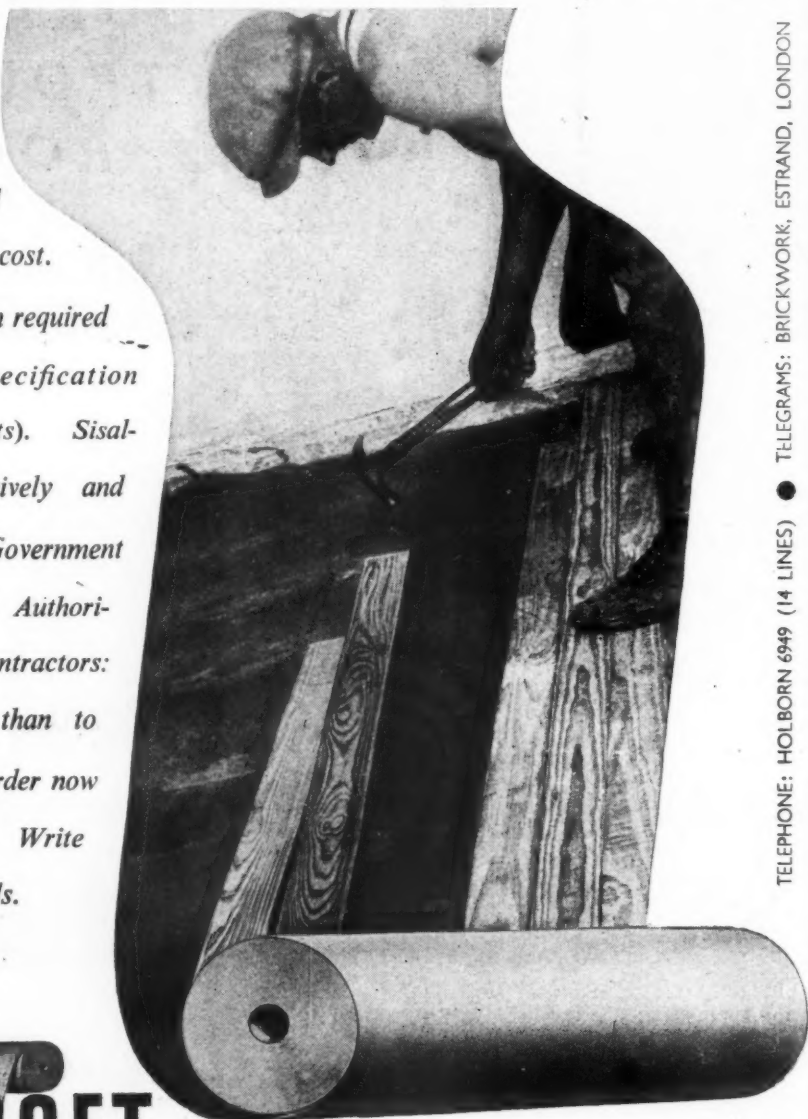
Telephone : ELMBRIDGE 6511 (4 lines)

COLT SHINGLES ARE SELECTED FROM  
NO. 1 GRADE XXXXX SHINGLES

## Any Quantity Surveyor knows

*The toughness and durability of Sisalkraft means economy : in applied cost there is no cheaper nor superior building paper. And this economy is particularly apparent when Sisalkraft is used as a liner under hardwood floors to keep out air, dust, and moisture. Its remarkable strength and toughness resists damage from accidental hammer blows and men working on it ; and when used for protection of floor surfaces from constructional debris it will effect a saving that will more than repay its cost.*

*Sisalkraft is stronger than required by any standard specification (proved by Official Tests). Sisalkraft is being extensively and consistently used by Government Departments, Municipal Authorities, and Public Works Contractors: you cannot do better than to follow their example. Order now for prompt delivery. Write to-day for technical details.*



# SISALKRAFT

TRADE MARK

Sole Distributors for British Sisalkraft Ltd

**J.H.SANKEY & SON.LTD**

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

TELEPHONE: HOLBORN 6949 (14 LINES) • TELEGRAMS: BRICKWORK, ESTRAND, LONDON



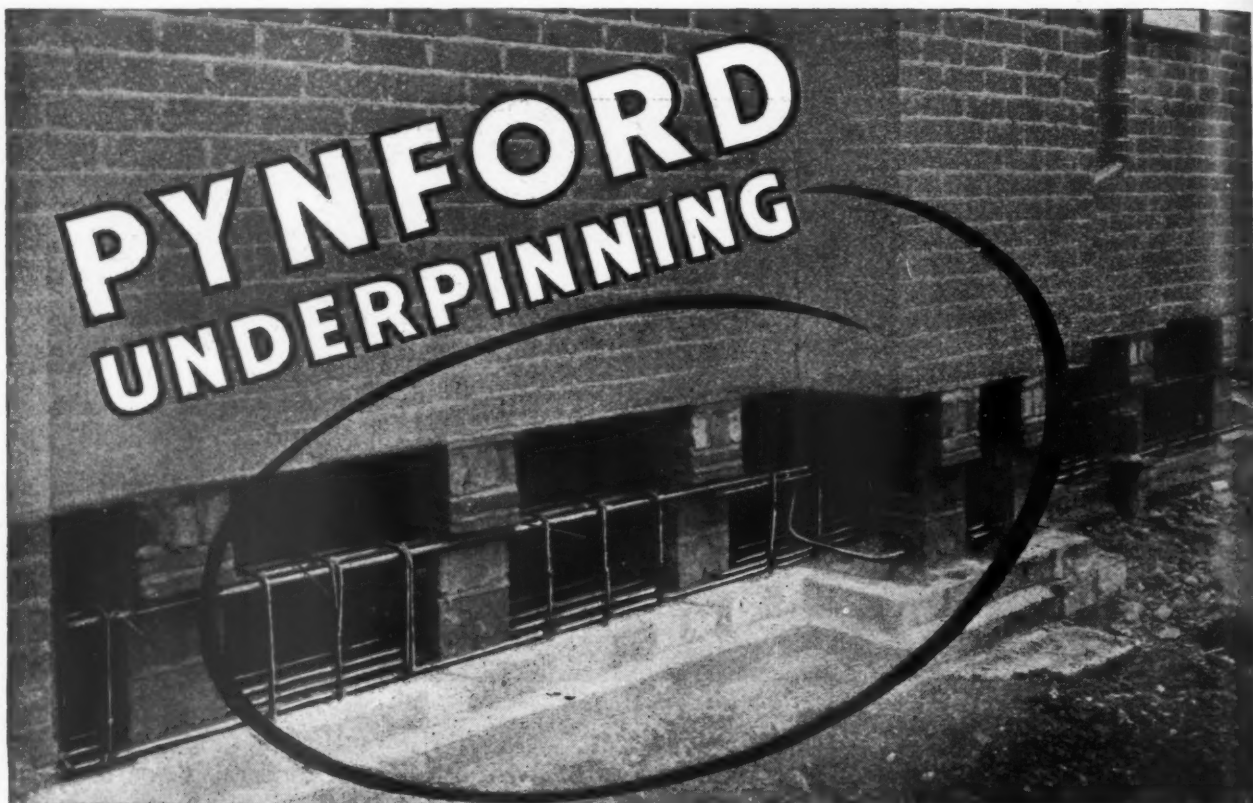
Behind all "Portcullis" gas appliances is the designers' and scientists' careful, untiring research to improve the design and efficiency of gas heating. Today's conditions, with the serious shortage of raw materials, do not allow the production of appliances in the large numbers required. Now and for the future our efforts will be to give the best service possible. Meanwhile, newly designed appliances incorporating the latest developments is our aim. Our most recent production, the "Neat Lancelot", is already receiving the praise of the industry: Other new appliances will follow.

**BRATT COLBRAN LIMITED**

10 MORTIMER STREET • LONDON • W.1

MUSEUM; 9411-9311

---



## ***NEW method of UNDERPINNING***

*gives remarkable savings in TIME, LABOUR & MATERIALS*

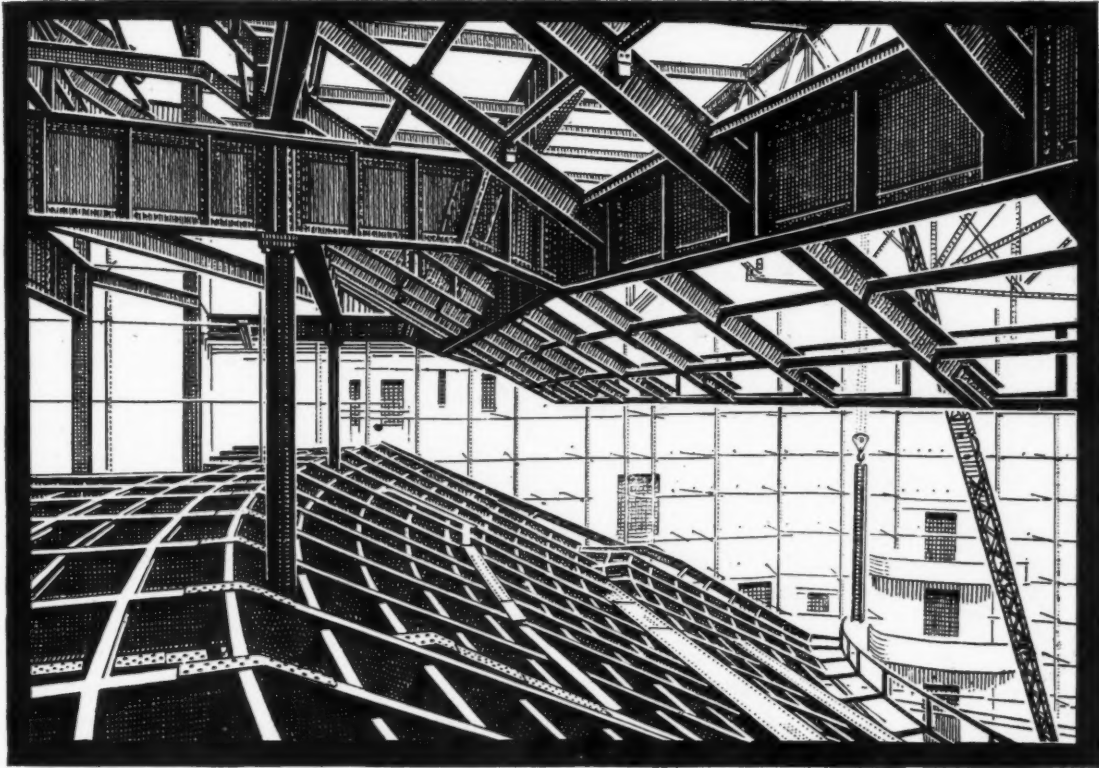
- The Pynford method enables beams of suitable size to be framed together under existing walls and so redistribute the building loads over the footings or carry the loads to the new bases or both
- The Pynford method makes possible the underpinning of fifty times the lengths now executed in one operation by other methods without prohibitive cost in shoring
- The Pynford method makes possible the pouring of concrete to long lengths in one operation thus adding to the strength
- Patents applied for.

# **PYNFORD LIMITED**

***SPECIALISTS IN UNDERPINNING***

- **74 LANCASTER ROAD • STROUD GREEN : N 4**  
**TEL: ARC 2372**





TYPICAL THEATRE AND CINEMA CONSTRUCTION BY DAWNAYS.

# STEELWORK

Our works are equipped with the most modern machinery, enabling us to fabricate all classes of riveted and welded structures. Large stocks of steel are held, and contracts of any magnitude can be carried out anywhere at home or abroad with the greatest speed, economy and efficiency.

Cables and Telegrams: "DAWNAYS, LONDON" Code: BENTLEY'S 2nd.

## DAWNAYS OF BATTERSEA

Head Office: Steelworks Road, Battersea, London, S.W.11

King's Dock Works SWANSEA 3185	East Moors Works CARDIFF 2557	54 Victoria St., London, S.W.1 VICTORIA 1541	Bridge Rd. Works WELWYN GDN. 242	Thorpe Works NORWICH
236 Winchester Road SOUTHAMPTON 72826	16 Park Street PETERBOROUGH 4547	Steelworks Rd., London, S.W.11 BATTERSEA 2525	Western Chmrs., South St. ROMFORD 2106	7 The Close NORWICH 23141

155 Princess Avenue, HULL: CENTRAL 816

# crisis....

but the coal-miner has an ally —

*the architect*

to whom we offer this independent advice

*in the fight to save fuel by insulation*

In a fuel crisis the architect is the miner's ally—coal saved by insulating a building is as good as extra coal dug. But how much coal *can* be saved? **Q**Our technicians are qualified to work out an analysis showing the possible saving of fuel—and money—in each project. Having convinced both you and your clients of the saving, they will plan the whole scheme and submit detail drawings for your approval. **Q**Many types of insulating material are fixed by means of the AnD Wedge method, and we will advise impartially as to which will be the most economical, and efficient, in the particular instance. Finally, we, or our agents, will undertake the complete installation should you so desire. **Q**Next winter there may be a fuel crisis again—unless heating is rigorously conserved. We know you want to help—will you allow us the privilege of co-operating?

**A N D E R S O N** CONSTRUCTION COMPANY LIMITED

Liverpool House, 15 Eldon Street, London, E.C.2. Telephone: LONdon Wall 1527



*Structural insulation specialists*

**OPEN THE DOOR,  
RICHARD**



*It will open  
easily, because*

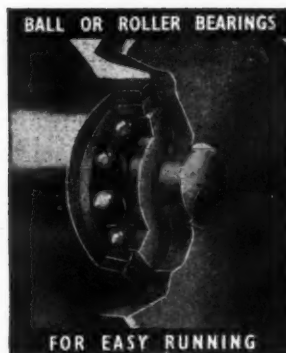
*it is fitted with King Sliding Door Gear. At a touch of the hand a King Sliding Door glides aside, swiftly, silently and smoothly, like mercury upon glass, or water upon the petal of a lily. Poetical words, but they have a very practical meaning: Always specify King Sliding Door Gear for trouble-free ease of operation, neat appearance and long life.*

# ★ **KING SLIDING DOOR GEAR**

For a gliding example of perfect smooth running consider a door which is fitted with King Sliding Door Gear. Years of careful study and experience have helped to place King Door Gear in the foremost position. No other make possesses all the valuable features which are incorporated in the King Product.

Stockists throughout the country have King Door Gear ready for immediate delivery.

**WRITE FOR ILLUSTRATED BOOKLET  
AND PRICE LIST.**



★ Other features of King Door Gear include: King-Alloy Rolled Steel Section. Domed Top sheds all moisture. Correct Trolley Clearance. Anti-rust finish. Flat treads for long life. Lateral movement for easy running. Tecalet Pressure Lubrication.

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

**PHONE: HITCHIN 960 (10 LINES)**



**B**efore 1882 the outlook at the Royal Mint was pretty dim. That year the existing crude lighting arrangements gave way to the brilliant new electric lamps—lighted by P & G and E.P.S. batteries—and things began to look brighter. This was one of the first of many important public buildings lit by these famous batteries from that year onwards. A modern installation is that in Trades House at Glasgow. Here P & G and E.P.S. cells stand ready for any emer-

gency should normal mains lighting fail.

Plans for any building intended to accommodate a large number of people should include an emergency lighting system as standard equipment. Risk of pilfering, panic or even disaster consequent upon mains failure is thereby avoided. P & G and E.P.S. cells embody 60 years' manufacturing experience. The system can be made 100% automatic. We shall be glad to advise on any project.

**PRITCHETT & GOLD and E.P.S. CO. LTD.**

*Formerly The Electrical Power Storage Co Ltd—the first Battery makers*



# CONSTRUCTION IN CURVES



This semi-spherical, observatory dome, constructed and assembled at our works, shows the all-round skill of our efficient technical staff and highly experienced Fabricators.

It was an unusual job, handled with our usual skill and attention to detail—just a part of the wide range of construction work we undertake . . . Light, Medium or Heavy Structures—welded or riveted.



**RELIABILITY**  
GATESHEAD, CO. DURHAM  
The sign of  
Service with Quality—  
Speed with Reliability

## WRIGHT ANDERSON & CO. LTD.

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

Telephone: Gateshead 72246 (3 lines) Telegrams: "Construct Gateshead"

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

Telephone: Holborn 9811

Contractors to: ADMIRALTY, WAR OFFICE, AIR MINISTRY, MINISTRY OF WORKS, CROWN AGENTS FOR THE COLONIES



## 200 HOMES KEPT WARM FOR A YEAR on the fuel saved by insulating one factory

Every uninsulated building wastes fuel — and will go on doing so, until unnecessary heat losses are overcome by lining the roof and walls with Celotex cane-fibre insulation. The fuel saving which then results is dramatic. In a steel-framed factory with 100,000 sq. ft. of corrugated asbestos roof, it may be as much as 600 tons of coal a year — enough to supply the needs of 200 homes. In buildings of every kind the installation of Celotex quickly pays for itself in terms of lower fuel bills and a smaller capital charge for the heating plant. 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	—	220	—	220	—	—	220	220
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
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 %			76	79	75	84	76	84

invest in

**CELOTEX**

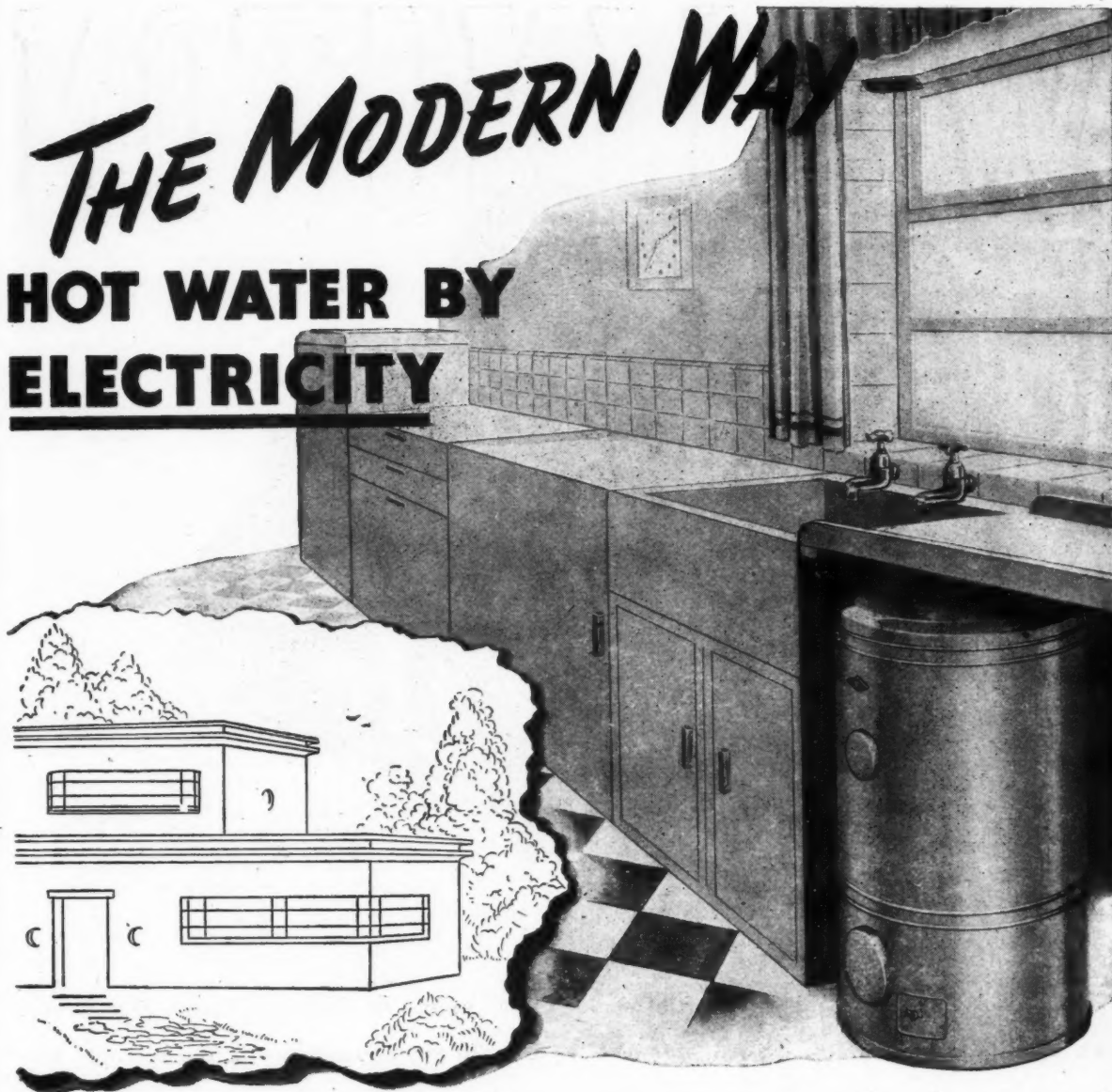
insulation

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

T.10

# THE MODERN WAY

## HOT WATER BY ELECTRICITY



The Sadia Type U.D.B. Water Heater provides a complete electric hot water service from one simple factory-made unit. This unit stands on the floor under the draining board in the kitchen, or in any other convenient place. Plumbing consists of one pipe from the cold water tank to the "INLET" union; another from the "Outlet" union to the hot water taps; and thirdly a vent or expansion pipe. Wiring consists of one 15 amp. sub-circuit direct from the fuse or distribution board. The skilful design of this simple, factory-built unit has reduced on-site labour to a minimum. Everyone interested in modern building should know more about this new 20 gallon Sadia water heater. For further details of the U.D.B., write to:—

AIDAS ELECTRIC LIMITED, Sadia Works,  
Rowdell Road, Northolt, Middlesex.  
Manufacturers of Sadia Electric Water Heaters.

**SADIA** TYPE U.D.B.  
AUTOMATIC ELECTRIC WATER HEATER



# WELLINGTON

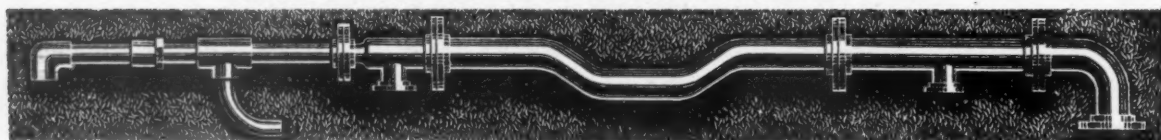


*Criticising the perverse actions of the Portuguese Regency, Wellington said—  
"They could not see things in the same light as I did; they were naturally looking to the salvation of their own Country."*

We now look forward to the salvation of our own country by trade, by export, and last but not least by courage. Wellington tubes are playing their part, as they did during the

war years, in backing Britain's recovery. Our 70 years experience in the multiple uses of Iron and Steel Tubes is always at your disposal.

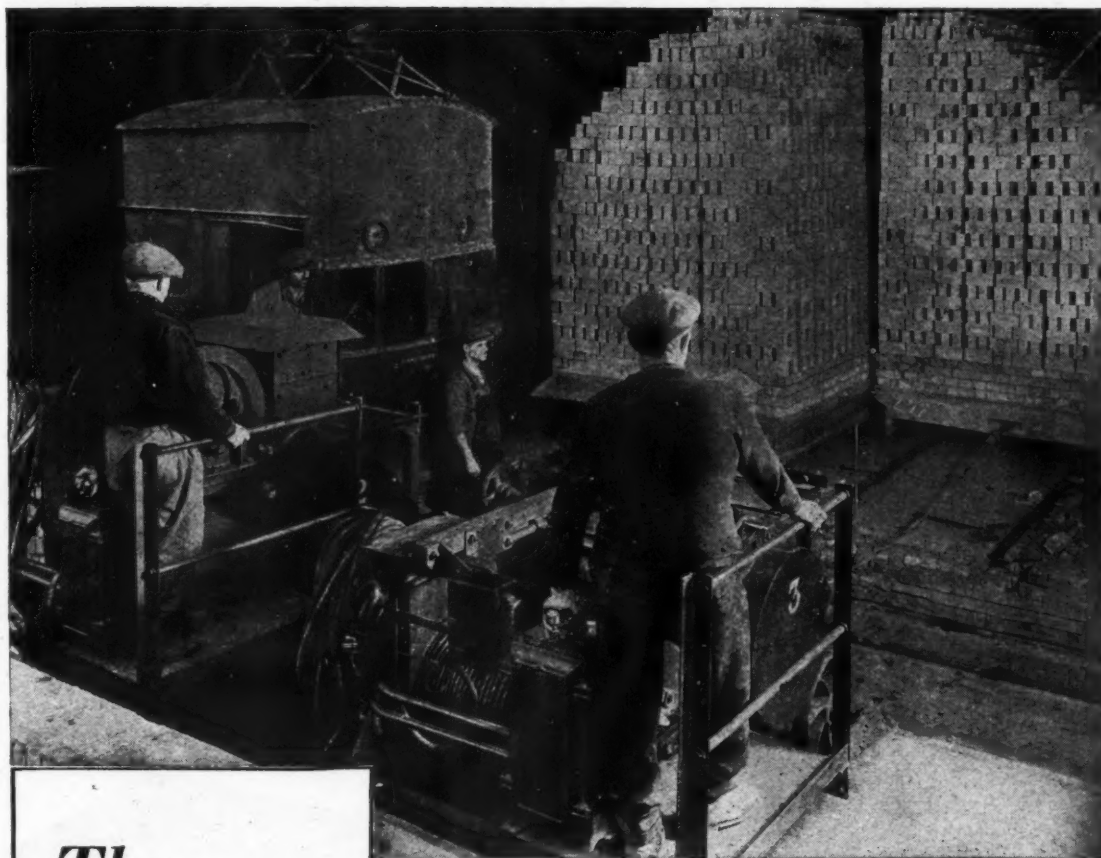
## *THE STEEL TUBE PEOPLE*



**WELLINGTON**  
TUBE WORKS LTD.

HEAD OFFICE & WORKS • GREAT BRIDGE • TIPTON • STAFFS





*The  
Human  
Element  
in the*  
**BRICK  
Industry**

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 Stewarthy; Canteens; comprehensive indoor and outdoor recreational facilities; sports grounds; club premises; welfare departments; safety and first-aid organisations.

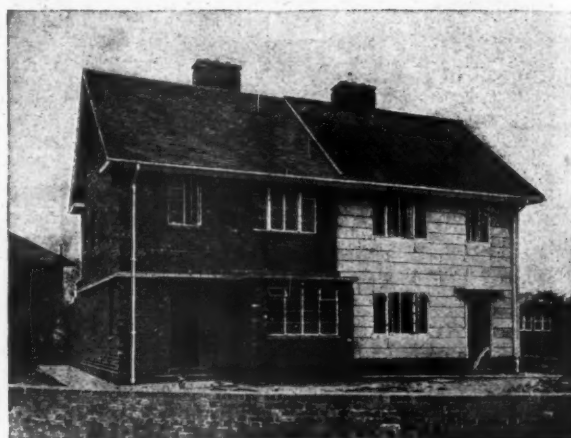
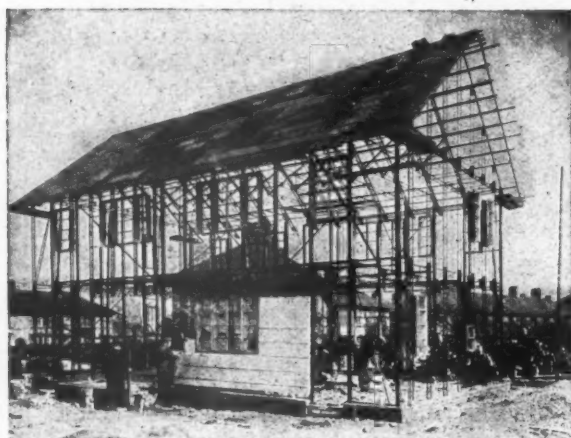


PHORPES

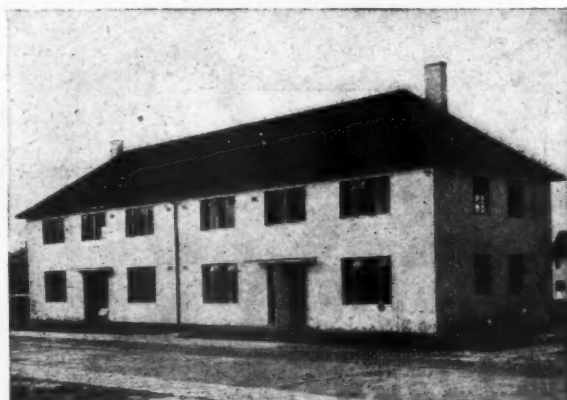
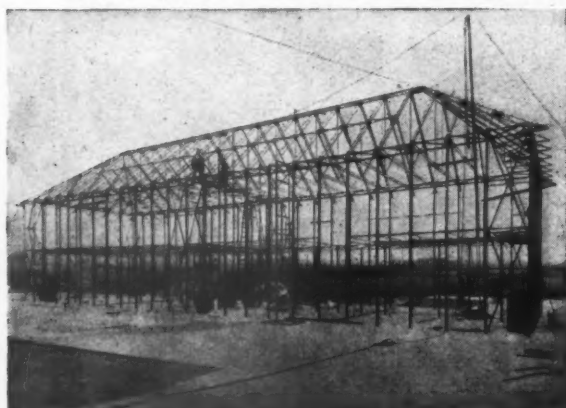
LONDON BRICK COMPANY LIMITED

L.B.C.

# 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, 270743

*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

**From  
drabness . . . .**



**to . . . .**



**brightness**



House at Colnbrook, Buckinghamshire, sprayed with  
White Snowcem, by Plastic Surfaces Ltd., London.

## **SNOWCEM WATERPROOF CEMENT PAINT**

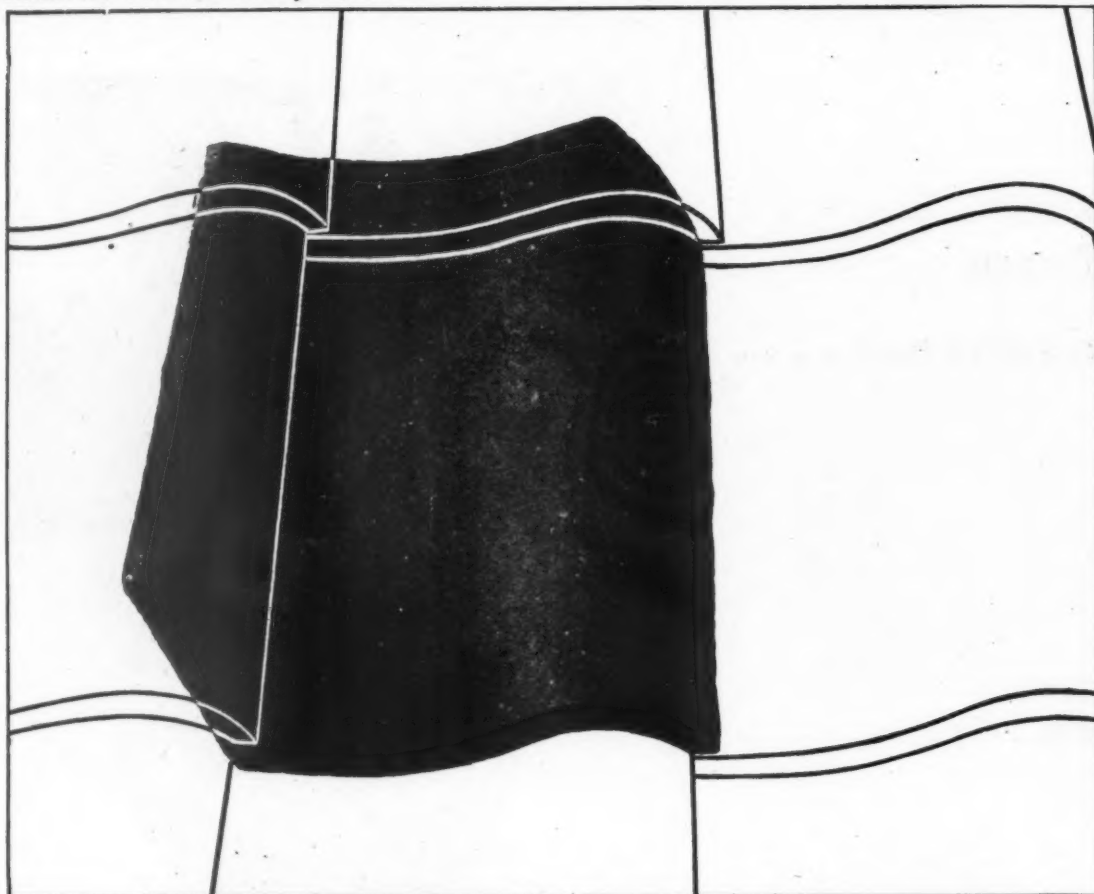
Supplied in: WHITE, CREAM, PINK & SILVER-GREY.



**THE CEMENT MARKETING CO., LTD., 192 ASHLEY GARDENS, LONDON, S.W.1.**  
Telephone: Victoria 6677.

or: G. & T. EARLE LTD., Cement Manufacturers, Hull. Telephone: Hull 16121.  
THE SOUTH WALES PORTLAND CEMENT & LIME CO. LTD., Penarth, Glam. Telephone: Penarth 300.

SM347



## Delivery of Single-lap Roofing Tiles . . .

In spite of many difficulties, the production of "Triton" Roofing Tiles has been maintained at full capacity. The present position is that orders for all patterns of single-lap roofing tiles can be accepted for forward deliveries. Estimated deliveries for the various patterns will be advised on application to the works.

**WHEATLY**  
Single-lap Roofing Tiles  
Also Ridge Tiles (Blue and Red), Floor Quarries and Fireplace Briquettes.



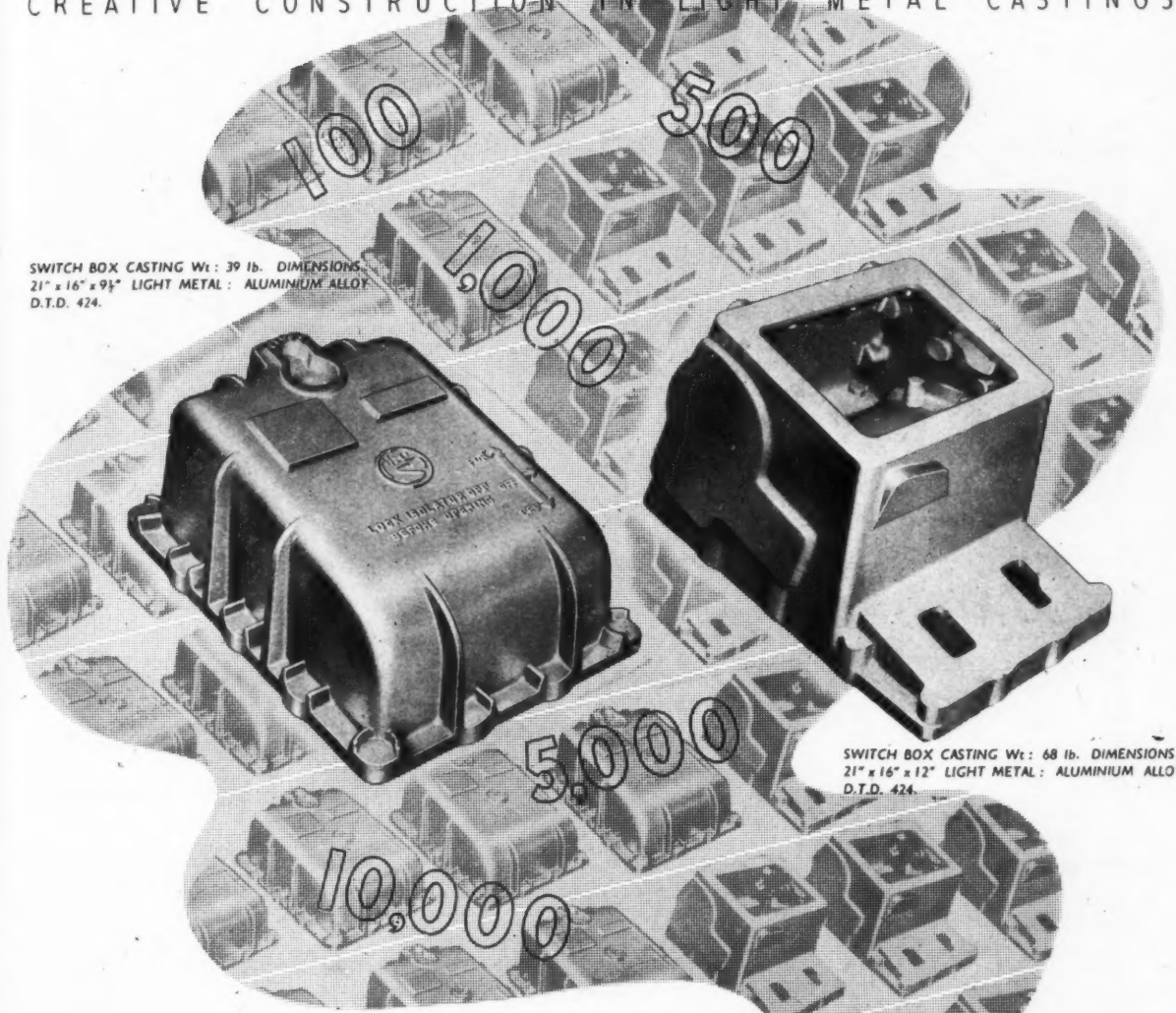
**WHEATLY AND COMPANY LIMITED**  
SPRINGFIELD TILERIES • TRENT VALE • STOKE-ON-TRENT

*Manufacturers also of Lockjoint Floor Quarries, Single-lap Roofing Tiles, Ridge Tiles, (Blue and Red) and Briquette Fireplaces*

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



CREATIVE CONSTRUCTION IN LIGHT METAL CASTINGS



SWITCH BOX CASTING Wt: 39 lb. DIMENSIONS:  
21" x 16" x 9 1/2" LIGHT METAL: ALUMINIUM ALLOY  
D.T.D. 424.

SWITCH BOX CASTING Wt: 68 lb. DIMENSIONS:  
21" x 16" x 12" LIGHT METAL: ALUMINIUM ALLOY  
D.T.D. 424.

## The right-size foundry for any-size job in *Light Metals*

Large castings or small castings . . . . . a hundred, five hundred or thousands—off . . . . . with unique manufacturing facilities "Renfrew" are able to take any-size job of intricacy in their stride. Production is planned to provide the maximum economies, output and an improved product. The fully mechanised foundry is backed by outstanding pattern and tool-room facilities. A complete technical advisory service is available to all who require castings.



# RENFREW FOUNDRIES LTD

H I L L I N G T O N   •   G L A S G O W   •   S . W . 2



***Windows - doors - mouldings  
staircases - dressers  
kitchen units***

Sadd's to-day are playing their part in the large-scale manufacture of every kind of joinery for the nation's housing. But even in quantity production they succeed in giving an extra touch of quality in keeping with their reputation for fine woodwork.

**JOHN SADD**  
**& SONS, LTD.**  
**specialists in joinery**  
**MALDON** Telephone Maldon 131 (6 lines) **ESSEX**  
London Office: ALDWYCH House, W.C.2. Telephone: Holborn 7225

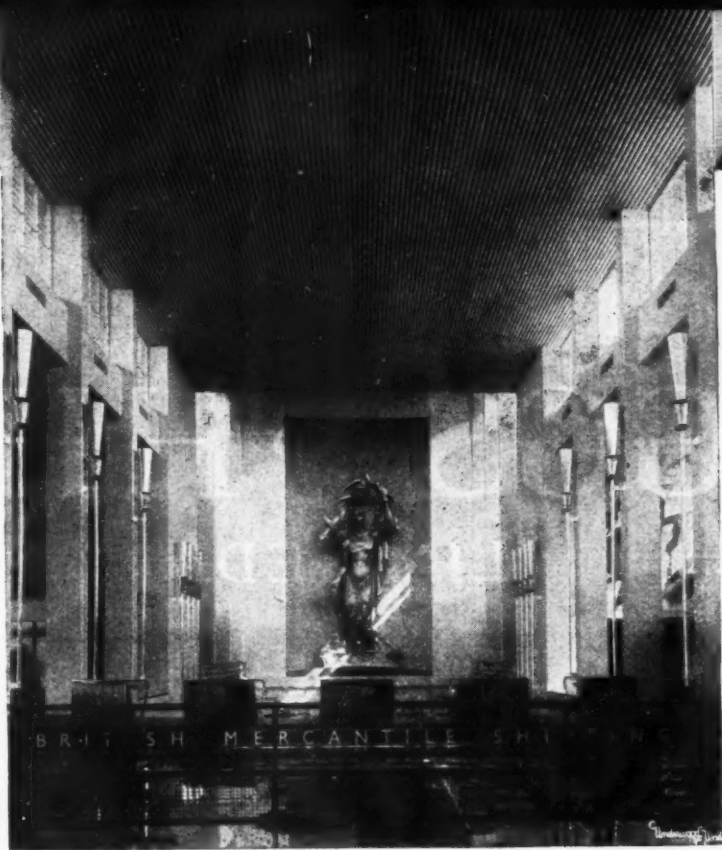
Sd. XVI/7-46







# MODERN DIGNITY



*Write for New Brochure "Designing with Asbestos-Cement"*

TURNERS ASBESTOS CEMENT CO. LTD.

TRAFFORD PARK MANCHESTER 17

HIGGS AND HILL  
LIMITED

LONDON

LEEDS

COVENTRY



o

o

c

s

v  
a  
i  
t  
c  
i  
c  
f  
P  
C  
s  
r

IN

P

(suc





## THE "DULUX" CAN,

when it is again obtainable, will contain a paint remarkable both for hardness and for elasticity. Hardness is of first importance in a paint which is required to resist knocks and abrasions, harsh climates and repeated washings. But it must not be achieved at the expense of elasticity. If elasticity is lacking the film will craze, crack and eventually peel off.

One way of testing film hardness is shown in the picture. The rocker rocks longer on a hard surface.

# IMPERIAL CHEMICAL INDUSTRIES LIMITED

PAINTS DIVISION

(successors to Nobel Chemical Finishes Ltd.)



SLOUGH - BUCKS.

Telephone - SLOUGH 23851

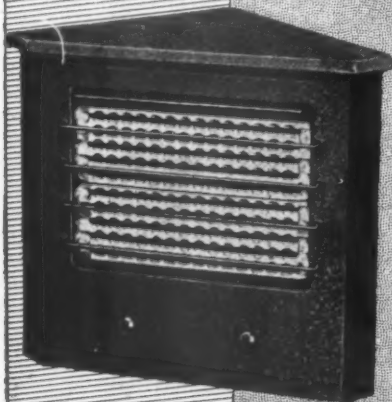
D.D.751

**TO ALL CONCERNED  
in planning and  
building homes**

As leading manufacturers of Electric Fires, cookers and other Home Electrical Appliances, we offer over thirty years intensive and specialised experience.

The two fires illustrated are styled to modern tastes; they combine radiant and convected heat in a scientifically balanced output.

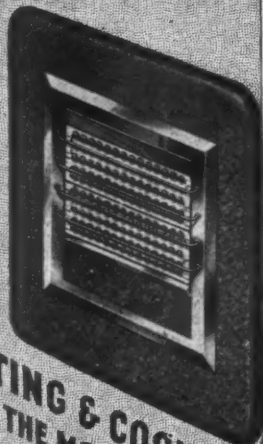
'Belling' Electric Domestic Cooking Equipment is, of course, famous for its high efficiency.



Above:  
The Corner Fireplace

Although present production is largely absorbed by urgent Government orders for Housing requirements, all enquiries will receive our keen and enthusiastic co-operation.

Right: Wall Panel Fire



**ELECTRIC HEATING & COOKING  
FOR THE MODERN HOME**

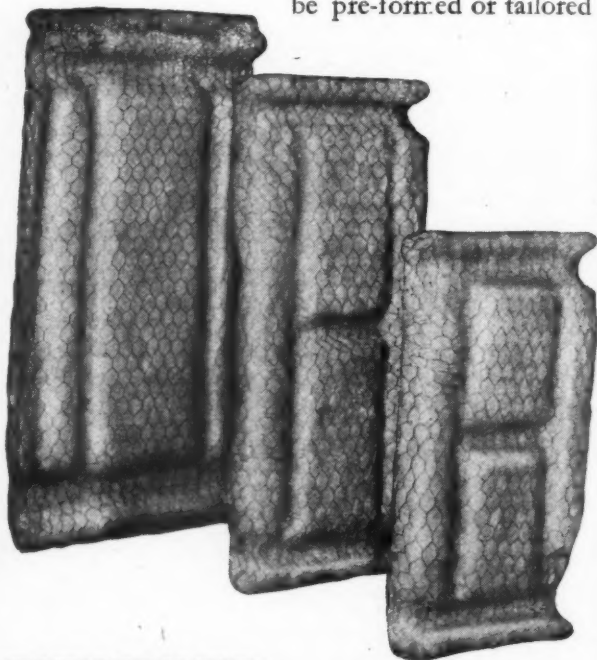
You can't beat a  
**'Belling'**

BELLING & CO. LTD., BRIDGE WORKS, ENFIELD, MIDDX. TELEPHONE: HOWARD 1212  
C.B.C. 522

# VERSIL glass silk

Beyond the normal forms of boiler and pipe insulation, the possibilities of glass silk are multitudinous and cover many fields: to keep within the orbit of thermal insulation we can say that it is applied to locomotives and automobiles, aircraft and caravans, cold stores and bee-hives! VERSIL can be used in divers ways because it can

be pre-formed or tailored



## THE WIDE USES OF VERSIL :

illustration of Ray-rad insulation panels is typical example of pre-formed mattresses which fit snugly behind panel giving high reduction of heat loss.

**LOCOMOTIVE INSULATION :** pre-formed in units and arranged to cover the fire-box and boiler shell in the most economical number of sections.

**THERMAL AND ACOUSTIC INSULATION OF CARAVANS :** as for locomotives, Versil is pre-eminently suitable for caravans because its continuous inter-meshed fibres ensure that there can be no silting or shaking down.

**ENQUIRIES** for literature or other information should be made to  
VERSIL LIMITED, RAYNER MILLS, LIVERSEDGE, YORKS.

**all-purpose  
INSULATION**

CFW



# *A National Figure*

**E**<sub>ROS</sub>—designed by Sir Alfred Gilbert in 1886—unveiled by the Duke of Westminster in 1893—returns to Piccadilly after an absence of  $7\frac{1}{2}$  years. He will see many changes, some which will please him and some which may not. He will undoubtedly be pleased to see the increasing use that is being made of aluminium alloys in our daily lives. This however will not surprise him for he has for 60 years focussed attention on aluminium—the metal used in his own construction.



"DURALUMIN" "DURAL"

Registered Trade Marks

JAMES BOOTH AND COMPANY LIMITED, ARGYLE STREET WORKS BIRMINGHAM 7

# The simplest solution

★ What's your problem? Switch gear, conduit, conduit fittings, lighting fittings, cables? Simplex have been providing the right answers for nearly 50 years, and today, despite difficulties of supply, the Simplex Service still covers the whole field of electrical installation and design. Materials are short, of course, and deliveries take longer, but our reputation is built on reliability and good workmanship and the certainty of getting a job well done is cheap at the price of a little patience

## SIMPLEX

CONDUIT, CONDUIT FITTINGS, INDUSTRIAL & STREET LIGHTING EQUIPMENT, SWITCH FITTINGS, SWITCH & DISTRIBUTION GEAR AND 'MERSEY' RUBBER INSULATED CABLES



ELECTRIC COOKERS, WASH BOILERS, WATER HEATERS, FIRES, IRONS, KETTLES, TUBULAR HEATERS, HAND DRYERS, INDUSTRIAL COOKING EQUIPMENT

# is a Simplex solution

SIMPLEX ELECTRIC CO. LTD. OLDBURY, BIRMINGHAM A COMPANY

## KEEP HEAT *INSIDE*

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

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

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

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



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

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

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

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

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

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



# 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.

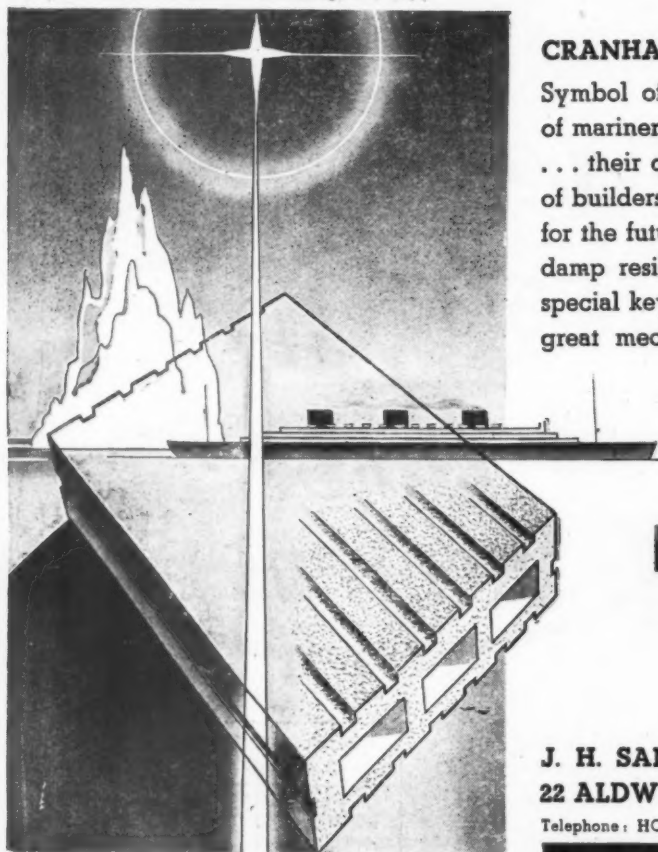
## TIMBER CONTENT in decimals of a standard.

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
IPS50	-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

REGENT 4448



## CRANHAM—A NEW WORD FOR CONSTANCY

Symbol of immutability . . . the North Star . . . friend of mariners since the birth of history. Cranham Blocks . . . their qualities equally constant . . . familiar friends of builders since their introduction . . . and firm friends for the future! And what friendly qualities! Fire and damp resistance . . . heat and sound insulation . . . a special key for plastering . . . lightness combined with great mechanical strength! . . . qualities that never vary . . . once built-in Cranham Blocks remain constant.

Write to-day for full technical details.

**SANKEY'S**

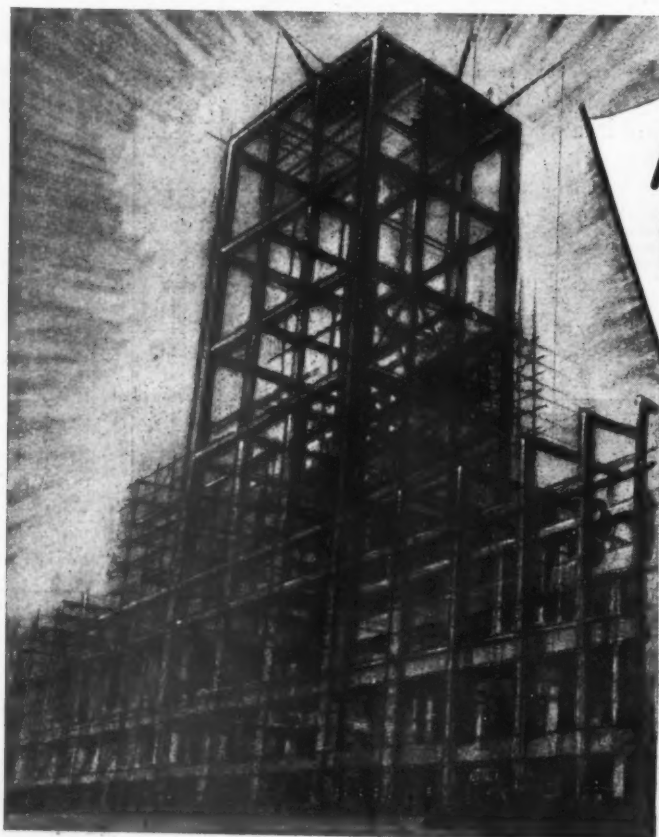
# CRANHAM BLOCKS

J. H. SANKEY & SON LTD.

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

Telephone: HOLborn 6949 (14 lines)

Telegrams: Brickwork, Estrand, London



**No SKELETON**  
in our cupboard!

## STRUCTURAL STEELWORK

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

RAILINGS • GATES • METAL WINDOWS

WELDED VESSELS • RAINWATER GOODS

**THOMAS BLACKBURN & SONS**  
LIMITED  
INCORPORATING RUSSELL EDWARDS & CO. & STEVENSON'S  
PRESTON-LANCS

## Building the Post-war World . . .



*'Railway Sidings'*

## a job for **TAYLOR WOODROW**

CONTRACTS RECENTLY COMPLETED AND IN HAND • PHENIX (Mulberry) PREFABRICATED  
HARBOURS • F.I.D.O. SCHEME FOR AERODROMES • OIL PIPE LINES • UNDERGROUND STORAGE TANKS • POWER  
STATION EXTENSIONS • DEEP SEWERS (Tunnel and Open Cut) • BRIDGE RECONSTRUCTION

**TAYLOR WOODROW CONSTRUCTION LTD.** *Head Office and Works: RUISLIP ROAD, SOUTHALL, MIDDLESEX*  
*Phone: Waxlow 2966. 'Grams: Taywood, Southall. Code: Bentley's Second. London Office: 10 PARK STREET, W.1. 'Phone: Grosvenor 4617*



# ★ Six points for STRUCTURAL INSULATION



- ★ They are a permanent material particularly suited for modern building methods.
- ★ They have exceptionally good heat insulating properties.
- ★ They have a high acoustic absorption value.
- ★ They are supplied in large unit size yet can be handled with speed and low labour cost.
- ★ They can be sawn, cut and chased with ordinary wood-working tools.
- ★ They can be speedily erected with the absolute minimum of waste.

Wood Wool slabs are fire-resistant, rot-proof and vermin-proof; they provide an excellent surface for plaster, rendering and bitumen.

Enquiries should be addressed to the members of the Wood Wool Building Slab Manufacturers' Association whose trade names and addresses are given below.

<b>GYPKLITH . .</b>	Gyproc Products Ltd., Westfield, Upper Singlewell Road, Gravesend. Telephone: Gravesend 4251.
<b>MARLITH . .</b>	The Marley Tile Co., Ltd., London Rd., Riverhead, Sevenoaks, Kent. Telephone: Sevenoaks 2251.
<b>THERMACOUST</b>	The Cementation Co., Ltd., Thermacoust Dept., 39, Victoria Street, S.W.1. Telephone: Abbey 5726.
<b>LITHALUN . .</b>	Lithalun Products Ltd., Pontalun, Bridgend, Glam. Telephone: Bridgend 213.

W.W.28

**VULCANITE**  
FLAT ROOFING

*for*  
**Terrace Roofs  
and Verandahs**

Impervious to all weather conditions, it can be laid either on boarded or concrete roofs, and is ideal when finished with a tile, concrete or other suitable traffic surface. Provides a first class fire-resisting roof, together with excellent wearing qualities, eliminating maintenance charges.

Diagram labels: 1/2" BITU - MAC FINISH, VULCANITE COMPOUND, SHEETING, VULCANITE COMPOUND, SHEETING, VULCANITE COMPOUND, WOOD OR CONCRETE.

*Original patentees of Bituminous built up roofs*  
**VULCANITE**  
TRIDENT WORKS · WICAN  
GLASGOW · LONDON · BELFAST







# Offkwik

THE WORLD'S LEADING  
PAINT REMOVER

PAINT REMOVERS LTD

*24, Ryder St. St. James, London. S.W.1. Abbey 4/61 (5 lines)*



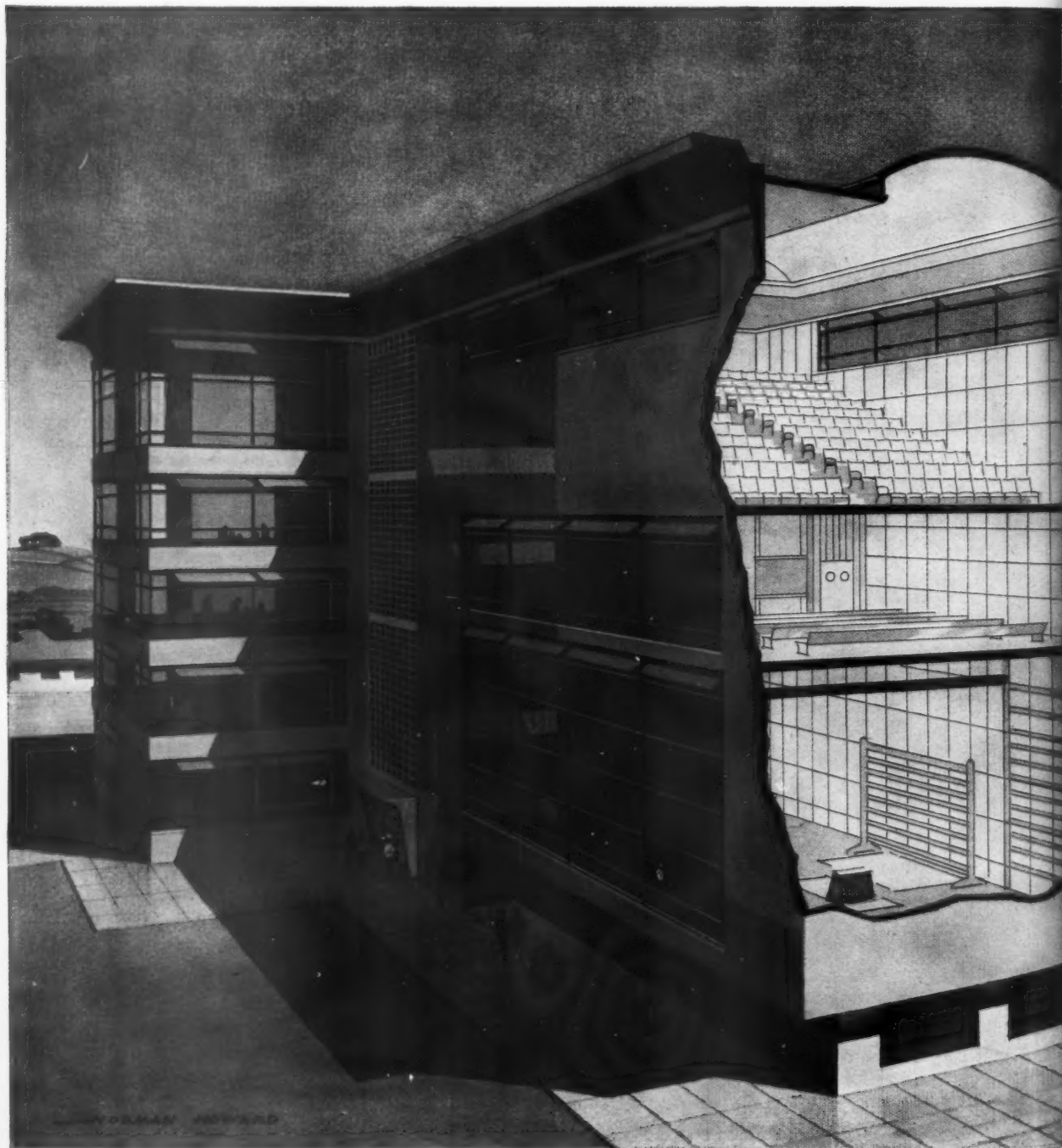
## BRIGHTER OUTLOOK —for Youth

In designing the technical school of tomorrow the architect will do more than provide a building. He will introduce sunlight and air and beauty—as closely related to the development of young minds and bodies as any text book. When planning to expand the size of windows he will find a wide range of Pilkington glasses are available to help him in this important task. In his planning of houses and flats, hospitals and public buildings, communal centres and

factories, his needs for glass, whether clear, coloured, translucent, opaque, fire-retarding, or in glass block form, will be amply met by Pilkington Brothers Limited. *Architects and architectural students are invited to consult our Technical Department at St. Helens, or our London Office, regarding the properties and uses of glass in building.*

Pilkington Brothers Limited, St. Helens, Lancs. London Office & Showrooms: 63, Piccadilly, W.1. Phone: Regent 4281.

**PILKINGTON BROTHERS LTD.**





rans-  
ll be  
and  
nical  
ding

don  
281.

D.



In comm  
war need  
pages.  
get a copy

D  
AU

Titles of  
papers  
by the

BRISTOL  
At  
DSIR.)

CAMBRIDGE

Univers  
Boulton  
Secretar  
be giv  
Fungi;  
Sawmill  
Reece,  
Mr. St  
(Spons

Buildi  
DSIR.)

CARDIFF  
(S

D ABER

stadt.  
with  
Eminen  
countri  
Techni

EDINBURGH  
A  
the R  
(Spons

HULL

Georg  
Mortin  
(Spons  
shire  
ment,

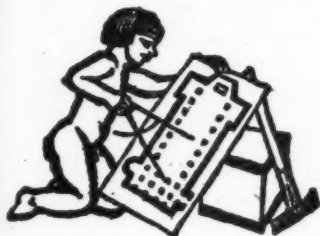
HYDRAULIC

LONDON  
1, C  
(Spons

Win  
Heal's  
Cour  
Water  
with  
daily  
Elev  
Cong

Sou  
Scho

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



## DIARY FOR JULY AUGUST AND SEPTEMBER

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.) Oct. 20-Nov. 1

**CAMBRIDGE.** *Timber Technology Instructor's Course.* At Cambridge University, under the direction of E. H. B. Boulton, Technical Director and Education Secretary of TDA. Among the lectures to be given are: Dr. W. P. K. Findlay, *Fungi*; R. Goat, *Mensuration*; P. Harris, *Sawmilling*; E. Pinto, *Adhesives*; P. O. Reece, *Mechanical Properties of Timber*; Mr. Stevens, *New Aspects of Seasoning*. (Sponsor, TDA.) Aug. 15-23

*Building Science Exhibition.* (Sponsor, DSIR.) Aug. 18-30

**CARDIFF.** *Building Science Exhibition.* (Sponsor, DSIR.) SEPT. 29-OCT. 11

**DARMSTADT.** *International Congress for Engineering Education at Darmstadt.* An International Meeting, dealing with problems of technical education. Eminent scientists and engineers from all countries will present papers. (Sponsor, Technische Hochschule, Darmstadt.) JULY 31-AUG. 9

**EDINBURGH.** *Enterprise Scotland 1947.* An exhibition of industrial design. At the Royal Scottish Museum, Edinburgh. (Sponsors, Scottish Committee of the CID.) AUGUST 25-SEPT. 30

**HULL.** *Georgian Exhibition.* Measured drawings and pictures of local Georgian architectural works. At the Mortimer Gallery, Kingston-upon-Hull. (Sponsors, Georgian Society for East Yorkshire in conjunction with Museums Department, Hull.) UNTIL JULY 31

**HYDE.** *Ideas on Design in the Home Exhibition.* At Bayley Hall. (Sponsor, Arts Council.) UNTIL AUG. 2

**LONDON.** *Infra-Red Heating by Gas Exhibition.* At Gas Industry House, 1, Grosvenor Place, London, S.W.1. (Sponsor, British Gas Council.) UNTIL JULY 31

*Windmills.* Exhibition of photographs at Heal's Mansard Gallery, 196, Tottenham Court Road, W.1. (Sponsors, Windmill and Watermill Section of SPAB in collaboration with Heal and Son, Ltd.) 9 a.m. to 5.30 p.m. daily, Saturday 1 p.m. UNTIL JULY 26

*Eleventh Public Works Roads and Transport Congress.* At Olympia, London. UNTIL JULY 25

*South-East Essex Technical College and School of Art.* Exhibition of students' architectural drawings. At the Building Centre, 9, Conduit Street, W.1. UNTIL JULY 30

*AA School of Architecture Exhibition of Students' Work.* At 34, Bedford Square, W.C.1. (Sponsor, AA.) 10 a.m. to 6 p.m. UNTIL JULY 31

*Royal Society of British Artists Summer Exhibition.* At Suffolk Street Galleries, Pall Mall, S.W.1. (Sponsors, RSBA.) UNTIL AUG. 7

*Australian Textile Design.* Exhibition of furnishing fabrics with Australian aboriginal, plant, flower, and animal motifs. At Australia House, Strand, W.C.2. UNTIL AUG. 9

*London Master Builders' Association Luncheon.* At the Connaught Rooms. Guest of honour, C. W. Key, Minister of Works. (Sponsor, LMBA.) JULY 24

**MAIDSTONE.** J. C. Browne. *Paint.* At the Maidstone Technical Institute. (Sponsor, South-Eastern Society of Architects, Tunbridge Wells Chapter, Maidstone Group.) 7 p.m. AUG. 20

**MANCHESTER.** *Builders' Plant, Equipment, Tools and New Materials.* Exhibition at the Government Building Trade Training Centre, Denton, Manchester. The aim of the exhibition is to bring to the notice of all engaged in the industry, the small plant, equipment, etc., which has been designed to help speed up production and also to help in meeting the universal shortage of labour. (Sponsor, The Building and Civil Engineering Joint Committee under the chairmanship of the Regional Director, Ministry of Works.) UNTIL JULY 26

**OXFORD.** *Building Science Exhibition.* At the Electricity Showrooms. (Sponsor, DSIR.) JULY 28-AUG. 9

**SOUTHAMPTON.** *Building Science Exhibition.* At the Art Gallery, Civic Centre. (Sponsor, DSIR.) SEPT. 6-20

**SURBITON.** *Art in England. Summer School.* At Hillcroft College, South Bank, Surbiton, Surrey. JULY 26-AUG. 9

**THE HAGUE.** *Fuel Economy Conference.* Particulars from the British National Committee World Power Conference, 201-2, Grand Buildings, Trafalgar Square, London, W.C.2. SEPT. 2-9

**WESTON-SUPER-MARE.** *Exhibition of Plans and Models for the Redevelopment of the Borough by Clough Williams-Ellis and Lionel Brett.* Official opening by Lewis Silkin, M.P., August 13, 3 p.m. AUG. 13-31

## NEWS

THURSDAY, July 24, 1947  
No. 2737 Vol. 106

News .. .. .	69
School at Ruislip .. .	70
This Week's Leading Article .. .	71
Astragal's Notes and Topics .. .	72
Letters from Readers .. .	73
Car Showrooms by Hugh Casson .. .	74
School at Ruislip, Middlesex. Designed by Howard V. Lobb .. .	75
Societies and Institutions .. .	79
The Year's work of the AA Students .. .. .	81
Technical Section:	
Information Centre .. .. .	84
Housing, Materials and Labour By Ian Bowen .. .. .	85
The Industry. By Philip Scholberg .. .. .	87

*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.*

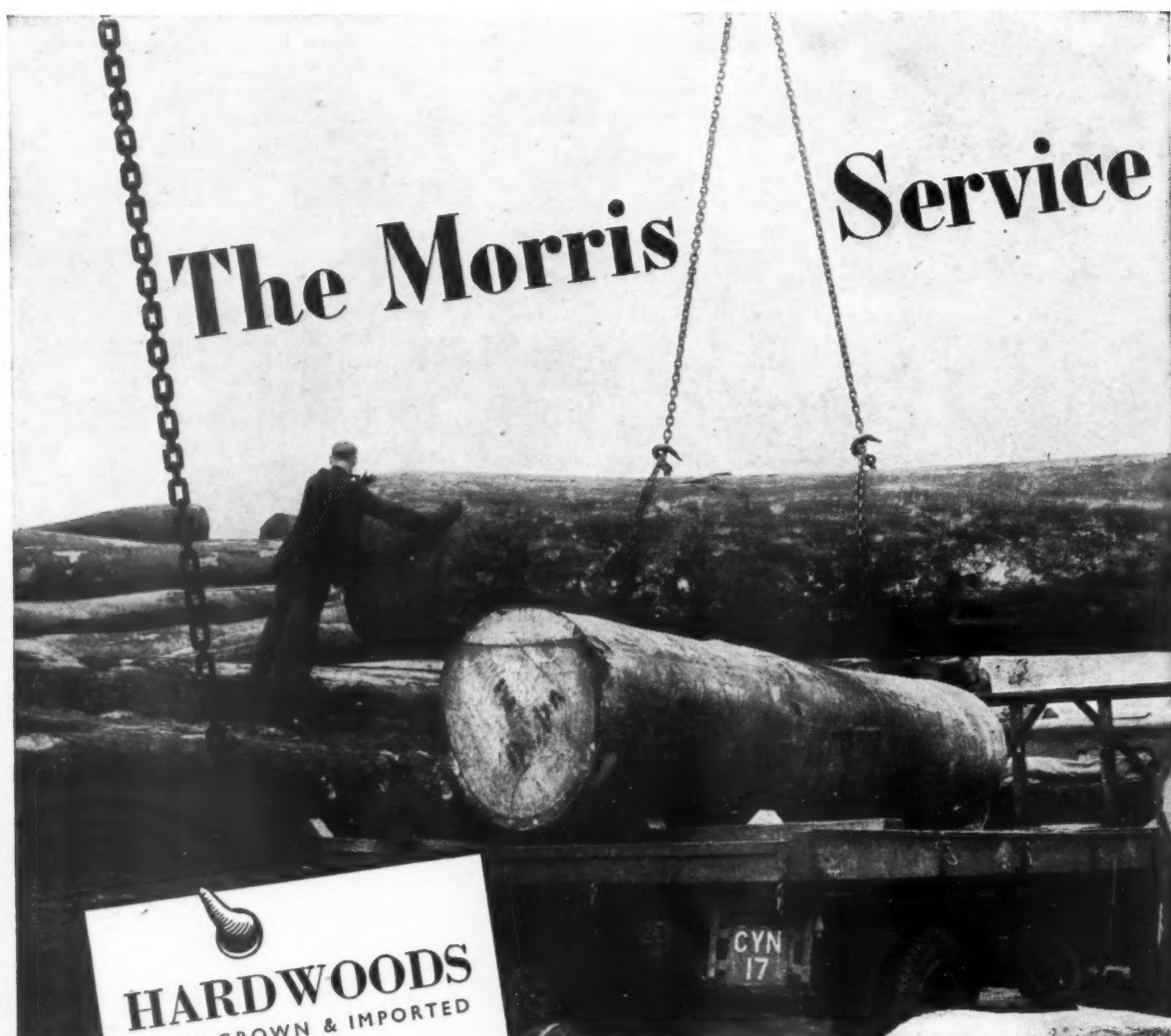
★ means spare a second for this, it will probably be worth it.

★★ 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 Court of Common Council at a special meeting at Guildhall has APPROVED UNANIMOUSLY THE REPORT by Dr. C. H. Holden and Professor W. G. Holford recommending the rebuilding of the bombed areas of the City of London.* The Council also agreed to forward the report to Mr. Lewis Silkin, Minister of Town and Country Planning, for his approval. (See A.J., May 22 issue.)

★★  
*The RIBA has sent a letter to the COVENTRY CATHEDRAL Committee asking them not to accept the Harlech Commission's recommendation that the proposed competition for the new cathedral should require the design to be in the English Gothic tradition.* The letter states that such a regulation is too restrictive and that the architect should be allowed the free use of his imagination in solving any architectural problem.



**HARDWOODS**  
HOME GROWN & IMPORTED  
**Decorative Veneers**

**Floorings**  
**Wood Bends**  
**Log Sawing**  
**Moulding**  
**Kiln Drying**

**M·A·MORRIS·LTD**

**RAVENSDALE WHARF  
AND SAWMILLS**  
STAMFORD HILL, LONDON, N. 16  
Telephone: Stamford Hill 6611 (6 lines)



**"MORRIS OF STAMFORD HILL" FAMOUS FOR FINE WOODS**



## From AN ARCHITECT'S Commonplace Book

**TOWN PLAN FIRST.** [From Patrick Geddes in India, by Lewis Mumford.] The general level of civic thought and town planning knowledge amongst governing authorities and municipal bodies is well illustrated by a passage from a letter I have recently received from a distinguished civil servant, an engineer in charge of one of the most historic and beautiful cities of India. He had done me the honour of consulting me about its most famous monument. In acknowledging my report he regretfully explains that "as both water and drainage schemes are in contemplation, the city must deny itself the luxury of town planning." The absence of comprehension that water and drainage schemes are part of a town plan must be in part blamed upon town planners themselves. Yet, had my correspondent reflected that the fundamental concerns of town planning are not the care of monuments but rather the improvements of communications, the sanitation of congested or unsatisfactory areas and the laying-out of town extensions, it would have been evident to him that planning should precede and facilitate both water supply and drainage schemes. Further, it should be clear that the existence of a plan would enable considerable economies to be made in the extension of water and drainage to future suburbs. The converse is not, however, the case. Engineering should not precede town planning, otherwise a network of needless water mains and drains has to be laid along the lines of existing streets and lanes. This means that a great deal of capital is sunk unnecessarily and it becomes doubly difficult and costly to replan the area with shorter and more economical runs.

### Announcement of the Results of THE THREE PRIZE COMPETITIONS FOR 1946 has been made by the Council of the Royal Sanitary Institute.

**Henry Saxon Snell Prize.** The subject was "Suggested Improvements in the Construction or Adaptation of Sanitary Appliances." The prize was withheld because no essay was of sufficient merit. **John Edward Worth Prize.** For essays on practical improvements of appliances or inventions used in or about dwelling houses. The prize was withheld because neither of the two entries were of sufficient merit. **John S. Owens Prize.** The subject was either atmospheric pollution, or the ventilation of dwellings and its effect upon human health. The prize of £25 was awarded to Mr. J. B. Atherton, A.M.I.MECH.E., of Chorlton-cum-Hardy.

### lished in annual instalments of four over a period of three years.

The proposed National Parks are: **First Instalment:** Lake District (892 square miles); North Wales (870 square miles); Peak District (572 square miles); Dartmoor (392 square miles). **Second Instalment:** Yorkshire Dales (635 square miles); Pembrokeshire Coast (229 square miles); Exmoor (318 square miles); South Downs (275 square miles). **Third Instalment:** Roman Wall (193 square miles); North Yorkshire moors (614 square miles); Brecon Beacons and Black Mountains (511 square miles); the Broads (181 square miles). The order in which these areas are arranged does not imply any attempted assessment of their relative beauty and recreational value, but takes account of geographical distribution and the need for protection. Cornwall is omitted from the list because of serious administrative difficulties in the way of its treatment as a

National Park. It is, however, listed by the Committee as a Conservation Area calling for special measures to preserve its exceptional beauty and interest. Camping and caravanning would be encouraged in National Parks, with due provision for control, but permanent caravans and unsightly shacks would be discouraged or removed. In addition to twelve National Parks the Committee selects fifty-two areas of outstanding landscape beauty, scientific interest and recreational value, which should be designated by the Minister of Town and Country Planning as Conservation Areas and be specially guarded from disfiguring developments by the local authorities and the National Parks Commission. For the co-ordinated planning of the coast of England and Wales a Coastal Planning Advisory Committee is proposed. The Report advocates a coastal path by cliff, bay, dune and estuary round the whole of England and Wales.

★★

### Arrangements have been made to commemorate the CENTENARY YEAR OF THE AA on December 17, 18 and 19.

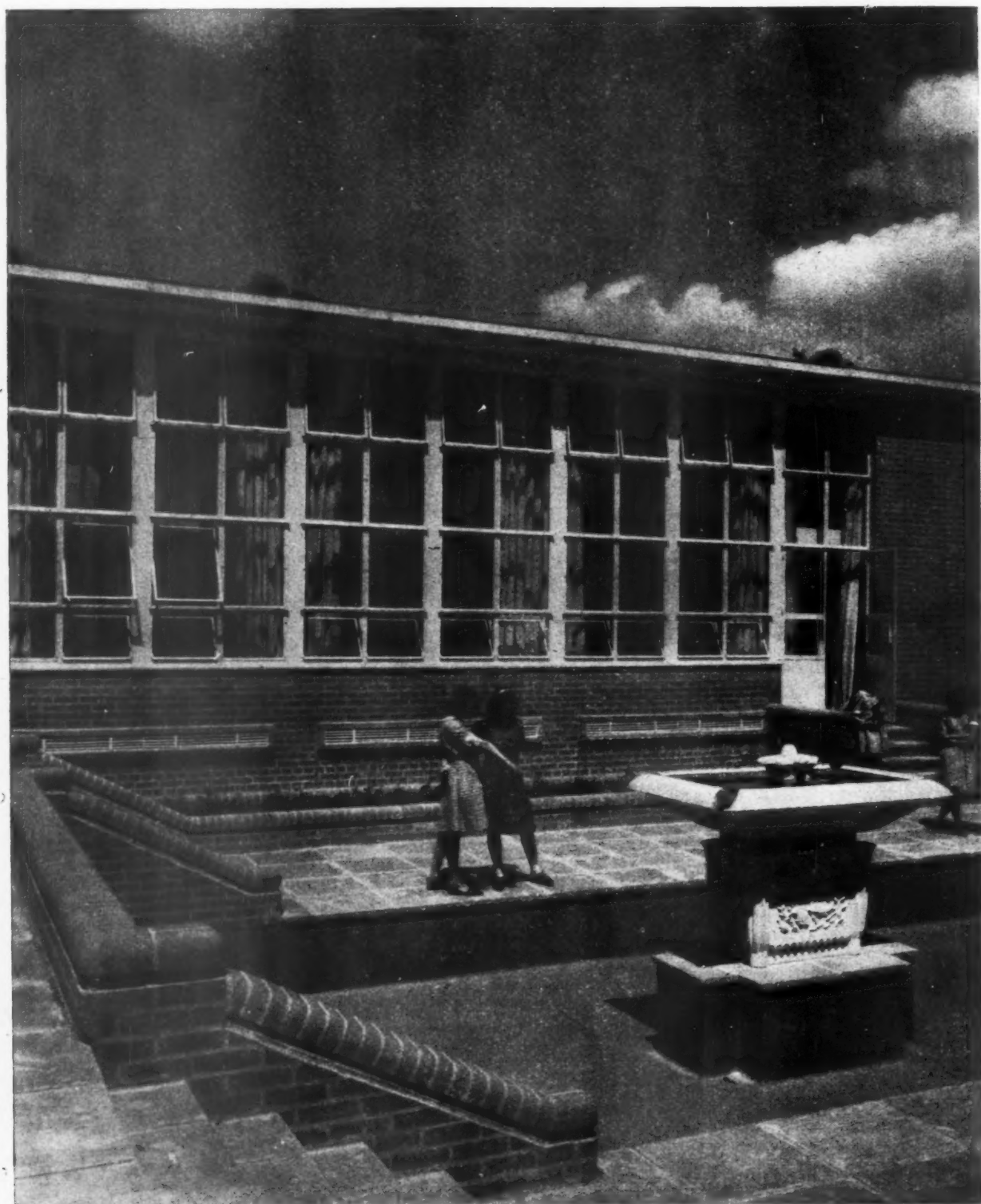
Delegates have been invited from representative architectural societies and schools in the Dominions, Europe and America. Although it is not proposed to hold a formal conference, members and delegates will have the opportunity to meet together to discuss matters of professional and educational importance, and to visit places of architectural and technical interest. The celebrations will include:—A meeting for formal addresses and the opening of the exhibition illustrating the work of the founders and distinguished members of the AA throughout the last one hundred years; a reception and dance following a special performance of the students' pantomime; a commemoration service at St. George's, Bloomsbury; a centenary dinner to be held at the Savoy Hotel; a luncheon and dance to be organized by the students.

★★

In the report of the National Parks Committee (England and Wales) published last week it is recommended that twelve NATIONAL PARKS, covering 5,682 square miles, be estab-



At the AA School of Architecture prize giving and exhibition of work. From left to right: H. J. W. Alexander, Secretary AA; Robert Atkinson who gave an address and distributed the prizes; Howard Robertson, President AA; Gordon Brown, Principal AA School of Architecture; and M. Ascoli, Chairman of the Students' Committee. Examples of the students' work are shown on pages 81 to 83.



## School at Ruislip

Formal pool in the court between the administration and dining-room blocks of the new school at Ruislip designed by Howard V. Lobb. The fountain was designed by Geoffrey H. Deeley and modelled in reconstructed Portland stone. The school accommodates 500 senior children and is the second permanent school to be built in Middlesex since the war. Building work was completed

in a little over six months, despite adverse weather conditions. Speed was achieved by the standardization of units and by the use where possible of materials from ex-Government stock. Windows opening the whole length of each classroom lead to paved spaces for open-air teaching. Further photographs and a plan of the school are reproduced on pages 75-78.

*Scotland's 1947-48 programme of HOUSES FOR NEW FARM WORKERS is to be repeated next year with a larger programme of 1,200 non-traditional houses intended for completion in 1949.*

The 1947-48 programme consists of 600 steel houses—400 Weir houses and 200 Atholl houses—which have been allocated to County Councils in the West and South-West of Scotland primarily to assist them to provide houses for additional workers on dairy farms. These houses are to be erected mainly in groups of eight to serve several farms on sites which may form part of existing villages or form new hamlets or "clachans."

★

*An appeal for information of the whereabouts of a set of four early photographs of the TOWER OF WINCHESTER COLLEGE CHAPEL has been made by Mr. Herbert Chitty, Keeper of the College Archives.*

The photographs were taken in 1862 when the tower was rebuilt. A small number of prints were supplied at the time to the committee in charge of the work, but no set was placed in the college archives. For historical reasons, says Mr. Chitty, it is desirable that these photographs should be preserved.

*On behalf of Mr. Bevan, Mr. Harold Wilson, Secretary for Overseas Trade, has invited the Soviet Government's Housing Ministries to send a MISSION TO BRITAIN.*

It was thought new developments in construction would be of especial interest. In particular the Government would invite the attention of such a mission to housing construction in concrete.



*Miss Deborah Abercrombie, daughter of Professor Sir Patrick Abercrombie; and Michael A. J. Farey, architect: married at Christchurch, Mayfair, on July 10.*

## RESEARCH FOR SMALL FIRMS

THE President of the Board of Trade recently opened a new research station organised on commercial lines.

This new centre of research, known as the Fulmer Research Institute, is the only organisation of its kind in this country. The type of work to be carried out will, for the time being, be confined to metallurgical research and therefore has only an indirect interest to the building industry, but the idea behind the organization seems to us to be so good that it should be carefully examined to see whether something of the same kind could be of value to building firms and manufacturers of building plant and materials.

The basis of the new institute is that there are many small firms where good ideas are thought up, but where, because of the lack of adequate research facilities, these ideas can never be properly developed. Modern research tends to demand a highly complicated and costly set of equipment and all research, if it is to be really worth while, must be carried out under the direction of first class personnel. Neither the equipment nor the right kind of staff can be provided economically by a single small firm working on its own, and indeed, very seldom by any but the biggest concerns.

In America this problem has been largely solved in such institutions as the Batelle and the Mellon and in many of the Universities where research is frequently carried on under the sponsorship of individual commercial interests. In England the Universities remain concerned primarily with fundamental research, a policy with which we are in full accord as being essential to our long term progress. Apart from this University work we also have the very valuable addition of Government research such as is done at the various Stations of the Department of Scientific and Industrial Research. There are also the Trade Research Establishments allied to the DSIR and partially subsidised by government funds. A great deal of assistance is given to industry in this way, perhaps far more than is generally recognised, but still it is not an adequate substitute for individual research by the firms themselves. The policy of the new Fulmer Research Institute is to accept commissions from any firm provided there seems a reasonable chance of the Institute being capable of carrying out a useful programme of investigation. Two similar projects for different firms will not be accepted without the prior agreement of both of the sponsors and in all cases the results of work will remain the property of the firm sponsoring it although it is hoped that in many cases it may be possible to obtain agreement to publication of results likely to be of general benefit. In addition there is an attractive idea whereby staff from the sponsor firm can work at the Institute and thus be in a position to go back to the firm fully equipped to put the results of the research into practical effect with a minimum of delay and maximum result.

From time to time statements appear in the Press that the Building Industry is poorly organised. Is this one direction



in which things could be improved without any painful operation or upheaval?

Incidentally we noticed with pleasure that Sir Stafford Cripps made a special point in his opening speech of emphasising the importance of the quiet and beautiful surroundings of the new Institute. It is at present housed mainly in a converted country mansion with large and attractive gardens and grounds. It is to be hoped that Sir Stafford's words on this aspect of research will be noted by those responsible for subsequent "improvement." Research requirements are apt to be put forward by people having an almost fanatical enthusiasm for their immediate objective, and we suspect that someone in authority will have to take a very firm line to prevent a series of "temporary" structures appearing as the value of the Institute's work becomes appreciated and its volume increases. We feel that certain Government Research centres might also take note of Sir Stafford's remarks about the value of good surroundings upon the work done in research organisations.



*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

## REGENT STREET'S WEEK

Regent Street, London, has become more than usually self-conscious. It organised a Week, a Regent Street, Week, *Regent Street on Parade*, as the banners from the electric light standards proclaimed. Some of the streamers continued with words of topical uplift, *Exports Must Pay for Imports*, but it is hard to believe that the Street has grown a

national conscience. Streets are inclined to be even more parochial than parishes, and behind this Crippsian façade one caught sight of the hard economic truth that even the rich have to live. Twenty-five years ago the Commissioners of Crown Lands collected not much more than £50,000 a year from ground rents in Regent Street. Now Regent Street has to pay half a million. Regent Street, like all of us, must work or want.

For the middle-aged Regent Street is one of those places from which nostalgia oozes up even from the wood-block pavings. Those who never saw the stucco of Nash in the years before the first war may regard the present array of stony Portland faces as nothing but another experiment in uniform street architecture that didn't quite come off. But time softens all wounds. Regent Street Week was adorned with the best combined display of window-boxes that London has seen since the war—charming lines of colour from the Quadrant to Oxford Circus. At least, these have no suggestion of mourning about them. On the contrary, they carry the spirit of a returned Eros northwards—no more than a quarter of a mile northwards, but, heavens, a quarter of a mile is something.

The shopkeepers of Regent Street are to be congratulated on their enterprise.

They can afford to look smugly down on Oxford Street, which has not yet succeeded even in wiping up its plague spots. They can, at last, glance at the new coat of paint on the Berkeley, in Piccadilly, with no inward unease. And as for Bond Street—but did they perhaps crow too soon over Bond Street? Did not Bond Street scoop the news on the second day of Regent Street's Week by arranging for a cloud of bees to swarm on a Bond Street lamp-post, and that in time to catch the photographers from the evening papers?

## ART AND THE NARROW BOAT

When Miss Barbara Jones produced her charming drawings of the traditional decoration applied to canal barges\* I do not suppose she expected to start another "artistic" fashion, especially as the decorators of teapots, water cans and other pieces of equipment will seldom supply people who are not genuine bargees. But at least someone will, for I have seen quite a number of teapots and bowls in one or two snob shops lately and at prices which seem quite a lot more than the original painter would have asked. I can only hope that the fashion will die soon, before the painters have time to become self-conscious and start putting the art in.

## CIAM

In a world that seems willing to remain permanently divided into hostile camps, every instance of genuine international co-operation is cheering. One such instance is the reconstitution of CIAM, which stands (for those who are in such haste to open their JOURNAL that they don't look on the cover) for Congrès Internationaux d'Architecture Moderne. The war brought its activities almost to a standstill, but the first post-war congress has now, I learn, been arranged, following a recent delegates' meeting at Zurich.

What is more, the congress is to take place—for the first time—in England; the five congresses that were held between the founding of CIAM in 1928 and the war were held at various places

\* *Architectural Review*, Dec. 1946.



on the Continent. The MARS Group (the English branch of CIAM) is now at work making the arrangements to entertain a distinguished body of delegates from at least a dozen countries at Bridgewater, in Somerset, next September, the Arts Club there having been made available for the congress by the Arts Council.

Specially good news about the strong American delegation expected is that Gropius—one of the founders of CIAM—is planning to come himself. It will be his first visit to England since he migrated to Harvard just before the war.

#### ANTI-RAPE GROUP

A new battle-cry for the Georgian Group was suggested by Sir Philip Magnus (of MOTCP), speaking at their Annual General Meeting held in the elegant twilight of the Royal Institution. In proposing a vote of thanks to the French Ambassador for his fascinating survey of French methods of architectural preservation, he recalled that during the war he had been a liaison officer with the French Army Command in Rome. It was his [almost] daily duty to call at the Farnese Palace with complaints of the alleged raping of Italian girls by French coloured troops. Daily he was greeted by the French commandant with the cheerful cry, "Ah, mon cher! Encore des violations!" So far as violation is concerned, continued Sir Philip, the Germans have nothing on the Vandals working in the architectural field, and the Group's annual report, received later with justifiable pride by the Chairman, Lord Rosse, contains a splendid record of violations prevented or postponed by the vigilance of members. Victims saved include palaces, cottages, churches, mills, bridges and market crosses, but more members are needed to continue the work, which is now organised from the Group's new headquarters at 27, Grosvenor Gardens.

#### WHITE HORSE WESSEL SONG

To the authorities, it, seems, White Horses are merely white elephants. Scarcely has Uffington been rescued

from the Post Office engineers when we read of consent in principle being given by MOTCP to the building of a cement works near the White Horse at Westbury, Wilts, a site which, it is said, is already threatened from the rear by a bombing range. Once more we shall be told, I suppose, that the English people, given the choice between cement or a view of the downs, will choose cement, and that they can see all the White Horses they want in the whiskey ads.

#### X-RAY THE CITY

I always suspect the philosophy of an author who resorts to capital letters in order to make his message clear, but in the case of *X-ray the City*, by Dr. Ernest Fooks, the typography of the book is so bad that one can forgive the author an occasional shout of this kind in his struggle with the printer.

Dr. Fooks, a Czech architect and town-planner, now practising in Australia, advocates a more scientific approach to the study of urban growth, particularly as regards density of population. He deplores the world-wide confusion of density calculations—net, gross, overall, etc., etc., which makes nonsense of any attempt to judge the living conditions of different cities on a comparative basis. "There are three kinds of lies: lies, damned lies and statistics (author unidentified)."

Dr. Fooks' solution is the Distance Grid, consisting of a series of concentric circles a mile apart and divided into eight sectors. This is superimposed on a city plan and densities calculated for the sectors of each mile-wide ring. If applied universally, they would, he claims, give a basis of comparative analysis free of the meaningless irregularity of administrative boundaries and capable of adaptation to other aspects of urban research, such as deficiency of open space, distribution of industry, and so on. Something like this is needed, and the International Federation for Housing and Town Planning might examine the idea; an obvious snag is that many towns are not circular in structure.

ASTRAGAL



## LETTERS

*Charles H. Frobisher,*  
L.Arch. B.S.S., M.A.B. Tech.

*John Smith, Ex-Major R.E.*

### Registration

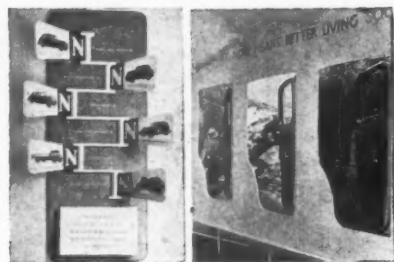
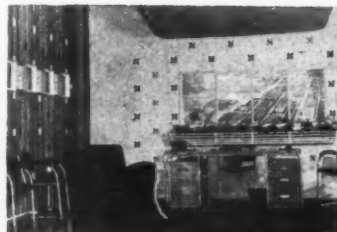
SIR,—Since about twelve months ago when the majority of men who had served throughout the war in the armed forces found themselves back in civilian life, an appreciable amount of correspondence has taken place in various technical journals concerning the question of professional qualification upon the part of those who were members of the architectural and surveying fraternity prior to the outbreak of hostilities.

All that can be ascertained from a representative cross-section of letters appertaining to Architectural Registration in particular, is that there are two distinct schools of thought. On the one side we have Registered Architects, with or without qualifications, castigating these ex-Servicemen with the apparent audacity to question their omnipotence in the field of technical achievement. On the other side we have partially or totally unqualified, but generally well experienced, veterans chafing at the barrier of registration in their so far particularly unsuccessful endeavours to make up for lost time.

It has been suggested that the awarding of registration was in the first instance a more or less regrettable necessity, carried out with the sole object of avoiding hardship to those practising in some way or other as architects at the time. I find it difficult to appreciate the apparent hardships of those who were in practice towards the end of 1938 in the light of an understanding that does not also embrace the almost equally tragic circumstances under which so many ex-Service assistants find themselves today, but there is much to be said for the fact that an influx of all and sundry possessing the meagre enough qualification of having wielded a drawing-pen for a certain length of time, was little short of lamentable.

The present Register itself commands little respect if membership of this particularly

## CAR SHOWROOMS BY HUGH CASSON



Motor car showrooms at Nuffield House, Piccadilly, designed by Hugh Casson. The office corner is finished in grey, white, and red, and the portraits are the heads of five departments at the M.G. works. There is an illuminated photograph behind the desk showing a section of the Cowley works. The screen displaying the car is painted midnight blue, with lines of green cord, and the xylonite panels are fixed to blue-prints of the car engine mounted on a shaped panel of expanded aluminium sheeting. The back of the screen is lime green and white, with openings cut out, behind which are illuminated photographs of foreign scenes. The openings are fitted with car doors and the display symbolizes export. In the window there are showcases containing revolving drums, for the display of photographs.

Top left, the office corner. Bottom, left, a design with a crankshaft motif and cut out photographs of cars; and the back of the main screen showing the opening car doors. Top right, from top to bottom, the main screen forming the background for the car; the office corner; and the showcases in the window.

closed-shop depends in more than one instance upon an ability to part with an annual subscription in return for the privilege of being able to enjoy a self-assumed status. One has only to take into consideration for example, the number of people permitted to designate themselves architects, solely by virtue of having been able to register, irrespective of whether or not they had any recognised architectural training. It has even been suggested that the award of registered membership to those who had completed some seven years' practical experience prior to 1938, was merely an easy way of buying up opposition to the Act itself.

The main bone of contention seems to be that if the ARCUK can exchange registration for seven years' practice prior to a particular date, then there should be no reason why the same status should not be awarded for any period of seven years and in the case of the ex-Serviceman in particular, for any total period of seven years regardless of any break in professional activities as a result of military service.

Unless I am very much mistaken, the ARCUK are quite aware of the fact that this controversy is one of comparatively long standing, and one does not need a great deal of imagination to visualize the problem from their point of view. They feel, no doubt, that service in the armed forces does not in itself further professional knowledge or skill, and that each individual experience of frustrated ambition should not influence in any way the Register's conditions of enrolment.

Afford the Council the benefit of the doubt, therefore. Assume that in apparently not acknowledging any other period of seven years as equivalent to those immediately prior to August, 1938, in terms of professional experience, and that in evidently insisting upon ex-Servicemen sitting for examinations regardless of concessions whether tangible or otherwise, that they are at least sincere in their reasons for doing so and

that they have in actual fact convinced themselves completely as to the correctness of their attitude. In the name of sanity then, why should "architects" still as unacquainted with an examination test-paper as they were almost ten years since remain on the register?

If examinations are a criterion of professional integrity and technical skill, then their by no means sympathetic application should embrace each member of the profession concerned; not just those with the dubious distinction of having been born a little too late. An immediate reaction upon my part is to turn back the pages of current history as it were, to a theoretically existent Golden Age of Architecture lasting from 1931 until 1938 and to ask myself whether or not it might have been more astute upon my father's part to have urged me to follow instead of draughtsmanship, the much more lucrative craft of brick-laying.

Those who were fortunate enough to have remained at home during recent years secure in the knowledge that they had managed to squeeze through the doors of registration before they closed, never to open again unless at the sight of a diploma not particularly useful without professional skill also, should bear in mind the fact that despite the laudable enough efforts of the Army Educational Corps in particular towards the end of the war, there was little to choose between the various theatres of operations when it came down to passing round the tattered remnants of some correspondence course; and even if there was a black-out, the lights were usually bright enough indoors, and not every town was bombed each night either.

Dalton-in-Furness CHARLES H. FROBISHER,

Sir.—I was very pleased to see some replies to my points about registration for ex-members of the Forces, and quite agree with many of their views. But wishing further to qualify my argument, I uphold that some

extremely good-class architectural and engineering building work was carried out by RE Works Services during the war. I can give a list of places worth visiting if these correspondents are interested. Believe me, from what I saw of most architectural work carried out in this country before the war, it was of a much lower standard and often the work of eminent and well-known firms and individual architects.

Furthermore, an architect either potentially an A.R.I.B.A. or M.INST.R.A. who had the experience of controlling 200-400 men on building work must have gained a vast experience of many things, both what was right as well as wrong, which those qualified would not gain in 20 years in the normal walks of architectural life.

Perhaps I may gain support from those who disagreed with me when I bring the following situation to the front: Many young architects not yet qualified, but working towards that goal, are at the moment employed by local authorities as architectural assistants; their chief is the surveyor, probably a M.I.M.C.Y.E. This gentleman is carrying out considerable architectural work, and yet is not, and never will be, a Registered Architect. I have had this experience, and the kicks and slurs thrown at the architect were extraordinary. Surely this state of affairs is all wrong.

I consider, a genuine young student architect, intending to become qualified, should be given some recognition that he is an architect, being unable to call himself such under the rules of the ARCUK, and the surveyor of the local authority should be prevented from carrying out architectural work until he employs a fully fledged A.R.I.B.A., M.INST.R.A., or, say, a student or PROB.M.INST.R.A. This latter person being a student of four years' standing, would be allowed to hold it for four years and, if at the end of that time had not qualified or showed the inclination to, should forfeit it.

Newcastle

J. SMITH

Right, the  
looking  
cloakroom,  
om, vi  
west s  
classroom

S  
GENERAL  
built on  
Works  
Aviation  
taken over  
Aviation  
Northhol  
dation in  
A school

Right, the playground looking towards the cloakroom block. Bottom, view from the west showing the classroom blocks.



# SCHOOL

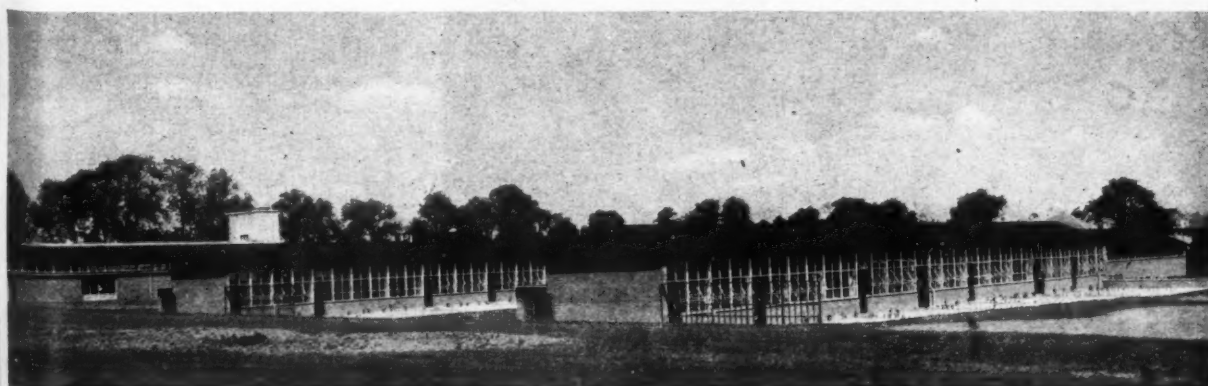
AT RUISLIP, MIDDLESEX

DESIGNED BY HOWARD V. LOBB

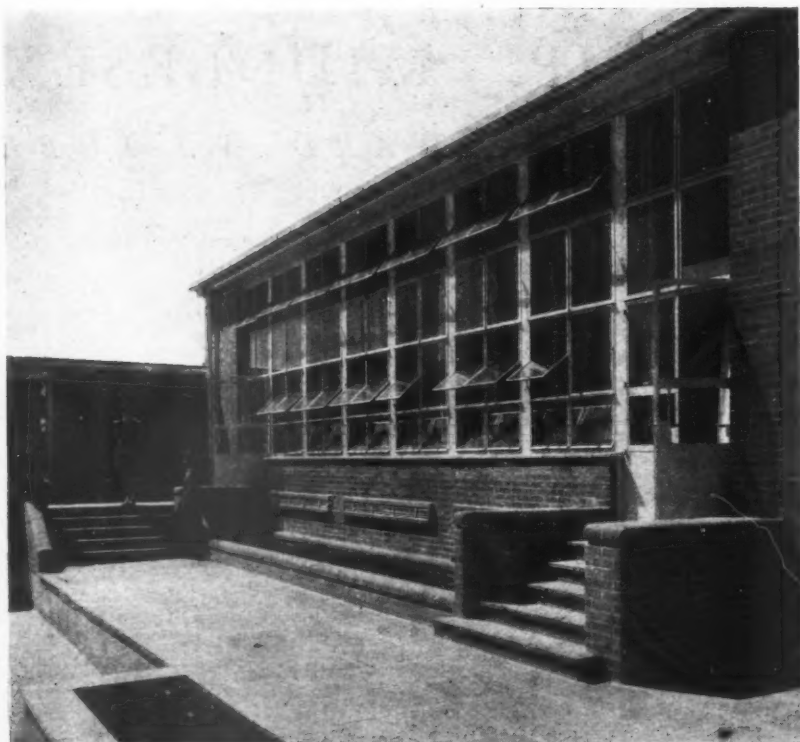
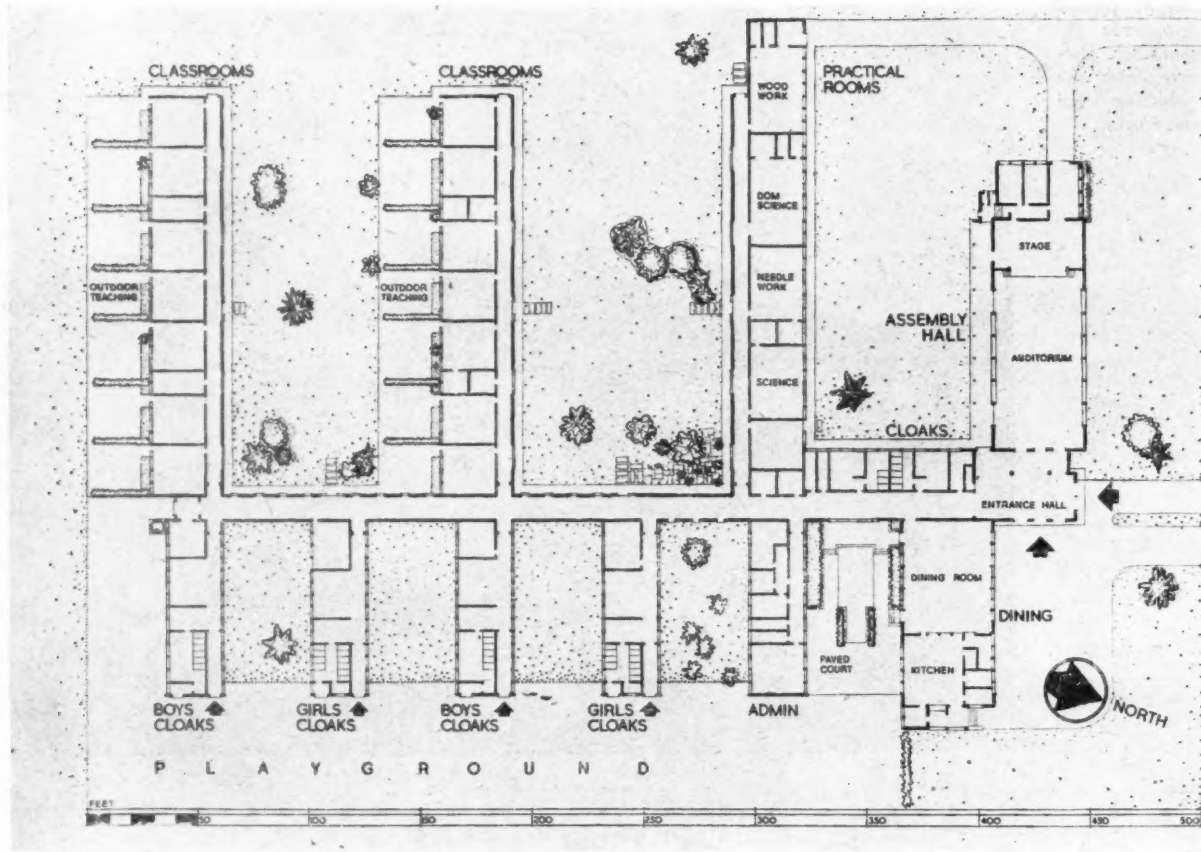
GENERAL.—The school has been built on behalf of the Ministry of Works for the Ministry of Civil Aviation. It replaces a school taken over by the Ministry of Civil Aviation in connection with Northolt Aerodrome. Accommodation is for 500 senior children. A school for 400 juniors has been

designed on similar lines at Eastcote. Built on a rectangular site with the north end fronting on Southbourne Gardens, the classrooms of the Ruislip school are planned across the site, giving a slightly east and west aspect. Building work was completed in just over six months despite

adverse weather conditions. Planting has been carefully considered. A formal pool is provided in the court between the administration and dining room blocks for biological studies. The fountain is designed by Geoffrey H. Deeley, and is modelled in reconstructed Portland stone.







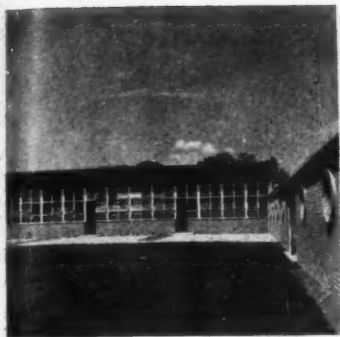
**PLANNING.**—Circulation consists of a central spine corridor, with branches to right and left serving the classrooms and cloakrooms. Each classroom has windows opening the full width of the room, leading to paved spaces for open-air teaching.

**CONSTRUCTION.**—The subsoil is heavy clay and foundations had to be taken deep. These deep foundations are restricted to the stanchion bases, the walls between being carried on reinforced concrete beams spanning between the stanchions. The skeleton is based

*Top, ground plan. Left, dining room block; above, model showing layout of sports field.*

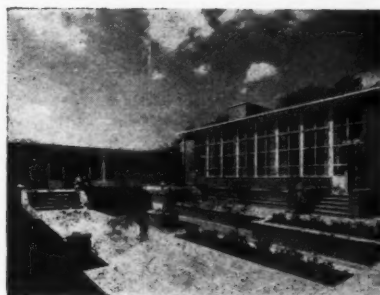
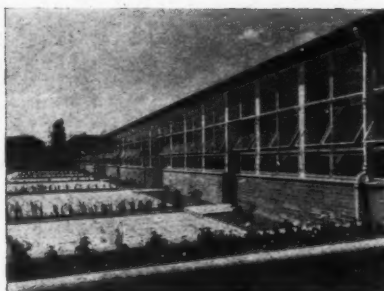
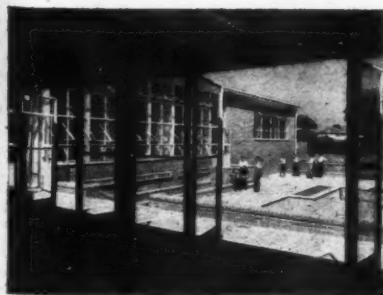
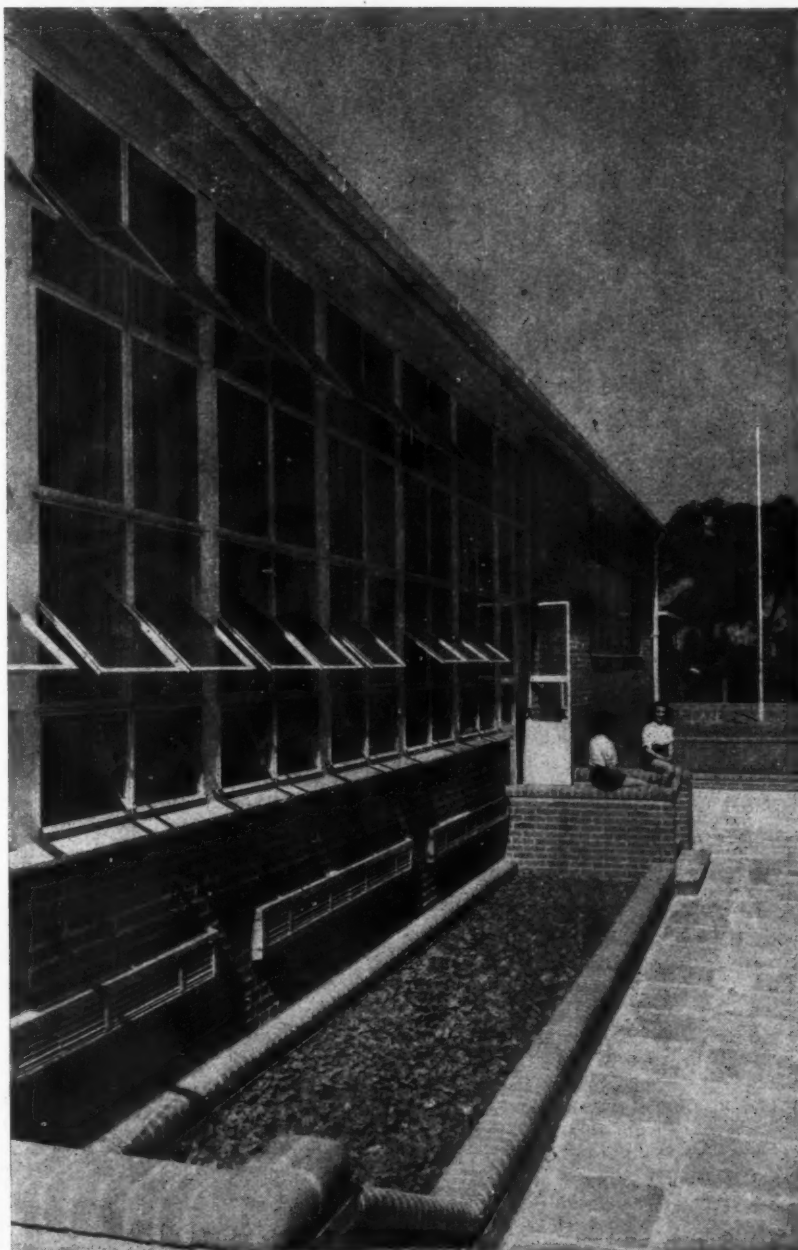
SCHOOL AT RUISLIP, MIDDLESEX:



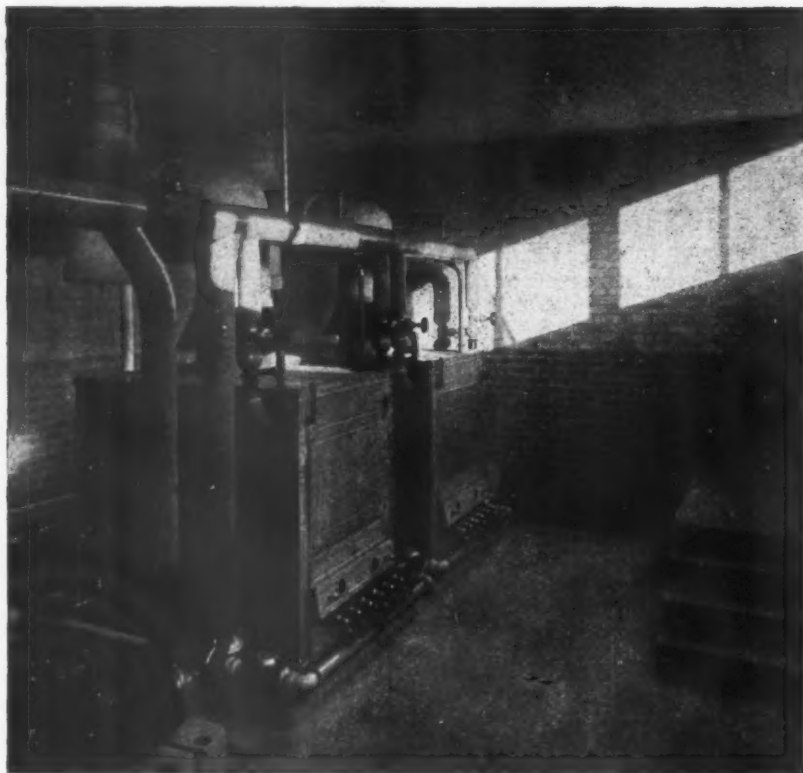


on a light steel frame of stanchions and trusses at 11 ft. centres. The span is 24 ft. 3½ in. Pitched roofs are adopted as being the lightest and speediest form of construction, while at the same time giving ample space for running services. The roofs are covered with protected metal of a dull maroon colour. Ceilings are of insulating board laid between light T members suspended from the roof trusses. Further insulation is achieved by laying glass silk, 1 in. thick, over the ceilings. Walls are 11-in. hollow built, faced with Uxbridge flint bricks. Internal partitions generally are 4½ in. brick, fairfaced. Floors are mesh reinforced concrete finished, in the classrooms, in coloured asphalt. Corridors are roofed with patent hollow slabs resting on the bottom flanges of filler joists. Flat roofs are asphalt finished in white spar. Dining and assembly halls have oak block floors, the oak being obtained from salvaged arms of telegraph poles. Corridor and

*Top, corridor and classroom block. Right, dining room block. Bottom, left, dining room and courtyard from the corridor. Bottom, centre, classroom block. Bottom right, dining room block.*



DESIGNED BY HOWARD V. LOBB

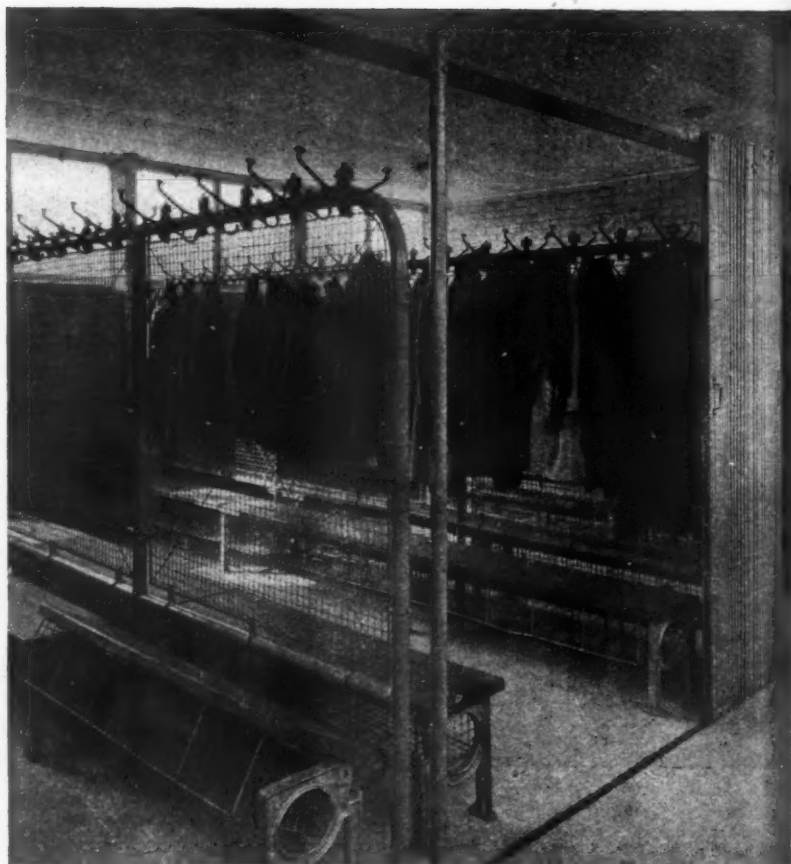


*Top, boiler house showing gas fired boilers and circulating pumps. Right top, drying room; centre, handicrafts room; Bottom, needlework room. Right, cloakrooms.*

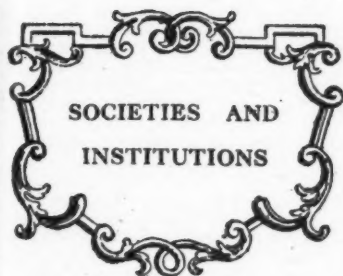
entrance hall floors are finished in terrazzo; the assembly hall in maple strip.

**SERVICES.**—Heating and hot-water services are provided by a gas fired boiler fitted with thermostatic control; lighting in the classrooms by fluorescent tubes. A public address system is incorporated and provision is made in the assembly hall for a cinematograph projector.

The general contractors were Messrs. John Laing and Son, Ltd. For the names of the sub-contractors see page 88.



**SCHOOL AT  
RUISLIP: DESIGNED  
BY HOWARD V. LOBB**



*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.*

## NAPT

### Sanatorium Design

July 9. At the Central Hall, Westminster. A session on SANATORIUM DESIGN IN THE COMMONWEALTH AND EMPIRE. HEALTH AND TUBERCULOSIS CONFERENCE. Among papers read were: PLANNING AND CONSTRUCTION OF HOSPITALS IN THE WEST INDIES, by Alexander Gray, F.R.I.B.A.; and SANATORIUM DESIGN AT HOME AND ABROAD, by Jane Drew, F.R.I.B.A. (Sponsor, National Association for the Prevention of Tuberculosis).

**Alexander Gray:** Most hospitals in the West Indies were originally constructed in the nineteenth century and were often adapted from military and police buildings. The wards were large and lofty and of the old infirmary type, and served their purpose then very well. They did not of course provide for the many small wards, ancillary rooms and special departments required to-day.

Small wards accommodating one, two, four and six beds are now planned on the pattern of the Rigs Ward (from the Rigs Hospital, Copenhagen), where beds are placed parallel to the window wall, and screens divide head from head.

This arrangement frees the external wall and allows the use of a suitable type of window. In this country a ward two beds deep is considered the desirable maximum, but in the West Indies where the climate allows more liberal cross ventilation it is safe to build wards three beds deep, and there also the double "Rigs" Ward often used in the United States is suitable.

Verandahs or Galleries, as they are called, take up considerable space and are expensive. Therefore it is important to see that

they are placed where they are most useful.

As day space for walking patients galleries are useful but sometimes excessive. As a means of access on the leeward or west side of a ward they are very useful, where they are virtually open corridors. On the east side of wards they serve as a protection from rain and sun, which is their true function.

The height of wards depends on the width of the largest ward on the floor, and should never be less than ten feet.

Windows to wards should be made to open completely and on exposed sides should be provided with horizontally hung sashes. Louvres should be used sparingly as they collect dust.

The lowest panes only of windows can be glazed with non-actinic glass where the sun may strike. It is best to provide ventilation near the floor if only for psychological reasons. This can be best done by having some windows to open to the floor on to verandahs or balconies. Fanlights can be left entirely void if protected by verandahs.

Internal doors to wards can be three-quarter length hung on spring hinges. They need not be lowered and they can be fastened back by cabin hooks.

Beds in exposed positions must be protected by windows. Movable screens and curtains are not satisfactory if exposed to breeze.

The planning of ward ancillaries follows the usual practice, but if possible such rooms should be made one foot longer each way to allow more comfort when working.

Shower baths are preferred and each compartment should allow room for dressing. Showers over ordinary baths are dangerous.

Wash basins should have taps which allow washing under running water. Water closets should have broad rims instead of wooden seats.

Air-conditioning is now well understood and can be properly regulated. It should never reduce the normal temperature more than five degrees Fahrenheit, and it should reduce humidity to fifty per cent. The Operating Theatre and X-ray and Eye Department Dark Rooms should be supplied with conditioned air, including all rooms connected with the Theatres which the Staff are using at the same time.

Where no main drainage system exists sewage is usually disposed of through settling tanks and open jointed pipes, while waste water, or sullage, as it is called, bypasses the sewage system.

Building materials are somewhat limited. Stone and gravel for concrete work can be found in most districts.

Bricks are very little used, but good hollow clay blocks are made in Trinidad. Various forms of oil residue and bitumen are available in Trinidad. Concrete floor tiles are made in Trinidad and Jamaica.

Hardwoods are grown in great variety, but are seldom reliable in quantity or quality.

Labour and transport constitute about fifty per cent. of the value of building work, local materials ten per cent., and imported materials forty per cent.

Reinforced concrete construction is well understood, and most buildings have a reinforced concrete frame and floors and walls of hollow clay or concrete blocks, good for insulation. Roofs of either single or double pitch provide good insulation, and asbestos-cement corrugated roofing provides better insulation than corrugated iron. Asbestos-cement sheets are best sawn into strips 18 in. long and laid as Roman tiles. Asbestos-cement is subject to mildew and should be painted to avoid unsightliness.

There is at present no lime for plastering and metal lathing is scarce; ceilings are therefore always of building board or Celotex.

Flooring may be of hardwood, terrazzo, concrete tiles or clay tiles. A good jointless composition floor should be imported; few makes of asphalt tiles resist indentation.

Rainwater, unless collected and stored, is allowed to run off into concrete ground

channels surrounding the buildings. These channels should have a shallow V section. Open-ended eaves gutters are used over entrances.

**Jane Drew:** From an architect's point of view the first question in sanatoria design, at home and in the colonies, is its location. Doctors have told me that in choosing a site it is well to think of tuberculosis as a mould and to choose a generally healthy site in which mould will not flourish.

The selection of a type of plan calls for an estimate of relative virtues of the spread-out type of plan and the concentrated multi-storey building.

There are strong psychological arguments in favour of the former, in that it is easier to provide something akin to the normal home life of the patient. The pavilions or houses are easier and cheaper in themselves to construct than the multi-storey building, and land is still supposed to be sufficiently easy to acquire in many parts of our colonies for the larger area of land needed not to be a defect, and access to the grounds is easier. Against these arguments must be set the drawbacks of extended service runs and difficulties of supervision.

Drainage and plumbing will be more difficult and expensive, and with a large number of small buildings spread over wide areas correct orientation whether for sunlight at home or for ventilation by prevailing breezes in the tropics, will become difficult or will be achieved through the endless and dreary repetition of these small building units. The opportunities for the design are small, and, lacking a feeling of unity, boredom creeps in.

The first virtue of multi-storied design is that if the services are planned centrally the building will be much easier and therefore cheaper to run, or it can give a better service for the same outlay. The area of site taken up will be relatively smaller, which in practice will mean that a sanatorium can be placed nearer a town, a great advantage from the point of view of staff and visiting relatives.

It will be easier to construct the wards, etc., for correct orientation, since above the ground floor the natural levels of the ground are of no importance, and need be little disturbed apart from their landscape treatment for the benefit of walking patients.

The main structure of multi-storey building will be built of steel or reinforced concrete. This last material has virtues for colonial use. It provides an anti-proof framed structure not subject to corrosion, and with low maintenance costs it can provide a structure with smooth ceilings, impervious floors, and walls that are adapted to the function of the rooms they enclose, being solid or glazed as the occasion demands. This form of structure is not difficult to build with well supervised native labour. The remote sites often suitable for sanatoria make haulage an expensive item, and the highly organized site fabrication and assembly possible in the casting of concrete members for a scheme containing a considerable measure of standardization is an economy.

Roofing is the greatest building problem in the tropics, one which multi-storey buildings minimize. Special aluminium tropical roofs of aluminium trusses and roof sheeting have lately been fabricated but are expensive, and costs usually drive one to use either concrete or asphalt or corrugated asbestos, an unattractive material.

Structure cannot be considered apart from services, and in hospital or sanatoria architecture structural and sanitary engineers should work together as a team from the outset, so that all pipes are incorporated in the structure as neatly as possible with the maximum economy.

The modern thirty bed ward, where the length of the ward is divided into bays of



four and two beds with low glass-topped screens, is to be preferred in that the beds are at right angles to the light, more privacy is possible for the patients, and that the service corridor in the ward does not so disturb the patients; and lastly the annexes can be more conveniently placed, two to the ward, which will save the nurses considerable work.

GG

## René Massigli

July 9. At the Royal Institution. An address to the Georgian Group by the French Ambassador on METHODS IN FRANCE OF PRESERVING HISTORICAL MONUMENTS.

### René Massigli:

It is rather more than a hundred years since the Service des Monuments Historiques was officially set up. It was founded in 1831, and its first Director was Ludovic Vitet, who was succeeded by that charming writer and learned archaeologist, Prosper Merimee. Six years later, in 1837, the Commission des Monuments Historiques was created, and by 1840 the principal monuments had been classified. Finally, in 1897, the Service d'Architecture des Monuments Historiques was organized.

The work of this department became particularly important in 1905, when the disestablishment of the Churches made the State responsible for ecclesiastical property, with the rider that it should be left at the disposal of the Church. From then onwards all our cathedrals came under the supervision of this department. At the present moment, 12,500 buildings of unequal importance are classified as Historical Monuments, while 15,000 are listed on a supplementary register.

Buildings whose preservation from a historical or artistic point of view is considered to be in the public interest, are classed as historical monuments, either as a whole or in part, by the Minister of Fine Arts. Besides this a supplementary inventory contains a list of all buildings or parts of buildings, public or private, which, without requiring classification, are nevertheless of sufficient beauty to make their preservation desirable.

In the case of private property the law makes a distinction between the owner who agrees to classification and the one who does not. In the first eventuality, an "arrete" signed by the Minister is sufficient, but in the second the Conseil d'Etat intervenes, and gives its ruling after the owner has been allowed to propound his arguments before the Conseil. If classification involves some loss to the owner, he is entitled to damages, but once a building is classified it remains so, to whomsoever it may belong. A classified building cannot be demolished or restored or altered without the consent of the Minister of Fine Arts, and work undertaken with this consent is carried out under official supervision. If it is the owner who takes the initiative of the work, the Department may decide to share in the cost; this is not compulsory, but it is usually done. On the other hand the Department has the right to order repairs to be undertaken when it deems this necessary, with the co-operation of the owner if he so wishes.

A report on our system of classification of historical monuments would be incomplete if I omitted to mention a private organization which has newly come into being, known as "La Demeure Historique." La Demeure Historique is what we call an "Association syndicate" of owners of castles and historic mansions in France. It was founded in 1924 at a time when French property owners began to realize that nowadays the upkeep of great estates is often

beyond the resources of their owners. To sell is no solution. The originators of the scheme believed that it was the duty of owners of these castles to preserve such an important part of the artistic inheritance of their country for future generations; on the other hand, it was up to the State to help them to undertake this task. That is why the principle was admitted that the owner who wishes to be helped by the State is compelled to let the public into the estates of which he ensures the preservation. When a proprietor dies, the association asks the Department to have the castle valued at a price which is not ruinous for the heir.

At this very moment bills are being drawn up with the help of the association, which will revise the legal statute of the historical property; it is hoped to devise in the light of this reform a new taxation system which will prevent the owner from being ruined within one or two generations.

Already the law which in 1945 instituted in France capital levy made special concessions to proprietors of historical buildings, especially to those who allowed access to their estates to the public.

TPI

## Donald Gibson

July 22. At Reading University. Town and Country Planning Summer School. Among papers read was THIRD DIMENSIONAL PLANNING, by D. E. E. Gibson, City Architect of Coventry.

**Donald Gibson:** There is a feeling among the public that people built more beautifully in the past than to-day. They will refer to Bath and the Cotswold villages. The feeling is understood if one looks at the vulgar lettering and name plates, the neon signs, lamp standards, and chain stores which have become part of the generally expected scene of to-day. Even in the countryside there are too many recent houses built to the requirements of uncultured and selfish owners, and we tend to attribute a greater value than we ought to the simple old developments of town and country. It appears to be so obvious that what is required is insistence upon the use of similar materials and style of building to the old.

But the use of a uniform building style does not by itself achieve satisfactory results, and the same applies to materials. There are many instances of schemes built with materials similar in colour to the native stone, and yet the resulting buildings look foreign to the district. It is generally because the normal eighteen to twenty foot roof span has not been adhered to, or that the scale is wrong, or that the traditional grouping has been disregarded in favour of pairs of semi-detached houses. No reason exists why new developments and new building techniques should not fit in well with the old ones, so long as they are done with feeling and an understanding of design. One need only look at some of our own cathedrals to see where it has been done.

The methods employed in different countries to achieve pleasant towns vary considerably. In Sweden, for example, eaves projection, roof pitch, gable or hip ends to roofs, direction of blocks for contours, and roof line, are often laid down in planning schemes, but no other country has the necessary powers greater than those in England. Yet there are a number of countries where a better job has been done—Sweden and Switzerland to mention only two. It may be that even more important than powers is a general high level of good taste and good education—education in the true sense of the word.

A nation which still permits the bulk of its building to be undertaken without architectural supervision only deserves what it has had. To a lesser degree one can criticize my own profession, which occasionally prefers to design buildings vulgarly calling for attention themselves, rather than taking their place in an unassuming manner with their fellow buildings in a street.

To-day new rules for planning are needed to suit our new requirements. The old ones still hold good in some respects, but they need adapting to present-day needs. The scale of space and speed is quite different to-day. The scale of to-day is that of the dual carriageway road and the turning space for a bus, and the wider footpaths for the greater crowds in our towns. And the consequent larger open areas need a greater building height. We should try to gain the feeling of a restful background by means of grass and simple buildings, because to-day we have so many crowds and much traffic in our towns. Contrast the early Greek and mediaeval towns with their dynamic grouping of individual buildings to provide an exciting background. We need a more static quality, except in quiet precincts where the movement of people is slow, and close and intimate. In such areas there should be plenty of interesting detail, sculpture and fountains which people can look at on foot, and not from quickly moving cars or buses. We should encourage a greater use of colour in our buildings. We lost the tradition of colour in vogue in mediaeval times. Perhaps the atmospheric pollution of recent years has been the cause. If so, the advent of district heating and the need for burning fuel more efficiently in future may see its return.

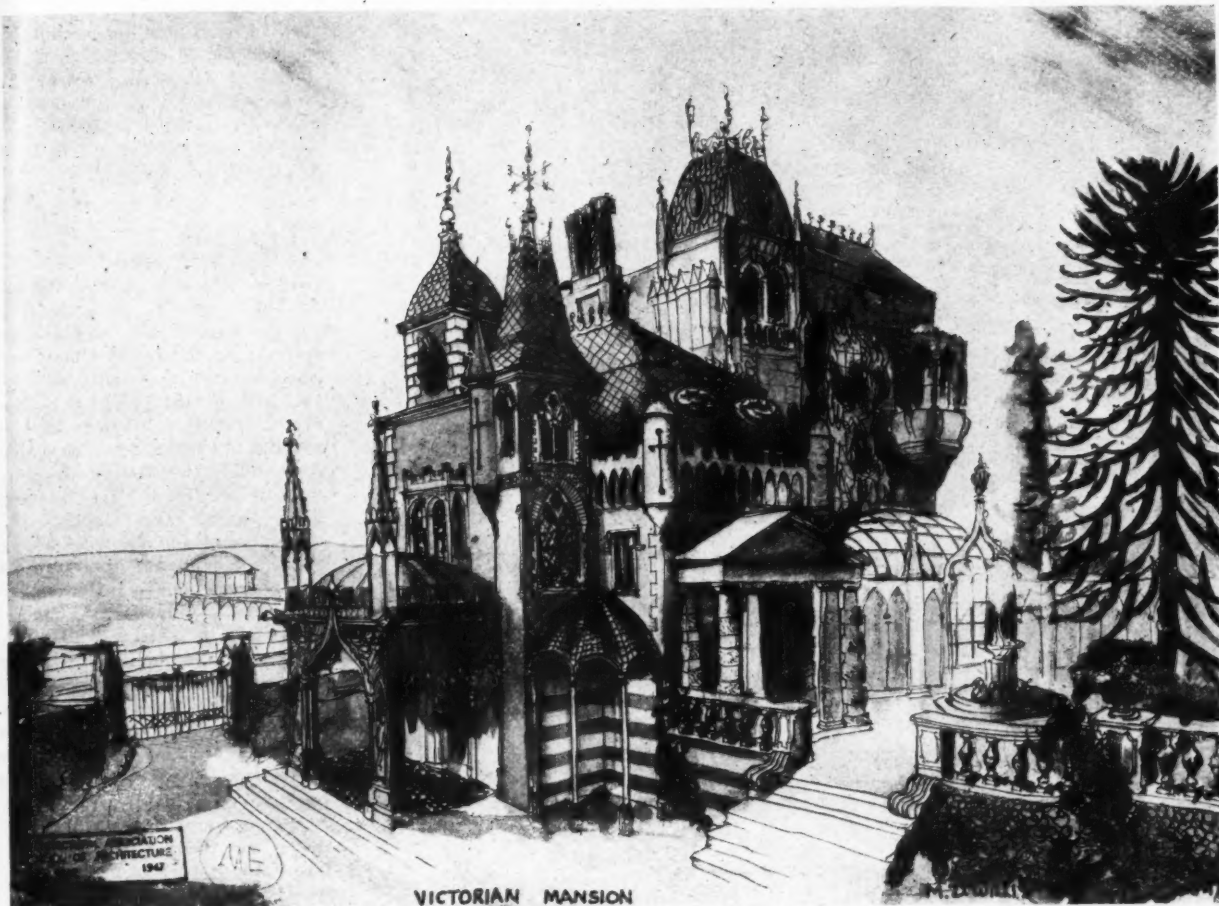
In towns frequently the land will be leasehold and owned by the local authority, and the possibility arises of that strong control which produced Wood's Bath and Nash's Regent Street, London. Such control would allow, when fixing rentals, of obtaining the money from groups of building owners to provide joint amenities such as sculptures, fountains, flowers, car parks and lifts, and service ducts for district heating. Without these things a town can only provide an existence, and not a living, for its citizens.

The Ministry should insist upon a model being prepared before any major scheme of planning or redevelopment is considered. A scale of 64 ft. to 1 inch is usually adequate for dealing with simple blocks to show heights and spacings, but for detailed arrangements showing pavements, steps and slopes and the architectural details of buildings, a scale of 24 ft. to 1 inch is about the smallest suitable scale. It is useful to make arrangements for viewing the model through street level aperture and by means of a small periscope which can be introduced at various points within the streets of the model where certain important new points are being considered. It is the view from the street which should be the overriding consideration. These factors mean that any model should normally be mounted at a fairly high level if it is to serve its most important function.

The question of models is so important that the Ministry of Town and Country Planning might well increase their present Model Section as a service to local authorities. It would be very helpful to smaller authorities who would not normally carry staffs able to make good models.

Finally there should be a really competent architect in each local authority to administer control and to give advice to the local authority. I think that any practising architect submitting individual schemes should expect to be able to discuss them with a member of his own profession. It is important for the Planning Officer to live in the town all the time. They ought not to move at frequent intervals from town to town, and 10-year agreements of any appointment of this type should be the rule.





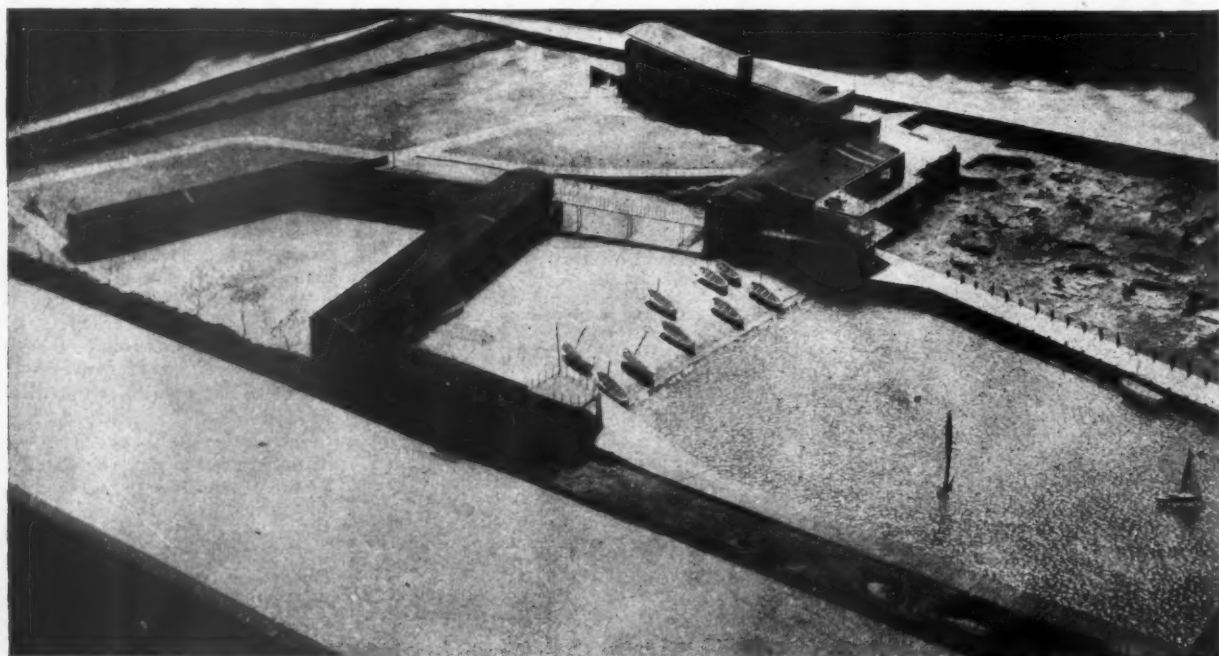
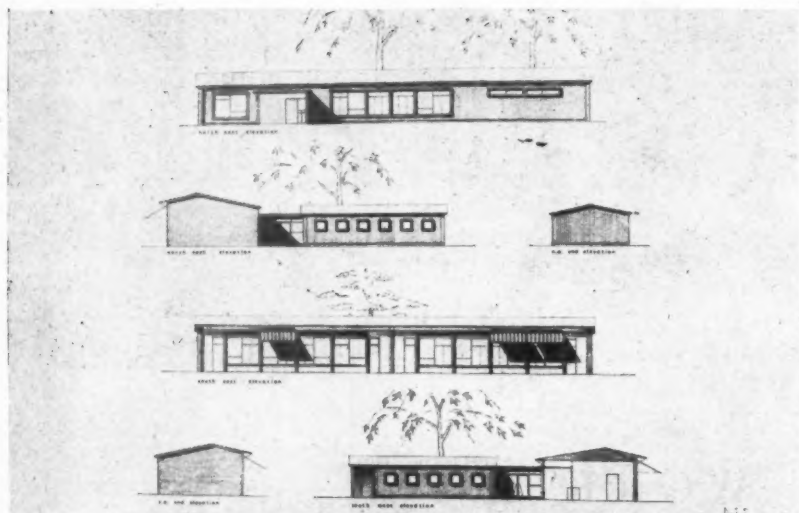
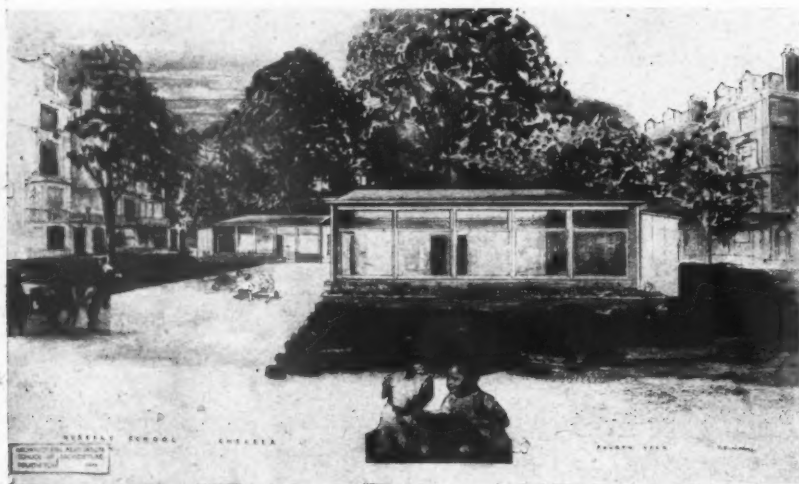
# THE YEAR'S WORK OF THE A A STUDENTS



The Architectural Association is now holding its annual exhibition of students' work at 34, Bedford Square. It is a small representative exhibition designed to give a general impression of the school over the past year. Of novel interest is the work produced by ex-Service students collateral with that of the younger students whose work has not been interrupted by war service.

Among the problems given the first year was a day sketch of a Victorian mansion, to be based on an extract from *Those Were the Days*, by Osbert Sitwell: "She

Top: Victorian Mansion, by M. Driffield Willis. 1st year. Left: Cottage in Gloucester, by I. J. Campbell. 2nd year.



Top: Project for a nursery school at Chelsea for 40 children, by V. W. Worsley. 4th year. Centre: The same project, by E. Clunies-Ross. 4th year. Bottom: Design for a sailing club at Tuff's Hard, by P. Horsbrugh. 3rd year.

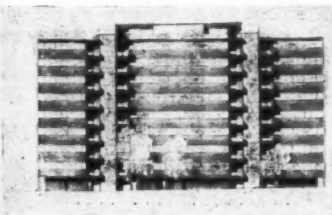
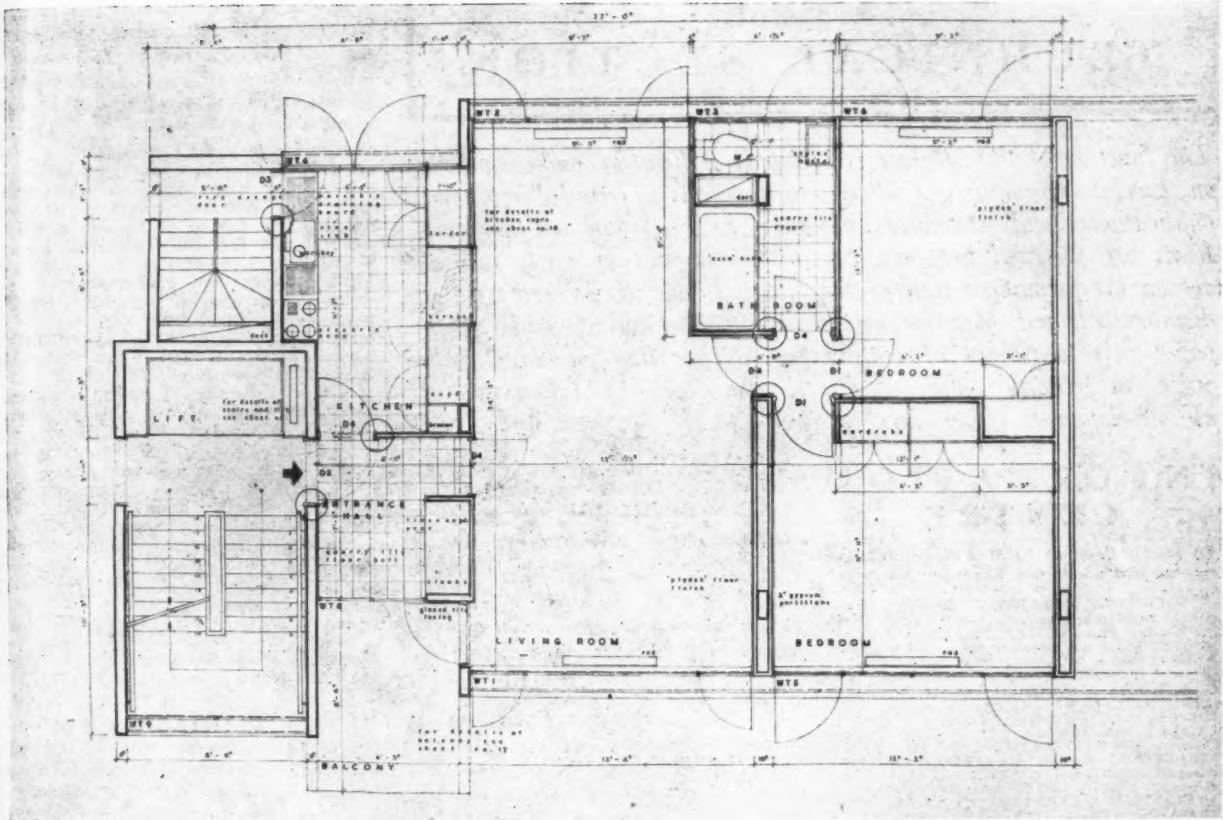
lived in a large redbrick house, the roof of which looked as though she had built it as a kind of compendium of the architectural systems of the world. Only one possible feature—and that, fortunately, a fairly plain one—had been omitted, obviously by an oversight. There was no gable. Accordingly, as though to atone for this neglect, the mansion had been named *The Gables*. But certainly nothing else was lacking. Turret and spire and dome, crocket and pinnacle and pediment, minaret and beehive-shaped belfry diversified its aspect, while from every tortured angle or writhing surface of the vermillion-coloured wall-space under, a bow window erupted to look upon the sea beneath. Over the door, under the Gothic Byzantine porch, which burst out of the house, as if trying to escape from it, were carved in deeply cut, leafy letters, the few hospitable words, 'And yours, my friend'." The house stood on the sea front of one of the smaller seaside towns.

The second year tackled as part of its work designs for a small housing scheme and for a small public building including, in some cases, suitable interior furniture.

The  
one  
the  
com  
eith  
Sma  
Squ  
conc  
ject  
for

Top  
of  
proj  
Nor  
W.  
righ  
Mor

T



The design of a sailing club was one of the chief problems set the third year. The fourth year completed its work by designing either an AA Country School or a Small Nursery School in a London Square. Fifth-year students were concerned chiefly with thesis subjects among which was a project for a block of flats.

Top and bottom, left: Plan of a typical living unit in a project for a block of flats at West Norwood; and an elevation by W. F. Mullins. 5th year. Bottom, right: Chair for a Chapel by Hugh Morris. Day sketch. 2nd year.



CHAIR FOR CHAPEL  
Hugh Morris. 2nd year.



## 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.

#### 2.13 planning: general TOWN PLANNING FINANCE

*Town Planning Finance with Particular Reference to Blitzed Cities.* A. H. Marshall, City Treasurer, Coventry. (The Institute of Municipal Treasurers and Accountants, June, 1946.)

Interesting paper on aspects of town planning finance presented before publication of Town and Country Planning Bill, 1947. Practical problems of both blitzed and blighted areas likely to be encountered by local authorities in view of large-scale estate ownership in connection with land redevelopment within their boundaries. Financial issues involved in execution of Town and Country Planning Act, 1944. Factors making balance of incomes and outgoings difficult. Consideration of safeguards against deficiencies. Description of financial aspects of an actual reconstruction area. Details of three estate schemes of local authorities, initiated many years ago, showing interesting financial history: Birmingham, 1878, Kingsway, London, 1899, and Huddersfield, 1920.

#### 4.13 planning: urban and rural NEW TOWNS FOR BRITAIN

*New Towns for Britain.* Charles Dalton. (Town and Country Planning Association, 1947. 9d.)

Useful summary, in form of questions and answers, of New Towns Act, 1946, and of New Towns Committee Reports published last year. Written mainly for general public and omitting references to more involved subjects such as purely legal or financial questions.

#### 6.9 planning: social and recreational RECREATION GROUNDS

*Reclaiming Recreation Grounds.* I. G. Lewis. (The Surveyor, April 18, 1947, Vol. CVI, p. 207.)

Paper deals primarily with restoration of recreation grounds used for war purposes; contains advice on best methods of obtaining good grassed surfaces. Deals with regrading, levelling and drainage, turfing, sowing grass seed including composition of seed mixtures for various soils, management of newly grassed areas. Much of the data equally applicable to grassing areas round new buildings, and of practical interest in this connection. Not illustrated.

#### 16.14 materials: miscellaneous TESTING PLASTIC MOULDINGS

*Interim Report on Suggested Methods of Testing Finished Mouldings (Plastics).* B.S. 1330: 1946. (British Standards Institution, 1946, 7s. 6d.)

Detailed report on the preparation of miniature test samples and of various recommended methods of testing; directed to the electrical and plastics industries. A specialist document of only indirect interest to architects: specification designed as a means of effecting control over production of finished moulded components. 109 pp. photographs and diagrams.

#### 21.8 construction: miscellaneous REPAIR OF CONCRETE ROOF

*Low-Cost Repairs Restore Concrete Hangar to Design Strength.* Anton Tedesco. (Civil Engineering [USA], January, 1947, pp. 9-12.)

Shell concrete roof of hangar of 160 ft. clear span exposed to 2-hour blaze prevented spread of fire and could be restored to its full strength at less than 5 per cent. of original cost. Steel doors and guides twisted beyond repair, glass portions of lighting fixtures fused by heat. Important evidence of suitability of shell concrete construction for large-span fire-resisting roofs. (See criticism of clause 69 of Post-War Building Studies, No. 20, in No. 17.10.)

#### 23.33 heating and ventilation THERMAL INSULATION

*Thermal Insulation of Buildings.* Paul Dunham Close. (Reinhold Pub. Co., New York, 1947. \$1.75.)

Intended as non-technical to semi-technical treatise, but in fact contains considerable technical information covering all aspects of subject. Tables and diagrams. Photographs of installation methods. List of principal manufacturers. 104 pp.

Architects may be familiar with a book entitled *Building Insulation* by the same author. The present publication is intended to be a less technical venture but nevertheless contains a great deal which would be too technical for a lay public, at least in England. After chapters dealing in a straightforward manner with a description of principles and methods of calculation, there is a section on condensation and methods of prevention. Perhaps the latter part of the book is the most interesting since it contains information not often dealt with in books. In particular there is a fairly full description, with illustrations, of the various types of insulating materials and methods of application and a long list of trade names and manufacturers. The trade name list is confined mainly to USA and Canada with one or two Scandinavian firms included. A useful publication for architects to read but hardly the best thing to use for reference purposes in this country.

#### 28.2 miscellaneous FLOODS: DRYING OUT

*Flooding and the Sanitary Inspector.* A. D. M. Jones. (The Sanitarian, June, 1947, Vol. 55, p. 254.)

Mobile aircraft engine preheating units used for emergency drying out of 300 badly saturated houses at Maidenhead. Room temperatures of up to 200° F. maintained by petrol burning air heaters lent by RAF. Very rapid drying of structure and furnishings achieved without damage. Fuel consumed about 10 gallons per house; saving on subsequent dry rot damage estimated as greater than cost of whole operation. Type of heater used now obsolete for aircraft; success reported here suggests that surplus units should be kept available for similar emergencies in the future.

*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

#### 2903 FOOTBALL STANDS

**Q.** *I have to design a sports pavilion for our athletic section. The design will incorporate a football stand. I should appreciate information with regard to any regulations concerning the subject, or some idea of where such information may be obtained.*

**A.** Messrs. P. S. King and Staples Ltd., of 14, Great Smith Street, S.W.1, issue on behalf of the London County Council a Code of Regulations and Rules for Places of Public Entertainment No. 3399, which contains regulations and rules with reference to the structure, lighting, heating, electricity, ventilation and mechanical installations.

These regulations are the basis on which local Bye-laws are based, and you could probably obtain some indication and guidance from your local authority.



In a  
changing world . . .



An early nineteenth century stage coach, still in daily use at Chessington Zoo.

## Timber endures



"Thus we may gather the necessity of a more than ordinary knowledge requisite in them that deal in timber, to study their art well; nor is it a small stock of philosophy." John Evelyn, in the 17th century, wrote those words recognising the vast and diverse uses of wood for decorative and structural purposes. And to-day's designers and craftsmen have at their command a far wider choice of timber than ever before . . . including hardwoods and veneers from all over the world, water resistant plywood (flat, shaped or metal faced) and the advantages inherent in modern kiln drying, fireproofing, etc.

### WILLIAM MALLINSON & SONS LTD

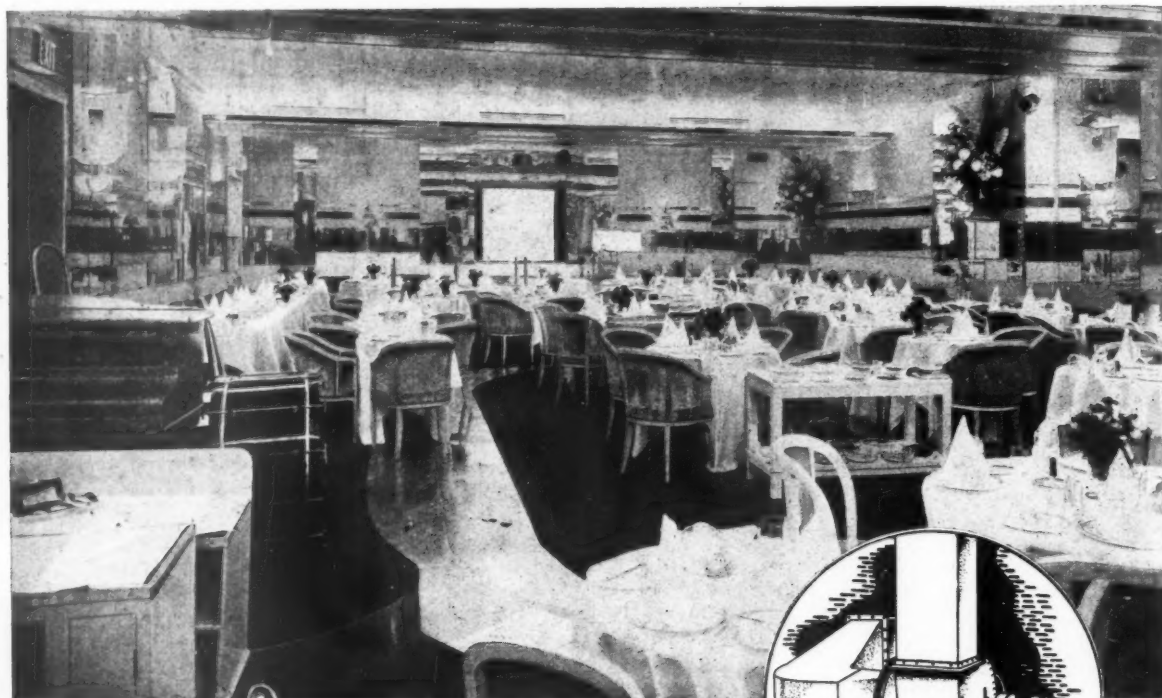
TIMBER AND VENEER MERCHANTS AND PANEL MANUFACTURERS

130-150 HACKNEY ROAD • LONDON • E 2

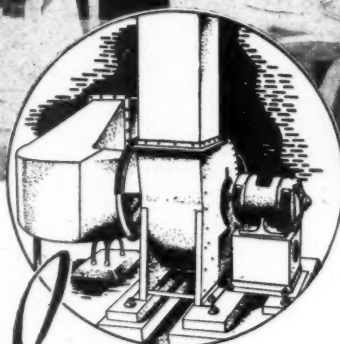
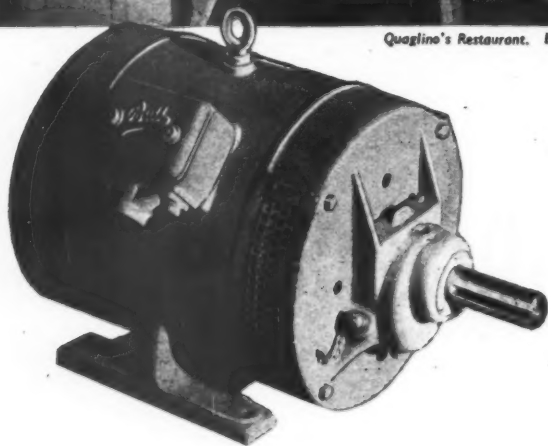
TELEPHONES (Private Exchange)  
SHOREDITCH 8888 (3 lines)  
SHOREDITCH 8811 (5 lines)

TELEGRAMS & CABLES  
'ALMONER'  
LONDON

# HEATING *and* VENTILATING



Quaglino's Restaurant. Bury Street, S.W.1



*naudibly  
powered  
by*



## BULL *SUPER SILENT* MOTORS

***You can always rely on Bull Motors***

BULL MOTORS (E. R. & F. TURNER LTD.) IPSWICH, LONDON, MANCHESTER, BIRMINGHAM, NEWCASTLE, GLASGOW



The following tables summarise the official statistics on housing progress, the production of building materials and the labour position.

## HOUSING, MATERIALS AND LABOUR

[by Ian Bowen]

### HOUSING

TABLE I PERMANENT HOUSES IN GREAT BRITAIN: Cumulative Totals

	Begun			Finished		
	Local Authorities	Private Builders	Total	Local Authorities	Private Builders	Total
To Dec., 1945	20,409	—	—	1,657	1,031	2,688
1946: June ..	82,178	40,267	122,445	5,059	7,945	13,004
July ..	97,126	44,878	142,004	6,530	10,911	17,441
Aug. ..	112,491	48,841	161,332	8,335	13,670	22,005
Sept. ..	130,705	52,218	182,923	10,902	17,394	28,296
Oct. ..	150,882	55,800	206,682	14,570	21,177	35,747
Nov. ..	165,447	58,581	224,028	18,439	24,639	43,078
Dec. ..	178,379	61,293	239,672	23,923	28,175	52,098
1947: Jan. ..	190,340	63,319	253,659	28,440	31,609	60,049
Feb. ..	197,938	64,459	262,397	30,607	33,278	63,885
March ..	205,159	65,864	271,023	34,436	35,430	69,866
April ..	218,815	67,826	286,641	40,425	38,184	78,609
May ..	234,395	70,684	305,079	47,726	41,465	89,191
Increase of May over April ..	15,580	2,858	18,438	7,301	3,281	10,582
Total at May 31, 1947				Under Construction		Finished
Local Authorities ..	..	..	..	186,669	47,726	..
Private Builders ..	..	..	..	29,219	41,465	..
War-destroyed rebuilt ..	..	..	..	16,528	10,289	..
Government Departments ..	..	..	..	1,747	185	..
Total ..	..	..	..	234,163	99,665	..

TABLE II TEMPORARY HOUSES IN GREAT BRITAIN: Cumulative Totals

	Slabbing Begun	Slabbing Completed	Erection Begun	Erection Completed
To Dec., 1945	61,008	39,998	22,932	9,376
1946: June ..	103,322	84,594	61,472	35,139
July ..	108,374	92,100	69,057	40,425
Aug. ..	114,016	98,744	76,519	47,176
Sept. ..	117,422	103,700	83,725	57,040
Oct. ..	122,742	109,368	93,201	70,121
Nov. ..	128,258	112,837	98,650	80,135
Dec. ..	131,646	115,711	103,796	92,306
1947: Jan. ..	134,023	118,451	107,214	97,070
Feb. ..	136,238	118,734	109,033	99,461
March ..	137,992	119,759	111,002	101,717
April ..	140,333	123,757	115,166	106,664
May ..	141,786	127,270	118,653	111,029
Increase of May over April ..	1,453	3,513	3,487	4,365

Temporary Houses Under Construction at May 31: 7,624.

TABLE III NON-TRADITIONAL PERMANENT HOUSES (ALREADY INCLUDED IN TABLE I) GREAT BRITAIN: Cumulative Totals

	Begun	Completed
To and Dec., 1946	31,947	3,521
Jan., 1947	34,457	4,183
Feb. ..	36,083	4,627
March ..	38,159	5,495
April ..	42,170	6,687
May ..	46,793	8,281

Non-traditional Houses Under Construction at May 31: 38,512

TABLE IV \* HOUSING ACCOMMODATION PROVIDED OTHERWISE THAN BY NEW BUILDING: Cumulative Totals

	Unoccupied War-Damaged Houses Repaired	Conversions and Adaptations
To end Dec. 1946	107,898	35,814
Jan. 1947	110,149	38,693
Feb. ..	111,955	40,653
March ..	114,117	42,826
April ..	116,772	44,909
May ..	119,062	47,294
Increase of May over April ..	2,290	2,385

\* Emergency Huts (programme finished August 1946) provided for a further 3,480 families.

### BUILDING MATERIALS

TABLE V PRODUCTION AND STOCKS†

Material	Unit	April-June, 1946		May, 1947	
		Production	Stocks‡	Production	Stocks‡
		(monthly average)			
Cement ..	th. tons	240	534†	184	
Bricks ..	millions	265	379	340	
Roofing materials					
Clay tiles ..	th. squares	33.5	34.2	60.4	34.9
Concrete tiles ..		19.4	30.8	52.7	60.2
Slates ..		23.0	40.4	—	—
Asbestos cement sheeting	th. tons	26.7	—	24.7†	—
Roofing felt ..	th. rolls of 24 sq. yds.	192	155	193	98
Ceilings, Wall Linings and Floorings					
Plaster gypseous	th. tons	15.3	—	15.6	—
Plasterboard ..	th. sq. yds.	3,026	342	3,064†	232
Tiles					
Glazed ..	th. sq. yds.	425	—	508	—
Floor (Clay) ..		93.3	—	193	—
Pipes (Water, Gas, etc.)					
Lead ..	th. tons	4.10	—	3.86	—
Copper ..		2.39	—	2.90	—
Soil Pipes (cast iron)		1.4	—	2.28	—
" (Asbestos Cement)		—	—	† 3.2	—
Drain Pipes, Salt Glazed ..		31.2	—	35.5	—
Rainwater Goods, Rainwater Pipes, Gutters and Fittings					
Cast Iron and Pressed Steel	th. of equiv. tons of cast iron	2.73	—	5.21	—
Asbestos Cement Goods	th. tons	—	—	1.8†	—
Manhole Covers and Frames	th. of equiv. tons of cast iron	2.92	—	2.94	—
Metal Windows ..	Mn. ft. sup.	2.67	1.97	4.37	3.91
Sanitary Fittings					
Baths ..	thousands	22.6	—	28.5	—
Lavatory Basins		64.8	—	75.1	—
Sinks ..		46.1	—	58.1	—
W.C. Pans ..		74.6	—	98.8	—
Cookers ..		10.0	—	25.6	—
Solid Fuel ..		12.5	—	18.5	—
Electric ..		28.3	—	32.1	—
Fires, Solid Fuel ..		47.1	—	76.0	—
Wash Boilers					
Electric ..		15.4	—	13.1	—
Gas ..		36.0	—	33.1	—
Furnace Pans (Solid Fuel)		2.7	—	5.2	—
Solid Fuel ..	thousands	0.14	—	1.94	—
Softwood Timber (Imports and Home Produced)	th. stds.	49.8	310.1	76.3‡	114.6*

† At end of period.

‡ 4 week period. Other figures relate to calendar months.

§ Imports only.

\* April figures.

### LABOUR

TABLE VI BUILDING AND CIVIL ENGINEERING LABOUR IN GREAT BRITAIN: Operatives Employed, aged 16 and over

Type of Work	July, 1945	May, 1946	May, 1947*
Total ..	535.0	847.0	954.0
Housing ..	343.9	523.2	535.0
Permanent (Construction, and preparation of sites)	17.4	128.7	235.8
Temporary ..	14.5	38.5	13.5
Other (repairs, etc.) ..	312.0	356.0	285.7
Other Work ..	191.1	323.8	419.0

\* Provisional.

E.D.A. Explains—

# THE ELECTRICAL TIME SWITCH

The Electrical Time Switch, as its name implies, is a device for switching current on and off at previously fixed times.

## USES

The automatic control of street lighting is the most common use of the Time Switch; for this purpose the switch is designed to operate throughout the year according to the varying times of sunset and sunrise. The wide variety of other uses includes the timing of electric heat treatment processes in industry, the operating of factory sirens, the switching off of loads at peak periods to reduce the maximum electricity demand and the automatic control of shop-window lighting. In fact, wherever a time control is required for electrical equipment the Time Switch is essential.

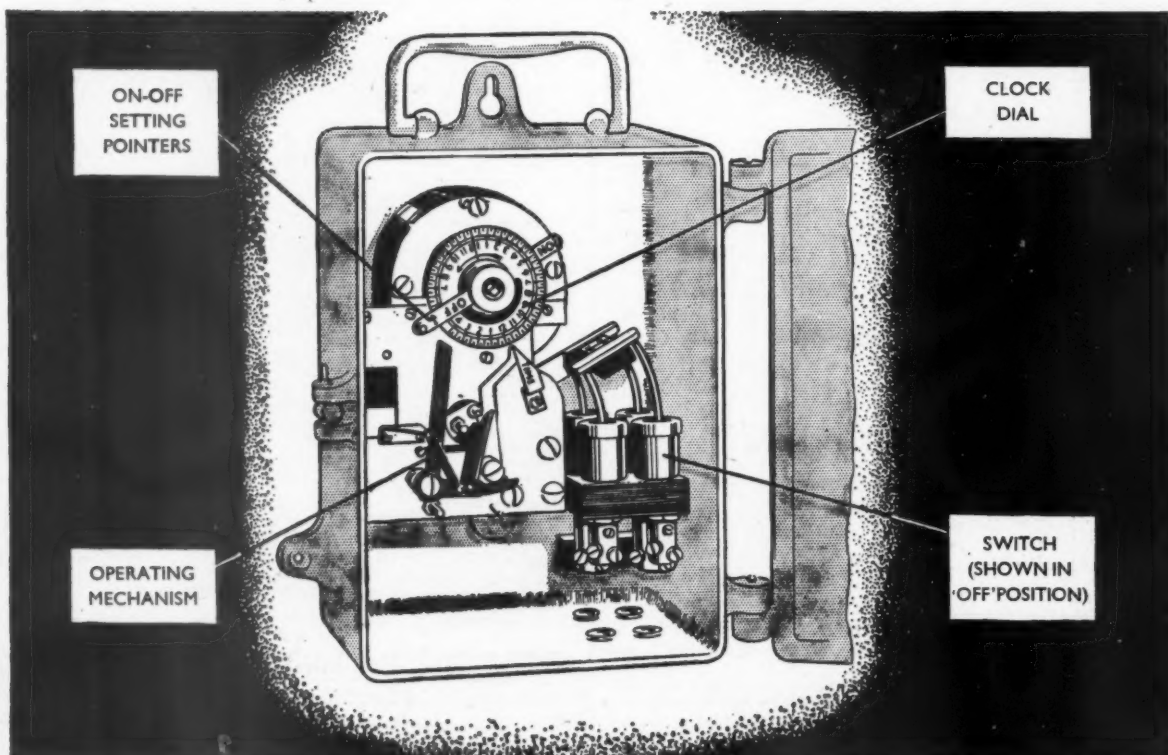
## COMPONENTS

The Time Switch consists of two parts — a clock with a setting device for on-off timing and a switch.

The clock may be electric, spring-wound or a combination of both, this latter system ensuring continuous operation even should the current supply fail.

## ACTION

Setting the clock is carried out by moving two pointers round the dial to the required switch-on and off times. At the switch-on time, the action of the clock operates a switch and current flows through the circuit until the clock automatically switches it off. Thus, once the clock has been set, a continuous cycle of processes may be performed without further attention being required.



Expert advice on specialised electrical subjects is always available from your local Electrical Authority.  
Issued by the British Electrical Development Association, 2 Savoy Hill, London, W.C.2.



*This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.*

## THE INDUSTRY

[by Philip Scholberg]

### PURCHASE TAX

Shaken to the core by the extra shilling on a packet of cigarettes, many of us noticed only some time later that there was 66 per cent. purchase tax on a number of domestic appliances, only light fittings and solid fuel appliances being omitted. For some time the gas and electrical interests made efforts to get the tax removed or reduced, and Mr. Dalton has had some second thoughts which offer a slight relief. Purchase tax is now removed altogether from gas or electric cookers, hot plates, grills, kettles, irons and wash boilers, and this part of the order is retrospective. You can also get half of the purchase tax back on refrigerators, washing machines, vacuum cleaners, floor polishers, clocks, and electric sewing machines, as the tax on them has reverted to the pre-budget figure of 33 per cent.; 66 per cent. remains on water heaters, immersion heaters, geysers, drying cabinets, and fans. The official notice from the Customs and Excise also adds to the 66 per cent. list "electric lawn mowers," of which I am forced to admit I have never heard, having progressed no further than borrowing other people's Atcos.

The changes in tax seem reasonable, particularly refrigerators, which almost certainly save far more in food than the current they consume. The high tax on gas and electric water heaters will presumably help to keep

the load down, but on many conversion jobs it is difficult to avoid using one or the other, so presumably the result will be to screw rents just a fraction higher. But at the moment it seems probable that only a few people will have constant hot water this winter, whatever fuel they use.

### SHOPFITTING UNITS

Light alloys, still almost the only materials obtainable without permits, are now being used in quite an ingenious way by Frederick Sage, who are producing what they call Multiscreen Unit Builders, which can be used for all sorts of jobs like making display stands, column casings, wall paneling or shelving. The basic section is illustrated on this page, and is really no more than a miniature version of the interlocking sheet pile, with a joint which allows about 60 degrees of movement, so that small and large radius curves are equally simple. Lengths up to 6 feet are produced, which is presumably about right for display work, though there is no reason why the lengths should not be longer if necessary, and they could of course be anodized if colours were thought desirable. To make small tables or stands you take a number of short lengths and slide them together and then set them up in any stable plan shape like an S or an L. Glass, Plastic or any other flat sheet will then produce table, shelf or stand as necessary. (Frederick Sage (Display Fittings) Ltd., Verulam Street, Grays Inn Road, London, W.C.1.)

### TOILET SEATS

I have just received a long letter from Mr. George M. Beaumont, who complains that architects are mistrustful of moulded plastic toilet seats on the grounds that they are too fragile. Mr. Beaumont is all against this idea, and claims that it has arisen "as a result of cheap ill-designed seats that are on the market, made from unsuitable material which is skimmed to a degree which calls for strong criticism." He has spent the best part of 20 years making toilet seats in all possible materials, and claims that his Aero-plastics model is virtually indestructible. He has sent a sample, which he asks me to look at, and it is certainly a piece of good simple design which looks strong enough to withstand the roughest use. He then says "Will you please ill-treat it, bang it, jump on it, and submit it to the most violent treatment you can think of." An invitation of this kind naturally arouses one's worst instincts, and I have done what I can without managing to break it, or even get a chip off. I was thus reduced to using the seat for its proper purpose, and I still have no complaints. The cover is certainly stiff enough to be stood on while replacing the inevitable ball valve washer, and I succeeded in dropping a spanner on it for good measure. Until such time as seats are made with electric (and thermostatic) heating I shall not admit that design finality has been reached, but in the meantime nobody need worry about the fragility of plastics. Or if they do they

need only write to Mr. Beaumont. (30, Cambridge Drive, Denton, Manchester.)

### ONAZOTE AND RUBAZOTE

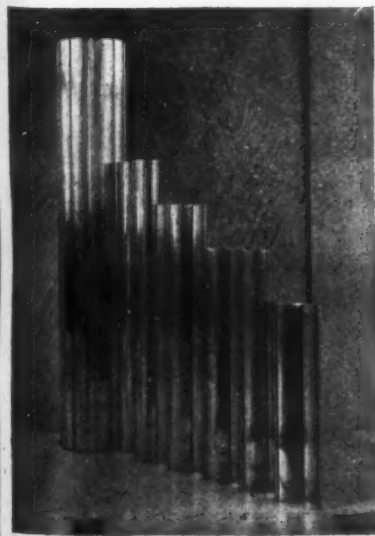
Two small booklets have recently been issued dealing with the working characteristics of Rubazote and Onazote, two products manufactured by the Expanded Rubber Company. Onazote is an expanded ebonite with a very low density and water absorption, the precise figures varying with the different grades. For insulation only a density of 4 lb. to the cubic foot is recommended, when the thermal conductivity is 0.19. Remember that this is *per inch* thickness, and not to be confused with the often loosely used "U" (transmittance value) for walls, etc., where the figure of 0.2 or 0.3 is for the structure as a whole and ignores the thickness. For general building and sandwich construction the density recommended is about 6 lb. per cubic foot.

One of the most useful properties of the material is its suitability for making curved sections. It can be bent easily to the required shape by placing it in boiling water or live steam for about two minutes, the outer skins being bent separately and struck with a pressure of not more than 10 lb. per square inch. London Transport are now using this material for bus roofs, and it is also useful as a filler for flush doors, and any form of partitioning in transport where light weight is of importance. It is rated as a material "of low inflammability," which means that it goes out as soon as the heat source is removed.

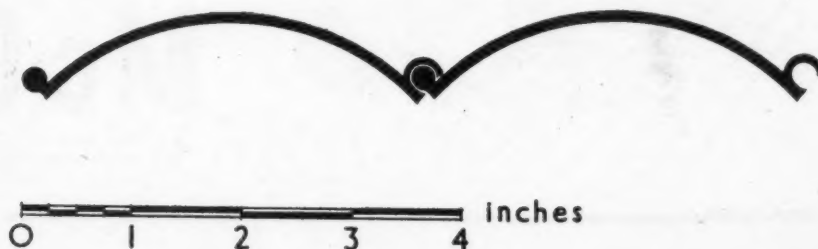
Rubazote is pretty much like sponge rubber, save that the air cells contain an inert gas and do not communicate with each other. As a floor covering it is extremely wear-resistant and resilient, and for transport work it has the further advantage of light weight. As an underlay it reduces carpet wear considerably and is widely used in hotels and public buildings. Both materials are pretty resistant to most solvents, and no unusual precautions need be taken. (The Expanded Rubber Co., Ltd., 675, Mitcham Road, Croydon, Surrey.)

### HOSPITAL EQUIPMENT

Until August 2 there is, at the Tea Centre, an exhibition of hospital equipment organized for the Ministry of Health by the British Gas Council and the Electrical Development Association. It is intended mainly for hospital management committees and local authority representatives, and deals with the purely domestic side of hospital work as opposed to nursing or medicine. The exhibits consist therefore of things like washing-up machines, floor polishers, large vacuum cleaners, and the smaller scale equipment likely to be found in ward kitchens. There is also a certain amount of small-scale equipment like grills, laundry and sewing machines, which are put forward as necessary amenities for hospital staffs as a whole. The majority of this equipment has, naturally, been seen before, but much of the larger stuff is new. (22, Regent Street, London, W.1.)



Typical lengths of Multiscreen Unit Builders. (Extruded Aluminium.) Right, Section



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. 24.7.47

## Announcements

The Reinforced Concrete Association proposes to hold a meeting next October, at which a symposium on *Trends in Reinforced Concrete* will be presented, and contributions are invited. The symposium will cover the whole field of reinforced concrete—uses, design, construction, materials, and plant—and each paper must be limited in its length and scope. Opportunity will be given later for the elaboration and fuller discussion of those which appear to be of particular interest or importance. In order to avoid duplication, those wishing to present a paper should submit a note of the subject with which they propose to deal, with a brief synopsis, so that a suitable selection may be made. The paper itself should not take more than ten minutes to read. Preliminary notes should reach the Association (94-98, Petty France, London, S.W.1) not later than July 31.

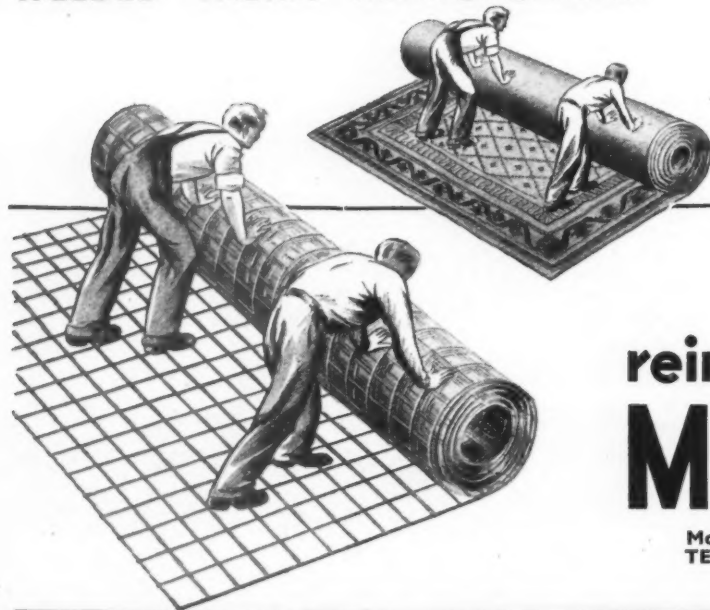
Mr. J. C. Spooner, A.R.I.B.A., P.A.S.I., has been appointed a Principal Assistant Architect in charge of County Buildings in the office of Mr. S. H. Loweth, F.S.A., F.R.I.B.A., the Kent County Architect. Educated at Forest School, Mr. Spooner studied at the Northern Polytechnic School of Architecture, served his articles with Mr. R. C. Foster, F.R.I.B.A., of Fouley and Foster of Buckhurst Hill, Essex, and continued in this office as an assistant until 1936, when he joined the staff of the County Architect's Department of the Middlesex County Council to assist in their large pre-war programme. During the war Mr. Spooner was commissioned in the Royal Engineers and served through the campaign in NW Europe. At the end of hostilities he was appointed Staff Captain (Designs) at HQ., BAOR. On his return from the forces in 1946 he resumed his duties as (Senior) Sectional Assistant on

the staff of the Middlesex County Council until taking up his present appointment.

## Buildings Illustrated

*School at Ruislip* (pages 75 to 78). Architect, Howard V. Lobb, assisted by K. W. Douglas and A. P. Hodgson. General Contractor, John Laing and Son Ltd. Clerk of Works, H. A. Barford. General Foreman, J. E. Hobbs. Foundations designed by Mr. E. J. Cook, Consulting Engineer. Sub-contractors: Asphalte, Limmer and Trinidad Lake Asphalt Co. Ltd.; Bricks, Uxbridge Flint Brick Co. Ltd.; Artificial stone, Malcolm Macleod and Co. Ltd.; Structural steel, Lindsay Parkinson Ironworks Ltd.; Fireproof construction, Rapid Floor Co. Ltd.; Roofing, Limmer and Trinidad Lake Asphalt Co. Ltd. and Robertson Building Service; Patent glazing, J. A. King and Co. Ltd.; Woodblock flooring, Horsley Smith and Co. Ltd.; Central heating, Rosser and Russell Ltd.; Gasfitting, Gas Light and Coke Co.; Electric light fixtures, Troughton and Young Ltd.; Ventilation, Rosser and Russell Ltd.; Sanitary fittings, W. N. Froy and Sons Ltd.; Door furniture, Yannedis and Co. Ltd.; Casements, Crittall Manufacturing Co. Ltd.; Bells, Barlow and Young Ltd.; Folding gates, Yannedis and Co. Ltd.; Rolling shutters, Haskins Rolling shutters; Sunblinds, J. Avery and Co.; Decorative plaster, Clark, Fenn Ltd.; Metalwork, Clark, Hunt and Co. Ltd.; Textiles, Curtains designed by Gerald Holtom; Shrubs and trees, Clark and Co.; Cloakroom fittings, Clark, Hunt and Co. Ltd.; Clocks, Barlow and Young Ltd.; Tower clock by English Clock Systems Ltd.

# M<sup>c</sup>Call's MATOBAR WELDED FABRIC REINFORCEMENT



Unrolls like a carpet  
... and lies as flat!

"Matobar" Welded Fabric Reinforcement as supplied in roll form has several advantages, amongst which is the facility with which it can be unrolled and, by a special manufacturing technique, lies flat without further trouble.

We still supply "Matobar," of course, in the original form of flat mats.



## reinforcement by McCALL'S

McCALL & CO. (SHEFFIELD) LTD.  
TEMPLEBOROUGH SHEFFIELD  
and at LONDON

LONDON LANDMARKS FROM THE AIR



Pre-war photo by  
Aerofilm Ltd.

## SHELL-MEX HOUSE

Built on the site of the famous Hotel Cecil, Shell-Mex House is an excellent example of the modern office block.

It has eleven floors in the north block and fifteen in the south, with a tower rising 200 ft. above the Embankment.

It is of technical interest in being built to a "module" of 25 ft., and the 8,000 tons of steelwork was erected at the rate of more than 400 tons a week.

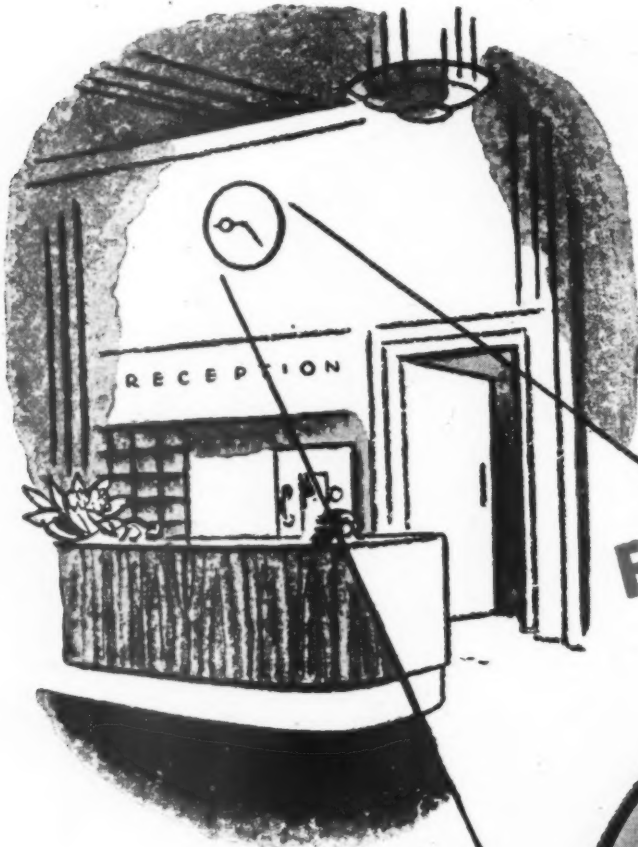
DORMAN LONG & CO. LIMITED, MIDDLESBROUGH  
London Office: Terminal House, 52 Grosvenor Gardens, S.W.1

STEELWORK BY

**DORMAN  
LONG**

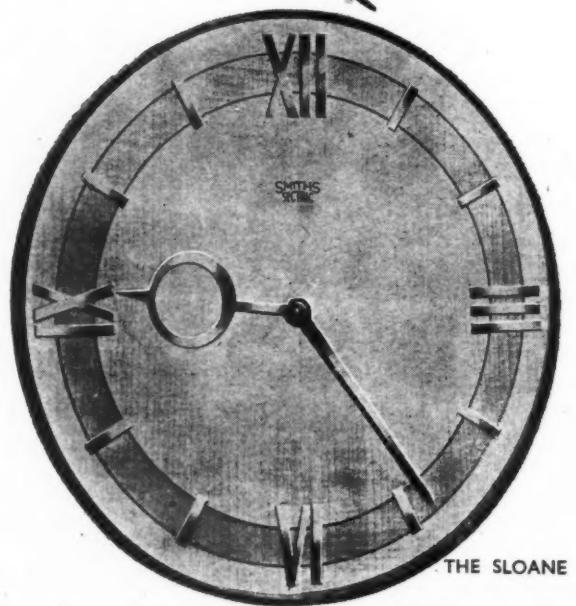






**Making  
the Most of the  
FOCAL POINT**

'SMITHS', the largest manufacturers of Clocks, Watches and Precision Instruments in the world, are always at your service to help you plan unified and efficient timekeeping systems for indoor and outdoor use.



**SMITHS CLOCKS**  
'SECTRIC' & *Hand Wound*

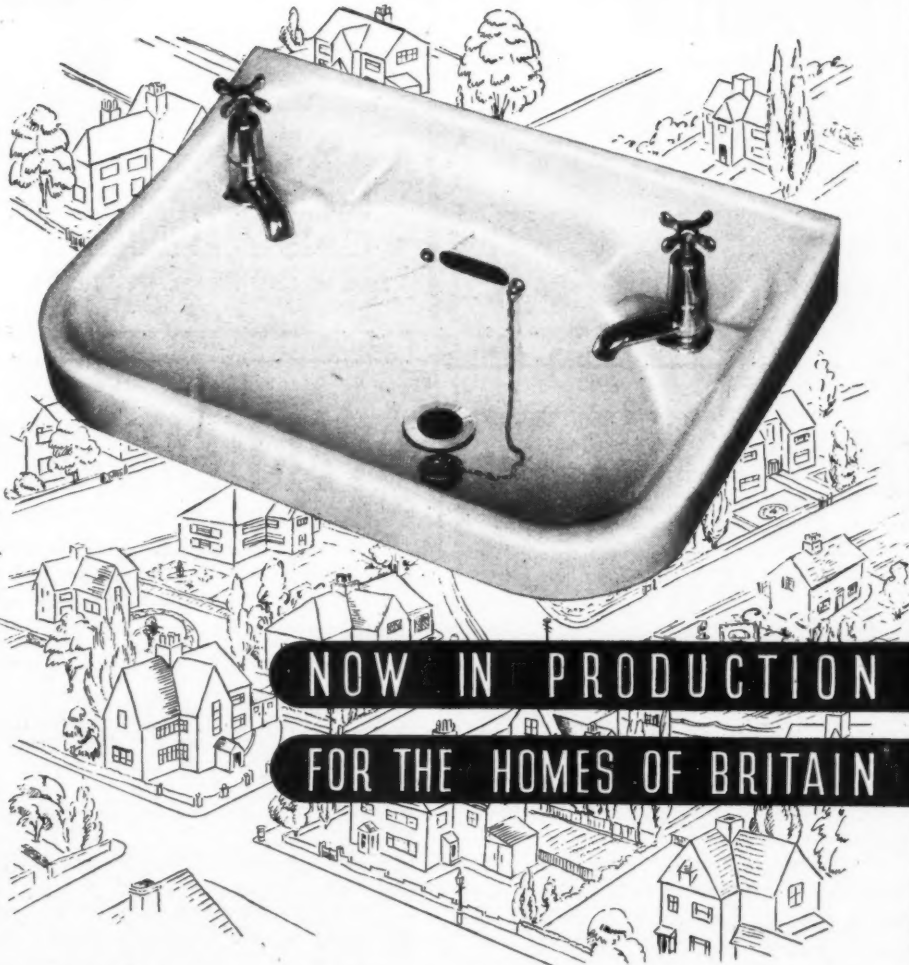


SMITHS ENGLISH CLOCKS LIMITED SECTRIC HOUSE, LONDON, N.W.2.  
The Clock & Watch Division of S. Smith & Sons (England) Ltd.



# FISHLOW

## VITREOUS ENAMELLED WASH BASINS



NOW IN PRODUCTION

FOR THE HOMES OF BRITAIN

FISHER & LUDLOW LIMITED • BIRMINGHAM



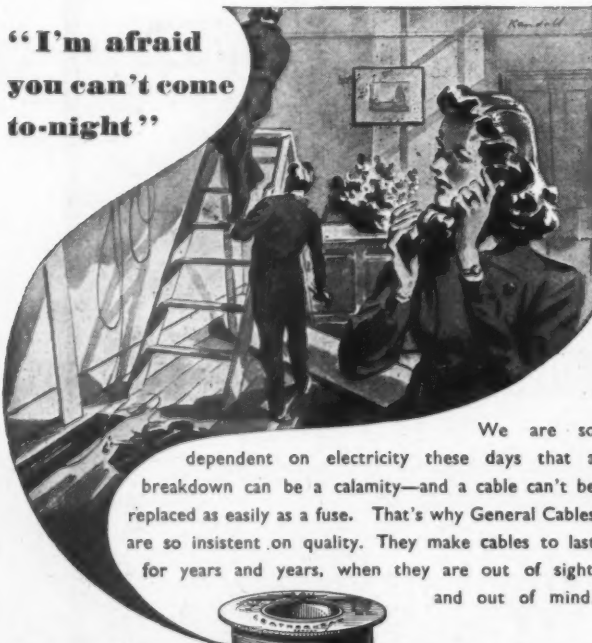
WHEN you paint new houses or redecorate old ones, be sure you use paints of lasting quality. Gradually increasing supplies should enable you to specify

**ASTRIUM**  
super-gloss paint  
**ASTREX**  
oil-bound washable water-paint

Our technicians and laboratory workers are at your service on all industrial and decorative paint problems.

SHERWOODS PAINTS LTD Established 1777  
BARKING, ESSEX. TEL.: RIPPLEWAY 3001

"I'm afraid  
you can't come  
to-night"



We are so dependent on electricity these days that a breakdown can be a calamity—and a cable can't be replaced as easily as a fuse. That's why General Cables are so insistent on quality. They make cables to last for years and years, when they are out of sight and out of mind.



GOOD CABLES TO-DAY REDUCE TROUBLE TOMORROW

**GENERAL CABLES**

General Cable Manufacturing Co., Ltd., Leatherhead, Surrey

Specify General Cables through your contractor.



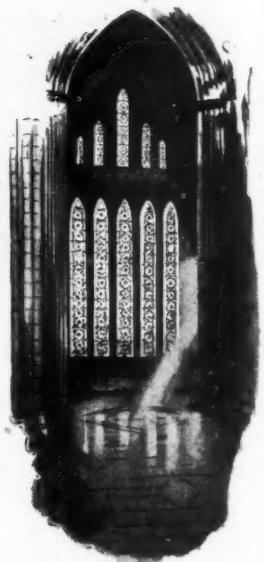
Telephone: Leatherhead 3021-4  
Telegrams: "Isolde," Leatherhead

**FAMOUS WINDOWS**

Lancet windows grouped under one great arch. How masterfully is the rich splendour of stained glass framed in the "Five Sisters" Window of York Minster . . .

OUR task is to produce windows not of magnificence and grandeur but windows that will help to solve the pressing Housing needs . . . windows well and soundly made . . . windows by the thousand . . .

How we are playing our part in solving this problem is explained in a Brochure "Scotney Standard Windows." May we send you a copy?



**SCOTNEY** Joinery

TOM. M. SCOTNEY, ST. IVES, HUNTS. TEL. 3168-9

**OVERHEAD RUNWAYS  
& CONVEYORS**

**LOCKERBIE & WILKINSON**  
(TIPTON) LTD.  
**TIPTON - STAFFS**

*Equipment for  
Sliding Doors*

LONDON OFFICE - 25 VICTORIA ST, S.W.1. PHONE ABBEY 4796

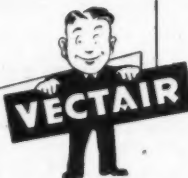
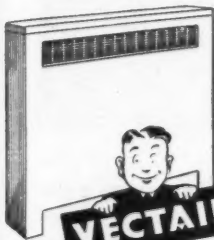


**PUSHING  
HOT AIR  
AROUND**

*is our business*

It's probably your business too, as an Architect or Heating Engineer.

The heating of air is our business . . . convection heating by steam, low pressure hot water, high pressure hot water, or electricity.



High-efficiency ratings are obtained through the construction of the heating coil itself. The primary tubes are expanded through a number of non-ferrous fins. This provides a positive metal to metal contact and thus ensures maximum heat output.

Three main types of unit are available, the Vectair, the Univectair and the Projectaire. Each type is available in a wide range of sizes and outputs.

THE VECTAIR is designed for warming residences, offices, flats, schools, hospitals, etc. This is a pure convection heater of the natural draught type ensuring constant circulation of warm air which penetrates into every corner.



UNIVECTAIRS are suspended type forced-air heaters for factories, halls, warehouses, or for industrial application, such as drying chemicals, pigments, bricks, textiles, furs, barrels, fruit, etc. These are highly efficient units; the air passes over heating coils and is forced through curved louvres, ensuring directional air flow by means of an electrically operated fan.



PROJECTAIRES are an extension of the Univectair principle, but are suspended directly above the area to be heated. They are particularly suitable for high mounting.

*Hot air is our business. If yours is a hot air problem why not get into touch with us.*

**BRITISH TRANE CO. LTD**

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

Telephone: Clerkenwell 6864 & 3826

Telegrams: Enartrane, Smith, London.

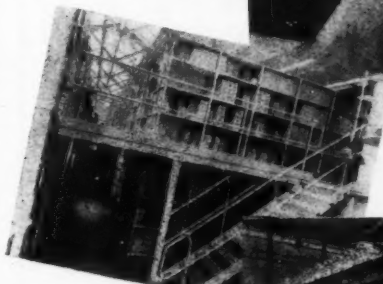
**interior  
equipment  
for factories  
and offices**



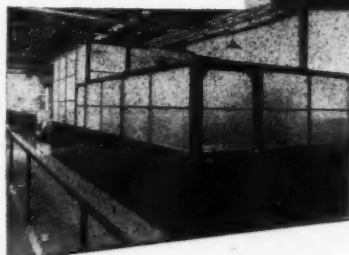
OCCUPATIONAL SEATING



STEEL CLOTHES LOCKERS



STEEL STORAGE EQUIPMENT



STEEL PARTITIONING FOR WORKS AND OFFICES

**EVERTAUT  
LIMITED**

(PROPRIETORS: J. B. BROOKS & CO. LTD.)

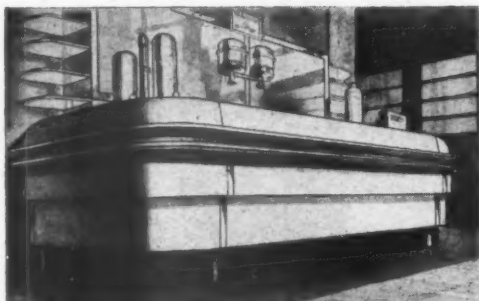
WALSALL ROAD, PERRY BARR,  
BIRMINGHAM, 22B



STEEL STACKING CHAIRS AND CANTEEN TABLES



## Service Counters *for* CAFES, SNACK BARS CANTEENS & RESTAURANTS



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

# Henderson

THE HENDERSON SAFETY TANK CO. LTD.  
ELSTREE WAY, ELSTREE, HERTS - Phone: ELSTREE 1758 (3 lines)



becomes

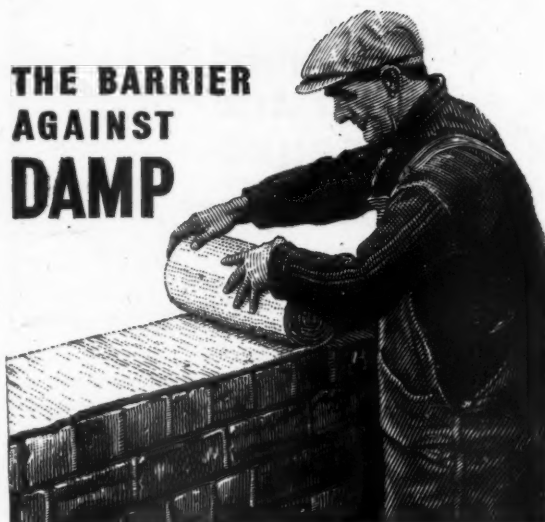
You'll agree there's nothing like the Washable Distemper you've always known as DEX. So that there shall be nothing like its name either, DEX will in future be known as DEZ.

X into Z still equals a first class Washable Oil Bound Distemper suitable for houses and public buildings alike — an Apac product manufactured by



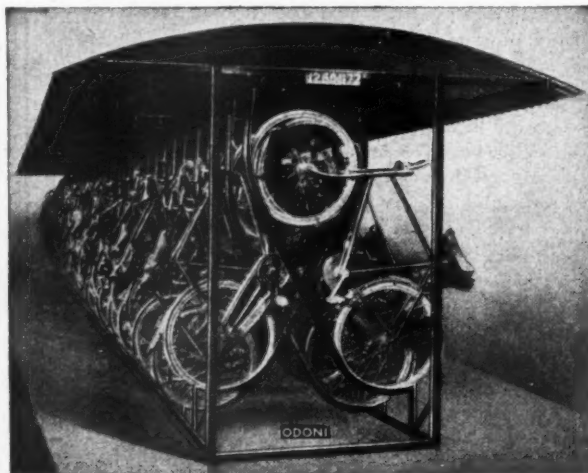
ALLIED PAINTS & CHEMICALS LTD., TYSELEY, BIRMINGHAM 11

## THE BARRIER AGAINST DAMP



## AQUALITE BITUMEN DAMPCOURSE

WILLIAM BRIGGS & SONS, LTD.,  
DUNDEE AND LONDON  
*Branches throughout the Country*



**ODONI** PATENT

## ALL-STEEL BICYCLE STANDS

*Write for fully illustrated catalogue*

VARIOUS TYPES TO SUIT REQUIREMENTS

*Sole Manufacturers and Patentees:*

**ALFRED A. ODONI & CO. LTD.**  
SALISBURY HOUSE : FINSBURY CIRCUS  
**LONDON, E.C.2**

Telephone:  
MONarch  
8638/9

WORKS : LONDON, S.W.

Telegrams:  
"Odoni, Ave  
London"



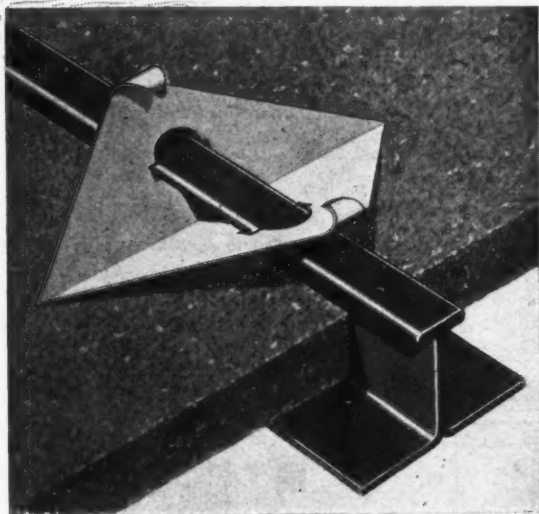


## FIRM-AS-A-ROCK FIXING for Building Boards

ASSURED WITH THE

SUNDEALA

## METAL "V" CLIP



This simple, foolproof fixing method evolved by SUNDEALA, enables any type or thickness of interior wall or ceiling board to be rapidly and permanently erected without the use of bolts and screws. As illustrated, slotted "V" section steel clips threaded on a flanged T section bar hold the boards in a vice-like grip. Once fixed they cannot be loosened either by vibration or atmospheric changes.

Full details and information sheet on request.



SUNDEALA BOARD CO. LTD., ALDWYCH HOUSE, W.C.2. Phone: CHAncery 8159  
Works: Sunbury-on-Thames, Middx.

Members of Building Board Manufacturers' Association



## TRINIDAD MASTIC ASPHALT

(In Accordance with B.S.I. Specifications)

FOR  
BRITAIN'S  
NEW HOUSES

THE  
**LIMMER & TRINIDAD**

LAKE ASPHALT CO., LTD.

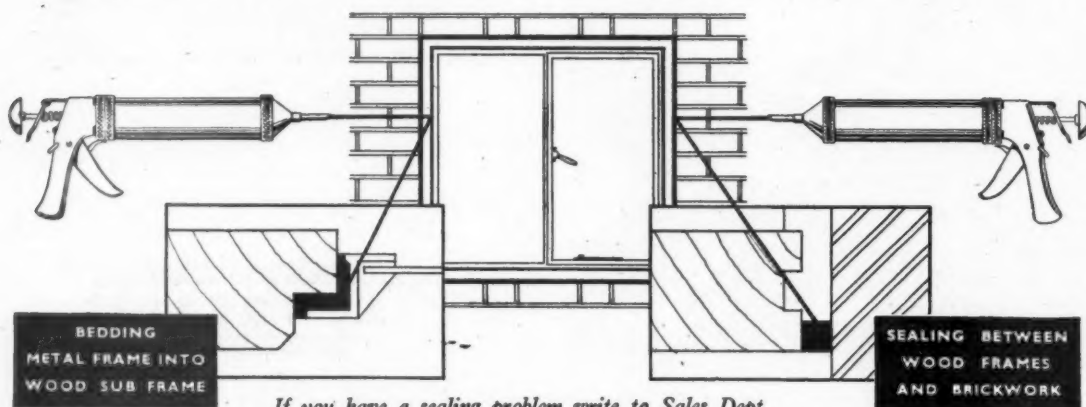
STEEL HOUSE, TOTHILL ST., WESTMINSTER, LONDON, S.W.1

TELEPHONE: WHITEHALL 6776

## The MODERN METHOD of SEALING WINDOW FRAMES

FOR sealing wood and metal window frames Secomastic possesses many advantages over traditional jointing compounds, the most important of which are permanent elasticity and tenacious adhesion to all building materials. Secomastic offers complete resistance to heat, cold, moisture, acidity or alkalinity.

Secomastic will not slump in a vertical joint or seep into and stain porous materials. It is easily applied with great speed and precision by Seco hand or air-operated gun, and can be painted any colour within 24 hours of application. Joints sealed with Secomastic permanently withstand shrinkage, expansion and shock.



*If you have a sealing problem write to Sales Dept.*

**SECOMASTIC LIMITED**

25, UPPER BROOK STREET, LONDON, W.1.

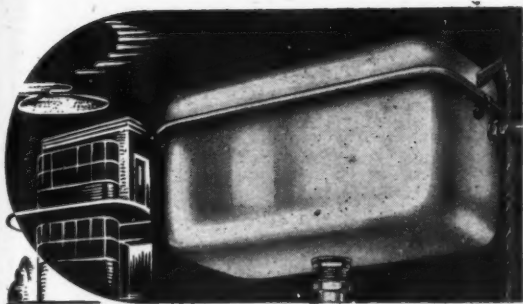
Phone: Mayfair 9080.

**MEMO**  
*New Housing Estate*  
*Order 6" Expamet*  
*for concrete rafts & roads,*  
*X Enquire about their*  
*new X.P.M. high tensile*  
*welded fabric*

*nds*  
*17/6*  
*Wednesday*  
*89 yds*

**THE EXPANDED METAL COMPANY LIMITED**  
 BURWOOD HOUSE, CAXTON STREET, S.W.1. PHONE WHITEHALL 1736

See our Exhibit at the  
 BUILDING CENTRE,  
 9, CONDUIT STREET, LONDON, W.1  
 and at Birmingham, Glasgow, Manchester, West Hartlepool, Aberdeen, Belfast, Cambridge, Cardiff, Exeter & Leeds



*In Line with Modern Times...*

Concordant with new design conception, and mechanically ingenious, the FORDHAM has fewer moving parts than any other cistern.

The FORDHAM copper syphon requires only an inch and a quarter movement of its unobtrusive chain lever to quietly produce an instantaneous flush. Send your card today for full details.

**Fordham**

Seamless Steel Flushing Cistern.

FORDHAM PRESSINGS LIMITED, DUDLEY ROAD, WOLVERHAMPTON. Phone: Wolverhampton 23861

**COLOUR**

*in industry*

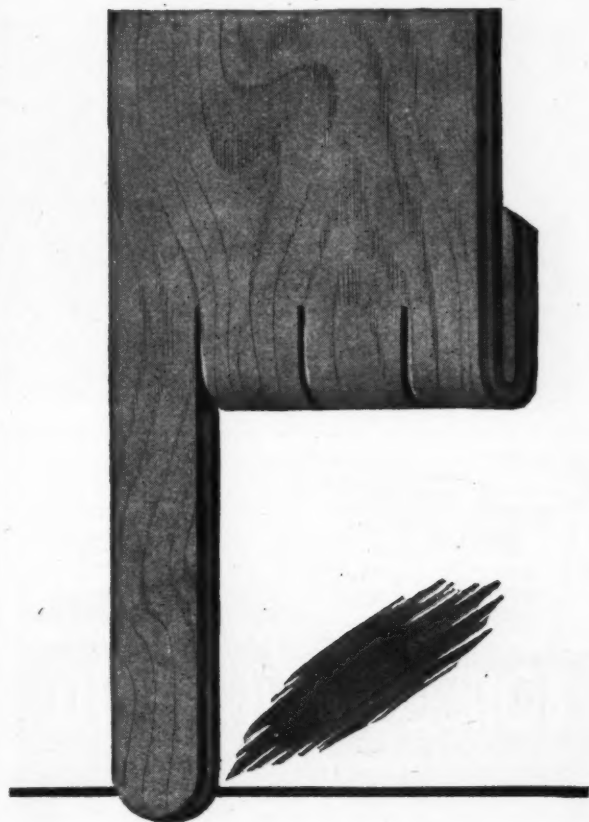


Increase production, boost sales and cut lighting costs with the only completely streamlined self-contained Fluorescent Fitting in the world. Gives 360° of uninterrupted illumination—delivered complete for immediate installation—to highest B.S. Specifications.

**Miller-Hepworth**

FLUORESCENT LIGHTING

Miller-Hepworth Ltd., Lee St., Oldham, Lancs.



FOR **PLYWOOD**

AND **PLYMAX**

**VENESTA**

Venesta Birch plywood had an exceptional reputation before the war. For nearly fifty years it had a consistency and standard upon which architects and builders could rely. It was precisely graded to suit particular jobs. It was extraordinarily versatile. It will return as good as ever.

PLYMAX, THE METAL-FACED PLYWOOD IS AVAILABLE NOW

Do you remember these Venesta Plywood grades? SPECNOT—SUMNOT—PLUGNOT—MORNOT—BIGNOT

VENESTA LIMITED • Vintry House • Queen Street Place • E.C.4  
Telephone: Central 3060





## NEW AND INTERESTING PENCIL TECHNIQUES

are demonstrated in a series of 10 pencil perspectives by R. Myerscough-Walker, lithographic reproductions and descriptions of which may be obtained for 2/6 the set, post free, from:

EAGLE PENCIL COMPANY, LONDON, N.17



EP3

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



**BONE, CONNELL & CO. LTD.**  
NETHERTON WORKS, WISHAW, LANARKSHIRE.  
TELEPHONE WISHAW 141 & TELEGRAMS NETHERTON WISHAW

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

**"P.L.C." SLIDE RULES**

Manufacturers of  
HIGH GRADE DRAWING and SURVEYING INSTRUMENTS  
SLIDE RULES, DRAWING MATERIALS  
DRAWING OFFICE STATIONERY

**A. G. THORNTON LTD**  
*Drawing Instrument Specialists*  
41 GARTSIDE ST. MANCHESTER 3.

## "A. B. S." HOUSE PURCHASE LOANS

### ALTERNATIVE SCHEMES

1. Normal advance 80% of Valuation. Interest 4% gross. (Borrower pays Survey Fee and Legal Costs totalling 1½% of Loan.)
2. Normal Advance 85% of Valuation. Interest 4½% gross. (Office pays Survey Fee and Own Legal Charges.)

REPAYMENT by means of an Endowment Assurance term not exceeding 25 years under (1) or 30 years under (2).

Particulars from:—

The Secretary,  
**A.B.S. INSURANCE DEPARTMENT**  
66, Portland Place, London, W.1.  
Tel: WELbeck 5721.



*AGAIN at your Service*

**Cabot's  
Quilt**

MADE IN ENGLAND

Detailed technical information in regard to Thermal and Sound Insulation, for Housing and other work, gladly sent upon request.

**HUNTLEY & SPARKS  
LTD.**

De Burgh Rd., S. Wimbledon  
LONDON, S.W.19  
Telephone: L1Berty 2446

**SOUND**

**DEADENING • THERMAL INSULATION • ACOUSTICAL WORK**



# SECODEK

(REGD)

## ROOF UNITS

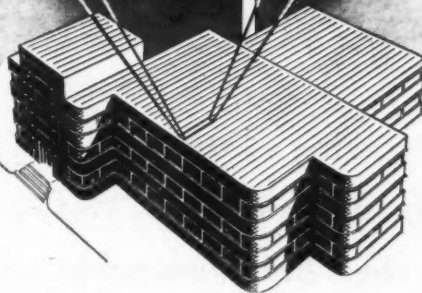
35,000 SQUARE FEET  
REQUIRES ONLY ONE  
STANDARD OF TIMBER

*- Immediate Delivery*

ASBESTOS  
BOTH SIDES

SAVES  
FUEL

WOODWOOL &  
CEMENT CORE



**M**ore and more Architects and Builders are specifying SECO Roof Units; they offer High Thermal Insulation, durability, moderate cost, ease of handling, speedy erection—in short, the ideal roofing material and we can give Immediate Delivery. Please write for fuller information to Building Materials Division.

A  
**UNI-SECO**  
PRODUCT

UNI-SECO LTD. 25 UPPER BROOK STREET, LONDON W.1. Tel MAYfair 9080.

## Emblem of Quality



## ARMOUR BRAND

*for*

*Protection*

*Durability*

*and Finish*

## Griffiths Bros. & Co

London Limited

PAINT, ENAMEL & VARNISH SPECIALISTS

MACKS ROAD, BERMONDSEY, SE16

TEL. BERMONDSEY 1151

## THE FACULTY OF SURVEYORS OF ENGLAND

(Limited by Guarantee)

Incorporated as a Professional Centre

President, 1946/47

H. H. Murray, P.F.A.S., F.F.S.(Eng.)

### Objects

Incorporated as a professional Centre to uphold and improve the status of Surveyors and Quantity Surveyors engaged in the Building and Allied Trades. To regulate, maintain and extend the customs and usages of the profession. To maintain and improve the high standard of professional etiquette, and to promote among its members a sense of professional solidarity. To provide for its members principles of professional procedure, a Scale of Professional Charges, and to subscribe to the Rules of Professional Conduct. To hold examinations qualifying for membership of the Faculty. To publish a monthly Journal to the general interest of the profession, and for the mutual co-operation, assistance and protection of practitioners

### Designatory Letters of Surveyors

F.F.S. (Eng.) for Fellows	} Designated
A.F.S. (Eng.) for Associates	
L.F.S. (Eng.) for Licentiates	
and for Quantity Surveyors	

F.F.S. (Eng.) (Quant.) for Fellows	} Designated
A.F.S. (Eng.) (Quant.) for Associates	
L.F.S. (Eng.) (Quant.) for Licentiates	
Incorporated Quantity Surveyors	

### Membership

The Executive Council are open to receive applications for membership on practice qualifications from Surveyors engaged in the profession. Examinations are held Bi-Annually for entrance to the Quantity Surveyors section.

Further particulars and application forms may be obtained on application to THE SECRETARY, (d).

## THE FACULTY OF SURVEYORS OF ENGLAND

8, Buckingham Palace Gardens, London, S.W.1

Telephone: SLOane 2837

## 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.I.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"

**At the annual General Meeting of the  
Dunlop Rubber Company Limited, June 11th, 1947,  
Sir J. George Beharrell, D.S.O., the Chairman, said:**

"The war years have proved to all types of users that Dunlopillo is not only the most comfortable and hygienic type of upholstery, but also the longest lasting and most trouble-free. It is a Dunlop invention of which we are justly proud and for which we are planning a considerable expansion at home and abroad."



# DUNLOPILLO

THE ORIGINAL LATEX FOAM CUSHIONING

DUNLOP RUBBER CO. LTD. (Dunlopillo Div.), RICE LANE, WALTON, LIVERPOOL, 9  
and at 1, ALBANY STREET, LONDON, N.W.1

## CLASSIFIED ADVERTISEMENTS

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

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

## Public and Official Announcements

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

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

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

Applications are invited for positions in the following grades:—

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

TECHNICAL ASSISTANT, up to £500 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) 535

BEDFORDSHIRE COUNTY COUNCIL.  
APPOINTMENT OF COUNTY PLANNING  
OFFICER.

Applications are invited for the permanent appointment of County Planning Officer.

The salary will be £1,250 per annum, rising by annual increments of £50 to a maximum of £1,500 per annum; plus cost-of-living bonus (at present £59 16s. per annum).

The successful candidate must provide a motor car for use in connection with his duties, in respect of which an allowance under the Council's scale will be paid to him.

He will be required to reside in the County. Candidates must be Corporate Members of the Town Planning Institute, and have had considerable experience in the preparation and administration of planning schemes. Preference will be given to persons who also possess a recognised qualification in architecture, civil engineering, or surveying.

The person appointed will be required to devote the whole of his time to the service of the Council, and will not be allowed to engage in private practice.

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

The appointment will be terminable by three months' notice on either side, and will be subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

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

Application forms, which may be obtained from the undersigned, must be completed and returned in envelopes marked "County Planning Officer," not later than 15th August, 1947.

J. B. GRAHAM,  
Clerk of the County Council.

Shire Hall, Bedford. 824

2nd July, 1947.

## ROYAL TECHNICAL COLLEGE, SALFORD.

Acting Principal: H. H. CLAPHAM, B.Sc.(Lond.), M.I.Struct.E., M.R.S.I.

## APPOINTMENT OF HEAD OF THE BUILDING AND CIVIL ENGINEERING DEPARTMENT.

Applications are invited for the post of Head of the Building and Civil Engineering Department of the College. The salary scale is in accordance with Grade II for Heads of Departments under the Burnham Technical Report, £750 to £850 per annum.

Candidates should possess an Honours Degree, or equivalent, with Structural Engineering as one of the subjects of the final examination, and should have had teaching and industrial experience. Experience of the administration of a department of a Technical College will be regarded as an additional qualification.

Forms of application, together with further particulars of the appointment, may be obtained from the Acting Principal, Royal Technical College, Salford. 5, to whom they should be returned as soon as possible.

H. H. TOMSON,  
Clerk to the Governors. 886

LEEDS SCHOOL OF ARCHITECTURE  
(LEEDS COLLEGE OF ART).

Applications are invited for the post of SENIOR ASSISTANT, at the Leeds School of Architecture.

Candidates should have been trained in a recognized school of architecture and be Associates of the R.I.B.A.

Salary scales: Men, £600—£225—£750; women, £480—£20—£600. Additions to the scales for architectural school training.

Further particulars and application forms may be obtained by sending stamped addressed foolscap envelope to the Director of Education, Education Offices, Leeds, 1. 849

## BOROUGH OF HARWICH.

## SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant, in the Department of Borough Architect and Planning Officer.

Applicants should have good experience in housing and other works.

The successful candidate will be offered housing accommodation if desired.

The salary will be £360—£15—£405 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

The appointment will be subject to the conditions set out in the form of application, which form may be obtained from the undersigned, to whom it should be returned, accompanied by copies of not more than two testimonials or the names and addresses of two referees, by not later than Wednesday, 30th July, 1947, in envelopes endorsed "Senior Architectural Assistant."

Dated this 11th day of July, 1947.

G. F. CONGDON,

Town Clerk. 890

COUNTY BOROUGH OF WEST BROMWICH.  
BOROUGH SURVEYOR'S DEPARTMENT.

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

(a) ASSISTANT ARCHITECT, Grade VI. Basic salary scale, £535 to £600 per annum.

(b) ASSISTANT ARCHITECTS, Grade V. Basic salary scale, £460 to £510 per annum.

(c) ASSISTANT ARCHITECTS, Grade IV. Basic salary scale, £420 to £465 per annum.

The salary for each of the posts will be subject to the increase of a bonus, at present £59 16s. per annum.

Applicants must be registered Architects, and preference will be given to Associate Members of the Royal Institute of British Architects.

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

Applications, appropriately endorsed, stating age, qualifications, experience, present and past appointments, together with not more than three recent testimonials, should be delivered to the Borough Engineer and Surveyor, Town Hall, West Bromwich, not later than the 2nd August, 1947.

H. SCHOFIELD, B.Sc.(Eng.),

A.M.Inst.C.E.,

Borough Engineer and Surveyor.

Town Hall, West Bromwich. 887

9th July, 1947.

## BOROUGH OF BEXLEY.

BOROUGH ENGINEER'S DEPARTMENT.  
ARCHITECT'S SECTION.

Applications are invited for the following appointments:—

(1) FIRST ASSISTANT ARCHITECT (EDUCATION), A.P.T. Division, Grade VII. Salary £575—£25—£650 p.a. Commencing salary to be fixed according to qualifications and experience. Candidates must be Associates of the Royal Institute of British Architects, and have had considerable experience in the design of Schools and other public buildings.

(2) ARCHITECTURAL ASSISTANT. A.P.T. Division, Grade III or IV. Salary £390—£15—£465 p.a. or £420—£15—£465 p.a. Candidates must be either Associates of the Royal Institute of British Architects or be in an advanced stage of preparation for the final examination of that Institute, and must have had considerable experience in the preparation of working drawings and the inspection of works in progress.

In each case a cost-of-living bonus amounting to £59 16s. p.a., plus London weighting allowance of £20 p.a., will be paid in addition to the salary.

The appointments will be subject to:—

(1) The National Conditions of Service for Local Authorities' Administrative, Professional,

Technical and Clerical Staff;

(2) The Local Government Superannuation Act, 1937;

(3) Termination by one month's notice on either side; and

(4) The candidates to be appointed satisfactorily passing a medical examination by the Council's medical officer of health.

Applications, stating age, present and previous appointments and experience, supported by copy testimonials, must be received by the Borough Engineer and Surveyor, Council Offices, Bexleyheath, by the 4th August, 1947.

Applicants must disclose whether to their knowledge they are related to any member or the holder of any senior office under the Council. Failure to do so or canvassing in any way will disqualify.

W. WOODWARD,

Town Clerk. 898

Council Offices, Bexleyheath, Kent.

li

BOROUGH OF LEYTON.  
BOROUGH ENGINEER AND SURVEYOR'S  
DEPARTMENT.

Applications are invited for the appointment of a TOWN PLANNING ASSISTANT, at a salary of £420 p.a. rising by annual increments of £15 to a maximum of £465 p.a. (Grade IV of the National Scales), plus £20 p.a. London weighting allowance and £59 16s. p.a. cost-of-living bonus.

Candidates must have had good experience in the preparation and administration of Town Planning schemes, and should possess a recognized qualification in Town Planning. The appointment will be terminable by one month's notice on either side, and will be subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, to the Provisions of the Local Government Superannuation Act, 1937, and the successful candidate may be required to pass a medical examination by the Council's Medical Officer of Health.

The appointment will also be subject to the general conditions laid down by the Council from time to time, including membership of a Trade Union.

Applications, stating age, details of qualifications and experience, together with copies of three recent testimonials, should be delivered to the Borough Engineer and Surveyor in a sealed envelope, and endorsed "Town Planning Assistant," not later than 16th August, 1947.

Canvassing, directly or indirectly, will be a disqualification, and candidates must disclose whether they are related to any member or senior officer of the Council.

D. J. OSBORNE,

Town Clerk. 921

## TOWN HALL, LEYTON, E.10.

ESSEX COUNTY COUNCIL.  
COUNTY LAND AGENT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT ARCHITECT AND BUILDING SURVEYOR, Grade II, £360 per annum, rising by annual increments of £15 to £405 per annum, and in addition there will also be paid such war bonus (if any) as the Council may from time to time decide. The amount of bonus at present payable is at the rate of £59 16s. per annum.

Candidates should be good draughtsmen, and have had some experience in architecture or building surveying. Preference will be given to those candidates who have passed or are studying for appropriate professional qualifications. The duties include the preparation of plans and specifications for new farm-houses and farm-buildings, and the alteration and maintenance of existing buildings on the Council's agricultural estates.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination to the satisfaction of the Council.

The Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services is at present applicable to persons appointed on the established staff.

Applications must be made on a form to be obtained from the County Land Agent, 69, Duke Street, Chelmsford, and returned to him completed, together with copies of not more than three testimonials, not later than Friday, 8th August, 1947.

Canvassing, either directly or indirectly, is forbidden.

JOHN E. LIGHTBURN,

Clerk of the County Council.

County Hall, Chelmsford. 930

11th July, 1947.

CITY AND COUNTY OF THE CITY OF  
EXETER.

Applications are invited for the appointment of CHIEF ASSISTANT ARCHITECT, on the permanent staff of the City Architect's Department.

Salary will be in accordance with A.P.T. Grade VIII, the actual commencing salary in this grade being determined according to experience and qualifications. Cost-of-living bonus, at present £59 16s. 3d. per annum, will also be paid.

Housing accommodation will be found for the successful applicant.

Candidates should be Associate Members of the Royal Institute of British Architects or hold equivalent qualifications. They should be fully experienced in the design, construction and supervision of modern municipal buildings, including housing schemes and schools, and have experience in the administration of a Local Government Architectural Department.

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

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

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, and the earliest possible date when available, together with copies of recent testimonials, should be sent to H. B. Rowe, F.R.I.B.A., A.M.I.Struct.E., City Architect, 2, Southernhay West, Exeter, not later than 31st July, 1947.

C. J. NEWMAN,

Town Clerk.

Exeter. 899

10th July, 1947.



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

**ASSISTANT ARCHITECTS.**  
Applications are invited for the appointment of Assistant Architects. Basic salary £460, rising to £510 per annum, plus cost-of-living bonus, at present £60 per annum.

Candidates should be Associates of the Royal Institute of British Architects, and have had a thorough training in design and construction, preferably at a school of architecture, and be experienced in the preparation of sketch plans, working drawings, and details.

Applications from candidates who have recently obtained a degree or diploma of a recognised school of architecture will be considered at a lower commencing salary, dependent on the qualifications and experience of the applicant.

The successful candidates will be required to pass a medical examination before the appointment is confirmed, and to contribute to the Corporation's superannuation fund, and to execute the Corporation's Deed of Service.

Applications on the official form, which can be obtained from the City Architect's Department, must be returned, together with not more than three recent testimonials, to Leonard C. Howitt, B.Arch., Dip.T.P., D.P.A., F.R.I.B.A., A.M.T.P.I., City Architect, Town Hall, Manchester, by Monday, 18th August, endorsed "Assistant Architect".

Canvassing in any form, oral or written, direct or indirect, is prohibited, and will be regarded as a disqualification.

PHILIP B. DINGLE, Town Clerk.

Town Hall, Manchester, 2.  
July, 1947. 917

**BOROUGH OF DARTFORD.  
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

**APPOINTMENT OF QUANTITY SURVEYOR.**  
Applications are invited for the above appointment, at a salary in accordance with the A.P.T., Grade V, of the National Scale, namely £460 to £510, plus cost-of-living allowance, at present £59 16s. per annum.

Applicants should be Chartered Quantity Surveyors, experienced in preparation of bills of quantities, measurement of work, variations, and settlement of final accounts for extensive building operations. The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass satisfactorily a medical examination.

Applications, stating age, qualifications and experience, with copies of three recent testimonials, must be delivered to me, the undersigned, not later than 12 noon on Saturday, the 9th August, 1947, and endorsed "Quantity Surveyor".

THOMAS ARMSTRONG, Town Clerk.

Town Clerk's Office, Dartford, Kent.  
14th July, 1947. 909

**SHIPLEY URBAN DISTRICT COUNCIL.**

Appointments of:

(a) ARCHITECTURAL ASSISTANT.

(b) TWO ENGINEERING ASSISTANTS.

Applications are invited for the following posts, on the permanent establishment of the Surveyor's Department:—

(a) Architectural Assistant, Grade III, A.P.T. Division. A house to rent will be made available to the successful applicant.

(b) Engineering Assistant, Grade II, A.P.T. Division. A house to rent will be made available to the successful applicant.

(c) Engineering Assistant, Grade I, A.P.T. Division.

Each appointment is subject to the National Scheme of Conditions of Service, etc., and current cost-of-living bonus is payable.

Applicants for appointment (a) should be members of the Royal Institute of British Architects, and have a thorough knowledge of architectural work, practical experience in the development of housing schemes, design of houses and public buildings, pick and accurate draughtsmanship. Ability in taking off quantities will be an advantage.

Applicants for appointment (b) should hold the Testamur of the Institute of Municipal Engineers or other similar qualifications, and have a general knowledge and experience in the design and construction of Municipal Engineering Works, and should be accustomed to the preparation of plans, estimates, quantities and specifications, and also setting out and supervision of works carried out by contract and direct labour.

Applicants for appointment (c) should have taken the Intermediate Examination for the Testamur of the Institute of Municipal Engineers. They should be capable of making surveys, preparing plans, estimates and quantities, and setting out works.

All three of the appointments will be terminable by one month's notice on either side. Successful candidates will be required to pass a medical examination.

Canvassing, directly or indirectly, will disqualify a candidate. Applications, endorsed "Architectural Assistant" or "Engineering Assistant (b)" or "Engineering Assistant (c)", stating age, training, qualifications and experience, together with the names of three persons to whom reference can be made, should be forwarded to the undersigned not later than the 16th August, 1947.

HAROLD S. HASLAM, Clerk of the Council.

Town Hall, Shipley.  
15th July, 1947. 916

**MINISTRY OF WORKS.**

**ARCHITECTURAL ASSISTANTS** are required for Drawing Office duties at Westcott, Berkshire. The posts are in an unestablished capacity, with possibility of permanent appointment, and the inclusive salary is up to £460 per annum, according to age and experience. Applicants should have had a recognized period of training and experience with a practising Architect or Local Authority, etc. Hostel accommodation may be available if required.

Apply in writing, giving age, details of training and experience, to Chief Architect, W.G.10, Ministry of Works, Abell House, John Islip Street, London, S.W.1.  
Ministry of Works. 893

**SWADLINGTON DISTRICT URBAN DISTRICT COUNCIL.**

**APPOINTMENT OF ARCHITECTURAL ASSISTANT (TEMPORARY).**

Applications are invited for the position of Architectural Assistant in the Office of the Surveyor to the Council. The appointment is to the temporary staff, and (subject to satisfactory service) for a period of 4 years in the first instance. Salary in accordance with Grade III of the A.P. and T. Division of the National Joint Council's Scales of Salaries, plus the current cost-of-living bonus.

Applicants should hold the Intermediate Examination of the R.I.B.A. or equivalent qualification. Experience of field survey work and Town Planning will be an added advantage.

Applications, stating age, training, experience, past and present appointments, and date available, should be addressed to the undersigned, not later than Saturday, 16th August, 1947. Copy testimonials will not be required in the first instance, but candidates should give the names of three persons to whom reference can be made.

Canvassing, directly or indirectly, will disqualify. Candidates must in their applications state if to their knowledge they are related to any member or the holder of any senior office under the Council.

A house which is in the course of erection will be allocated to the successful candidate if required.

S. ASHTON STRAY, Clerk of the Council.

Clerk's Office, Swadlincote, near  
Burton-on-Trent.  
15th July, 1947. 918

**BOROUGH OF NEWBURY.  
APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant, in the Borough Surveyor's Department. The salary will be in accordance with the National Scale, A.P.T., Grade IV, and if necessary a house will be made available for the successful applicant. The appointment is a permanent one, and will be subject to the provisions of the Superannuation Act. Applications, stating qualifications and experience, together with copies of three recent testimonials, should be forwarded to reach the undersigned not later than 2nd August, 1947.

E. H. HUTTON, A.M.I.C.E., Borough Surveyor.

Municipal Buildings, Newbury.  
908

**CITY OF NOTTINGHAM.  
CITY ENGINEER'S DEPARTMENT.**

Applications are invited for the posts of ARCHITECTURAL ASSISTANTS, as follows:—

(1) Salary according to National Scale, A.P.T., V, £460, rising by annual increments to £510. Candidates must have passed examinations for A.R.I.B.A., and have a thorough knowledge of school work.

(2) Salary according to National Scale, A.P.T., IV, £420, rising by annual increments to £465. Candidates must have passed the examinations for A.R.I.B.A., and have a good general experience in Architectural work.

The commencing salary of each appointment will be in accordance with the experience of the candidate selected, plus cost-of-living bonus, at present £59 16s. per annum.

Applications, stating the appointment applied for, are to be on forms to be obtained from Mr. R. M. Finch, O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, and are to be returned to him not later than Friday, 22nd August, 1947.

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

J. E. RICHARDS, Town Clerk.

The Guildhall, Nottingham.  
14th July, 1947. 919

**CROWN AGENTS FOR THE COLONIES.**

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

**ARCHITECTURAL DRAUGHTSMAN** required by the Iraqi State Railways for three years in the first instance. The post is not pensionable, but there is a Provident Fund. Salary between I.D.40 and I.D.50 a month, according to qualifications and experience, plus high cost-of-living allowance of between I.D.11½ and I.D.15 a month, according to salary and dependants (I.D.1 = £1). Free passages. Candidates must have had a good civil engineering experience, particularly in the drawing office. 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/12654 on both letter and envelope. 899

**BOROUGH OF KEIGHLEY.  
BOROUGH ARCHITECT'S AND HOUSING DEPARTMENT.**

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT. The salary for the position will be in accordance with Grade III, A.P. and T. Division of the National Scheme for Local Government Officers, viz., £396. £435 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

The appointment will be subject to the Corporation's Conditions of Service and Superannuation Scheme, and the successful candidate will be required to pass a medical examination.

Applications, stating age, previous experience, etc., and accompanied by two recent testimonials, must reach the undersigned not later than Tuesday, 5th August, 1947.

ERIC G. FELGATE, A.R.I.B.A., Borough Architect.

Borough Architect's and Housing Department,  
College Street, Keighley, Yorkshire.  
11th July, 1947. 906

**ARCHITECTURAL ASSISTANTS REQUIRED BY MINISTRY OF WORKS.**

Applications are invited to fill vacancies for Drawing Office duties in London. Gross emoluments up to £550 per annum, according to qualifications and experience.

The appointments, which offer good opportunities for advancement, are in the first place in an unestablished capacity, with possibility of permanent appointment. Work is varied, giving ample scope to those seeking further experience in the design of all types of buildings.

Applicants should have had a recognized full period of training and experience with a practising Architect or Local Authority, etc.

Apply in writing, giving age, details of training and experience, to Chief Architect, W.G.10, Ministry of Works, Abell House, John Islip Street, London, S.W.1.  
Ministry of Works. 902

**MINISTRY OF WORKS.**

**VACANCIES FOR FEMALE TRACERS.**

Applications are invited to fill the above vacancies in London. The posts are in an unestablished capacity, but there is possibility of permanent appointment later. The gross emolument for a 45½ hour week, including meal times, from approximately 62s. per week at age of 18 to 95s. per week at age of 27. Consideration would also be given to Learner Tracers below the age of 18 at correspondingly lower rates of pay who have had some experience of tracing. Those without any experience cannot be considered.

The vacancies exist in the Mechanical, Electrical, Sanitary and Structural Engineering Division. Apply in writing, giving full details of age and experience, to Ministry of Works, W.G.10, Abell House, John Islip Street, London, S.W.1.  
Ministry of Works. 904

THE MILK MARKETING BOARD have a vacancy for an ASSISTANT SURVEYOR, having a sound knowledge of building construction, ability to write Specifications of building and alteration works of sub-contractors and working up. The appointment must be regarded as temporary, with twelve months' minimum period of engagement. Commencing salary £500 per annum. An ARCHITECTURAL ASSISTANT is also required, preferably Student R.I.B.A., capable of preparing contract and details drawings and able to carry out surveys. The appointment must be regarded as temporary, with a twelve-month minimum period of engagement. Commencing salary £375 per annum. Apply in writing, giving full details and the earliest date on which employment could be commenced, to the Establishment Officer, Milk Marketing Board, Thames Ditton, Surrey. 903

**Architectural Appointments Vacant**

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

**ARCHITECTURAL ASSISTANT** required immediately in busy London office. Working drawings, details, surveys, specifications and supervision of work. State age, qualifications, experience and salary required to Box 854.

**CAPABLE ASSISTANT** required for general practice in Cumberland, Westmorland, and North Lancashire; able to carry contracts through with very little supervision. C. B. Martindale, A.R.I.B.A., Cathedral Chambers, Castle Street, Carlisle. 911

**ENGINEERS**, with thorough experience in design of reinforced concrete structures, preferably with University degree and/or A.M.I.C.E., or other professional qualifications, required; required at Glasgow, Manchester and Birmingham; positions are of responsibility and will be permanent. Please write, giving full details, to The Trussed Concrete Steel Co., Ltd., 6, Collingham Gardens, Earl's Court, S.W.5. 905



**APPLICATIONS** are invited by the Co-operative Wholesale Society, Ltd., for appointments as **ASSISTANT ARCHITECTS**; applicants should be good draughtsmen, with a sound knowledge of general construction, and experience in commercial and industrial work will be an advantage; salary £420 to £500 per annum, plus cost-of-living bonus of £74 per annum, or £500 to £600 per annum, plus cost-of-living bonus of £100 per annum, according to experience and qualifications; good prospects of promotion for competent assistants; successful candidates will be required to pass a medical examination for entry into compulsory superannuation scheme. Applications, stating educational qualifications and experience, to be addressed to the C.W.S., Ltd., Architect's Dept., 1, Balloon Street, Manchester, 4. 753

**APPLICATIONS** are invited by the Co-operative Wholesale Society, Ltd., for appointments of **STRUCTURAL ENGINEERING ASSISTANTS**, in their Manchester Architect's Department; applicants should have experience in the design and detailing of structural steel, reinforced concrete, and foundation works; salary up to £500 per annum, according to qualifications, plus cost-of-living bonus of £74 per annum; good prospects of promotion for competent assistants; successful candidates will be required to pass a medical examination for entry into compulsory superannuation scheme. Applications, stating age, qualifications and experience, to C.W.S., Ltd., Architect's Department, 1, Balloon Street, Manchester, 4. 754

**WE** are requiring, at Glasgow, Manchester and Birmingham experienced reinforced concrete **DETAILERS** and **DRAUGHTSMEN**; positions are of responsibility, and will be permanent. Please write, giving full details, to The Trussed Concrete Steel Co., Ltd., 6, Collingham Gardens, Earl's Court, S.W.5. 864

**ARCHITECTURAL ASSISTANTS** required immediately, with sound knowledge of construction, and preferably experienced in industrial work and capable of preparing complete working drawings. Write, stating age, experience, and qualifications, to Elliott, Cox & Partners, Coastal Chambers, 172, Buckingham Palace Road, London, S.W.1. 751

**ASSISTANTS** required (20-23 years); capable draughtsmen; surveys, working drawings, specifications, etc.; busy private practice. Clark, 4, Great Russell Street, W.C.1. Museum 4400. 806

**DRAUGHTSMAN** wanted in Architect's office of a Bank; applicants must be good draughtsmen, able to measure up buildings and plot surveys. Reply, stating age, training, experience, qualifications and salary required, to Box 870.

**JUNIOR ARCHITECTURAL DRAUGHTSMAN** required in South-West London Architect's office; R.I.B.A. qualifications not necessary, but experience in working drawings essential. Write, stating experience and salary required, Roper, Son & Chapman, Architects, 162, High Street, Hounslow. 872

**APPLICATIONS** are invited by a well-known firm of Building Contractors in N.W. London for an **ARCHITECTURAL ASSISTANT**, in their Architect's Department; applicants should be to final R.I.B.A. standard, preferably with experience in House and Factory design. Box 845.

**ARCHITECTURAL ASSISTANTS** required in offices in North Kent and High Holborn; men or women with office experience and of R.I.B.A. Intermediate standard preferred; state age, experience, and salary required. 846

**ARCHITECTURAL DRAUGHTSMAN**, with experience in surveying and planning, required immediately; salary in accordance with age and ability. Apply in writing to the Architect, Mackeson & Co., Ltd., Brewery, Hythe, Kent. 860

**JUNIOR and SENIOR ARCHITECTS' ASSISTANTS** required; salary £350 to £700; also **WORKER-UP** for Quantity Surveyor's Department. For particulars apply to Harold Marsh, L.R.I.B.A., 14, King Street, King's Lynn. 885

**SENIOR ASSISTANT** required in the Architect's Department of a large Commercial Company in Yorkshire (West Riding); applicants must be registered architects and have passed the Associateship examinations of the R.I.B.A.; previous experience in commercial property maintenance is essential; the post is permanent and progressive in character, and pensionable. Applications, stating age, qualifications, past and present appointments, and experience and salary required, should be addressed to Box 1,784, c/o Charles Barker & Sons, Ltd., 31, Budge Row, London, E.C.4; preliminary interview can be arranged in London or Yorkshire. 812

**ARCHITECTURAL ASSISTANT** required; careful draughtsman, with experience of building construction; considerable variety in work, including surveying of country jobs; salary according to ability. Caroe & Partners, 3, Great College Street, Westminster, S.W.1. 910

**LONDON Architect** requires **ARCHITECTURAL DRAFTSMAN**, in consulting office at Reigate, for specialist detail work. Write, stating age, experience, and salary, to Box 882.

**SEELY & PAGET, F./L.R.I.B.A.**, require fully qualified **ASSISTANT**; must be experienced working drawings and specifications, with sound knowledge of all normal methods of construction; licensed work now in hand includes many important Ecclesiastical commissions. Apply by letter, giving usual details, to 41, Cloth Fair, E.C.1. 924

**LONDON PASSENGER TRANSPORT BOARD**.—Applications are invited for appointments on the temporary staff of the Architect as follows:—Assistant Architects, Architectural Assistants, Structural Engineering Designers and Quantity Surveyors. Commencing salary from £300 to £600 per annum, according to ability, qualifications and experience. Applications, which should give a brief outline of training and experience, to be sent to the Staff Officer (ER/E436), London Passenger Transport Board, 55, Broadway, S.W.1. 923

**JUNIOR and SENIOR ARCHITECTS' ASSISTANTS** required; salaries £350 to £700. Also **WORKER-UP** for Quantity Surveyor's Department. For particulars apply to Harold Marsh, L.R.I.B.A., 14, King Street, King's Lynn. 885

**EXPERIENCED ARCHITECTURAL DRAUGHTSMAN** required; must have thorough knowledge of building construction, and be capable of preparing detailed working drawings and specifications from sketch designs for large commercial and industrial buildings; knowledge of estimating and preparing of bills of quantities an advantage. Write, stating age, qualifications, and full details of experience; salary according to experience. Box 896.

**ARCHITECTURAL DRAUGHTSMAN** required in London for work on commercial projects; sound constructional knowledge essential; good prospects. Write, giving particulars, to Box 896.

# BELLS and TOWER CLOCKS



RINGING PEALS • CHIMES • CARILLONS  
PUBLIC CLOCKS of all types

**GILLETT & JOHNSTON LTD.**

CROYDON, SURREY

Founders of Famous Bells

Tel. Thornton Heath 3221 (5 lines)



**Insulite Plaster Base**  
Perfect adhesion of Plaster  
to texture fibre surface and  
**THERMAL INSULATION.**

**INSULITE**  
the Wood-Fibre Insulating Board

**INSULITE PRODUCTS CORPORATION LTD.**  
DONINGTON HOUSE, NORFOLK STREET, LONDON, W.C.2

Telephone: TEMple Bar 7085

**SENIOR ARCHITECTURAL ASSISTANT**, age not exceeding 45, required for general architectural practice. Reply, giving experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 903

**WANTED**.—Experienced **ARCHITECTURAL ASSISTANT**, West Riding of Yorkshire. Full particulars, including salary required, to Box 904.

**A GOOD** Appointment awaits **TWO ASSISTANTS**, experienced in the design of cinemas and theatres. Details and salary required to Box 905.

**TECHNICAL ASSISTANT** required by London commercial undertaking; must be proficient in quantities, estimating, and supervision of work in progress; some knowledge of war damage; must be able to drive a car; state age and full experience. Box 911.

**ARCHITECTURAL ASSISTANT**; good prospects for competent and neat draughtsman. Doffman & Leach, A./A.R.I.B.A., 6, Market Square, Stafford. 912

### Architectural Appointments Wanted

**ASSISTANT** requires position. Leicester or Coventry area; four years' office experience; own car; awaiting final examination results; keen and capable all branches; free immediately. Box 366.

**CAPABLE ARCHITECTURAL ASSISTANT** requires spare-time work of any type; London area. Box 373.

**ARCHITECTURAL ASSISTANT** requires change of position with Liverpool firm of Architects, appreciating initiative and ability to carry out works without supervision, and are prepared to remunerate with moderate salary adjusted to the present day cost of living; capable of preparing working drawings, land surveys, levelling, war damage procedure, etc. Box 372.

**REGISTERED ARCHITECT** (43, married) desires responsible appointment, with good prospects; large experience in industrial, commercial and domestic work; surveys, specifications, and supervision; success in competitions; salary, 12 guineas per week. Box 374.

**A. R.I.B.A.** (41) desires permanent and progressive position; over 20 years' varied experience in architectural offices; experienced in carrying through contracts from sketch plans to completion. Box 370.

**DANISH DRAUGHTSMAN**, 22 years old, wants work in London; higher school certificate, also certificate as carpenter, building constructor; knowledge of building in reinforced concrete, steel, stone and wood; speaks English. Box 371.

### Other Appointments Vacant

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

**A MAJOR** Oil Company requires a good **PROGRESS CLERK**; age 30/35; school certificate; experienced in the progressing of construction and materials on large scale building operations; salary according to age and experience; Provident fund benefits. Applicants, who must be full British parentage, should write quoting Dept.H.298, to Box 922.

**SALES MANAGER** required by important firm handling as Manufacturers and Merchants Materials for Building Construction, in the Southern Counties; good prospects for a young man with energy, enterprise, and knowledge of the trade; substantial salary and commission on profits would be paid. Apply in writing, giving full details of training, experience, and connections, which will be treated in confidence, and also salary required, to Box No. 853, Allardyce Palmer, Ltd., 109, Kingsway, London, W.C.2. 914

**COMPETENT SECRETARY** required. Architects, Piccadilly. Box 915.

**ESTIMATING CLERK** wanted, with experience of building, furnishing, or similar costings; progressive appointment; London West End; commencing £312 per annum. Box 906.

**GENERAL MANAGER** required by a Company in the Staffordshire area, who are primarily engaged on the erection of Municipal housing schemes; applicant must be a good organiser, keen, and able to take full control; only men with considerable experience in this class of work need apply; salary £1,000-£1,500, according to ability. Write, giving full details, age, experience, current references, etc., Box 897.

### Other Appointments Wanted

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

**ARCHITECT**, with particular experience in housing, shops, and factories, seeks part-time work, London area. Box 884.

**EVENING** or week-end work, preferably at home, required by capable Assistant (36); surveys, sketches, working drawings, etc. Box 922.

**YOUNG ARCHITECT**, A.R.I.B.A., A.M.T.P.I., with work in South-East Kent, offers part-time assistance in that area. Box 902.

**ARCHITECTURAL ASSISTANT** wishes to carry out at home: Tracing Work, Design, Details, Working Drawings, from sketches; Housing, Alterations, etc.; moderate fees. Box 907.

### For Sale

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

**FOR SALE**.—Architect's Country Practice for Sale in East Anglia; work in hand, and excellent prospects for young man; owner retiring. Box 925.

**FOR SALE**.—Three oil-fired, low pressure steam or hot water Boilers; up to 15 lbs./sq. in. pressure; approximately 1,500,000 B.Th.U's per hr., or 1,500 lbs. steam per hr.; practically new and complete with oil burners, oil feed pumps, and air fans suitable for electric or engine drive; ideal stand-by units for factory heating, etc.; instal now before the fuel cuts. Apply Gurney & Ewer, Ltd.; Ruislip 4091. 927

### Miscellaneous

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

**A. J. RINNS, 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 Mathes Graphiques." Please reply to Box. 5.

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

**DOORS  
WINDOWS  
STAIRS**

**SPECIALISING IN WOODWORK TO ARCHITECTS' DESIGNS**

**THE MIDLAND JOINERY WORKS LTD.**

'PHONE: 3085 (3 lines)

**BURTON - ON - TRENT.**

**GRAMS: MIDJOIN**



**"UNO" STENCILS**

for Lettering  
**ENGINEERS' & ARCHITECTS' PLANS**

**A. WEST & PARTNERS Ltd.**

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



Well held by the  
**FERROCON**  
Weld

**Welded  
Beam Frames  
Welded Steel  
Strips  
Welded Fabric  
(Mesh)**

**FERROCON ENGINEERING CO. LTD.**  
HIGHFIELD ROAD, LEVENSHULME,  
MANCHESTER 19.

**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. 730

**WESTGATE-ON-SEA** for restful Holidays; Westgate Court Hotel for good food; sea front; central heating; log fires; 5/8 gns. per week; S.A.E. for brochure from secretary. 'Phone 242. 764

**BUILDERS**, capable of carrying out medium sized contracts will appreciate offers to tender for works in London and Home Counties. Box 785.

**GEORGE HIGGINSON, LTD.**, Bickenhill, Hampton-in-Arden, near Birmingham; 'phone Hampton-in-Arden 131; specialist contractors, land clearing, levelling, and excavation; bulldozers and scrapers and skilled men available for large or small contracts in any districts 809

**OFFICES TO LET.**—Drawing Office, 19 by 17, with good north windows and up to three other rooms available, for Architects only; in good position, Croydon. Box 865.

**DEMOBILIZED Army Officer**, completing architectural studies, requires Flat of two or three rooms, k. and b. in London or suburbs. Write 27, Milbourne Lane, Esher, Surrey. 838

**WANTED.**—Set of "A.J. Working Details." Offers to Box 859.

**OFFICE TO LET.** London, W.1; one room, redecorated, telephone; immediate possession; tenancy up to three years; share of additional accommodation if required. Box 928.

**QUANTITIES, Bills, Estimates.**—Send them to be accurately calculated, and checked by experienced Comptometer Operators; prompt attention; reasonable rates. South London Calculating Service, 339, Kennington Road, S.E.11. 929

**PARQUET** and all other kinds of Wood Floors repaired, resurfaced, and polished by latest machine methods; new floors laid; panelling restored; charges moderate; estimates free. Davis Parquet Resurfacing Ltd., Dp. 225, Grove Hall Court, London, N.W.8. Telephone: CUNningham 3205/6. 926

**SURVEYS** and Working Drawings prepared from sketches; drainage schemes for Council's approval; within 30 miles from Charing Cross; perspectives promptly executed; terms moderate. Box 901.

**FENCING FOR ALL PURPOSES.**—Supplied and erected; established 100 years. Parker, Winder & Achurch, Ltd., 20, Broad Street, Birmingham, 1.

**PERSPECTIVES, Wash Drawings, Lettering, Models.**—For every kind of activity demanding the expert use of pencil, pen and brush. E. Lavery 44, Aldershot Road, Guildford, Surrey. 944

#### Educational Announcements

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

**R.I.B.A. QUALIFYING EXAMINATIONS.** Mr. C. W. Box, F.R.I.B.A., M.R.San.I. Courses of Correspondence and Personal to Studio 118, Gower St., London, W.C.1. (Tel.: Euston 3906)

**R. I.B.A. and T.P. INST. EXAMS.** Private R. Courses of Tuition for correspondence arranged by Mr. L. Stuart Stanley, M.A., F.R.I.B.A., M.T.P.I. Tutor, 212, Euston Road, N.W.1. Tel.: BUS. 7768.

## Electrical Contracting

For a complete and helpful service

RING WEMbley 0194

SERVICE ELECTRIC CO. LTD.

ABBAY MANUFACTURING ESTATE  
ALPERTON MIDDY



### ARCHITECTS REQUIRING MODELS OF ANY DESCRIPTION

SHOULD CONSULT

## McCUTCHON STUDIO

12, MACLISE ROAD, WEST KENSINGTON  
LONDON, W 14

## SOUND INSTRUCTION by Postal Method

is offered by the world's largest and greatest correspondence school, in the following subjects:

Architecture Architectural Drawing and Designing Building Contracting Building Construction and Interior Work Building Construction and Quantities Building Specifications and Quantities Quantity Surveying Structural Steelwork Civil Engineering	Surveying and Mapping Municipal Engineering Plan and Map Draftsmanship Structural Engineering Concrete Engineering Structural Drawing Construction Draughtsmanship Sanitary Engineering Air Conditioning Heating and Ventilation
---	--

**Special Courses for the Diplomas** of the R.I.B.A., I.O.B., R.I.C.S., I.C.E., I.M. & Cy.E., I.Struc.E., R.S.I., I.S.E., etc.

Write to-day for Syllabus of our Courses in any of the subjects mentioned above

## INTERNATIONAL

CORRESPONDENCE SCHOOLS, LTD.

Dept. 141, International Buildings  
KINGSWAY, LONDON, W.C.2



### ARCHITECTURE ABROAD

#### AMERICA

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

#### FRANCE

"L'ARCHITECTURE D'AUJOURD'HUI"	
Six issues per year .. .. .	56s. 6d.
"L'ARCHITECTURE FRANCAISE"	
Twelve issues per year .. .. .	58s. 6d.

Obtainable by annual subscription through

## STOBART & SON LTD

9, Victoria Street, London, S.W.1

# LIFTS

by **MORRIS**

Herbert Morris Ltd

Loughborough

Engineering branches in London, Glasgow, Manchester, Birmingham, Leeds, Sheffield, Newcastle, Cardiff, Bristol, Dundee, Liverpool, Nottingham, Bury St. Edmunds, Belfast

**WATTS and CORRY L<sup>td</sup>**  
Theatre Consultants and Suppliers  
399 Oldham Road, Manchester 10

For facing bricks use  
"H.B." smoothfaced  
manufactured by:  
**THE HAMMILL BRICK CO. LTD.**  
Eastry, Sandwich, Kent,  
'Phone for samples, Eastry 247.

Pressed Steel Tanks by  
**BRAITHWAITE & CO ENGINEERS LTD**

KINGS HOUSE, HAYMARKET, S.W.1  
Telephone: W 111411 3995 Telegrams: Bromitrb-Phone

## MODELS

ESTAB.  
1883.

BY  
**John B. THORP**  
FOR TOWN PLANNING  
PUBLIC BUILDINGS  
ESTATES and INTERIORS  
18 GRAY'S INN ROAD, W.C.1  
TELEPHONE:  
HOLBORN 1011

**MUMFORD BAILEY & PRESTON L<sup>td</sup>**  
AIR-CONDITIONING &  
HEATING SPECIALISTS  
HOT & COLD WATER  
SERVICES — SANITARY  
ENGINEERING —  
NEWCASTLE HOUSE, CLERKENWELL CLOSE, LONDON, E.C.1  
Telephone: CLERKENWELL 4344 and at Bournemouth

**STEELWORK BY**  
**R.W. SHARMAN LTD.**  
SWAN WORKS, HANWORTH, MIDDY  
'Phones: Feltham 3007. Sunbury 2367. 'Grams: "Sharmen," Feltham

**GEORGE ELLISON LIMITED**  
PERRY BARR BIRMINGHAM 22B

Makers of reliable electric switchgear for  
mains supply and electric motor control

**Maxheat Oval Tubular Electric Heaters**  
The Architects' Journal Information Sheet No. 10  
In single lengths & tiers  
For all standard voltages.  
Schemes submitted without obligation.  
**THE WARDLE ENGINEERING CO. LTD.**  
OLD TRAFORD MANCHESTER 16



# Alphabetical Index to Advertisers

Aldas Electric, Ltd.	xliii	Fordham Pressings, Ltd.	xliii	Pollard, E., & Co., Ltd.	PAGE
Allied Paints & Chemicals, Ltd.	xliii	French, Thomas, & Sons, Ltd.	xliii	Pritchett & Gold and E.P.S. Co., Ltd.	x
Anderson Construction Co., Ltd.	viii	General Cable Manufacturing Co., Ltd.	xliii	Prodorite, Ltd.	vi
Architects' Benevolent Society	xlviii	Gillett & Johnston, Ltd.	xliii	Pynford, Ltd.	xix
Ascot Gas Water Heaters, Ltd.	ii	Greenwoods & Airvac Ventilating Co., Ltd.	ii	Renfrew Foundries, Ltd.	xx
Baldwin, Son & Co., Ltd.	xxiv	Griffith Bros. & Co., Ltd.	iv	Rolyat Tank Co., Ltd., The	xx
Bath Cabinet Makers & Artcrafts, Ltd.	xxviii	Hall, J. & E., Ltd.	xliii	Sadd, John, & Sons, Ltd.	iv, xxviii
Belling & Co., Ltd.	xxviii	Hamill Brick Co., Ltd.	xliii	Salter, T. E., Ltd.	xliii
Berry's Magical Electric Fires	xxviii	Harvey, G. A., & Co. (London), Ltd.	xliii	Sankey, J. H., & Son, Ltd.	xliii
Blackburn, Thomas, & Sons, Ltd.	xxviii	Henderson Safety Tank Co., Ltd., The	xliii	Scotney, Tom M.	xliii
Black & Decker, Ltd.	xxviii	Higgs & Hill, Ltd.	xliii	Secomastic, Ltd.	xliii
Blundell, Spence & Co., Ltd.	xxviii	Hills Patent Glazing Co., Ltd.	xliii	Serek Tubes, Ltd.	xliii
Bone, Connell & Co., Ltd.	xxviii	Hollway, W. F., & Brother, Ltd.	xliii	Service Electric Co., Ltd.	xliii
Booth, James, & Co., Ltd.	xxviii	Holoplast, Ltd.	xliii	Sharma, R. W., Ltd.	xliii
Boulton & Paul, Ltd.	xxviii	Huntley & Sparks, Ltd.	xliii	Sherwoods Paints, Ltd.	xliii
Boyle, Robert & Son	xxviii	Imperial Chemical Industries, Ltd.	xliii	Shires & Co. (London), Ltd.	xliii
Braithwaite & Co., Engineers, Ltd.	xxviii	Insulate Products Corporation, Ltd.	xliii	Simplex Electric Co., Ltd.	xliii
Bratt Colbran, Ltd.	xxviii	International Correspondence Schools, Ltd.	xliii	Smiths English Clocks, Ltd.	xliii
Briggs, William, & Sons, Ltd.	xxviii	Johnston Bros. (Contractors), Ltd.	xliii	Southern Lime Assoc., The	xliii
British Dolomene Co. (1933), Ltd., The	xxviii	Jones, Samuel, & Co., Ltd.	xliii	Spiral Tube & Components Co., Ltd.	xliii
British Electrical Development Assoc.	xxviii	King, George W., Ltd.	xliii	Stelcon (Industrial Floors), Ltd.	xliii
British National Electric, Ltd.	xxviii	Lacind Products, Ltd.	xliii	Stobart & Son, Ltd.	xliii
British Trane Co., Ltd.	xxviii	Leaderfith, Ltd.	xliii	Sundeals Board Co., Ltd.	xliii
Bromsgrove Guild, Ltd.	xxviii	Lever, James, & Sons, Ltd.	xliii	Taylor Woodrow Construction, Ltd.	xliii
Building Exhibition, The	xxviii	Limmer & Trinidad Lake Asphalt Co., Ltd.	xliii	Tentest Fibre Board Co., Ltd.	xliii
Bull Motors (E. R. & F. Turner), Ltd.	xxviii	Lloyds Boards, Ltd.	xliii	Thompson Beacon Windows, Ltd., John	xliii
Carlisle Electric Mfg. Co., Ltd.	xxviii	Lockerbie & Wilkinson (Tipton), Ltd.	xliii	Thornborough & Son (Manchester), Ltd.	xliii
Carlton Metal Moulding Co., Ltd.	xxviii	Loft Ladders, Ltd.	xliii	Thornton, A. G., Ltd.	xliii
Cement Marketing Co., Ltd.	xxviii	London Brick Co., Ltd.	xliii	Thorp, John B.	xliii
Celotex, Ltd.	xxviii	Magnet Joinery, Ltd.	xliii	Timber Development Association	xliii
Cheshire Woodcraft, Ltd.	xxviii	Mallinson, William, & Sons, Ltd.	xliii	Travis & Arnold	xliii
Code Designs, Ltd.	xxviii	Masonite, Ltd.	xliii	True Flue, Ltd.	xliii
Colt, W. H. (London), Ltd.	xxviii	Maritta Drafting Machines, Ltd.	xliii	Turners Asbestos Cement Co., Ltd.	xliii
Copper Development Assoc.	xxviii	McCall & Co. (Sheffield), Ltd.	xliii	Uni-Seco, Ltd.	xliii
Croft Granite, Brick & Concrete Co., Ltd.	xxviii	McCutcheon Studio	xliii	United Steel Companies, Ltd.	xliii
Dawnays, Ltd.	xxviii	Midland Electric Manufacture Co., Ltd.	xliii	Versil, Ltd.	xliii
Denny, Mott & Dickson, Ltd.	xxviii	Midland Joinery Works, Ltd., The	xliii	Vulcanite, Ltd.	xliii
Dorman Long & Co., Ltd.	xxviii	Miller Hepworth, Ltd.	xliii	Vulcan Products, Ltd.	xliii
Dunlop Rubber Co., Ltd.	xxviii	Mills Scaffolding Co., Ltd.	xliii	Ware, W. C., & Sons, Ltd.	xliii
Eagle Pencil Co.	xxviii	Morris, Herbert, Ltd.	xliii	Wardle Engineering Co., Ltd., The	xliii
Edmonds, A., & Co., Ltd.	xxviii	Mumford, Bailey & Preston, Ltd.	xliii	Watts & Corry, Ltd.	xliii
Ellison, George, Ltd.	xxviii	Odoni Alfred A., & Co., Ltd.	xliii	Wellington Tube Works, Ltd.	xliii
English Joinery Manufacturers' Assoc.	xxviii	Parnall, George, & Co., Ltd.	xliii	West, A., & Partners, Ltd.	xliii
Everaunt, Ltd.	xxviii	Pilkington Bros., Ltd.	xliii	Wheatly & Co., Ltd.	xliii
Expanded Metal Co., Ltd.	xxviii			Wood Wool Building Slab Manufacturers' Assoc.	xliii
Faculty of Surveyors of England, The	xxviii			Wright, Anderson & Co., Ltd.	xliii
Ferrocon Engineering Co., Ltd.	xxviii				
Fisher & Ludlow, Ltd.	xxviii				

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see pages ii, iii, liii, liv and lv.

## TRUE FLUE the SPEEDILY ERECTED flue

The TRUE-FLUE patented method of constructing domestic flues of correct design with the minimum of labour.

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

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

For full details write for our descriptive booklet.

"Why can't they  
all use  
**TRUE FLUE?**"

**TRUE FLUE Ltd.** CARLISLE HOUSE, 8 SOUTHAMPTON ROW, LONDON, W.C.1. Phone: CHANCERY 8133









BY APPOINTMENT  
TO THE LATE KING GEORGE V

# BROMSGROVE GUILD LTD

ARCHITECTURAL METALWORKERS

## BROMSGROVE

WORCESTERSHIRE



**20%**

## increase in house space by installing a LOFT LADDER

Every new building, every repaired or converted building should be utilised to its fullest extent and all space made available for use.

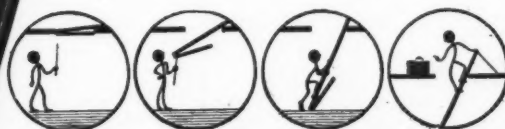
Don't let the loft space be wasted.

Our information sheets No. 199 and 201 show in detail how this space may be made available, both in new work and conversions.

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

## LOFT LADDERS LTD

BROADWAY WORKS · BROMLEY · KENT  
RAVensbourne 2624



**INFORMATION  
SHEETS 199 & 201  
yours for the asking**



**MILLS SCAFFOLD CO. LTD.**  
LONDON & BRANCHES

THE HALLMARK

ON STEEL SCAFFOLDING

MILLS SCAFFOLD CO. LTD., Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W. 6. Tel.: RIVerside 5026/9

