

# 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

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News

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

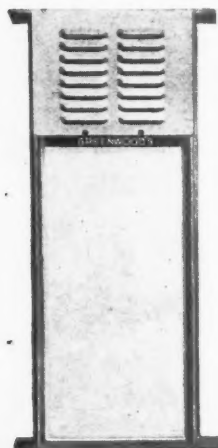
AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
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. 34/36, Bedford Square, W.C.1	
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.	Langham 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Grosvenor 4761
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Langham 5721
BC	Building Centre. 9, Conduit Street, W.1.	Reliance 7611, Ext. 1706
BCC	British Colour Council. 13, Portman Square, W.1.	Mayfair 8641/6
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Welbeck 4185
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Perivale 6869
BDA	British Door Association. 10, The Boltons, S.W.10.	Redditch 716
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Flaxman 7766
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Temple Bar 9434
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Glasgow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Euston 5385
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Chancery 7772
BOT	Board of Trade. Millbank, S.W.1.	Langham 2785
BRS	Building Research Station. Bucknalls Lane, Watford.	Whitehall 5140
BSA	Building Societies Association. 14, Park Street, W.1.	Garston 2246
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Mayfair 0515
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Abbey 3333
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Holborn 8146/7
CAS	County Architects Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Newport 3111
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Chichester 3001
CCP	Council for Codes of Practice. Lambeth Bridge House, S.E.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Reliance 7611
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderhof, 7, Zurich, Switzerland.	Radlett 5616
COID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPRB	Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280	
CUJC	Coal Utilization Joint Council. 3, Upper Belgrave Street, London, S.W.1.	Sloane 9116
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Reading 72255
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Reliance 7611
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Whitehall 0540
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Victoria 9040
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	Regent 4448
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	
FASSC	Federation of Association of Specialists and Sub-Contractors. 5, Arundel Street, Strand.	Sloane 2837
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Temple Bar 6633
FC	Forestry Commission. 25, Savile Row, W.1.	Whitehall 6711
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Ulverston 201
FOB 1951	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.	W.C.1.
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Waterloo 1951
FS (Eng.)	Faculty of Surveyors of England. Buckingham Palace Gdns., S.W.1.	Whitehall 3902
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Langham 4041
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Sloane 2837
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 4554
ICA	Institute of Contemporary Arts, 17-18, Dover Street, Piccadilly, W.1.	Sloane 2844
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 2881
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Sloane 5615
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Grosvenor 6186

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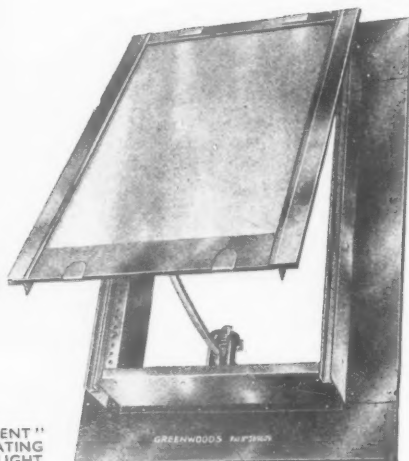
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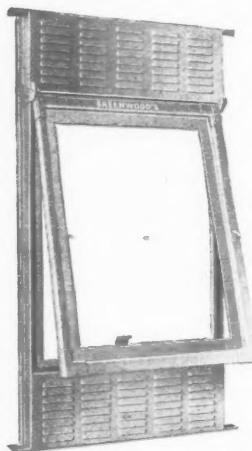
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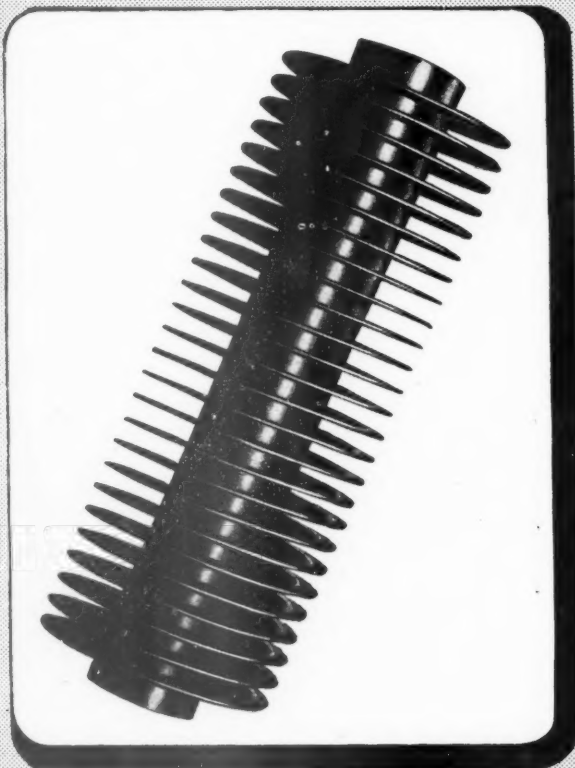
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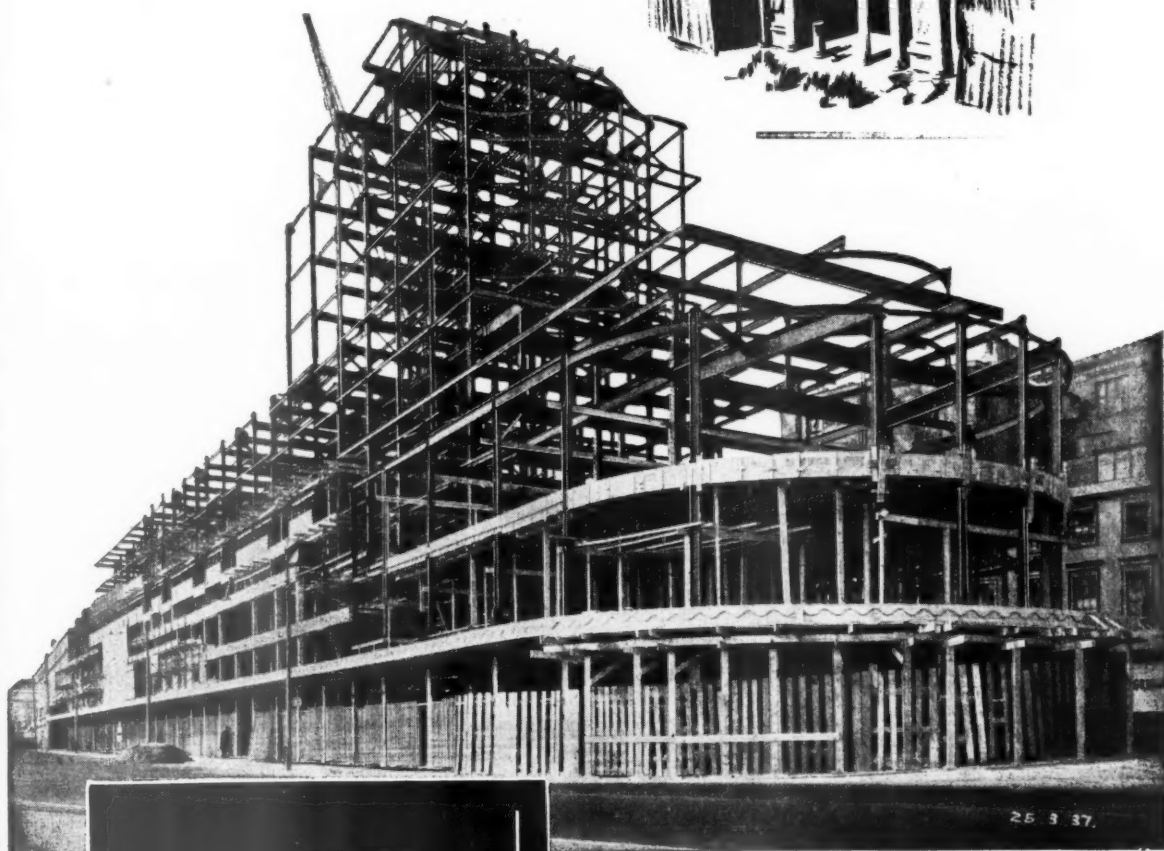
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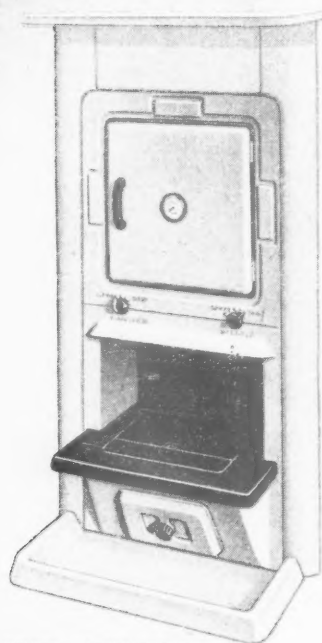
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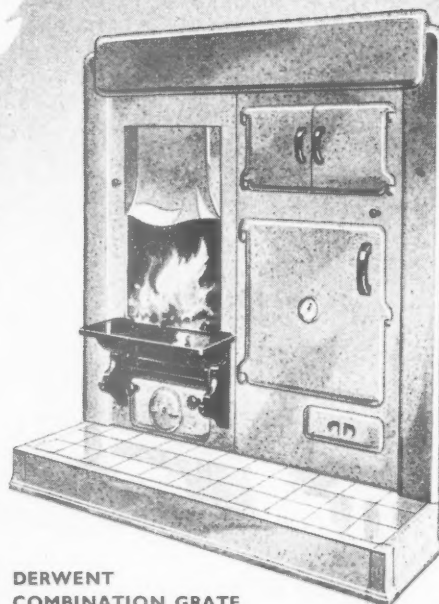


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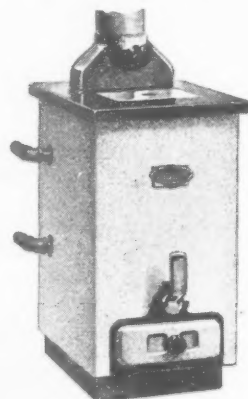
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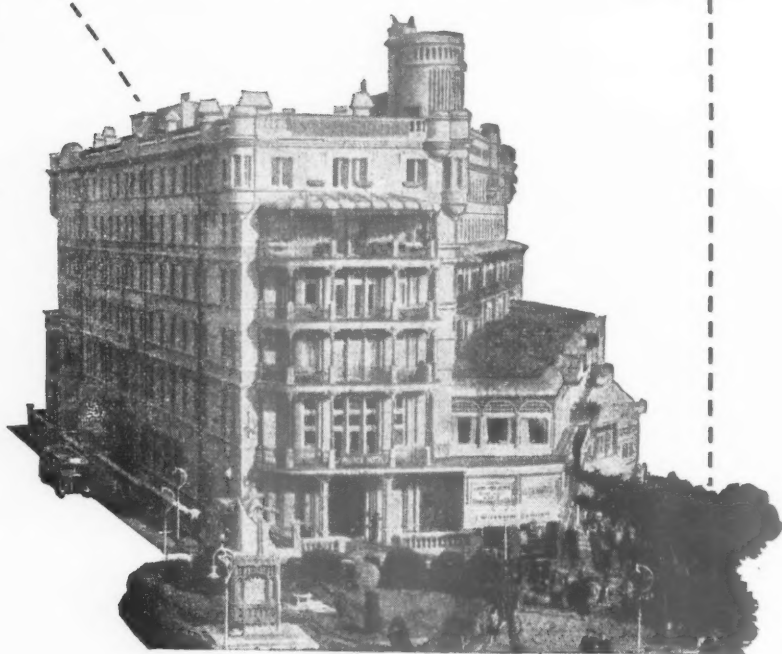
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## BRILLAT-SAVARIN AT SOUTHEND ?



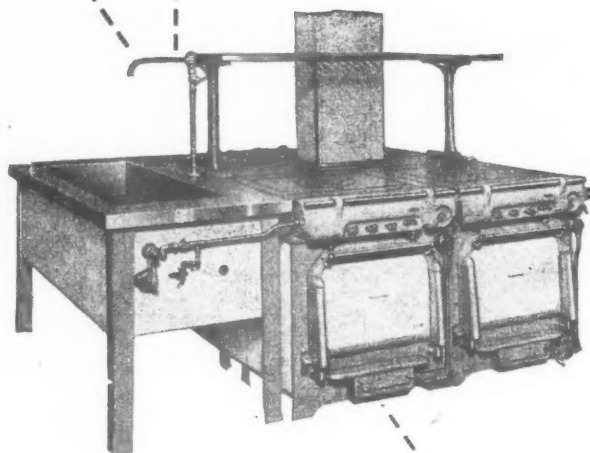
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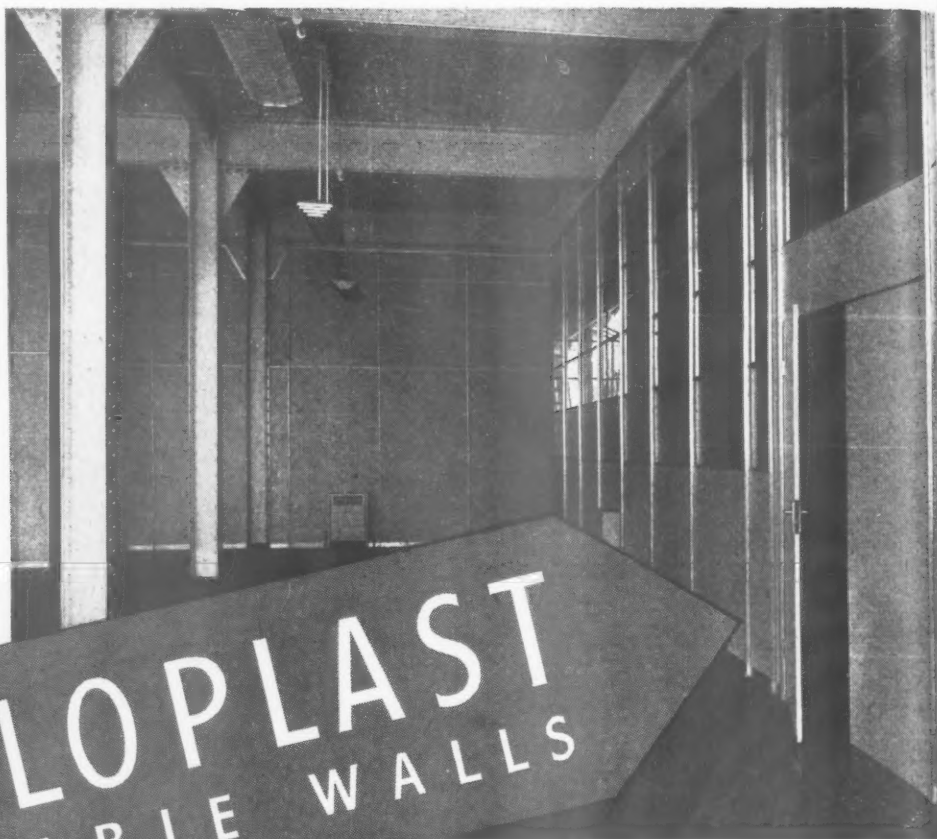
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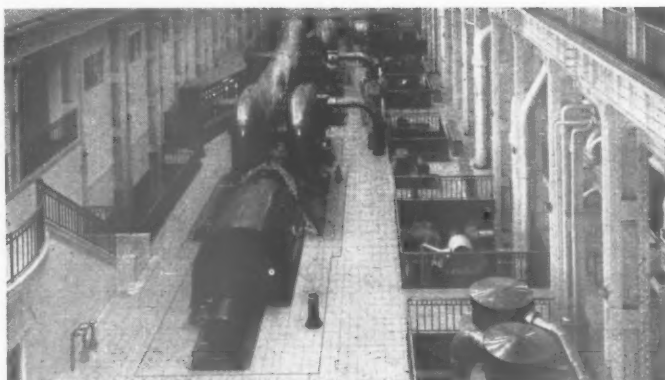


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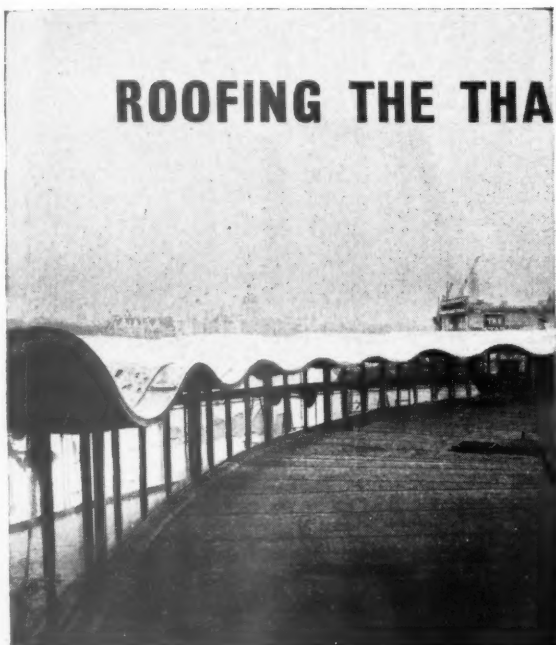
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Henri Martin, 72, Rue de la Marne,  
Rabat, French Morocco.

Italy: Compagnia Finanziaria Indus-  
triale & Mercatille S. a R. L.,  
11, Corso Sempione, Milan, Italy.

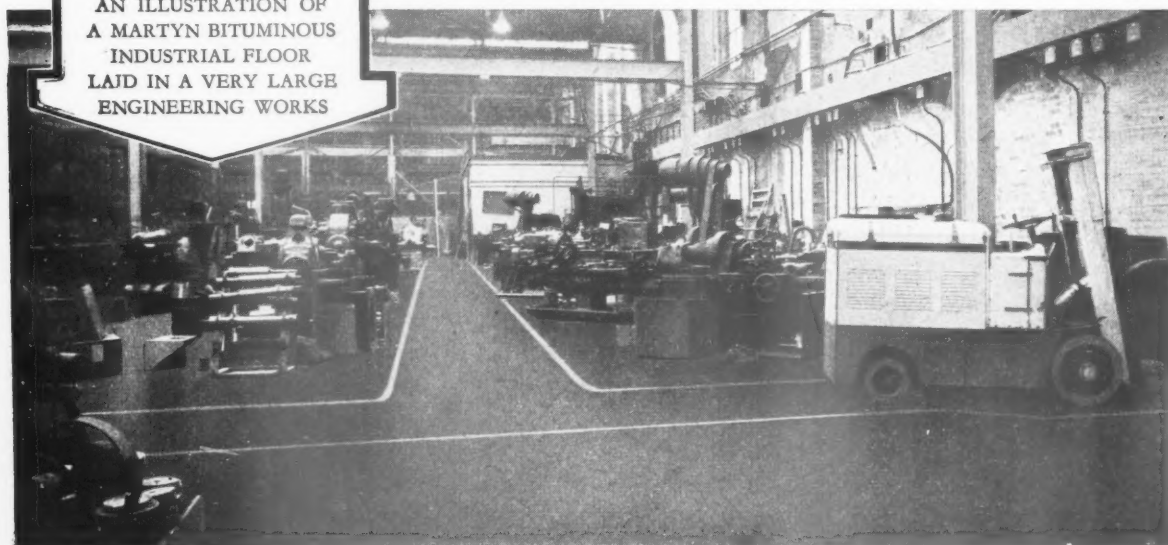
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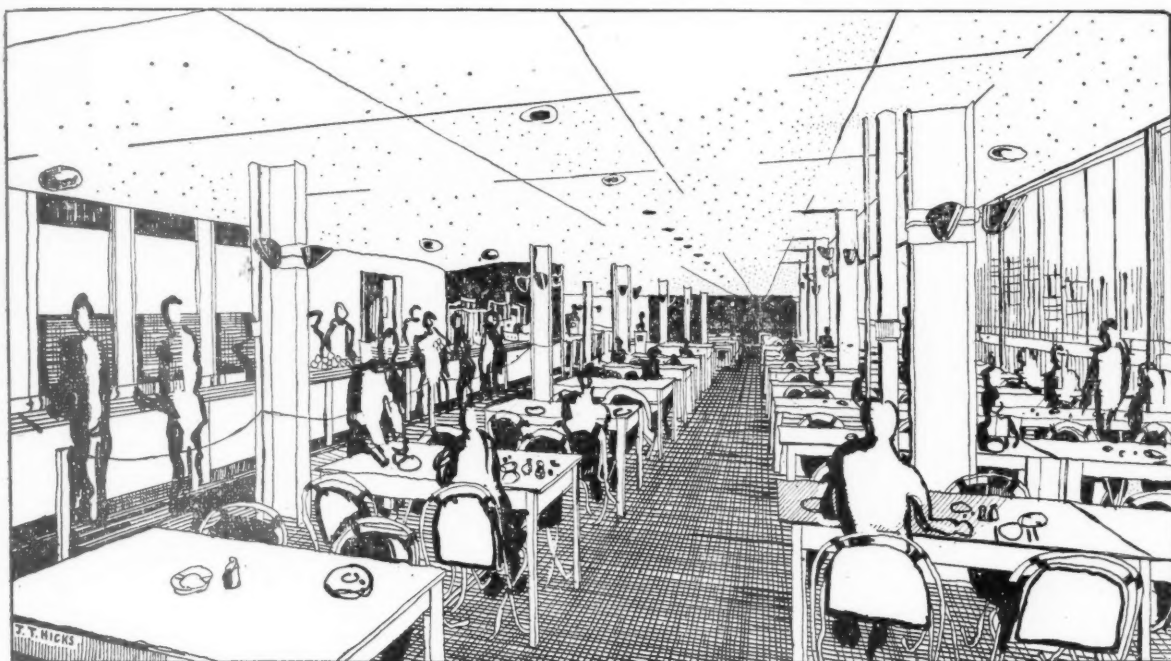
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*An impression of the Staff Canteen in the South Bank Administration Building.*

*Architect: Edward D. Mills, F.R.I.B.A., F.R.S.A.*

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The sketch shows part of the cafeteria service canteen which seats 400 and serves full meals. This is situated on the third floor of the general administration building which incorporates lavatories, rest rooms, cloakrooms, workshops and offices.

There is also a self-service snack bar and an executives' dining room, which brings the total seating accommodation up to approximately 600.

The restaurant facilities are available all day for the staff, and certain facilities are available for those on the night shift.

The needs of these essential services are fully met by the reliability of gas at all times and its ability to meet widely fluctuating demands economically.

*Helpful information on the many aspects of providing efficient services for cooking, hot water, space heating and refrigeration may be obtained from local Gas Undertakings.*

# GAS





#### SAFETY PROBLEM SOLVED

*These stairs lead from the main entrance lobby of a large West End building. Four times a day they are really busy, but they are used all the time by visitors and messengers to offices on the first and second floors. Previous nosings wore quickly, became dangerous. Ferodo Stairtreads have solved this problem for a long time to come.*

## For *safety*, where appearance is also important . . . these **NON-SLIP** treads

### MADE BY FRICTION SPECIALISTS

**T**O make stairs safe for hurrying feet, pleasing to the eye, and economically resistant to heavy use — that's the problem which Ferodo Stairtreads solve in a manner appreciated by architects and property owners alike.

Long experience of engineering friction materials made it easy to produce an extremely durable friction surface. These treads give a firm, safe grip, even when shoes are wet. They cannot wear slippery. And the bright outline to the step

is a further safety factor, especially in subdued lighting.

**Choice of patterns.** Ferodo Stairtreads are mounted in aluminium nosings, which are made in single and double channel types, of various widths and profiles. The friction strips

are either of Ferodo bonded fabric, or of a smoother yet non-slip asbestos composition, in white, red, blue, or grey. There is also a plain steel-backed "industrial" type. All types are easily cleaned, and need no other maintenance. They resist wear for years without looking shabby, even under the heaviest traffic.

**Simple installation.** Ferodo Stairtreads are easily fitted to new or existing wood, stone, concrete, or iron stairs, and can be supplied accurately curved for stair-ends or winders.

The various models are described and illustrated in our Catalogue No. 732KK, gladly sent on request.

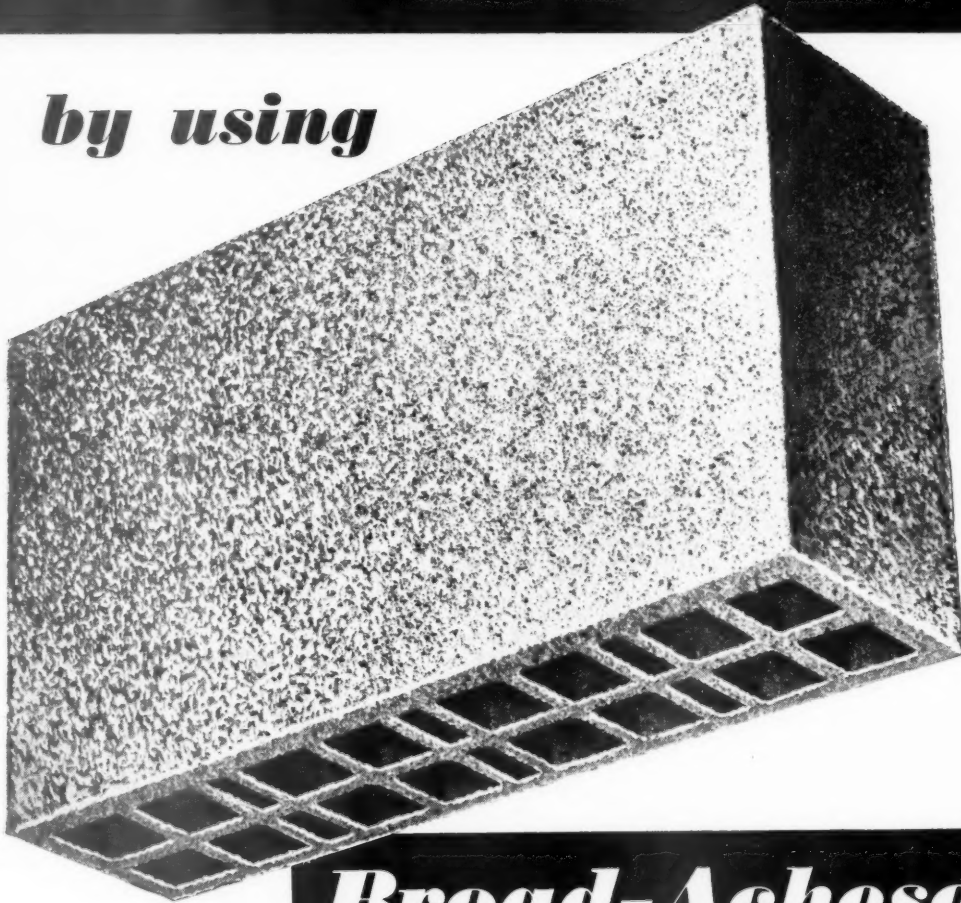
# FERODO STAIRTREADS

FERODO LIMITED, CHAPEL-EN-LE-FRITH

*A Member of the Turner & Newall Organization*

# SAVE COAL - SAVE COSTS

*by using*



***Broad-Acheson***  
*loadbearing cellular*  
***Blocks***

*for cavity and  
partition walls*

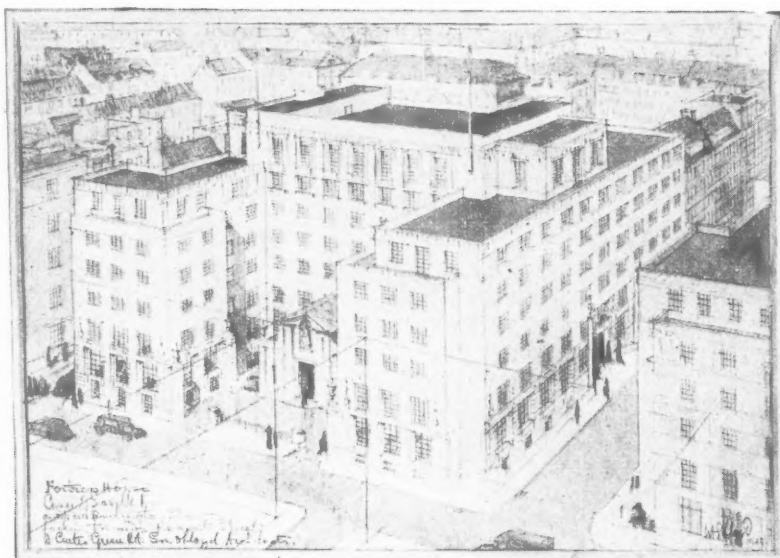
FULL TECHNICAL DATA WITH "U" VALUES AND COST COMPARISONS SENT ON REQUEST

BROAD & CO. LTD., 4 SOUTH WHARF, PADDINGTON, LONDON, W.2 Tel: PAD 7061 (20 lines)

This imposing new office block—23 Savile Row, now the headquarters of the Ministry of Local Government and Planning—is floored throughout with Accotile, "the low-cost floor with the luxury look."

ARCHITECTS—W. Curtis Green, R.A., Son and Lloyd, 5 Pickering Place, S.W.1.

BUILDERS—Sir Robert McAlpine and Sons Ltd., 80 Park Lane, W.1.



## Mayfair's latest block of offices has Britain's latest, most handsome **low-cost flooring**

Armstrong's Accotile is quickly laid on concrete, wood, or metal. It is especially suitable for use on screeded concrete direct-to-earth since it is unaffected by alkaline moisture. Damp-proofing is not essential unless actual water pressure is suspected.

### OUTSTANDINGLY DURABLE

Accotile will, in most cases, long outlast more expensive floors. Many local authorities have found repair costs, too, much reduced by Accotile installations. Accidental damage is easily and cheaply made good. Broken tiles are quickly replaced.

Accotile durability is proved. Accotile floors laid in England twelve years ago can be inspected. They are still in excellent condition.

### DECORATIVE—UNLIMITED CHOICE OF DESIGN

With Accotile there is unlimited scope

for decorative effect. The tiles are made in a wide range of plain and marbled colours and can be laid in any design. The colours are fast since they are an integral part of the tile.

### EASILY MAINTAINED —NON-STAINING

Accotile is kept fresh and new-looking indefinitely by normal sweeping and washing, but may be polished if an extra high finish is desired. It offers good resistance to most acids and, being non-absorbent, does not stain.

\* \* \*

*If you would like to hear more about Accotile—please write to us. We shall be pleased to send you full information. Armstrong's Accotile Flooring, Armstrong Cork Company Limited, Bush House, Aldwych, London W.C.2. Tel.: Chancery 6281. Scottish Branch: 5 Oswald Street, Glasgow C.1. Tel.: Central 5703.*

### FOR PUBLIC BUILDINGS, HOUSES, SCHOOLS, HOSPITALS, AND COMMERCIAL PREMISES

Accotile is quiet and comfortable to walk on, warm and non-slip.

Armstrong's Top-Set Coved Skirting, available in Pompeian Red and Plain Black, gives an added finish.

In existing buildings, Accotile is laid in a matter of hours and can be used immediately, so that occupation of the room is disturbed for the minimum time.

The all-in cost of flooring with Accotile compares very favourably with any other flooring method, with the added advantage of low labour costs.

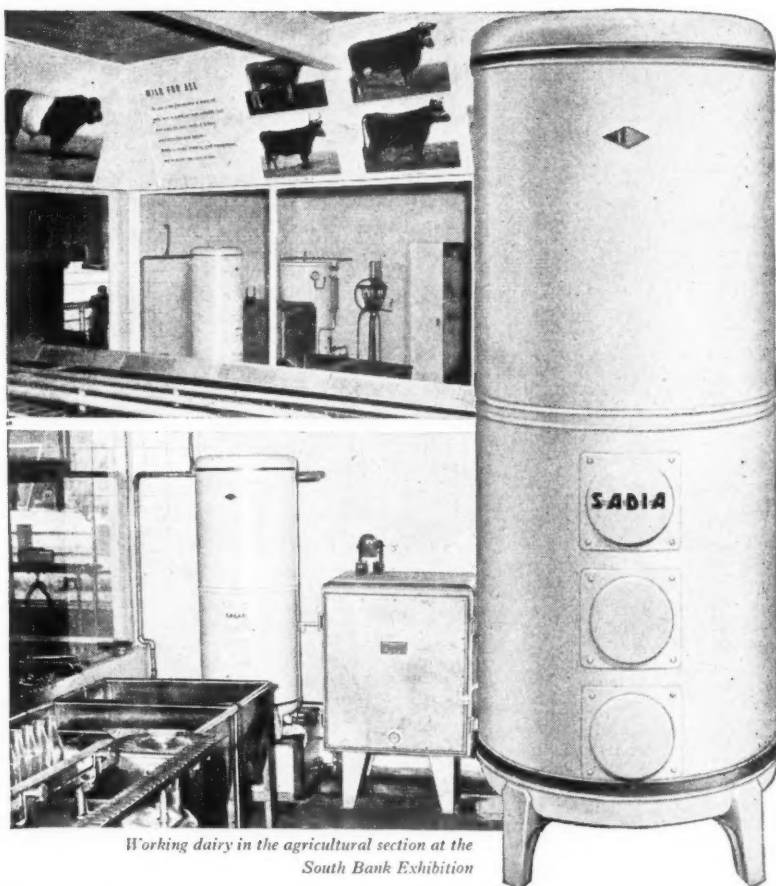
*Armstrong's Accotile is a composition of inert asbestos fibres and ground rock fillers, fadeless mineral pigment, and asphalt or resin binders, supplied in accurately-cut tiles (sizes 12" x 12", 9" x 9" and 6" x 6"), border strips, etc. With 20 years' successful experience in America behind it, it is now manufactured in England at the Tyneside factory of the Armstrong Cork Company Ltd.*

# ACCOTILE\*

*"The low-cost floor with the luxury look"*

★ British Registered Trade Mark 663698. Armstrong Cork Co. Ltd., Registered Users

**1,300  
gallons  
of hot  
water**



*Working dairy in the agricultural section at the  
South Bank Exhibition*

## *Sadia behind the scenes at the Festival*

THE SADIA 50-gallon electric water heater in the model dairy at the South Bank Exhibition is there for every visitor to see. The unit supplies the hot water needed for washing equipment and utensils.

But, behind the scenes at the Festival, Sadia Water Heaters are making a much more important, although less obvious, contribution. For hot water is also required for cloakroom basins, cleaners' sinks and other services. At both the South Bank and Battersea sites, a large number of Sadia water heaters have been installed. In them over 1,300 gallons of hot water are kept ready for immediate use. Hundreds of thousands of gallons of hot water will be provided over the period of the Festival.

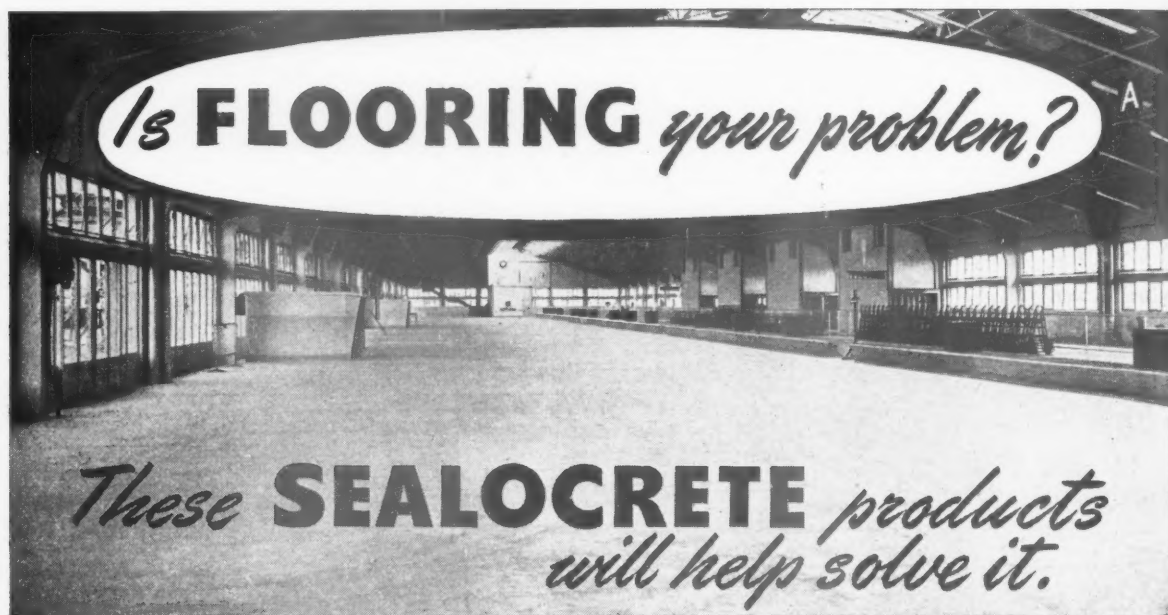
The choice of Sadia water heaters for these important services is no arbitrary one. For over 28 years Aidas Electric Ltd. have specialised in the manufacture of electric water heaters. In this time they have earned an unequalled reputation for quality and reliability. That is why Sadia water heating equipment is so often specified.



**AIDAS ELECTRIC LIMITED**

SADIA WORKS, ROWDELL ROAD, NORTHOLT, MIDDLESEX. SCOTTISH AGENTS: W. BROWN & CO. (ENGINEERS) LTD., 89, DOUGLAS STREET, GLASGOW, C.2. MANUFACTURED IN SOUTH AFRICA BY SADIA WATER HEATERS (PTY.) LTD., 3-5, NEWTON ST., VILLAGE MAIN, JOHANNESBURG





BRITISH RAILWAYS SOUTHERN SECTION, OCEAN TERMINAL DOCK, SOUTHAMPTON

Designed by J. H. Jellett, Docks Engineer

Chief Assistant Architect, C. B. Dromgoole

#### SEALOCRETE DOUBLE STRENGTH PREMIX

This solution makes floor toppings dustproof, oilproof, case hardened and permanently waterproof. Easily incorporated in the gauging water the solution enables floors to be walked on four to six hours after being laid imparting to them additional crushing and tensile strength.



#### SEALOCRETE METALLIC HARDENER

A finely graded metallic compound which when incorporated with Granolithic floor toppings gives a very hard surface capable of withstanding extremely heavy usage.



#### SEALOCRETE CONCRETE SURFACE DRESSING

This is a liquid which is applied to newly laid or existing concrete floors to render them dustproof, oilproof and case hardened. It can be applied to all kinds of existing concrete, granolithic, slag or ballast finished floors. The action of the solution is to penetrate the pores and voids and becomes an integral part of the concrete leaving a case hardened mass.



#### SEALANTONE LIQUID COLOURS

Available in many colours and as they are in liquid form they are simple and clean to mix. They have no deleterious effect on cement or concrete. In fact, they give increased crushing and tensile strength as well as increased resistance to oil and grease penetration and prevent dusting.



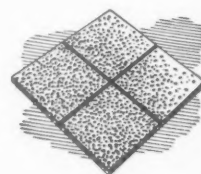
#### SEALOCRETE COLOURED CONCRETE SURFACE DRESSING

This is available in twelve colours and is used on concrete floors not subjected to heavy traffic. Floors so treated should be wax polished after the second application.



#### SEALOCRETE COLOURED CORK FLOORING COMPOUND

Mixed with Portland Cement and water produces a light duty floor which is warm, resilient, colourful and waterproof. It is unaffected by climatic conditions and can be used as a topping for tile work.



# SEALOCRETE

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*Festival Gardens  
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Specialized Fire Protection Service.*

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**TRINIDAD    MALTA      EAST AFRICA**



**PERMANENT COLOUR.** All Marley tiles are surfaced with fixed coloured granules, the colour of which is permanent. There is no frost colour, a distinctive feature which can be tested by washing. When these qualities are desired, the Specification should call for "Approved fixed-colour granule-faced concrete tiles."

**MARLEY**

The Marley Tile Company Limited, London Road, Riverhead, Kent. Sevenoaks regd

a fixed  
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T.516P  
enamel  
fluoresc

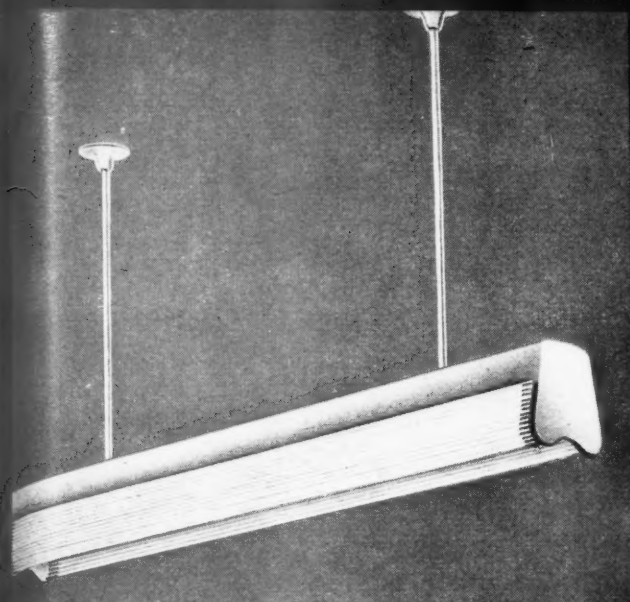
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Light

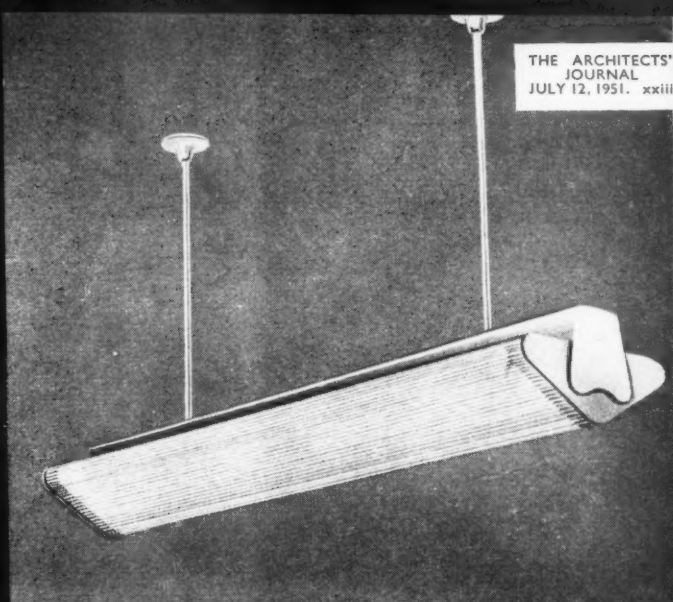
T

143

T.41  
Cont  
fluor



**T.516P Pendant.** Type: diffused general with direct downward light. Finish: stove enamelled off-white. Perspex:  $\frac{1}{4}$  in. internal reeds. Lamps: two 5-ft. tubular fluorescent. Control gear: with starter switches only.



**T.511P Pendant.** Type: diffused general. Finish: stove enamelled off-white. Perspex:  $\frac{1}{4}$  in. external reeds. Lamps: two 5-ft. tubular fluorescent. Control gear: with starter switches only.

**Tubalux fluorescent lighting fittings have the same quality of simplicity and elegance that is characteristic of our other well known ranges of fittings.**

**With the availability of fluorescent lamps in various lengths and wattages there has been an increasing demand for fittings of similar designs but in varying sizes.**

**The Tubalux range has, therefore, been considerably extended to meet this need.**

**Design has been based on the use of standard components with considerable interchangeability, and large scale production to fine limits ensures easy and accurate assembly.**

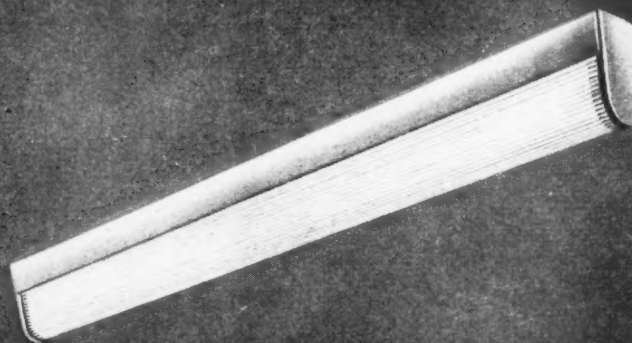
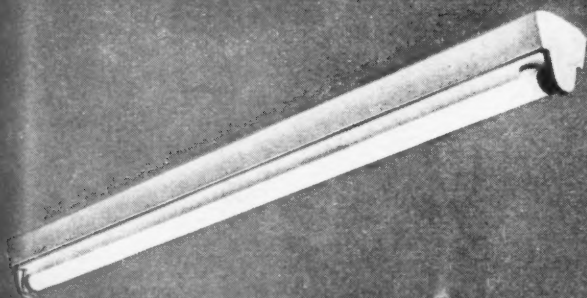
**Illustrated here are some examples of the Tubalux range. The complete range can be seen at the Lighting Centre in Knightsbridge, where you can also see our other ranges, Mondolite, Ultralux and Versalite.**

**TROUGHTON & YOUNG (LIGHTING) LIMITED**  
*The Lighting Centre*

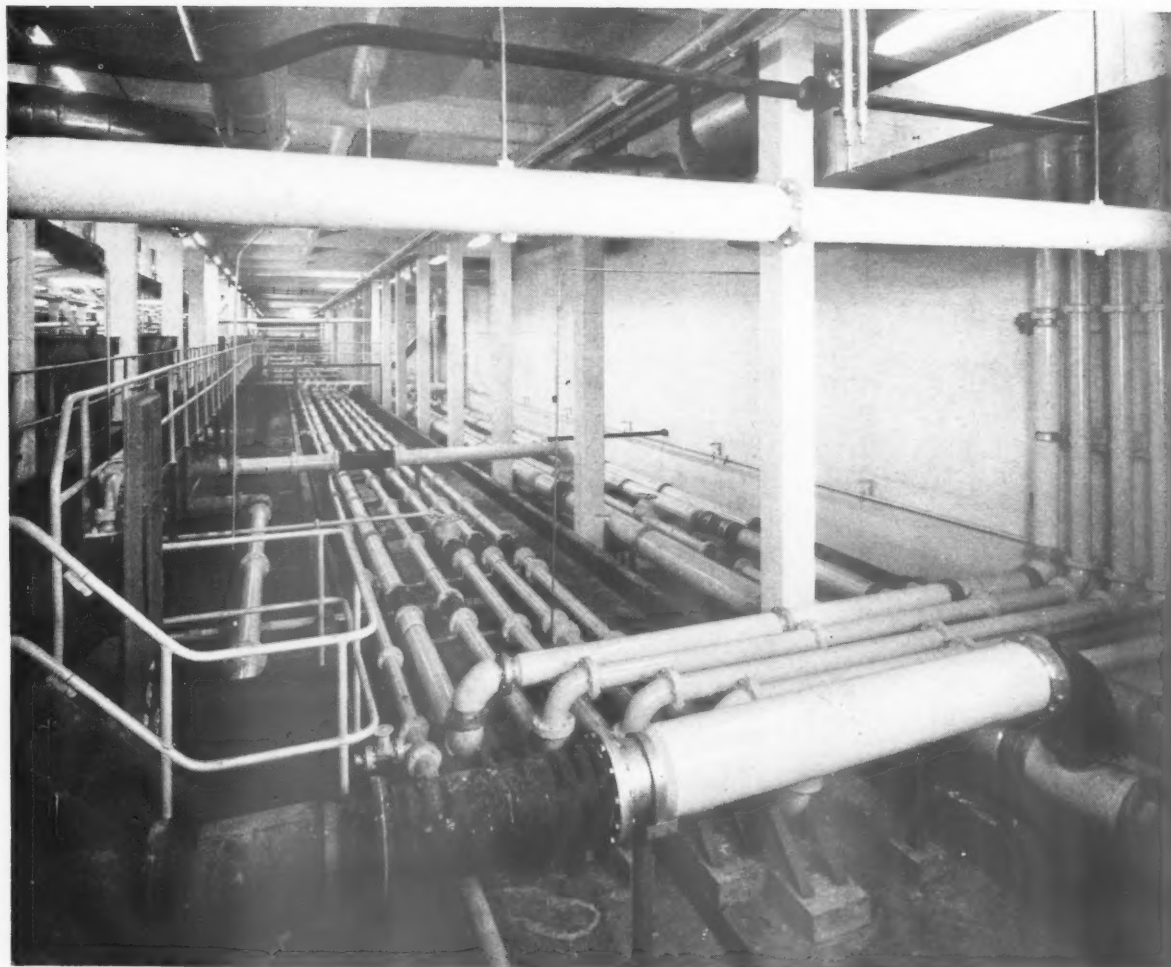
143 KNIGHTSBRIDGE, LONDON, S.W.1. TELEPHONE: KENSINGTON 7457 (15 LINES)

**T.417 Ceiling.** Type: open batten direct light. Finish: stove enamelled off-white. Control gear: with starter switch or Quickstart unit. Lamp: one 4-ft. tubular fluorescent.

**T.418 Ceiling.** Type: diffused general light. Finish: stove enamelled off-white. Perspex:  $\frac{1}{4}$  in. internal reeds. Lamp: one 4-ft. tubular fluorescent. Control gear: with starter switch or Quickstart unit.



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NEW WALLS

# Sprayed LIMPET ASBESTOS



COUNCIL CHAMBER,  
BELFAST CITY HALL.

The ceiling illustrated has been treated with Sprayed Limpet Asbestos to reduce reverberation, and shows the excellent finish which can be obtained by this method of acoustic treatment.

Sprayed Limpet Asbestos is used wherever a Sound Absorbent Surface is required, and because of its Fire-proof and Vermin-proof qualities, it is especially suitable for use in Hospitals, Offices, Swimming Baths, and in other places where reverberation is excessive.

Newalls Sprayed Limpet Asbestos is also widely used for Acoustic Correction in Cinemas, Churches, and other Auditoria.

Newalls Insulation Co. Ltd., maintain a fully equipped Sound Laboratory for the investigation of problems connected with the use of Acoustic materials.



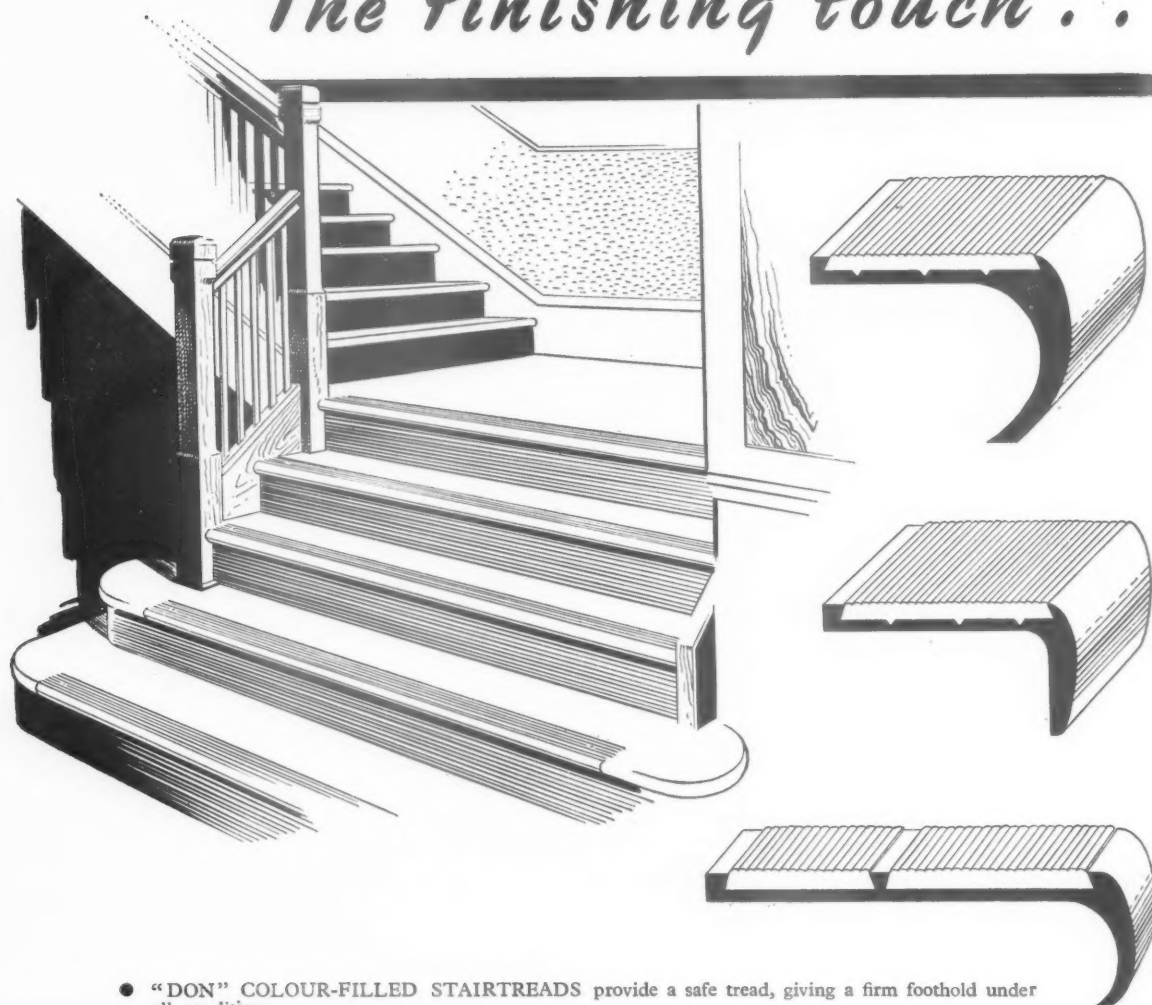
HEAD OFFICE: WASHINGTON, COUNTY DURHAM.  
A MEMBER OF THE TURNER AND NEWALL ORGANISATION.

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# *The finishing touch...*



- "DON" COLOUR-FILLED STAIRTREADS provide a safe tread, giving a firm foothold under all conditions.
- Aluminium nosings, together with the attractive colour range which is available, clearly show up each step, combining artistry with safety.
- Available in the following attractive range of colours: brown, silver, green, gold, blue, maroon, black, white, pink and red.
- The more common type of fabric-filled stairtreads can be supplied as well as our well-known colour range.
- Comprehensive range of nosings available—send for brochure, and copy of Architects' Journal Information Sheet.



COLOUR-FILLED  
ALUMINIUM

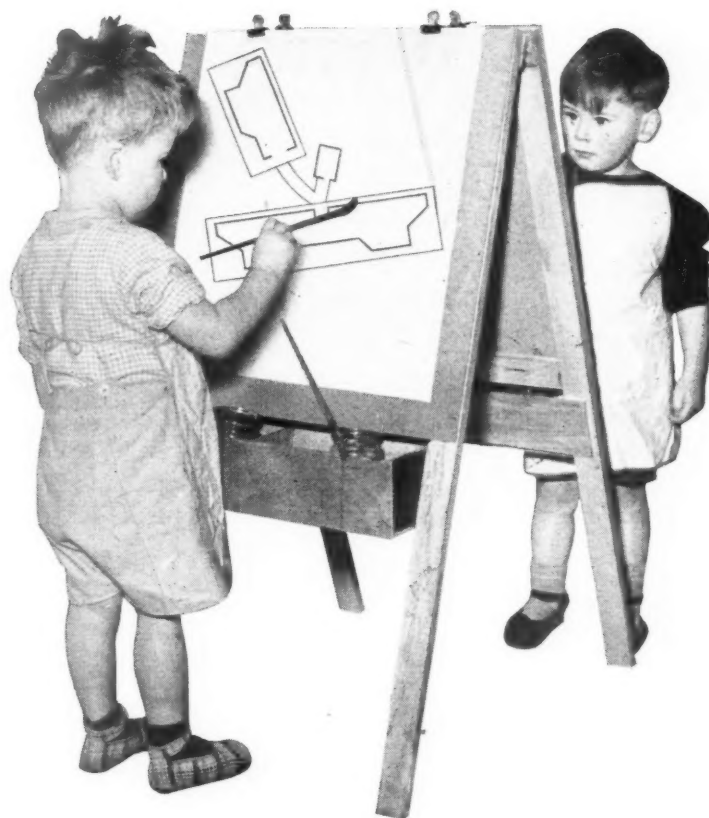
*stairtreads*

PATENT No. 645569

SMALL & PARKES LIMITED · MANCHESTER · 9  
LONDON: 18 HIGH STREET, WIMBLEDON, S.W.19



## *a triple unit ASCOS for 120 children saves £24,000 in nursery school costs*



### *single and double units save in proportion*

The normal cost of a nursery school has been estimated at £400 per place. The Ascosp Nursery School or Day Nursery, basically a single self-contained rectangular unit for 40 children but expandable to a double unit for 80 children or a triple unit for 120 children, reduces the cost to £200 per place—whilst still providing 1000 sq. ft. of playroom space per unit of 40 children.

It effects this saving by dispensing with unnecessary corridors and partitions, by more logical planning of kitchen, staff, store and sanitary accommodation. It offers improved amenities for children and staff, is sound in construction, and takes only 3 to 4 months to erect. It is the answer to the urgent need of today for better child environment at economical cost.

*An illustrated brochure describing its construction, features, finish and services will be sent to you gladly on request.*

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**FESTIVAL OF BRITAIN**  
**SOUTH BANK EXHIBITION**

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*British made*



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The SUNDEALA range includes Hardboards, Medium Hardboards, Flameproofed Boards, Insulation Boards, also 'V Clip' and 'Concealed Clip' Metal Fixing Systems. Interesting applications at the South Bank Exhibition are as follows:—

**THE TOWER** Sundeala 'A' Quality Medium Hardboard. Sundeala Flameproofed Medium Hardboard. Metal Fixing employed.

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**WATERLOO BRIDGE QUEUEING SPACE** Sundeala 'A' Quality Medium Hardboard. Metal Fixing employed.

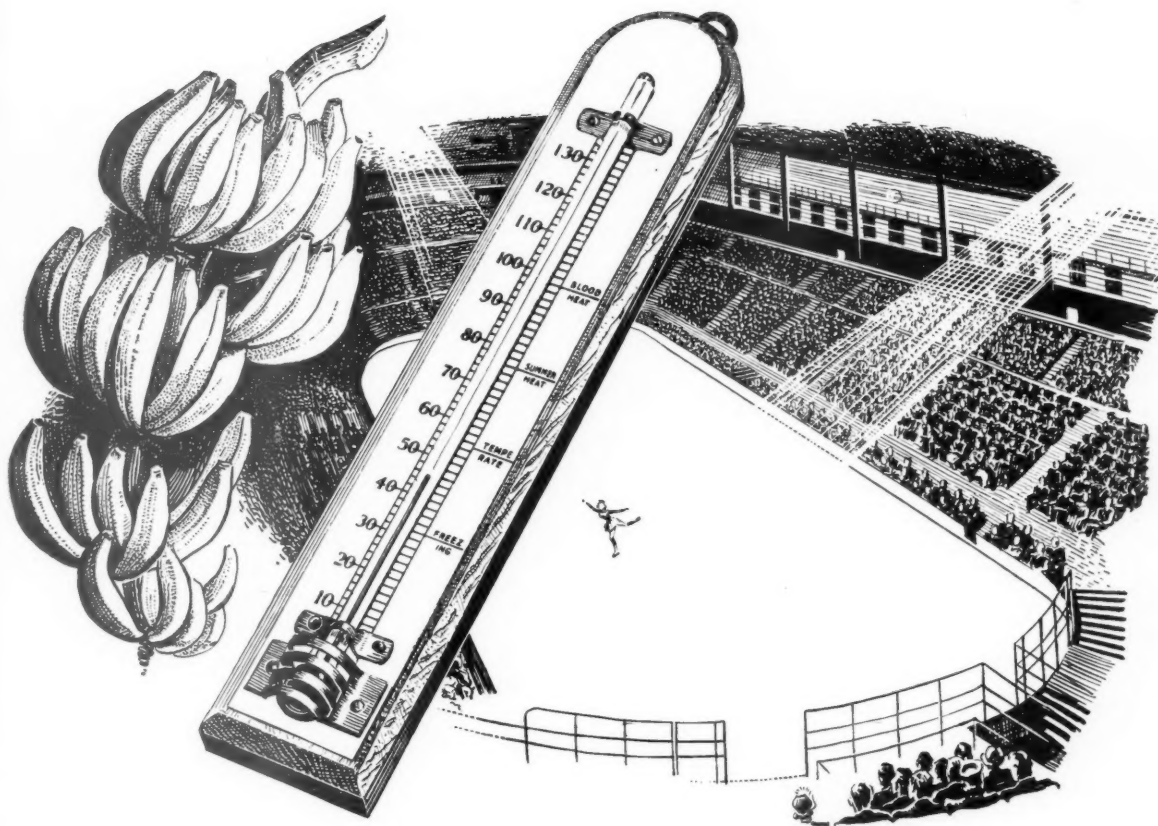
**HOMES & GARDENS PAVILION** Sundeala Insulation Board with 'Concealed Clip' fixing throughout.

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Temperature is our speciality. Whether it is ice for a skating rink or air conditioning for fruit en route for Europe, we know the answers. For 70 years now, we have been bringing the benefits of refrigeration to trade and industry. We are, in fact, the only firm in Britain who manufacture for all four sections of the industry — Heavy Industrial equipment, Commercial, Marine and Domestic. Furthermore, we have always made it our special concern to ensure

that each of our customers, big, medium and small receives a first-class service in the maintenance of his equipment. If refrigeration is your problem why not drop us a line? It is almost certain that we can help you.

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 'Phone : TRAfalgar 3517-8  
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The "HILLINGTON" (16 cu. ft.). An all-steel service cabinet, suitable for Hotels, Restaurants, Cafes, etc. Powered by a Hermetically Sealed Unit, which is guaranteed for 5 years.

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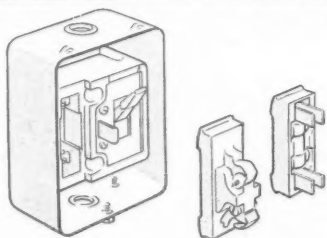


1,000 tons of steel was used in the construction of a storage shed for the West Norfolk Farmers Manure & Chemical Co. Ltd., at King's Lynn. The shed had to be built on a difficult site presenting some unusual constructional problems. Fabrication took place at the works of Boulton & Paul in Norwich and all erection was carried out on the site by the Company's own staff.

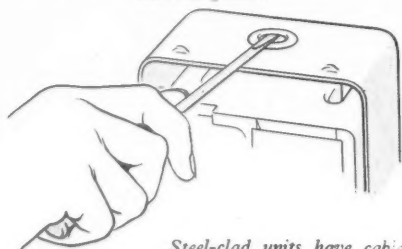
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YOU GAIN WITH  
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Carriers for cartridge or rewirable fuses are interchangeable.



Steel-clad units have cable bushes which can be removed in a moment when conduit is used.



The Memspan (all-insulated) switch-fuse. Cable entry at top, bottom or back to comply with I.E.E. Regulation 404(f).

**AT** last you can order single pole and neutral gear designed specially for the job by M E M. You gain in neatness and compactness because better use is made of the space. You get the latest type of slow-break A.C. switch, full interlocking, and you can choose either BS 1361 cartridge or rewirable fuses with interchangeable carriers. The provision for easy wiring will save time and cut costs. The range includes 15, 30 and 60 amp switchfuses and 2, 3 and 4-way splitters.

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Switch, fuse and  
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Send for the new  
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## Air-lift for "KISOL"

*Vermiculite*



200 bags of "KISOL" ready to leave Ringway Airport, Manchester for I.O.M.

200 bags of "KISOL" Vermiculite—a total of 700 cu. ft., weighing only 25 cwt., were recently flown from Manchester to the Isle of Man in this light freighter. This is indeed evidence of the exceptional lightness of "KISOL", and its usefulness to the architect and builder in providing a versatile insulating material of great advantage in building construction, solving many building problems such as reducing the dead-weight load on structures.

At Ronaldsway Airport I.O.M., "KISOL" Vermiculite concrete was used to insulate the whole of the roof—for one inch of "KISOL" has the equivalent insulating value of 15 inches of ordinary concrete.



Roof of Ronaldsway Airport, I.O.M. screeded with "KISOL" Vermiculite.



"KISOL" Vermiculite Concrete is esteemed by architects and builders because its absence of joints and low temperature-movement make it an ideal base for final waterproofing.

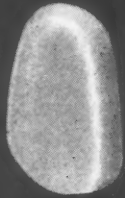
**WILLIAM KENYON & SONS LIMITED**  
DUKINFIELD INSULATION ENGINEERS CHESHIRE

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# Specify door furniture by

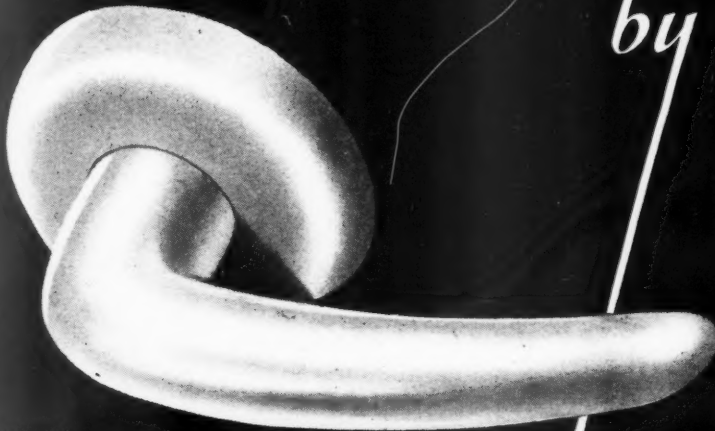


No. 280.  
LEVER, MORTICE.  
Reg. design.

Concealed fitting.

Spring loaded.

In this model the patented  
"floating spindle" principle is used.



Lacrinoid plastics door furniture is close to functional perfection. It is made to stand up to all the use, and even abuse, it is likely to receive, and to do its job with quiet smooth efficiency throughout its long life.

Though designed primarily for its mechanical purpose, Lacrinoid door furniture is pleasant to the hand and a delight to the eye. The shapes are simple, the colours fast, the brilliance lasting — and the range is wide enough to suit all conditions of use.

Write for details of the full range  
to the address below.

## LACRINOID

TRADE MARK

LACRINOID PRODUCTS LTD · GIDEA PARK WORKS · GIDEA PARK · ESSEX

TELEPHONE: HORNCHURCH 2981/6

No. 400  
KNOB MORTICE or RIM  
Reg. Design



Oval Knob, D.T. spindle  
or "Floating spindle"

No. 270A  
LEVER, MORTICE  
Reg. Design

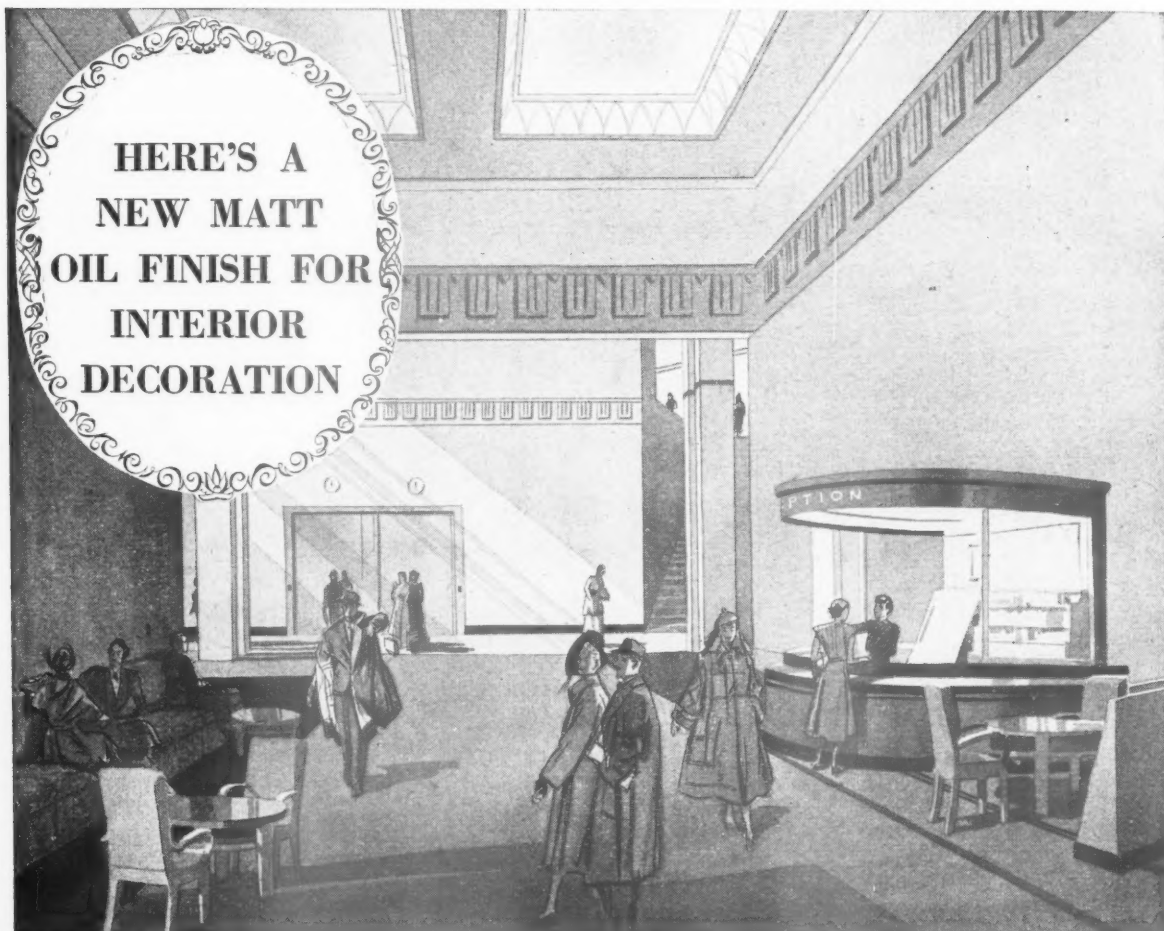


Spring loaded  
"Floating spindle"

No. 260A  
KNOB, MORTICE  
Reg. Design



Fixed rose  
"Floating spindle"



**I**N hotels, flats, private homes and offices; in hospitals, schools, public and factory buildings, MURAC gives a finish to walls that is quickly and economically applied, beautiful to see, easy to clean and *long lasting*!

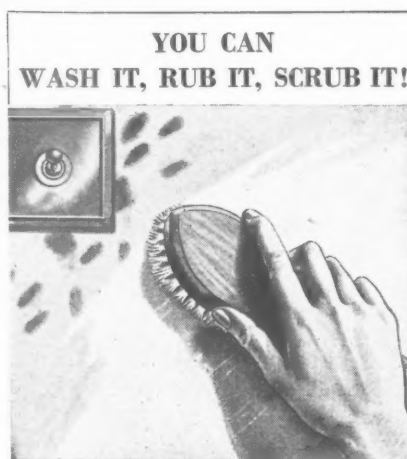
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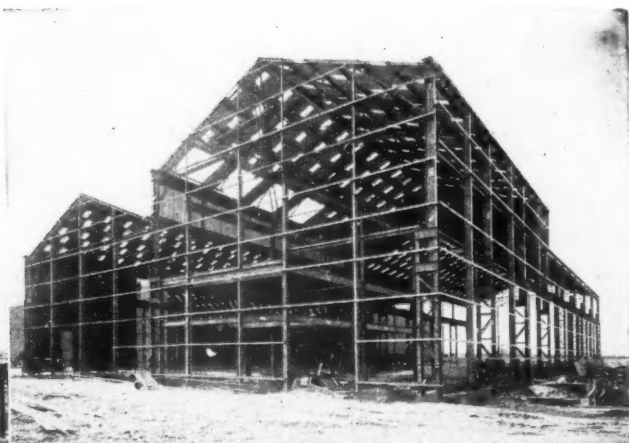
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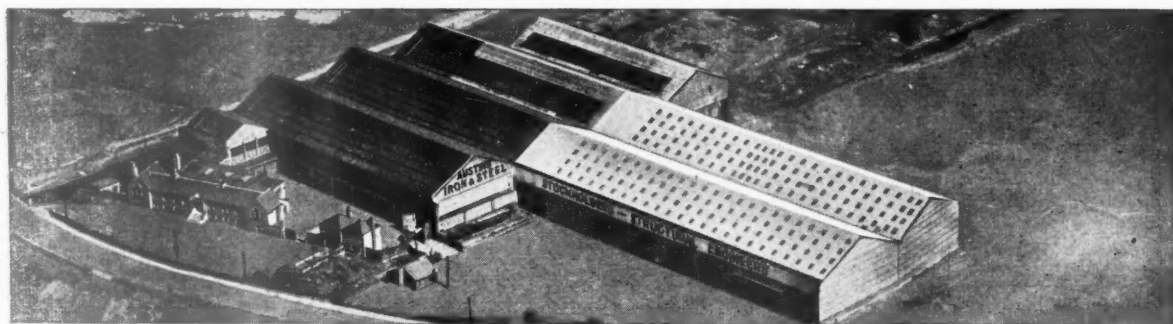
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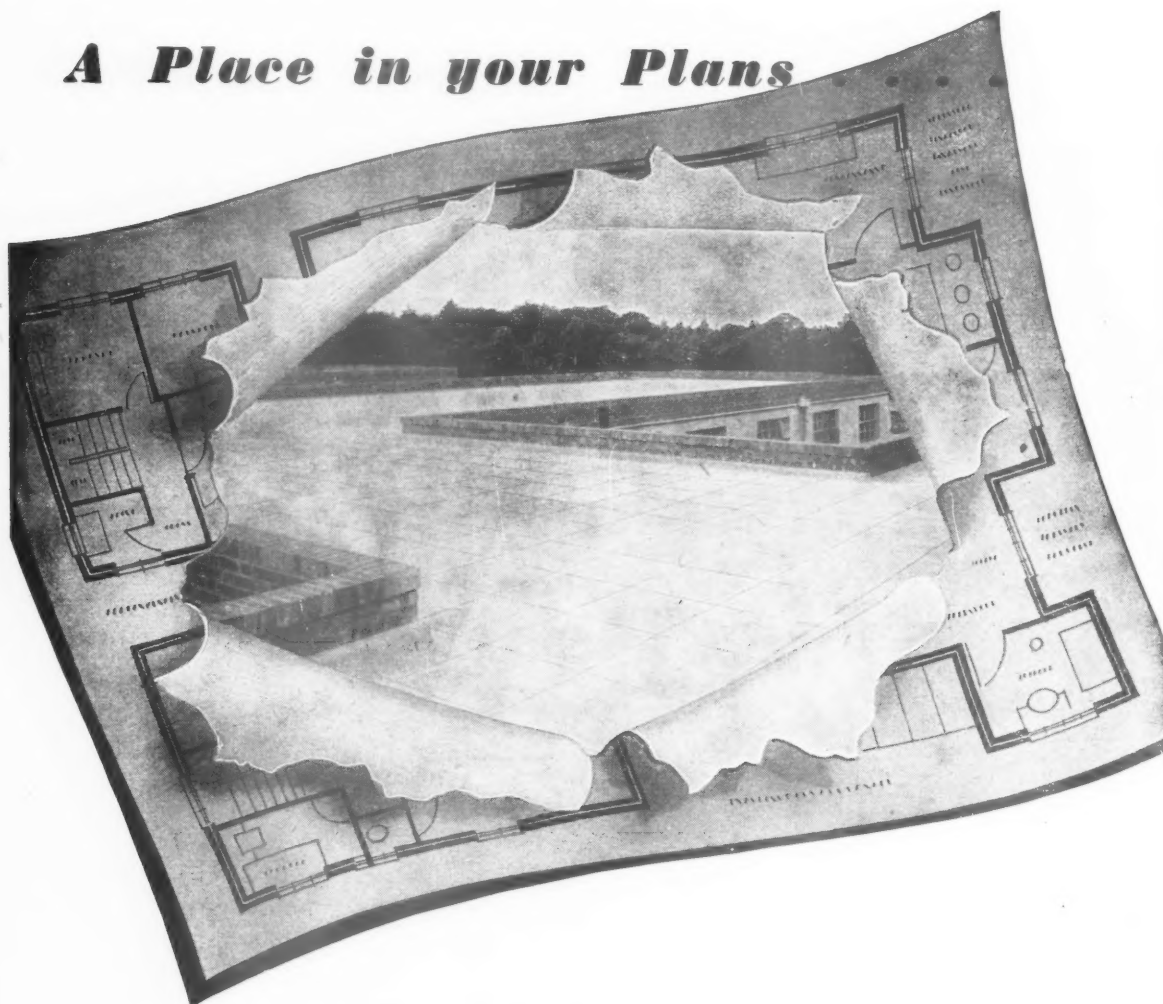


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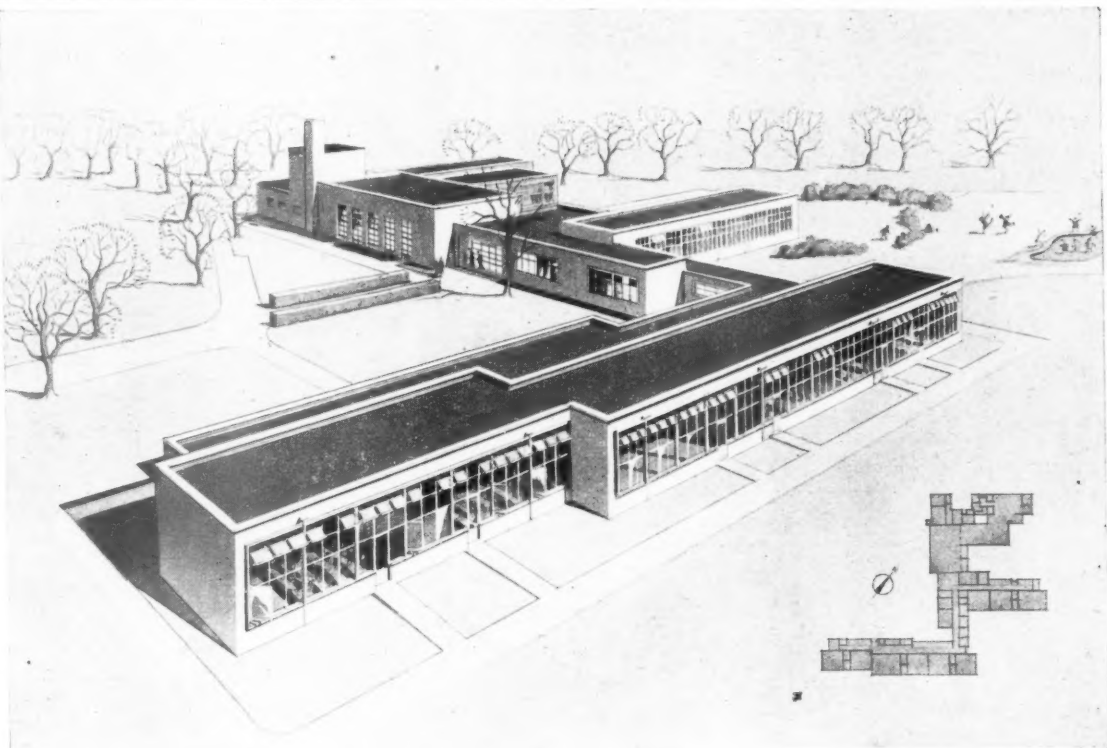
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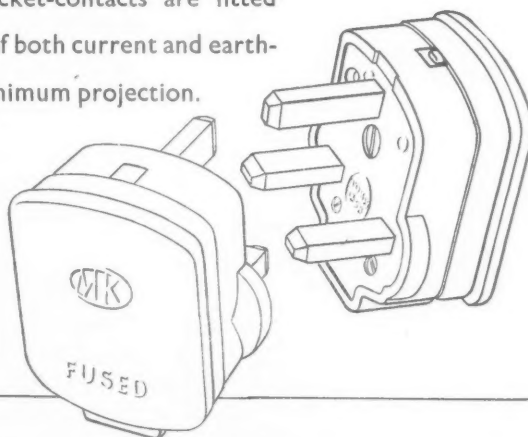


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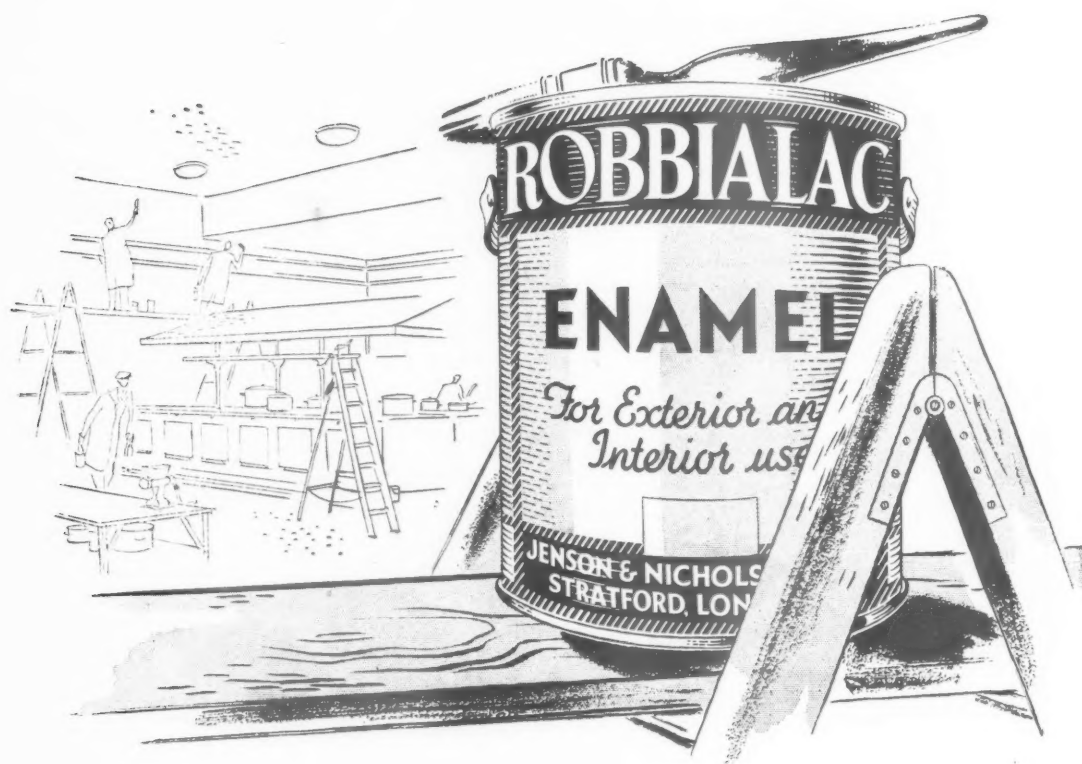
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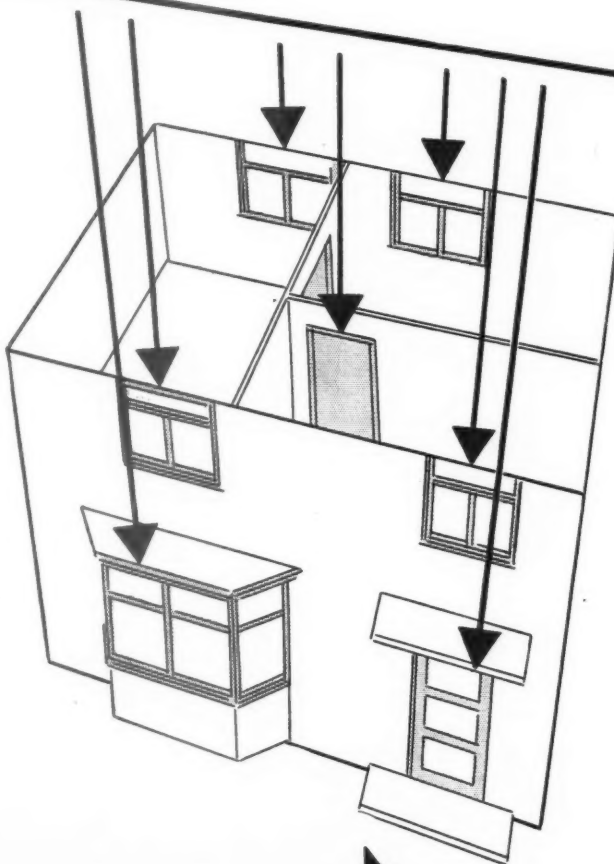
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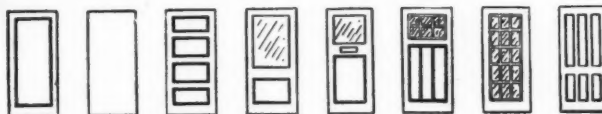
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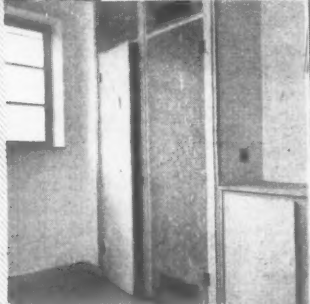




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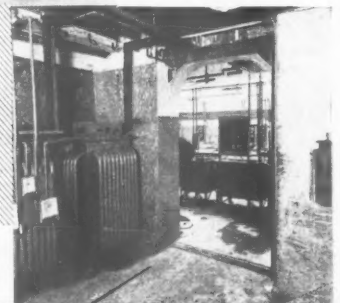
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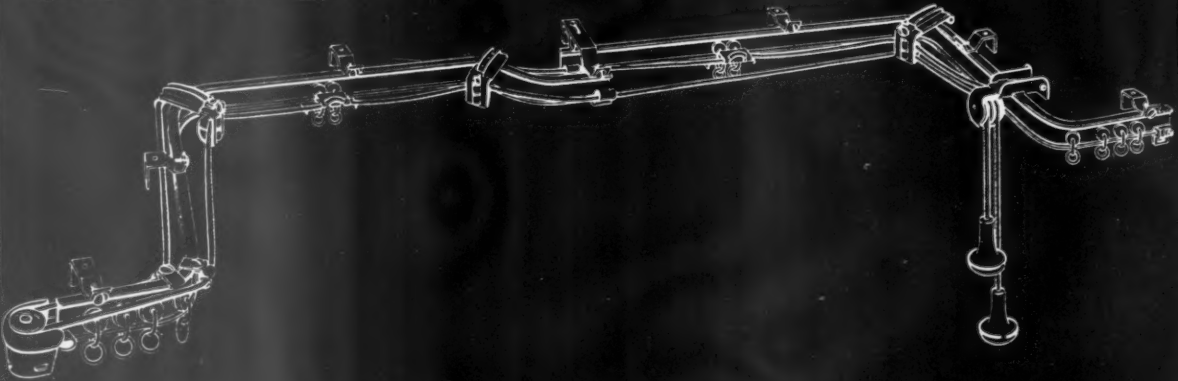
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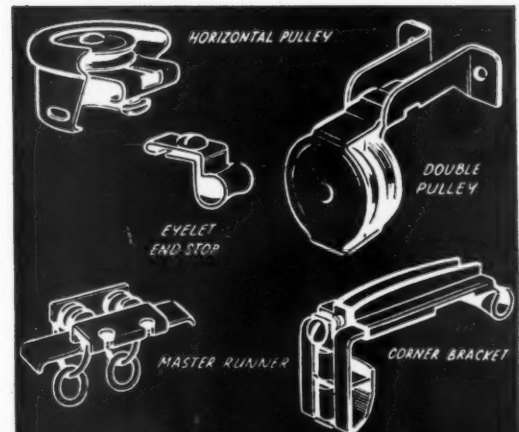
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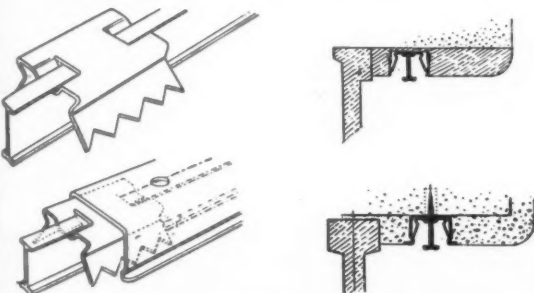


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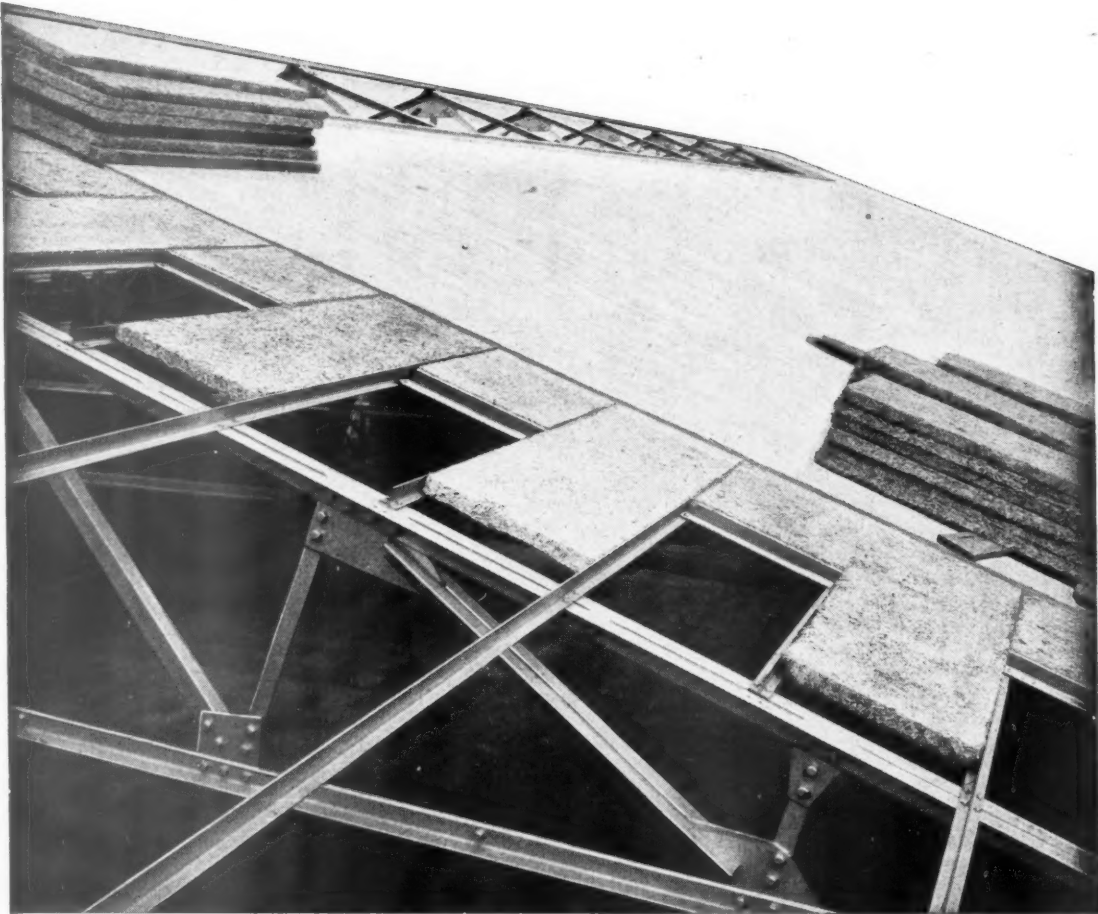


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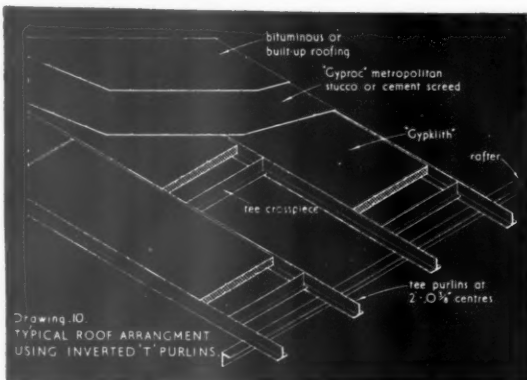
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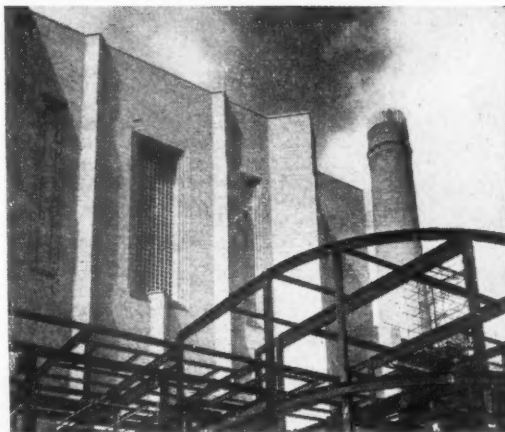


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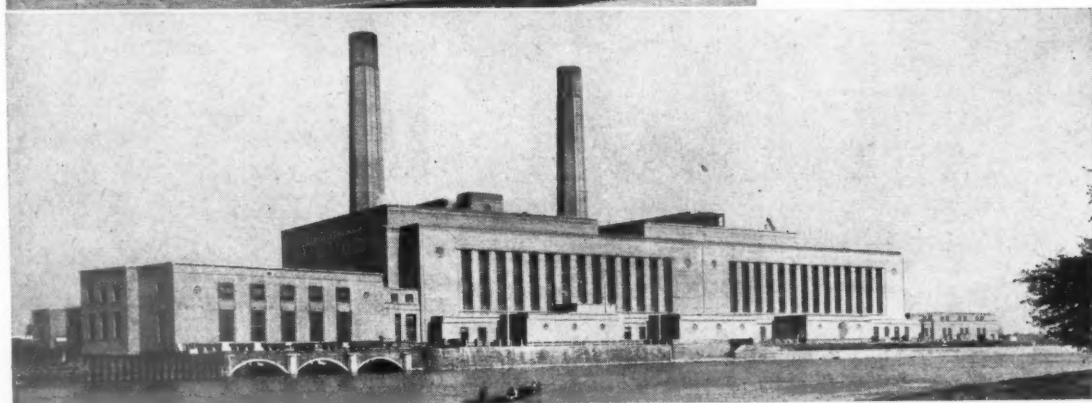
The high-priority requirements of the British Electricity Authority, added to the urgent demands for Houses and Flats, Schools, Office Blocks, Industrial and many other types of building, have taxed the resources of the brick industry. Production is increasing in the face of many difficulties, and a steady improvement in the supply position is assured.



*Above:* Portion of Croydon Power Station, under construction.  
Architect: Robert Atkinson, F.R.I.B.A.



*Left:* Stourport 'B' Power Station.  
Architects: Farmer & Dark, F/F.R.I.B.A.



*Below:* Staythorpe Power Station.  
Architect: T. Cecil Howitt, D.S.O., O.B.E., F.R.I.B.A.

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*The Modern Building Material*

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No. 2941 12 JULY 1951 VOL 114

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## ARCHITECTS AS FILM STARS

A housing film which the Crown Film Unit has made for MOLGP was shown to the press the other day. I recommend all architects to see it who can, though it is designed primarily for local government officials and their committees, especially the lay members of housing and town planning committees. It is called "Houses in the Town," deals chiefly with density and architectural variety in housing layout, and puts across an intelligent policy without too much beating about the bush.

Instead of the all-knowing professional commentator of the average documentary film, who tends to make every subject unreal and far too little of a problem, three slightly worried-looking architects are called in to explain the points, and very well they do it. They

treat housing as a human problem and take the audience into their confidence about the difficulties to be met with. Holford is seen in the classroom, Gibberd is seen (and heard) playing about with models of his Hackney housing scheme and Robert Matthew talks about Lansbury in front of another model.

The film is to be shown shortly to a thousand local government delegates at TCPA's Bournemouth conference; also at Lansbury, where I hope it will help to bring more visitors to the Live Architecture exhibition. The attendance there has been disappointing so far—only about a third, I believe, of the numbers expected. That shouldn't be so, as there is plenty to see of quite unusual interest and significance.

As the buildings at Lansbury go up there is more to see and a clearer impression to be obtained of the form the neighbourhood will eventually take. For this reason attendances may improve, but it is in architects' own interest that they should do all they can to get the exhibition better known.

## ARCHITECTS AS PHOTOGRAPHERS

Last week, at the AA, the American architect-author-photographer Kidder Smith showed slides of some of the best coloured photographs I have ever seen. He is careful to limit the range of colours in his view-finder and the subject-matter for his talk, the architecture of North Africa, made this comparatively easy for him. As a result, the colours were as true to the original as any I have seen.

He concluded his talk by saying that he was anxious to get back to the drawing board for a time after the last few years of hard writing and photography

producing the *Sweden Builds*, *Switzerland Builds*, series of books with which most of my readers will be so familiar. He jokingly suggested that his next book would have to be titled: *Smith Builds*. I hope it is.

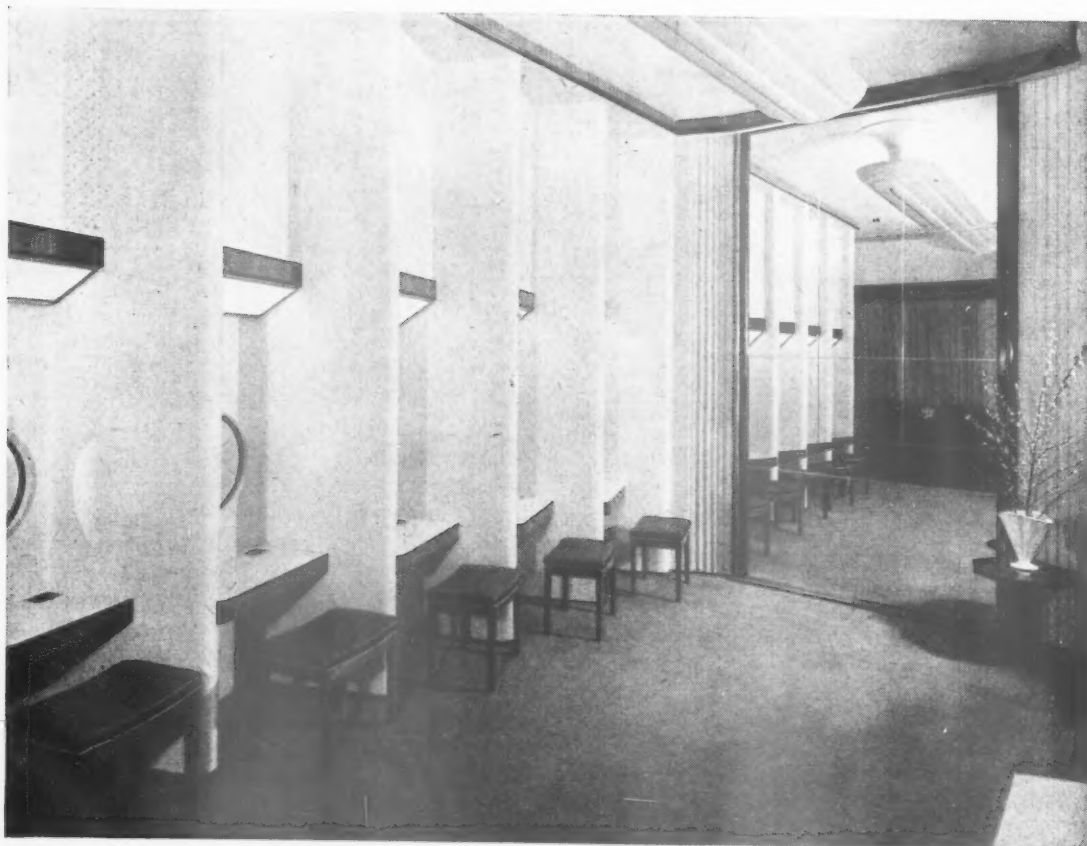
## LONDON BUILDING GUIDE

One of my favourite books cost me sixpence. It is called "New Sights of London," it was written by Hugh Casson and was published by London Transport in 1938. A charming little paperback volume with many simple line drawings and several photographs, it described itself as "the handy guide to contemporary architecture." I value it the more because it has been out of print for a decade.

The booklet was particularly useful to foreign and provincial architects who wanted to see the best modern buildings London had to show. Now happily something of the same kind has just been published by the *Architectural Press*. Ian McCallum, one of the editors of the *Architectural Review*, is the compiler and author. It is called "A Pocket Guide to Modern Buildings in London" and it costs three and six, which is not bad value as prices go today. To make some odious comparisons—the reproduction of photographs is not so sparkling in the new booklet as in the old, but there are many more of them. The new volume also has four maps and a bibliography, which "New Sights" had not. It is less "Popular" than "New Sights" and has been made specifically for architects, and people of that sort, rather than for laymen—in containing technical information on construction, for instance.

Says an introductory note, "this guide to modern architecture in London is a

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selective one. It is in no sense a complete catalogue." Yet I found it remarkably comprehensive and could not think of one significant building of the last twenty years which has been left out of either the main text or the lists at the back. The introduction is a concise and intelligent analysis of the development of modern architecture, a development which Mr. McCallum breaks down into four phases—First, the advent of the great engineer; second, the revolt of the architect; third, the establishment of a new architecture; fourth, the reformation of environment. The new London buildings, he says, mostly display phase three and the beginnings of phase four.

#### CIAM 8

The eighth congress of the CIAM opened at Hoddesdon, in Hertfordshire, on Saturday against the background of a rather decrepit Victorian mansion, now converted into a conference centre. The congress will discuss problems of the urban centre, "the core," as it is termed in the congress agenda. Fortunately there are few absentees among the leading supporters of CIAM. Van Eesteren, le Corbusier, Sert, Professor Gropius, and of course the secretary, Siegfried Giedion, will guide the discussion, which is later to be embodied in a publication. Among others who are present is Serge Chermayeff, whom it is pleasant to see once more after his long absence in the US. Some twenty-one countries are represented, including Japan, the Japanese delegates having been in their native country only two days before the congress began. One misses the architects from the Eastern European countries who in the past have contributed much of value to the work of CIAM. I hope to deal more fully with the work of the congress in next week's issue, and in the meantime extend a welcome to these representatives from abroad of our profession.

#### LOST HORIZON

[Too rarely do ASTRAGAL's natterings get any support from architects. It is thus heartening to know that in this week's correspondence column the Editor is publishing a note from an Edinburgh architect who supports my remarks on the Scottish Hydro-Electric schemes and adds some fair comment



*J. L. Sert, J. M. Richards and Le Corbusier (left to right) at the eighth congress of CIAM, which is being held this week at Hoddesdon, in Hertfordshire. (CIAM meets every two or three years in a different European centre.) Mr. Sert, who comes from the USA, is president and opened the congress on Sunday with a talk on the congress theme, "The Need for the Core." The sixteen CIAM delegates from various countries then visited two new Hertfordshire schools, including one at Hoddesdon, designed by C. H. Aslin, the Hertfordshire county architect, where this photograph was taken. Le Corbusier and J. M. Richards have already spoken. Tomorrow the delegates will meet to discuss architectural education, with Professor W. G. Holford in the chair, and on Saturday, after a meeting at the RIBA they will be entertained at a party to be given by the ICA.*

of his own. I believe that the writer, who prefers to be anonymous, is connected with architectural education and has some standing in Scottish architectural circles. It is a pity, he says, that the structures are not built underground. Exactly. Why not? Cost as usual, I suppose.

#### UNPLEASANT QUESTIONS

PEP's new\* broadsheet deals with the basic aspects of town and country planning. It says, truly, that we have not got the kind of land-use planning that was asked for in the Barlow, Scott & Uthwatt reports; and asks why not, and what we mean to do about it. It also makes it clear that PEP means to pursue the matter.

\*

Uneasy sensations are likely to run down a number of high level Whitehall backbones at this. For, of course, we have not a land-use planning which is national as well as local, and we have

not a powerful Ministry, having no land-use claims of its own, which will lay down national policies and standards and see that local and regional plans (and all Departments' plans) conform. Until recently we had an unbiased Ministry with little power: now we have a powerful Ministry which is powerful because of the magnitude of its own land-use claims and responsibilities not concerned with planning. It is a Ministry of local planning whose job is to make a good patchwork quilt of local plans and prevent the more obvious and short-term Departmental blunders by means of a case-by-case rough and tumble with occasional appeals to the Cabinet.

\*

Moreover, even local plans—though infinitely better than no plans—cannot be really good if no general guidance is given from the centre and when much information of consequence is withheld from local planners by the Board of Trade, Ministry of Labour and the Registrar-General.

\* An approach to Land-use Planning PEP Broadsheet 329.



## *Awaiting a Change of Scenery*

The new technique of lifting floor and roof slabs has already been briefly described and illustrated in the JOURNAL, and elsewhere, and an architect, O'Neil Ford, who has used the process to construct his own designs in Texas, has spoken vividly in London and several cities in the provinces about his experiences with it. On pages 51 to 56 of this issue is printed a summary of what Mr. Ford said in his London talk, and of the questions asked afterwards and the answers he gave. This is followed by a few comments from representatives of the building pro-

fessions on their first reactions to the new technique. So, with the idea, the principal characters, so to speak, introduced to the British building industry, the curtain falls on the first act. The next act, it is to be hoped, will be one of experiment and adaptation. Whether the play will have a sad or happy ending, however, it is too early to guess. The photograph above, with O'Neil Ford in the foreground (left) will, perhaps, serve to remind readers of the essential simplicity of the operation, and demonstrates the fine architectural quality of this type of construction.

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PEP say that we ought to have a national policy for using the scarce commodity of land, and one which will change our environment and distribution of resources into something better. This may take a long time but we should steadily work towards it and check progress by suitable research. If we cannot do this, then land-use planning as most of us hoped for eight or ten years ago is impossible and MOLGP's machinery and powers are too large. As has been said, PEP intends to pursue this fascinating subject.

#### ONE MORE SHOW

In a year of shows ASTRAGAL's public may be quite glad to hear of one where the architect has not been called upon to extend himself: the Royal Agricultural Show—bigger than ever, and held this year at Cambridge.

\*

There probably were some well designed stands. From a furlong away Northern Ireland, Shell and a few more seemed promising. There were certainly scores of horrors. But horrors, close-up, at Olympia are one thing. In sunshine, across the 100 foot grass avenues of a beautiful site and behind the scarlets, blues and canary yellows of mechanized agriculture, one hardly noticed them.

\*

One did notice that a 150 acre grid-iron layout could be very convenient, that the mobile banks are good but are well beaten by the mobile Post Office and that the 1905 cricket pavilion style of the buildings round the Grand Ring seemed just right. ASTRAGAL (and the Duke of Gloucester) watched the judging of Guernsey bulls—the rails seemed very flimsy — and was astonished to find how large a Large White really was; and is glad to spread the news that a petrol-driven spade now exists. Honest.

\*

Special award should go to the police for the traffic arrangements. The site is jammed between two railway lines and appears from the map to be peculiarly inaccessible. But — thanks perhaps to "No Waiting" notices for miles around and plenty of walkie-talkies—there wasn't the sign of a hitch. We are really beginning to do all these things well. Gives one a lift, don't you think?

ASTRAGAL

## No. 2: Guest Editor

### LABOUR PROBLEMS WHICH DECREASE PRODUCTION

**A**RCHITECTS generally do not realize the difficulties that the builder has to face with labour nowadays.

Since the introduction of incentives in 1947 quite a number of operatives have been travelling from job to job, offering their services to the builder who will bid the highest. This situation is entirely against the interests of the trade and the community. There are many builders in the country paying "plus rates," over and above the national joint Agreed Rates, without in any way relating the performance of the operatives to the output. It is invariably those who have not taken the trouble to study incentive methods who take the easy course of paying the men anything from 3d. to 1s. above the agreed hourly rate of pay. The building trade has always been considered a casual calling by most of its labour. Going from job to job—as men do repeatedly, nowadays, in order to get an extra penny an hour—has had a most derogatory effect on productivity. It is no unusual happening, at any rate in the Midlands, for ten men to give in their notice on Friday, and for the foreman to start ten other men the following Monday. In effect, the whole of the personnel on jobs in the Midland area, carrying, say, one hundred men, changes completely, on the average, every three months.

There is no question that incentive schemes have considerably increased productivity since the immediate post-war phase, but the output per man today is still well below that which was achieved before the war. The loss of production caused by men changing their jobs offsets to a great extent what has been gained by incentives. It is possible that the ability to change jobs rapidly has come about largely because there is too much work being licensed for the labour available. In consequence, the men have a dozen jobs from which to choose. If this is the cause, it will be interesting to see the effect of the Government's policy of issuing fewer licences as a result of the defence programme.

## No. 8: Specialist Editor

### DEVELOPMENT PLANS

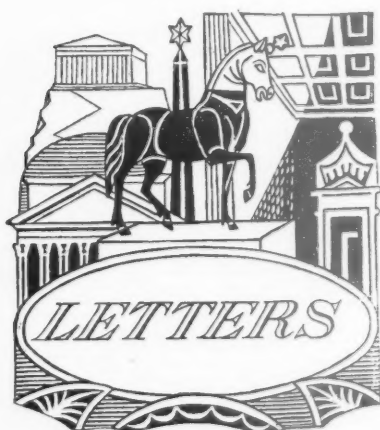
One of the last documents to be produced by the former Ministry of Town and Country Planning was Circular 92, Reproduction of Survey and Development Plan Maps. The main content of this circular is a set of revised notations whose use will make possible cheap and rapid reproduction of maps and plans in the numbers required by modern practice. A brief description of the design of this new notation was given in the Technical Section of last week's JOURNAL, and in subsequent issues Information Sheets will show examples.

The publication of the circular ends the lengthy period on which the Ministry has been engaged in preparing map notations. It may seem extraordinary that several years



should have been devoted to a subject which, after all, represents no more than part of the planner's equipment. Unfortunately, a faulty start was made by the publication of a set of colour notations, which, as was forecast at the time, proved to be unsuitable for use in reproduction by local authorities generally. After long delay these colour notations have been superseded by a set of monochrome notations. Well conceived, these revised notations should benefit both the producers and the users of planning maps.

As a circular, *Reproduction of Survey and Development Plan Maps* is a first-class document, skilfully and carefully produced. Although its substance, in draft form, has, apparently, been in the hands of the planning authorities for over a year, its appearance on sale actually within less than three months before the official date for the submission of the development plans is not likely to impress the supporters of the aims of planning which were so well set out in the Barlow, Scott and Uthwatt Reports and who, up to date, have seen so little in return for their support.



*Edinburgh Architect*

*N. James Rushton*

*A. H. Killick*

### Building in the Highlands

SIR.—ASTRAGAL made some pertinent comments on the Scottish Hydro-Electric Power Schemes. One has, of course, been aware for some time of the depressing quality of this work, but it has taken its collective appearance in a Saltire Society Exhibition to drive home the sorry lesson of a great opportunity lost.

The general outline of the story runs to a pattern: the well-meaning Board enjoined by Act of Parliament to "collaborate in schemes for the social improvement and economic development of their area"; the cautious official approach, with the appointment of Amenity Committees; the panel of eminent Scottish architects to advise them on "the architectural features" of power stations and other buildings.

And the resultant architecture is exactly what is to be expected in the circumstances—a clothing in local stone (6 in. thick rubble work) of the engineers' job with just those requisite architectural features, to the general accompaniment of bad primary massing, poor proportioning and clumsy detail.

But never mind; the Crafts are being fostered, and, it is piously hoped, the buildings will not conflict with their surroundings. It is a pity they couldn't be underground.

EDINBURGH ARCHITECT.

### Buns and China

SIR.—ASTRAGAL's journalistic dishonesty in so cheaply sneering at The Bun House in Sloane Square during Chelsea Week is hardly worthy of a contributor to a dignified and reputable journal.

The question of architectural taste does not arise as the offending structure purports to be a REPLICA of an historic building which, architecturally good or bad, once existed in Pimlico Road. ASTRAGAL has misled his readers, who, no doubt, will dismiss the effort with amused contempt.

N. JAMES RUSHTON.

Chelsea.

ASTRAGAL replies:—My quarrel is with the principle of attempting to build a replica of an historic building and with the extremely slipshod way in which it has been executed.

### Problems of Rent Control

SIR.—The comments by Ernest Watkins in your issue for June 21, on the RICS proposals for raising controlled rents to cover the increased cost of repairs since 1939, miss the point of the recommendations. Rent control raises three main problems:—(i) how to meet the increased cost of repairs; (ii) the removal of anomalies between tenant and tenant, where precisely similar houses have widely different controlled rents; and (iii) whether net rents should continue to be pegged to 1939 or earlier levels. The government has so far declined to deal comprehensively with the matter, with the result

that thousands of houses are falling into disrepair because 1951 repair costs cannot be met out of 1939 rents. But whatever political considerations may enter into the long-term solution of all three problems, something should (and could) be done immediately to cope with repairs. The RICS proposals are directed to that end, and they could be put into effect without difficulty or delay. They could eventually merge into the long-term proposals for amending the Rent Restrictions Acts, whenever Parliament finds time to deal with the necessary legislation. The Ridley Committee suggested that controlled rents should be reviewed by Rent Tribunals, but estimated that this would entail three years' work. The RICS memorandum clearly indicates the intention of the council to publish at a later date its views on the long-term solution.

Mr. Watkins is therefore incorrect in suggesting that the present proposals are "founded on the belief that any plan involving an increase in the rents of controlled tenancies must be so dressed up as to leave the landlord's actual monetary return unchanged since 1939." The point does not arise in a scheme which deals only with repairs, but it will obviously have to be considered in the long-term solution, whatever that might be.

A. H. KILLICK,  
Secretary. RICS.

Westminster.



### RIBA

#### New Appointments

At the Council meeting on June 19, the following appointments were made. Representatives: on Faculty of Architecture of University of Wales, Norman P. Thomas, in place of C. F. Bates; on Court of University of Sheffield, Robert Cawkwell, in place of H. B. S. Gibbs; on Advisory Committee for Rees Jeffreys Triennial lectures, TPI, H. T. Cadbury-Brown; on BSI Committee SFE/14/5, (Methods of Test for Heat Insulation), E. S. Ambrose, George Fairweather and D. E. Nightingale.

#### Social Problem in Large Blocks of Flats

The Council has approved a memorandum of evidence prepared by the Town and Country Planning and Housing Committee for submission to the Sub-Committee of the Central Housing Advisory Committee, convened to study the social needs and problems of families living in large blocks of flats.

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## 100 YEARS OF BRITISH ARCHITECTURE

## Public Relations

On the recommendation of the Public Relations Committee, the Council approved a proposal originated by the Allied Societies' Conference that a meeting should be devoted to the discussion of the place of public relations in the activities of Allied Societies. Arrangements are accordingly being made for a meeting to be held on the afternoon of Wednesday, November 7, 1951, at the RIBA for this purpose. (Note: The Allied Societies Conference is to be held on November 6, the Joint Meeting of the Conference and RIBA Council on the morning of November 7.)

## Architects in Wessex

The Council approved a scheme for the re-organization of the Wessex Society of Architects and its three constituent Societies which involves the revision of the rules of each Society. The revised rules of each Society were formally approved and the Wilts and Dorset Society of Architects was admitted as an Allied Society under the provisions of Bye-law 70. The titles of the Societies concerned will in future be: The Wessex Federal Society of Architects; The Bristol and Somerset Society of Architects; The Gloucestershire Architectural Association; The Wilts and Dorset Society of Architects.

## Tendering Without Quantities

The Council noted with satisfaction that the NFBTE have agreed to increase the limit in value of work which may be tendered for without quantities from £1,500 to £3,000. The Council also recalled that in the negotiations leading up to this decision the RIBA had undertaken on behalf of its members to co-operate in and support the revised rule and to deprecate strongly any attempt to evade the new limit.

## LCC

## Development Plan

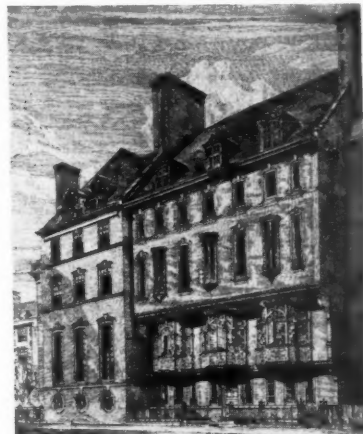
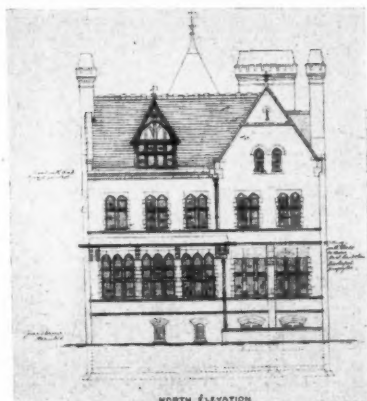
A further part of the Council's Development Plan for the Administrative County of London, as required by the Town and Country Planning Act, 1947, has now been prepared.

Research for this plan will supplement the data embodied on the County of London Plan, 1943. It is designed to forecast, co-ordinate and serve as a guide for all the building and planning activities of the Council, local authorities and other organisations and private developers in the County for the next twenty years.

It is an essential feature of the preparation of the Development Plan that it shall be on the basis of full consultation with the local authorities and other interested bodies and associations. Since these consultations began in 1948 some 800 invitations to discuss the Council's proposals have been issued and over 500 meetings have been held with members and officers of the City Corporation and Metropolitan Borough Councils, Chambers of Commerce, property owners, government departments, statutory undertakers and others. The report represents the completion of the fifth of the seven stages in which the work of preparation is being carried out.

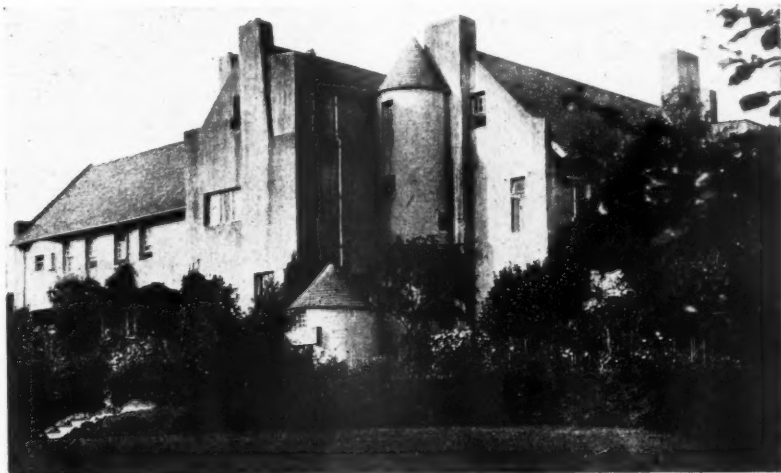
The Development Plan will comprise four main documents: *Town Map*, which illustrates the Council's proposals for the use of land.

*Programme Map*, giving a broad indication of the work which the Council expects to see undertaken and substantially completed during the first five years of the



An exhibition of the last hundred years of British architecture is now being held at the RIBA. All architects of importance are included and the range of works shown, many of them in the form of original drawings, is very wide. The photographs here show a selection of the houses in the

exhibition. Top left, William Burges' drawing for his house in Melbury Road, 1875. Top right, Swan House, Chelsea, by Richard Norman Shaw, 1876. Beneath that, "Perrycroft" by C. F. A. Voysey, 1893. Below, Mr. Blackie's house at Helensburgh, by Charles Mackintosh, 1902-04. And bottom, a house near Henley-on-Thames, by Christopher Nicholson, 1938. The exhibition will remain open until September 4.



# FESTIVAL OF BRITAIN SPECIAL ARCHITECTURAL AWARDS FOR



Old People's Cottages at Queen's Drive, Glasgow, by the Director of Housing, Glasgow.



Flats at "Passfield," Bromley Road, S.E.6., by Fry, Drew & Partners



Housing at the Somerford Estate, E.1., by Frederick Gibberd



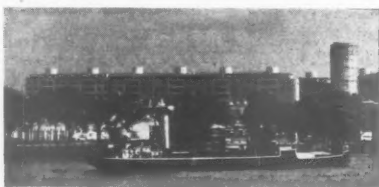
Housing at Newport, Monmouthshire, by Johnson Blackett



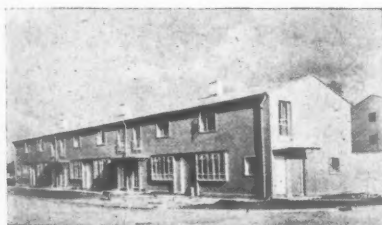
Housing at St. Pancras Way, N.W., by Norman & Dawbarn



Housing at Loddon, Norfolk, by Tayler & Green.



Flats at Pimlico, S.W.1., by Powell & Moya



Housing at Laleham Road, Shepperton, Middlesex, by Basil Spence & Partners



Colonnade House, part of The Paragon, Blackheath, by C. Bernard Brown



Housing at Oak Hill, Woodford Green, E.17, by F. E. Southgate



Cottages at Asthall, Oxfordshire, by The Peter Dunham Group

These photographs are of entries chosen for awards for the achievement of a high standard in civic or landscape design by The Council for Architecture, Town Planning and Building Research, on behalf of the Festival of Britain Council. Any buildings, or group of buildings, or any improvement to rural or urban landscaping (excluding new towns, large development schemes and single houses) were eligible for the award. The works had to be in Great Britain in places where the public could see them. "Their construction must have been begun after August 15, 1945, and must have reached a sufficiently advanced stage of completion by September 1, 1950, for visual judgment to be made." Out of 173 entries, 19 have received awards. Certificates will be presented at 11 a.m. today, in the Royal Pavilion, South Bank Exhibition. The Festival Council is to arrange for a special plaque to be fixed to selected works.



Flats at Queen Adelaide Court, S.E. 20, by Edward Armstrong



Bus Station at Newbury Park, Ilford, Essex, by Oliver Hill

Housing  
by Norr

Above,  
School,  
Below,  
Bilbaw.

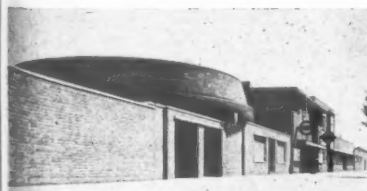
## RDs FOR CIVIC AND LANDSCAPE DESIGN



Housing at Heath Park Estate, Dagenham, by Norman & Dawbarn.



Above, Rushmere Primary & Infants' School, Ipswich, by Slater & Haward. Below, White City Station by Thomas Bilbow.



School at Stevenage, by F. R. S. Yorke, E. Rosenberg and C. S. Mardell.



Above, Appleby Frodingham Steel Works at Scunthorpe, by Frederick Gibberd. Below, Priory Memorial Gardens, Royston, by Arthur M. Whydale.



Plan and the following fifteen years. Some longer term proposals of exceptional significance are likely to be included.

*Written Statement*, containing factual descriptive information about the proposals illustrated by the two maps.

*Report of the Survey and Written Analysis*, intended primarily as an assessment and a vehicle for discussion of the problems brought to light by more than thirty surveys.

When the Plan is finally presented to the Minister for his approval, the documents will be published in book form and placed on sale and every effort will be made to ensure maximum publicity for the proposals envisaged in the Development Plan.

Meanwhile, the report of the Town Planning Committee, which was approved by the Council on July 3, draws attention to housing, education, open space, roads, overspill of population, density and use zoning. The following are some of the estimated figures given in the Committee's report:—

**Housing:** residential areas to be developed in the first five years of the plan total 2,430 acres. Development in these areas providing dwellings for 233,000 people will involve displacement and rehousing of about 70,300 people.

**Education:** total area involved in Education proposals is 313 acres for the first five years and a further 928 acres during the next fifteen years. Over the whole twenty years, the proposals involve the displacement and rehousing of 89,000 people.

**Open space:** areas planned for new open spaces during the first five years total 480 acres and those for the next fifteen years total 590 acres involving displacement and rehousing of about 5,400 and 45,000 people respectively.

**Roads:** the proposals include six "fly-over" intersections, thirty-seven "roundabout" intersections, 10½ miles of new principal traffic roads, seven miles of major widening of existing routes and two miles of new tunnel. Here again, displacement and rehousing problems arise to the extent of about 23,000 people.

Given the necessary labour and materials and favourable economic conditions, it is considered that the maximum gross capital expenditure (subject to Government grants) which the LCC could undertake during the twenty-year period of the Plan would be of the order of £27 million a year.

## Steel Supplies

In view of the effect of the present shortage of steel on the Council's housing programme, the Housing Committee have authorized the purchase of about 800 tons of steel of French manufacture to enable building work, which would otherwise be held up, to proceed.

## Soil Stabilization

The LCC is considering using soil stabilization for its open spaces. This is a method by which grass is grown through a bituminous covering. The wearing properties of the grass are greatly enhanced and games can be played on it. Maintenance costs are reduced, particularly for grass verges and other areas which are used extensively.

This technique, which was developed by Sutton & Sons Ltd., Reading, has already been employed at the Ricardo Street junior and infants' school at Lansbury.

## MOLGP

## Housing Subsidies

Exchequer subsidies and rate contributions for new houses built by local authorities in England and Wales are to be unchanged for the sixth successive year. They will remain



## SOUTH BANK EXHIBITION ARCHITECTS: NO. 8:



## PETER SHEPHEARD

*Designed the landscape (space between buildings) in the Downstream Section.*

*Age 37. B.Arch. (Liverpool), 1936. Graduate research scholar in Department of Civic Design, Liverpool 1937. Assistant to D. L. Bridgwater, 1937-1940. With the Royal Ordnance Factories, Ministry of Supply, 1940-1943. On*

*Sir Patrick Abercrombie's staff on Greater London Plan, 1943-1944. Worked with team which prepared Stevenage master plan, Ministry of Town and Country Planning, 1945-1947. Deputy chief architect, Stevenage Development Corporation, 1947-1948. From 1948 onwards has been in partnership with D. L. Bridgwater on housing (including 57 houses and flats at Lansbury), schools, landscapes and other work. Member of Councils of RIBA, ILA and AA and of Executive Committee of MARS. Illustrated with water colours the recent King Penguin, "A Book of Ducks", by Phyllis Barclay-Smith.*

at the level first fixed under the Housing (Financial and Miscellaneous Provisions) Act, 1946, and will be payable in respect of new houses completed before June 30, 1952. This decision is announced by the Minister of Local Government and Planning, Hugh Dalton, in a White Paper published on June 29.

Examination of the figures of tender prices obtained by local authorities showed that there was a slight increase during 1950. There was some increase in wages during the year, and an upward movement in the prices of certain materials.

The principal subsidies under the Housing (Financial and Miscellaneous Provisions) Act, 1946, are: General Standard Subsidy, where the Exchequer contributes £16 10s. and the local authority contributes £5 10s. per house per year for 60 years. Special subsidy for houses for agricultural workers, where the Exchequer contributes £25 10s. per year for 60 years. Rates of £3 per year for the same period are contributed equally by the local authority and the county council.

## GUY'S HOSPITAL

### Restoration Permitted

The board of governors of Guy's Hospital has been given permission to proceed with part of the plan for rebuilding the hospital, which was severely damaged by enemy action during the war. The plans now sanctioned will involve an expenditure of about £1,000,000, spread over five years. The complete rebuilding of the hospital, as planned, will take about 50 years. There are at present 575 beds, compared with 620 before the war. It is hoped that eventually there will be 800 beds, which is the maxi-

mum allowed by the MOH. The present plan will mean the addition of one block in which it is hoped to house 350 beds.

## MOW

### Building Licence Exemption to Continue

The present exemption limits below which work can be done without building licence or authorisation are to continue. This is announced in "The Control of Building Operations (No. 16) Order (SI 1951 No. 1082)," HMSO, price 3d.

## HC

### Housing for Adolescents

This week the Housing Centre Trust is holding lectures on housing, planning and industrial design for sixth form children of London secondary schools, at its headquarters in Suffolk Street. The programme also includes visits to the Building Centre, Harlow New Town and Lansbury.

## CRICKET

### Builders v. Technical Press:

The team selected by the President of the NFBTE, Stephen Hudson, and G. P. Parker, the captain, to represent the Federation in the second annual cricket match against "The Vitruvians" at the Blue Circle Sports Ground at Snaresbrook, on July 22, (11.30

a.m.) is as follows: G. P. Parker (Captain), (London), J. A. Bird, (Liverpool), A. E. Booth, (Yorkshire), A. E. Carter, (London), Bernard Garrett, (London), K. C. Kerridge, (Eastern Region), F. A. Ridgeon, (Eastern Region), J. B. Riley, (Midland), S. G. Shepherd, (Liverpool), R. Triggs, (London), A. F. Wallis, (Southern Region), G. I. Orchard (twelfth man), South Western Region, R. E. Costain (umpire), (Liverpool).

## NORTHAMPTON

### Architecture Exhibition for Laymen

The committee of the Northants Branch of the Northants, Beds and Hunts Association of Architects proposes to hold an Architectural Exhibition to commemorate the FOB. The exhibition will be designed to give the public a more comprehensive idea of an architect's profession and of his service to the community. It will be held in the County Hall, Northampton, from August 4 to 18, excluding Bank Holiday Monday.

## DIARY

*Modern Architecture.* Lecture by Philip Johnson of the Museum of Modern Art. At the RIBA. 6 p.m. JULY 12

*South Bank Past and Present Exhibition.* Is reopening at the Royal Festival Hall. JULY 16

*International Welding Conference.* London and Oxford. (Sponsor, IOW, 2, Buckingham Palace Gardens, S.W.1.) JULY 14 TO 21

*Town Planning, Housing, Health and Welfare Exhibition.* Aberdeen. At the Music Hall. Weekdays, 10 a.m. to 9.30 p.m. UNTIL JULY 27

*Eating Out of Doors Exhibition.* At the Tea Centre, 22, Lower Regent Street, S.W.1. (Sponsor, CID.) Weekdays (except Saturdays), 10.30 a.m. to 6 p.m. Saturdays, 10.30 a.m. to 12.30 p.m. UNTIL AUGUST 4

*AA Annual Exhibition of School Work.* At 34, Bedford Square. Weekdays, 10 a.m. to 6 p.m. Saturdays, 10 a.m. to 2 p.m. JULY 14 TO AUGUST 10

*Exhibition of One Hundred Years of British Architecture, 1851-1951.* At RIBA. Weekdays, 10 a.m. to 6 p.m. Saturdays, 10 a.m. to 5.30 p.m. UNTIL SEPT. 4

*Growth and Form.* Exhibition based on book by D'Arcy Wentworth. At ICA, 17-18, Dover Street, W.1. Weekdays, 10 a.m. to 6 p.m. UNTIL AUGUST 31

*Exhibition of Old Books, Maps, Prints, Engravings and Rare Documents.* At 98, Gloucester Place, W.1. (Sponsor, Institute of Quantity Surveyors.) Daily (excepting Sundays and Bank Holidays): 2 p.m. to 5 p.m. UNTIL SEPT. 29

*FOB South Bank Exhibition.* Daily 10.30 a.m. to 11.30 p.m. Sundays, 12.30 p.m. to 11 p.m. UNTIL SEPT. 30

*Exhibition of Exhibitions.* At Royal Society of Arts, John Adam Street, W.C.2. Monday to Saturday, 10 a.m. to 6 p.m. (Wednesdays, 10 a.m. to 8 p.m.) UNTIL SEPT. 30



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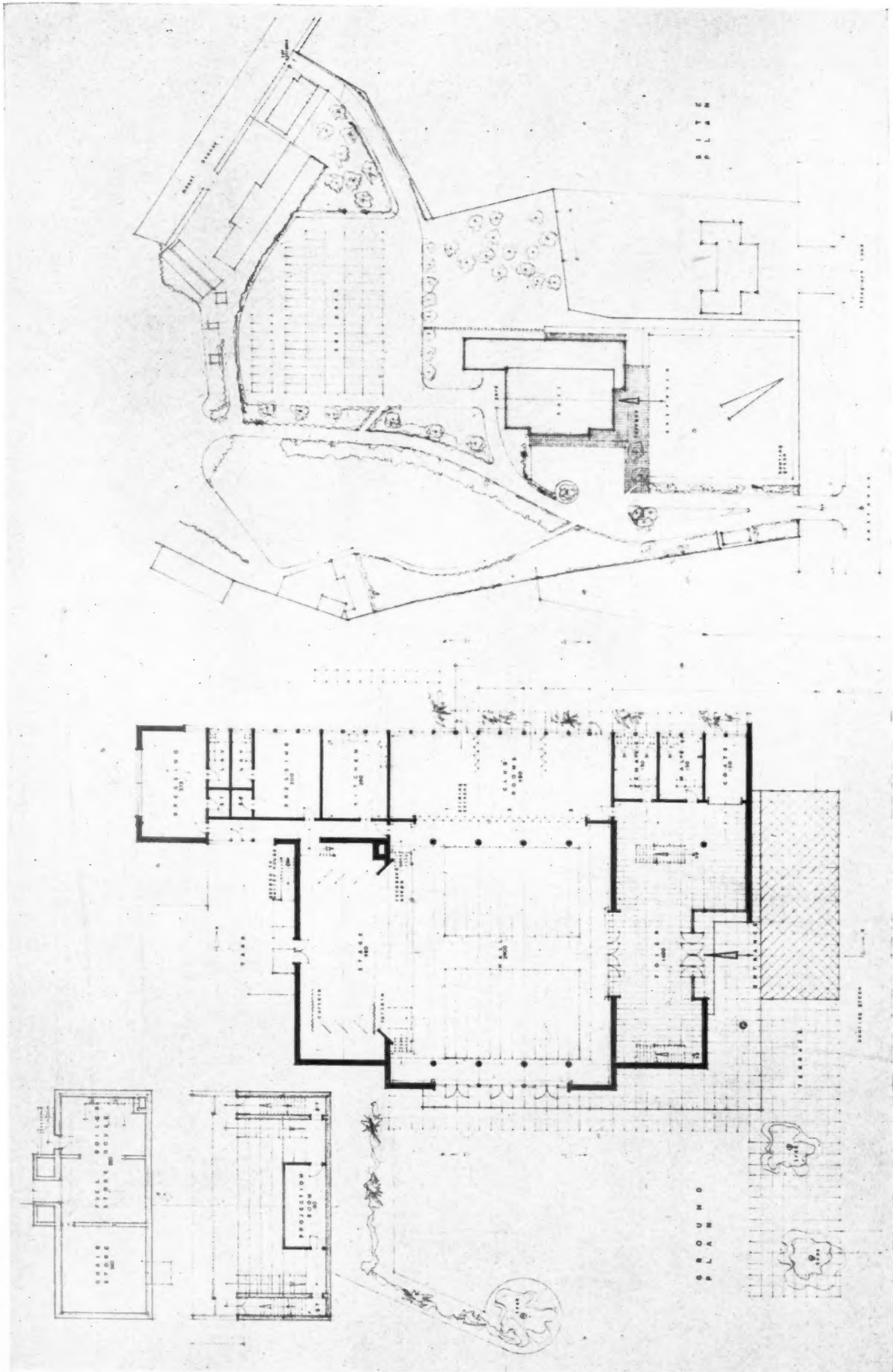
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**FIRST PRIZE DESIGN FOR WIRRAL UDC FESTIVAL HALL COMPETITION**

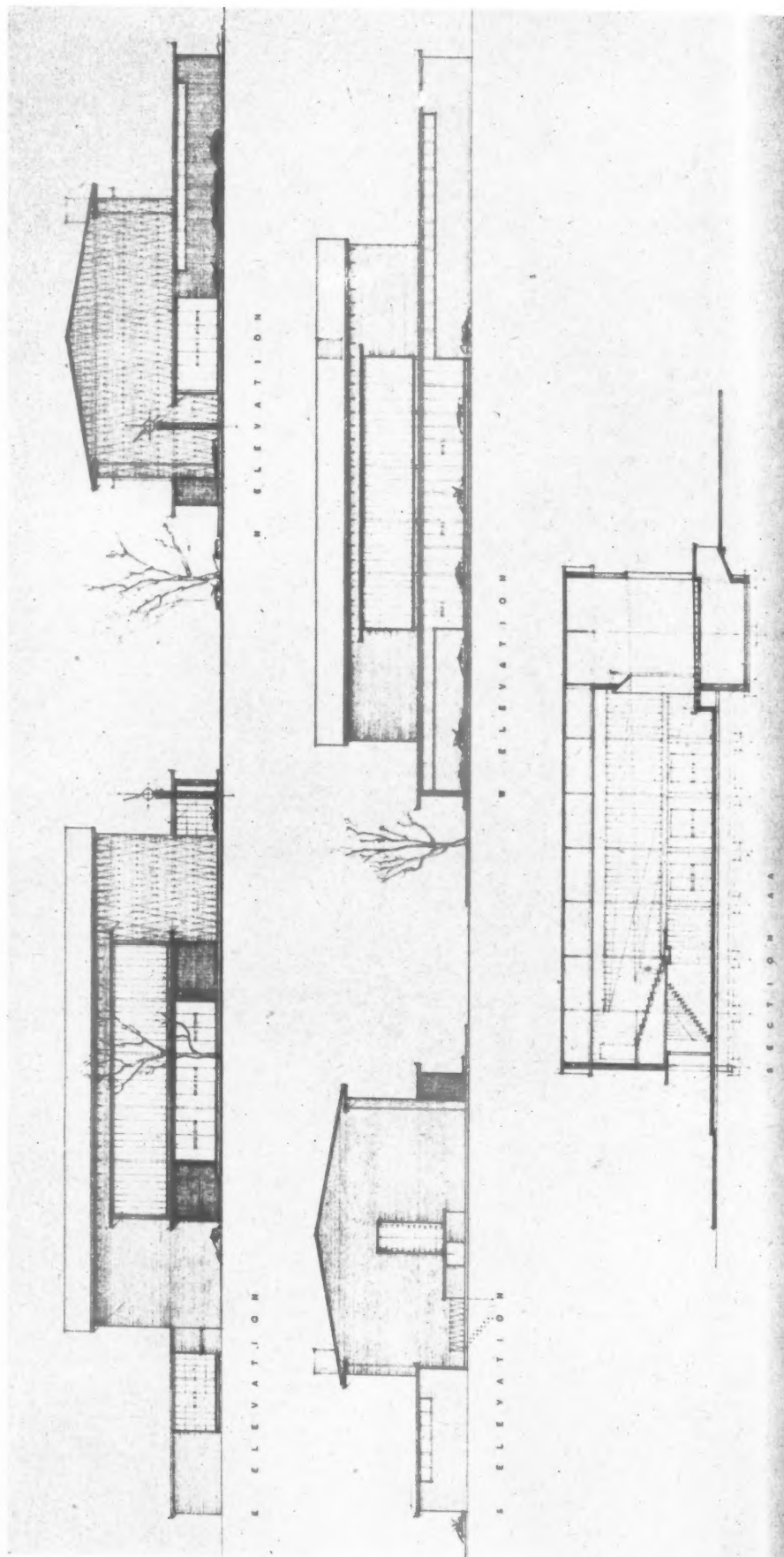
The first premium of £500 was awarded to Kenneth Dod, of 39, Gordon Square, London, for the design shown below and on pages 42-43. The Assessor's Report is given on page 42.



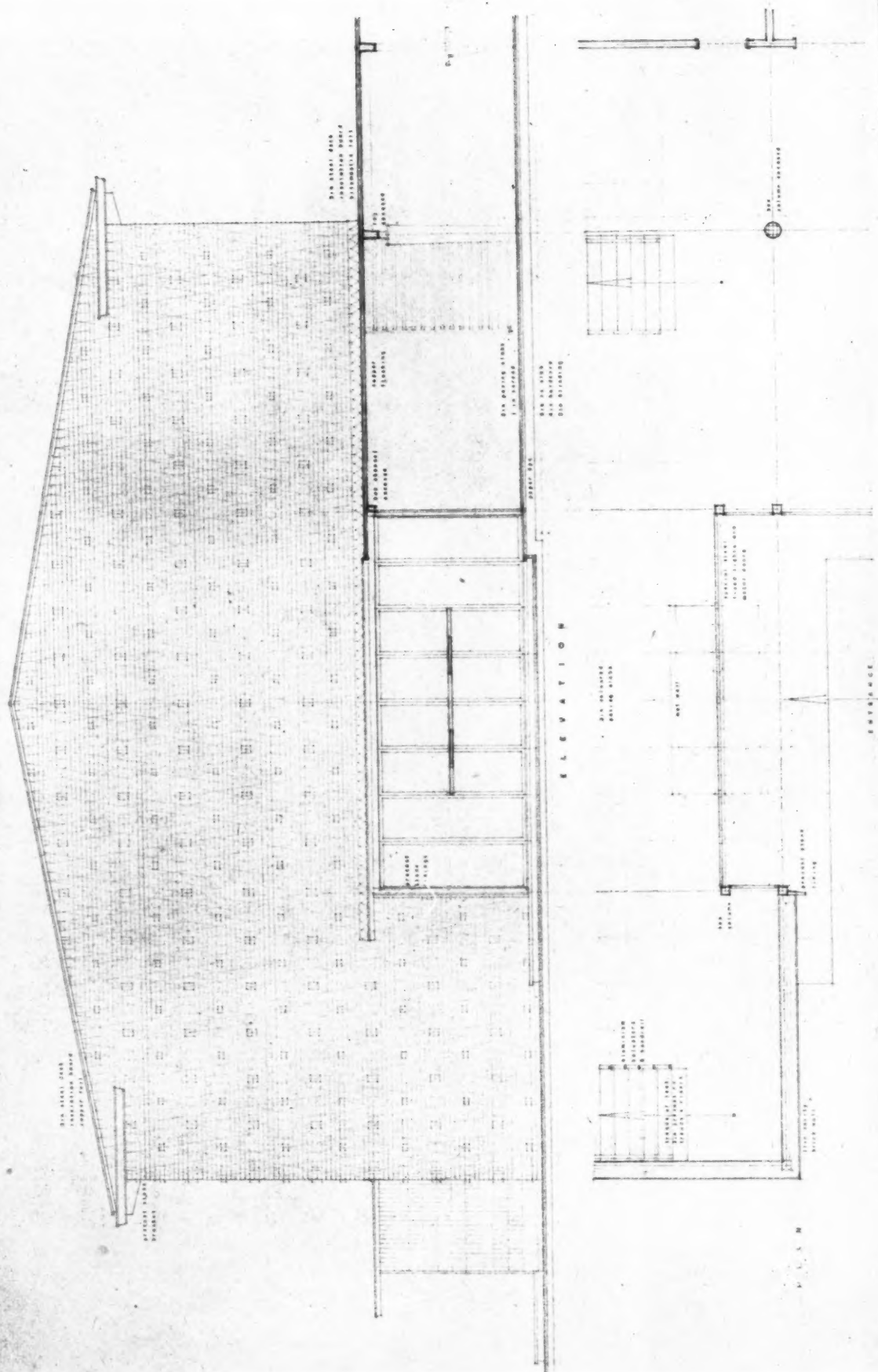
# FIRST PRIZE DESIGN FOR WIRRAL UDC FESTIVAL HALL COMPETITION

An architectural competition has been held for a proposed Festival Hall to be built in the Wirral UDC office grounds at Heswall. The results of the competition are: first prize of £500, Kenneth Dod, 39, Gordon Square, London; second prize of £350, D. D. Atwater and J. Baker-Mellor, 14a, Grange Road, Southport; third prize, £250, C. H. Barnett and P. Harding, assisted by A. Green, 44, Elms Drive, Kirkella, near Hull. In his report the assessor, P. G. Fairhurst, states: "A very large number of the schemes showed great ability both in design and presentation. In the planning particularly much ingenuity has been shown."

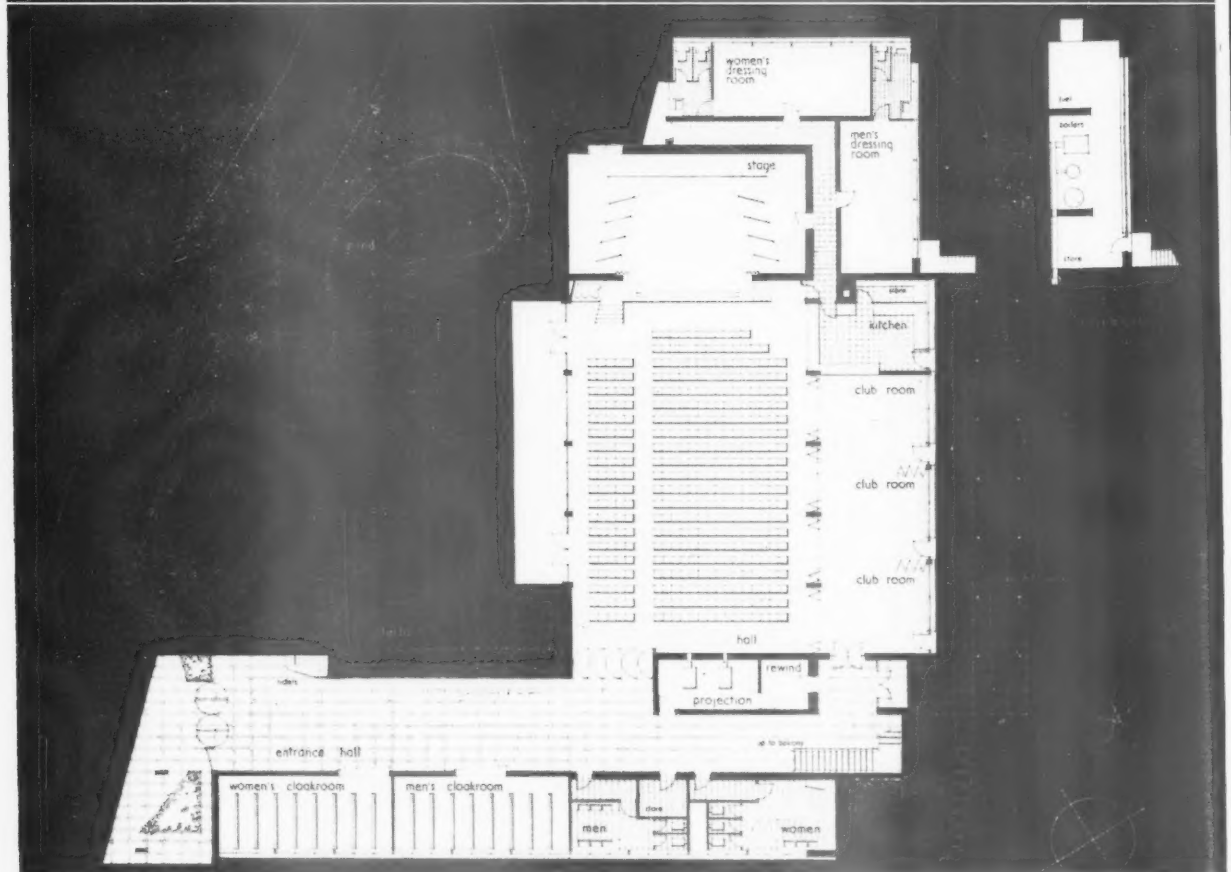
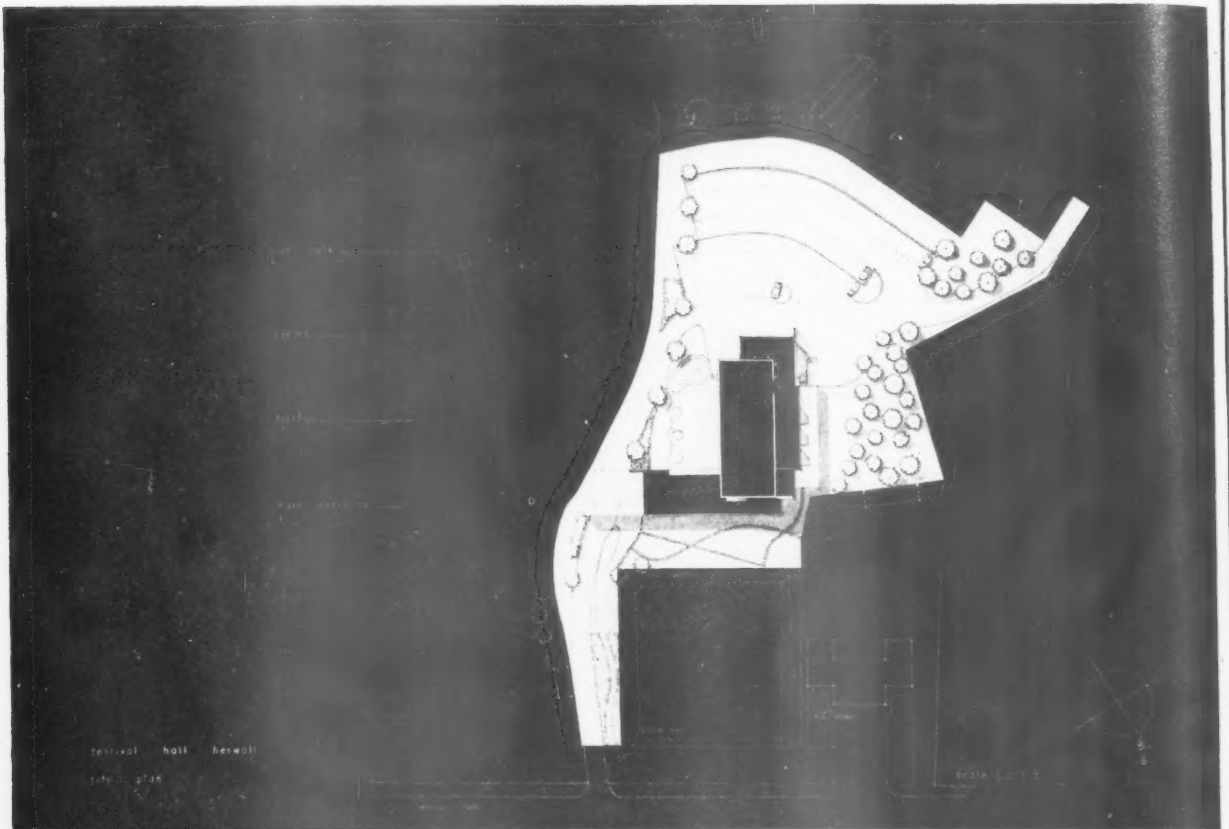
In my opinion the design placed first meets the Conditions with most satisfaction. The Hall is well sited. It is a good, well thought out plan. The square main hall will give a sense of intimacy when used for its multi purposes. There is a roomy foyer and good crush space. The elevations are pleasant, relying on simple masses with good proportion. The design placed second is also well sited and has a good plan. The scheme has original features in design and presentation. The design placed third is thoroughly thought out and detailed. The plan is not so compact and has not gained by having been spread out."



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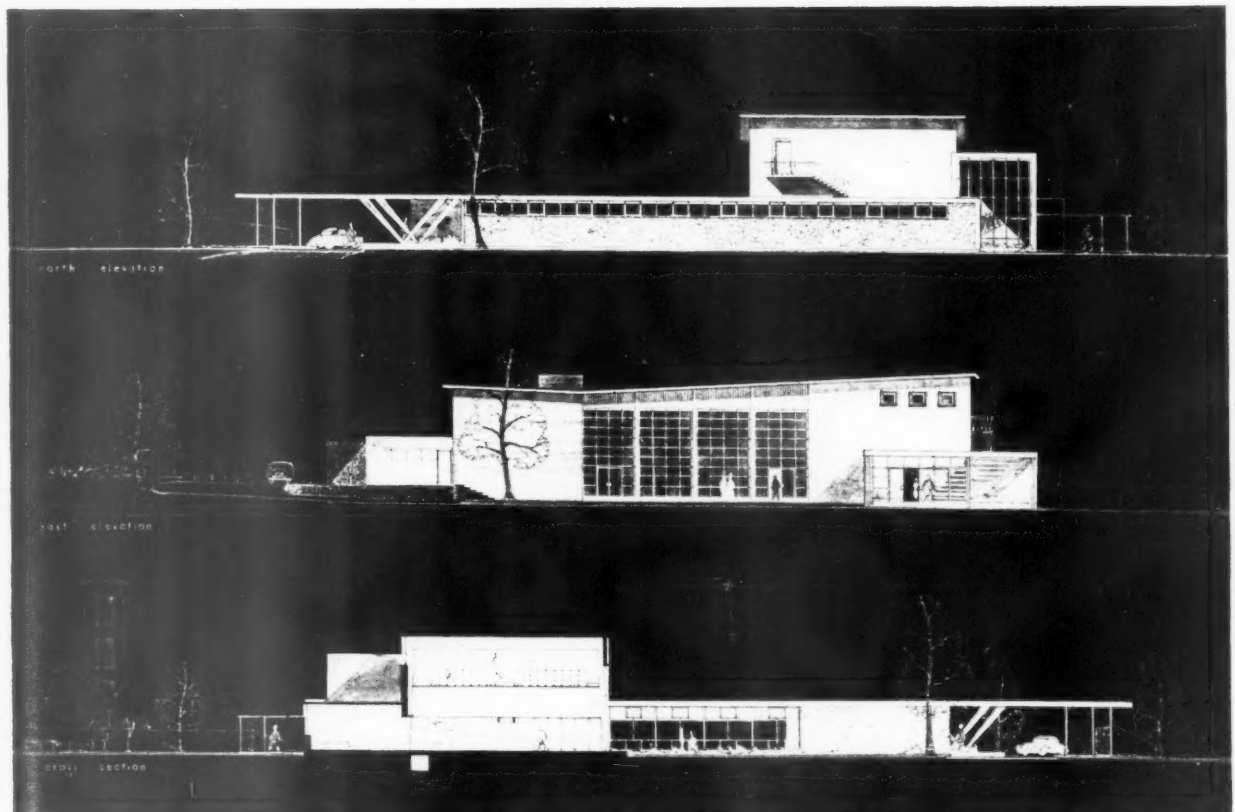
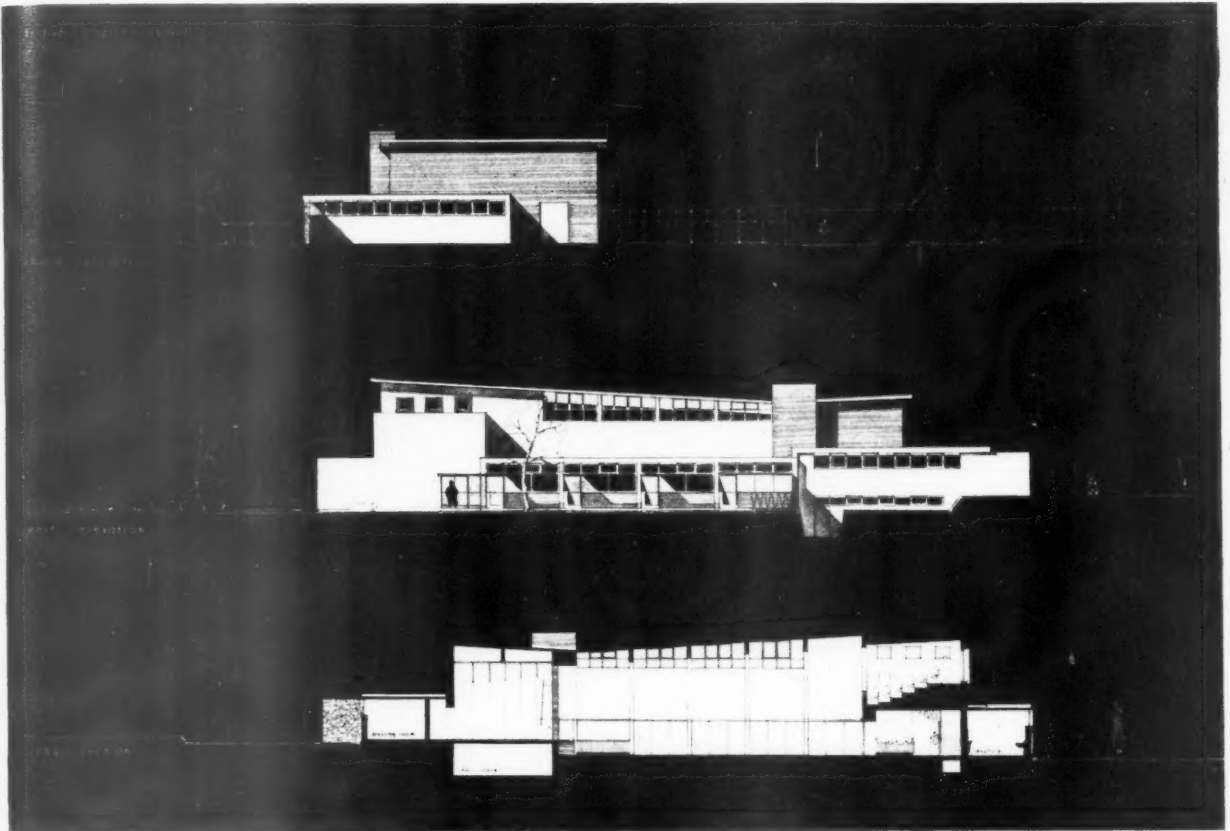


SECOND PRIZE FOR WIRRAL UDC FESTIVAL HALL COM

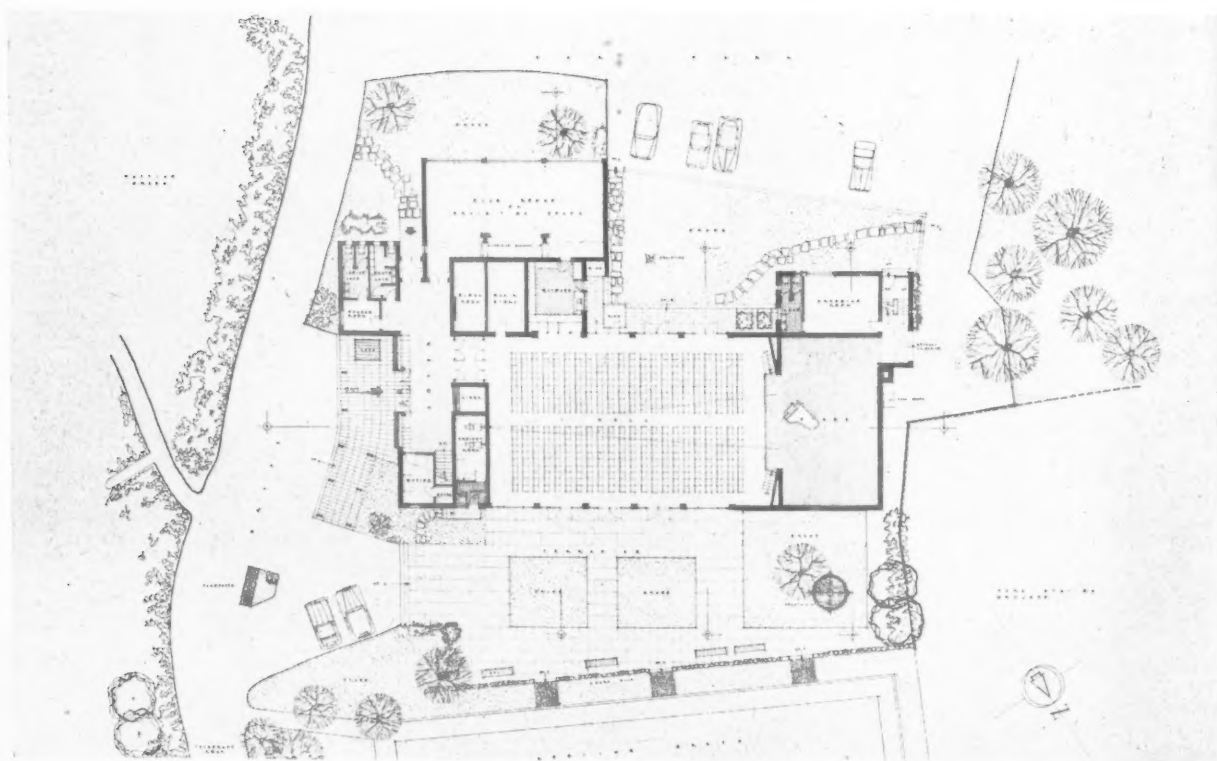
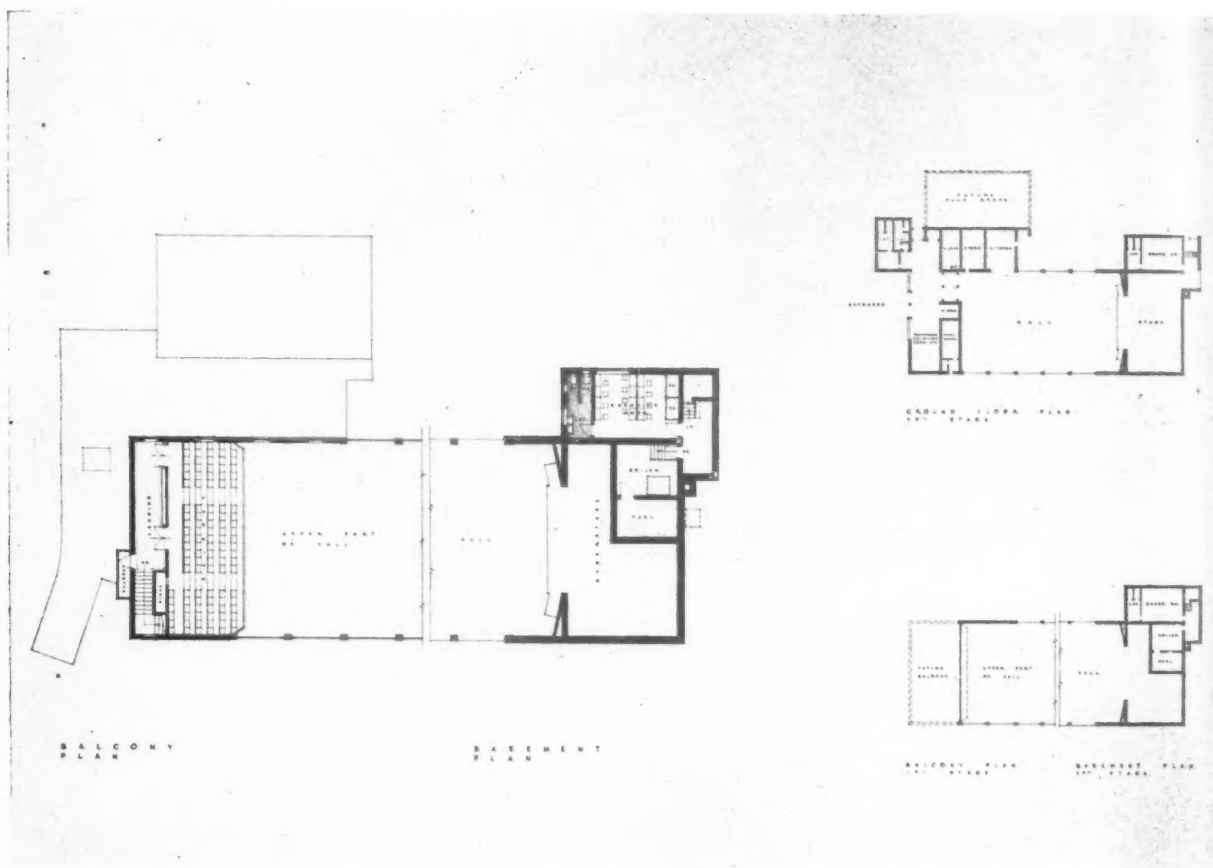




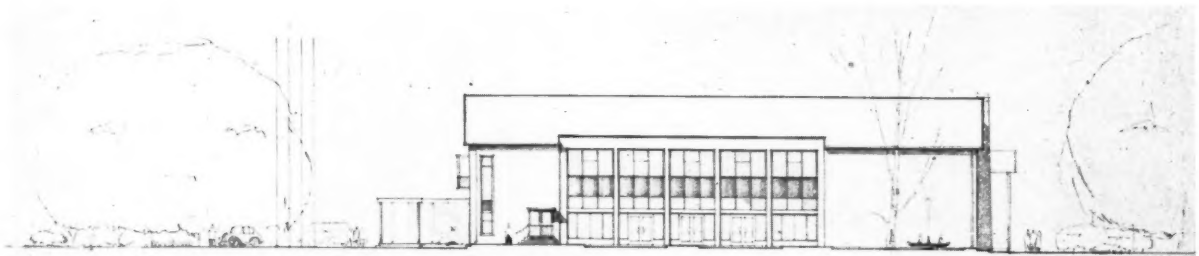
L L COMPETITION : AWARDED TO D. D. ATTWATER AND J. BAKER-MELLOR



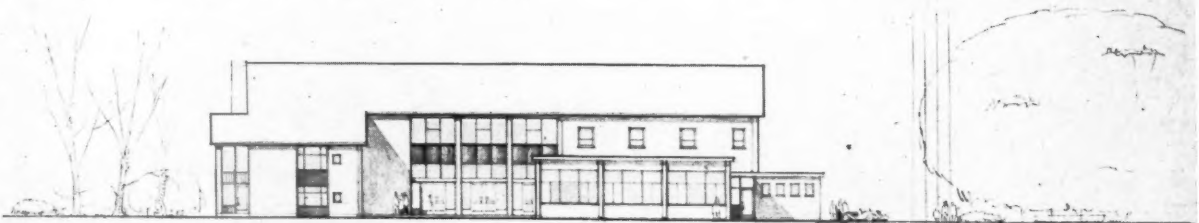
THIRD PRIZE FOR FESTIVAL HALL COMPETITION: AWARDED TO C.



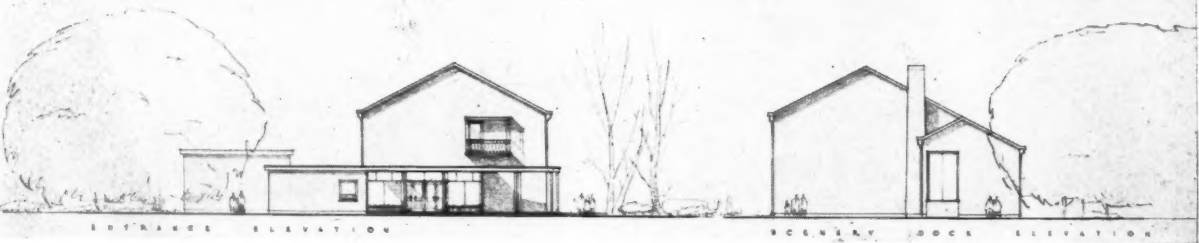
C. H. BARNETT AND P. HARDING, ASSISTED BY A. GREEN



ELEVATION TO BOWLING GREEN



ELEVATION TO CAR PARK



ENTRANCE ELEVATION

SCENERY DOCK ELEVATION

# HALF-INCH DETAIL

FORMING CAR-BUS DETAILS ABOUT MAIN ENTRANCE

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1/2" SCALE

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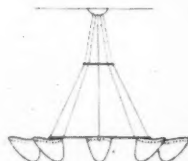
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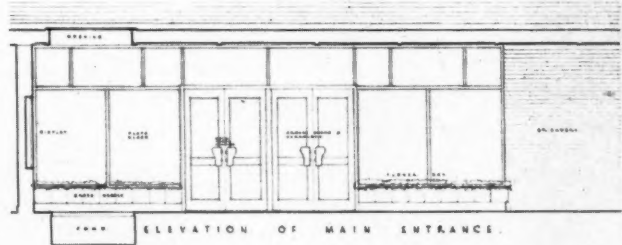
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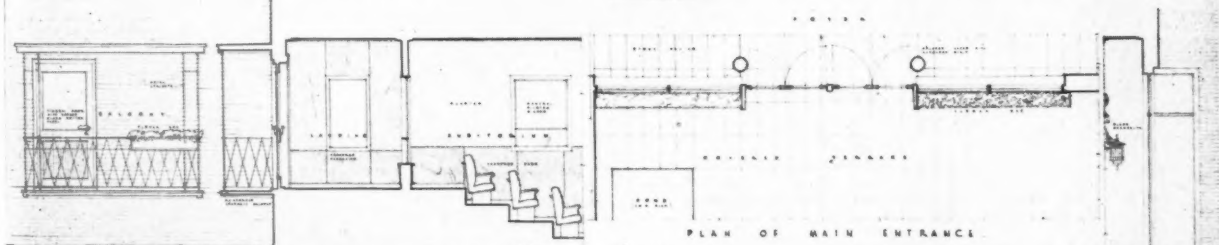


ELEVATION OF AUDITORIUM LIGHT SITTING

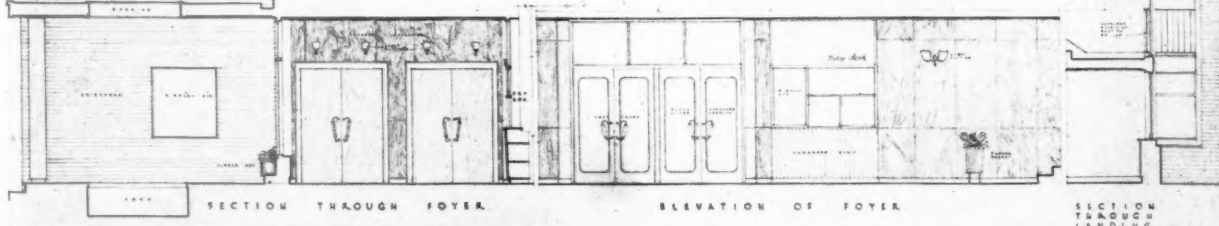
PLASTER, METAL, BRASS, METAL, ALUMINUM



ELEVATION OF MAIN ENTRANCE



PLAN OF MAIN ENTRANCE



SECTION THROUGH FOYER

ELEVATION OF FOYER

SECTION THROUGH LANDING

## HOUSE

at ENGLEFIELD GREEN, SURREY  
designed by BEVIL GREENFIELD

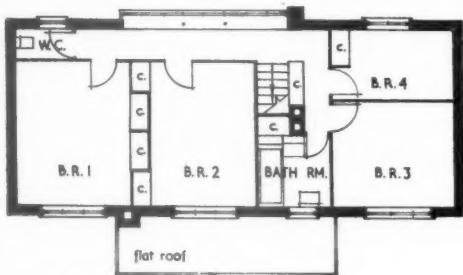
The house illustrated on these pages stands on a deep and level site which has an east frontage on to Northcroft Road and is near the centre of the village. There are fine trees on the opposite side of the road to the site and along the western boundary, but the site itself was meadow land. The house was kept as far back from the road as possible and close to the northern boundary so that a garage and stores, with a further bedroom and bathroom over, can be added on the south at a later date.

*The west facade facing the garden.*

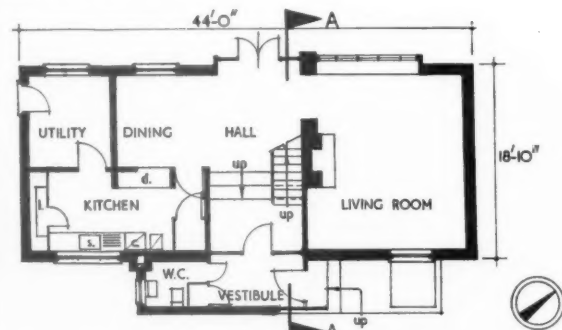




Right, the entrance hall looking towards the front door, which is seen behind an inner glass door set in a glazed screen. Below right, the living room fireplace, which has a Cornish slate and buff tile surround.



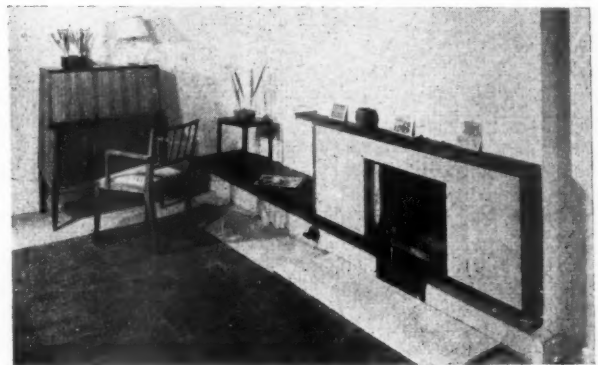
First floor plan



Ground floor plan [Scale:  $\frac{1}{8}'' = 1'0''$ ]

PLAN.—The long, narrow plan form was chosen so that the bedrooms, bathroom and kitchen should have an easterly aspect and the living rooms should face west towards the garden. The glazed screen to the entrance lobby, the dining room leading directly off and forming a part of the hall and the open-riser stair are all designed to give a feeling of spaciousness in the centre of the ground floor.

CONSTRUCTION.—External walls are of cavity brickwork, ground floor is solid concrete, first floor, timber and there is a timber framed roof.





## HOUSE

at ENGLEFIELD GREEN, SURREY  
designed by BEVIL GREENFIELD

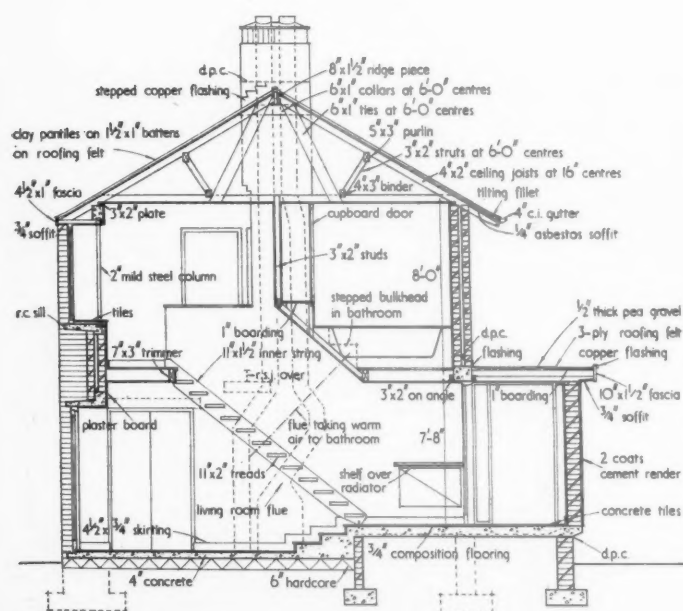
**FINISHES.**—Main walls are faced with rustic flettons, colour washed and the brick pier on the west elevation, the chimneys and plinth are of multi-coloured facing bricks. The roof is covered with felt and dark brindled clay pantiles with the eaves soffits lined with asbestos sheeting and colour-washed silver grey. The ground floor is finished with magnesite composition. Ceilings are of plaster-board and skim with 4-in. glass wool insulation between joists on the first floor and ½-in. V-jointed fibre board panels on the ground floor. Deep window cills, lobby and cloakroom floors and front steps of 9-in. sq. flooring tiles. Staircase in polished Columbian pine, handrail in polished sycamore and inset linoleum treads. Living room fire surround in Cornish slate and buff-grey tiles.

**SERVICES.**—The capacity of the boiler and cylinder is sufficient for the future addition of another bathroom and an increase in the number of radiators. At present there are two radiators in the hall and a cylinder in the kitchen airing cupboard. A stove flue and warm air duct to the bathroom are incorporated in the central stack.

The contract price was £2,635.

The general contractors were Messrs. W. G. Batten  
For sub-contractors see page 60.

*Above left, first floor landing window, which faces west over the garden. Below, front door and porch on the east front.*



Section A-A [Scale: 1/8" = 1'0"]

## TECHNICAL SECTION

Since the first article describing slab-lifting appeared in this country (AJ, Jan. 18, 1951) many

architects and engineers have shown interest in this novel system of construction. On June 28, at the Waldorf Hotel, London, O'Neil Ford, an American architect with wide experience of using this technique, gave a lecture (summarized below) to over 300 of our principal architects, engineers and contractors. From the ensuing discussion, and from comments made after the meeting (see page 56), it should be possible to judge what contribution slab-lifting can make to building in this country and what difficulties are involved.

### O'NEIL FORD LECTURES ON SLAB LIFTING



The chairman, R. Fitzmaurice (the JOURNAL's Technical Editor), introduces O'Neil Ford (above right and below).



**R. FITZMAURICE :** It is very often said that the building industry is conservative and backward. There is a certain amount of truth in this. When the steel frame was introduced at the end of the last century, a great many people said they had never heard such nonsense. The architect said he would never use a thing like that. The builder said it would be entirely on somebody else's responsibility and there would be a fat extra. The same thing was said ten or fifteen years later, when reinforced concrete came along to make such a drastic change in building technique. Now there comes a new technique which may, in its way, be just as revolutionary as some of the major changes which have established themselves in the past. I suppose a great many architects will say, "Never on a job of mine!" And no doubt many builders will say, "Entirely on your responsibility." Let us project ourselves into the future, however; then perhaps these people will be very thankful to have had the opportunity of hearing about what is essentially the birth of a new building technique.

**O'NEIL FORD :** We have in Texas, which is where I come from, an Institute of Inventive Research, part of the Southwest Research Institute. A young man named Slick—a resourceful and wealthy young man—gives the money; an enormous amount—I think, some 600,000 dollars a year.

One day, Mr. Slick said to me, "This concrete of ours is a miraculous material, but what are we going to do about the carpenters" (our carpenters get about £1 an hour); "do we always have to build a wooden building before we build a concrete one?" So we went to work. It took a long time and a great deal of money. When we hit on slab lifting we felt we had a sound, logical, simple idea, and when we designed our first building we were determined not to mess it up; instead of using the minimum amount of steel, we over-designed. In spite of that we saved 26,000 dollars. We were 9 per cent. under the cost of conventional construction.

Of course, we had our troubles; we had a fight with the authorities, but we did it. A lot of my fellow architects doubted the thing; we doubted it ourselves, but we satisfied our doubts in the laboratory; they doubted it just because it was different. So when we decided to use slab lifting at Trinity University, it was predicted that it would cost not less but more than the conventional system. They asked me what I thought it would cost, but I refused to guess. When we got our tenders, a company from New York, which is 1,800 miles away, took it a little under the local contractors, not at 12 or 13 dollars a sq. ft. Not at 8 dollars, which I hoped for, but at 6 dollars 37 cents.

I'm now going to show you a film of this system in





Chatting before the meeting. Left to right: Nigel Hannen and R. Saunders of Holland & Hannen & Cubitts Ltd., and J. O'Hea of W. H. Cobb (London) Ltd.



Comparing notes, Whitfield-Lewis (left) and Cleeve Barr of the LCC Architect's Dept.



During the discussion. Left to right: Gordon Tait, David Medd (Senior Architect, MOE) and F. R. Yerbury (Consulting Editor of the JOURNAL).

action; afterwards some of you may care to ask me some questions. Mind you, I'm not an engineer, but we had some good ones working on this. We had Frederick Severud, who came from Norway. He is an excellent engineer, one of the best we have in America.

[A film was then shown of the slab lifting at Trinity University, and, as it ran, Mr. Ford described this method of construction, as follows:—]

The stanchions are set up, we pour the ground slab, and we put down the separating medium, which is something like you put on the backs of imitation leather notebooks. Steel collars are set down on this paper, on the slab. The steel is tied in to it. We use little wire bipods to support the steel reinforcement. Approximately 40 per cent. of the cost of steel tying was saved by doing the work on the ground, where it is easy and comfortable, and there is no hoisting of bars. We mostly used 3,000 lb. concrete. The method of transporting the concrete is fairly crude. [Special deep wheelbarrows were used.—Ed.] On a very large building we should use a highway machine, with a travelling horizontal crane taking the concrete where we want it.

We built a small machine at the Institute, which gives a smooth surface finish to the concrete. It has revolving plates made of plastic, and does a good job. No hand trowelling is necessary at all.

We do not vibrate the normal concrete, but where we use a lightweight aggregate we find it necessary to vibrate. When all the slabs are poured, the jacks are set on top of the column. The jack reaches down with two rods and picks the slab up, pulling the rods through the jack. There is a piston in the centre of the jack with a 2-in. stroke. It is operated by a 10-h.p. electric motor, which also drives the locking nuts. What happens is this: as the piston goes up the lower pair of locking nuts—the ones on the cylinder—are driven round so the rods pass through them. Then they are locked and they hold the slab while the piston is pulled down by the springs. The springs hold the whole assembly together and help force the fluid back into the compression chambers.

The boy at the control panel lifts unassisted 400,000 lb. of concrete. After the slab is lifted, two blocks of steel are welded under the steel collar to take care of the dead load, and after the jack is taken away, two more are welded on to take care of live load. It takes two welders two hours to weld eight columns. As the second lot of blocks are being welded in place they turn the jacks through 90 deg., and wind the rods down, through holes in the collars left for the purpose, to pick up the next slab. The rods are sticking high in the air; so we hook up all the screws to the motors; get them all revolving together and run the rods down. We tried to do it by hand, but it took all night. At first we inserted the bushings in the collar before the slab was poured and lifted, but that tied up our bushings. Now we use split bushings, which we put in after the slab is cured.

You might like to know some more about this building for Trinity University. We saved some £3,500 by the foundation system. We had no beams in any direction—I am against forming and shuttering entirely. We put in substantial bases for the stanchions and we graded the earth level. Then we drilled through the earth, at some 2s. or less a foot, to a depth of 5 to 10 ft. to rock. We poured in concrete and a little steel and we had a thin ground slab with thousands of cheap links to the rock.

For the curtain walls, there are 1,300 running feet of windows. We shoot a steel angle on to the ceiling with a gun and weld the windows to it. Under the windows there is a light steel bulkhead faced with aluminium. This has all the plumbing, heating and wiring in it and fibre-glass for insulation. We are still learning. We don't plaster our ceilings now. We don't use paper for a separator. All we use is paraffin thinned with benzine. Instead of 5 cents it is  $\frac{3}{4}$  of a cent a foot. Then we sprinkle



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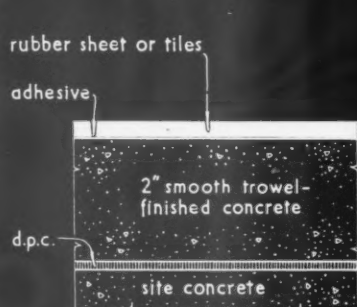
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## FLOORS FINISHES | RUBBER

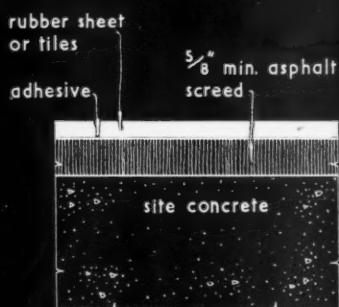
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The Architects' Journal Library of Information Sheets 319. Editor: Cotterell Butler, A.R.I.B.A.

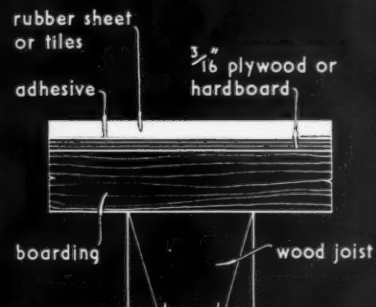


to concrete with sandwich membrane  
d.p.c.: (ground floor)

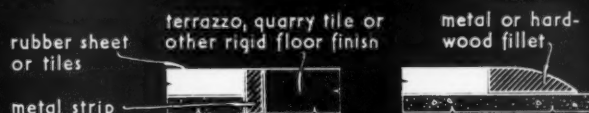
FIXING TO SUB-FLOORS. (scale  $\frac{3}{8}'' = 1''$ )



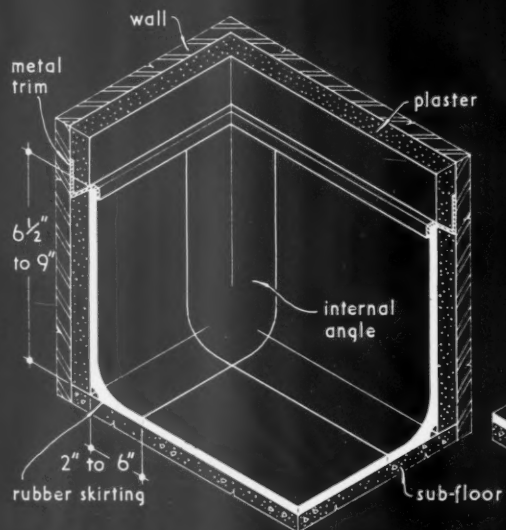
to concrete with damp-proof  
screed: (ground floor)



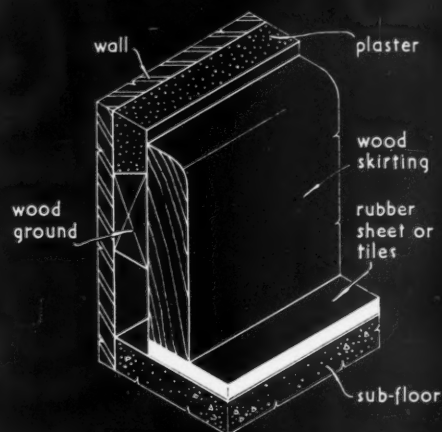
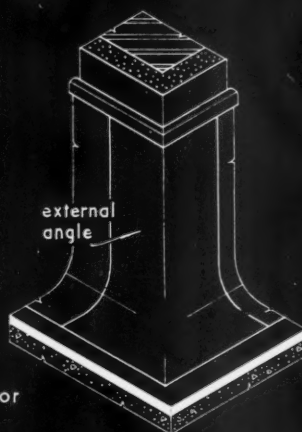
to wood



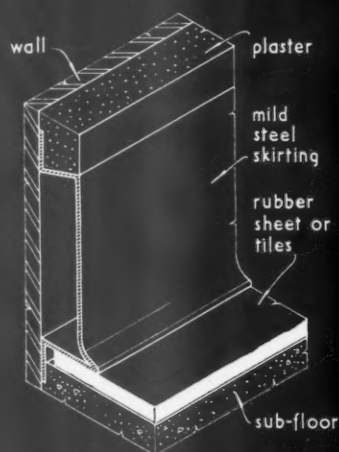
EDGE FINISHES. (scale  $\frac{3}{4}'' = 1''$ )



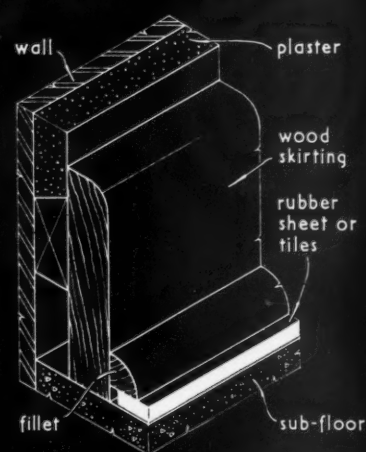
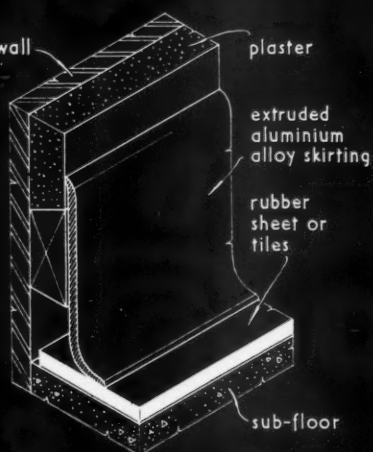
PREFORMED RUBBER SKIRTING. scale  $\frac{3}{16}'' = 1''$



WOOD SKIRTING. (scale  $\frac{3}{8}'' = 1''$ )



ALTERNATIVE METAL SKIRTINGS. (scale  $\frac{3}{8}'' = 1''$ )



WOOD SKIRTING. (scale  $\frac{3}{8}'' = 1''$ )

RUBBER FLOORING SHEETS AND TILES: LAYING AND FIXING.

Compiled from information supplied by The British Rubber Development Board.

## 19.F1 RUBBER FLOORING SHEETS AND TILES : GENERAL DATA, LAYING AND FIXING

This Sheet deals with rubber flooring in sheet form, tiles and skirtings and illustrates their application to concrete, wood, stone, or composition floors.

### Characteristic:

Rubber flooring is resilient and warm to the touch, hygienic, silent to the tread and easily cleaned.

### Types and Sizes

**Sheet rubber :** This is available  $\frac{1}{8}$  in. to  $\frac{1}{4}$  in. thick in rolls from 50 ft. to 100 ft. long by 3 ft. to 4 ft. wide.

**Spongy rubber :** This consists of a solid rubber wearing surface  $\frac{1}{8}$  in. or  $\frac{1}{4}$  in. thick on a  $\frac{1}{8}$  in. spongy rubber base.

**Separate tiles :** These are specially moulded or cut from sheet rubber. The standard sizes range from 6 in. to 18 in. square by  $\frac{1}{8}$  in. to  $\frac{1}{4}$  in. thick.

**Inlaid tiles :** These consist of rubber tiles vulcanised to a sheet rubber base. They are available from  $\frac{1}{8}$  in. thickness in rolls up to 75 ft. long by 6 ft. wide in many arrangements of tiles and colours.

### Colours and Patterns

The material is available in a wide range of colours and patterns. These include various shades of green, blue, red and brown, and black, white, primrose, terra-cotta, French grey, cream, chocolate etc. In addition there is a very extensive range of combinations of the above in marbled designs. Special layouts and designs are available to suit requirements including motif work and lettering when desired.

### Types of Sub-Floor

Rubber flooring is normally laid on concrete or wood sub-floors but it may be laid on most types of rigid floor provided that the solvents used in the adhesive have no deleterious effect upon the floor.

### Preparation of Surfaces

**Concrete sub-floors :** It is essential that the surface be smooth, dry and damp-proof. On ground floors a damp-proof layer of the sandwich membrane type may be incorporated in the body of the sub-floor, or preferably a damp-proof layer should be laid directly over the surface of the concrete (as shown on the face of this Sheet) and joined to the d.p.c. in the surrounding walls. On ground floors where a damp-proof membrane is included or on suspended concrete floors the rubber should be fixed to a sand and cement screed not less than 1 in. thick. If the concrete is smooth trowel-finished at the time it is laid the top screed may be omitted.

**Wood sub-floors :** These should be rigid and even. It is recommended that the width of the boards be a minimum and the floor either planed or surfaced with a sanding machine if the rubber is to be applied direct to the boards. For best results a plywood or hardboard underlay should be incorporated. Nail heads should be punched below the surface and screw heads countersunk and filled.

**Metal sub-floors :** A  $\frac{1}{8}$  in. minimum screed of latex-cement underlay may be applied before laying rubber flooring on metal sub-floors. In cases where the metal sub-floor has lapped joints the latex-cement screeding must be sufficiently thick to provide a level surface throughout.

**Other solid floors :** The floor should be rigid and free from cracks or other defects. Worn or irregular surfaces should be levelled by means of latex-cement or other suitable levelling material, e.g. asphalt or pitchmastic.

### Adhesives

The appropriate adhesive to be used should be selected after consultation with the rubber manufacturer or the floor laying contractor.

### Laying

Laying should not be commenced until the floor is smooth, clean and dry. The adhesive should be applied to both the floor surface and rubber in accordance with the rubber manufacturer's or laying contractor's recommendations. The adhesive should be allowed to become substantially dry and tacky before the rubber flooring is laid in position.

When placing rubber flooring in position the surface should be smoothed out and particular care taken to avoid the trapping of air.

### Skirtings

Six types of skirting treatment are illustrated on the face of this Sheet. The skirtings may be preformed rubber units : alternatively wood or metal skirtings may be used.

### Edge Finishes

No edges of the rubber should be left unprotected. Suitable finishes may be formed by the use of strips or fillets as shown.

### Maintenance

Rubber flooring should be washed regularly but not flooded. Soap and water applied with a damp cloth followed by a clean water rinse is generally sufficient to keep the floor clean. Scrubbing with abrasive cleansing powders is not advisable. For polishing rubber floors a polish of the water emulsion type is recommended. Organic solvents or polishes containing such solvents should not be used. Mineral oils, i.e. petrol or paraffin, must be avoided. Polish should not be applied to the surface of the rubber until about a month after it is laid.

### Applications

For domestic use  $\frac{1}{8}$  in. thick rubber is suitable. As a general rule  $\frac{1}{8}$  in. minimum thickness material should be specified for public buildings although in certain locations  $\frac{1}{4}$  in. would be permissible.

Rubber flooring is not recommended in situations where it may come into contact with fats and greases.

### Further Information

The British Rubber Development Board maintains a Technical Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

Compiled from information supplied by :

The British Rubber Development Board.

Address : Market Buildings, Mark Lane, London, E.C.3.

Telephone : Mansion House 9383/4.



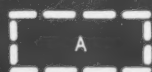




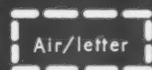
## DRAUGHTSMANSHIP | GRAPHIC SYMBOLS

I.B.5

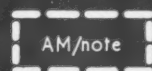
The Architects' Journal Library of Information Sheets 320. Editor: Cotterell Butler, A.R.I.B.A.



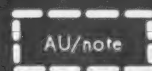
a street or group of buildings of special architectural value, etc.



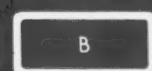
airfield



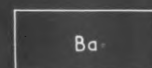
large area for Air Ministry purposes



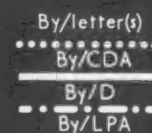
other local authority or statutory undertaker purposes



station for public service vehicles



principal business area

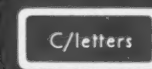


boundary:

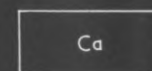
Comprehensive Development area

Designation area

Local Planning Authority's area



civic, cultural or other special uses



central area and principal subsidiary centre of town



dwelling houses



land liable to flooding or unsuitable for building owing to height of water table



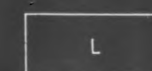
large grounds of school, hospital, etc.



holiday camping facilities



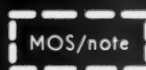
industrial area



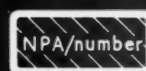
buildings of interest listed by M.O.T.C.P.



ancient monument



large area for M.O.S. purposes



national park, etc.



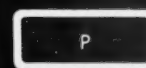
private open space



offices, including banks and post offices



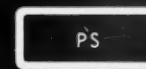
building for which a Building Preservation Order has been made



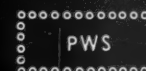
car park



public open space



primary school



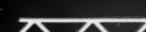
land unsuitable for development, except under special safeguards, owing to danger of pollution of public water supply



principal traffic roads



residential area



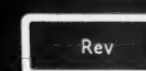
lines of small arrow-heads bound broad areas of different gross population density; a box, superimposed, shows:



index number

gross population density

approximate area in acres



land expected to revert to agriculture, etc.

SIMPLIFIED MAP NOTATIONS (BASED ON M.O.T.C.P. CIRCULAR 92): I.

Compiled by D. Rigby Childs A.R.I.B.A. for Eagle Pencil Company—Chemi-Sealed Turquoise pencils.

## 1.B5 SIMPLIFIED MAP NOTATIONS (BASED ON M.O.T.C.P. CIRCULAR 92) : 1

This Sheet is the first of two based on M.O.T.C.P. Circular 92, *Reproduction of Survey and Development Plan Maps*, and covers a selection of the new monochrome map notations for use in showing planning data. The examples on the face of this Sheet and of Sheet 1.B5a show the notation forms prescribed for this selection. A list of abbreviations to be read in conjunction with the illustrated examples is given on the reverse of Sheet 1.B5a. All the examples given are those which will most frequently be of use to the architect when planning a new town or neighbourhood unit or when examining local authority development plan proposals.

### General

The merit of this system of monochrome notation is that it involves the minimum amount of drawing and enables maps to be reproduced in large numbers at low cost. In addition, for purposes of emphasis, other colours may be readily superimposed on prints if desired. The most suitable colours, as specified in Circular 92, are summarised in a later paragraph.

### Types of Map

The examples of notation given on this and the following Sheet are taken from Town, County and Comprehensive Development Area plans, Programme maps, Land Use, Age of Buildings and Net Accommodation Density Survey maps.

### Basis of Notation

The notation is based on the use of hatches, edgings and letters. Where a hatch and letter appear together the hatch should be used in preference to the letter. The letter alone should be used where the hatch would be difficult to draw and the hatch and letter used together where the map is made clearer by the use of both. This rule also applies to boundaries and letters.

**Letters :** Any single letter or combination of letters has only one basic meaning, although it may be differently expressed according to the type of map. For example, "In" would mean "Industrial Area" on a Land Use Survey map, but "Area primarily for industrial use" on a Town map. The sole exception to this rule is the letter P which means "Building for which a Preservation Order has been made" on an Age of Buildings Survey map and "Car Park" on a Land Use Survey or Comprehensive Development Area map : this duplication came about from the

earlier system of colour notation. A complex index to letters is printed in Circular 92. In some examples, the word "note" appears with the notation in order to show that the data may be shown in fullest detail, e.g., WD/rifle range.

**Hatches and edgings :** The number of hatches and edgings used has been kept to a minimum. Their meaning is the same at any scale.

### Colours

Circular 92 recommends the use of less than a dozen colours, as opposed to the earlier Circulars 59 and 63 which were based on the British Colour Council's Chart of 80 Town and Country Planning colours and shades. The following colours should be used for drawing or printing the various types of plan and map in the monochrome notation :

Red-brown .. Town, County, C.D.A. plans, Land Use Survey maps.

(On these maps, the colours which show to the best advantage are yellow-green for open space, blue for business and shopping areas and red for civic and cultural areas.)

Black .. Programme map.

Green .. Age of Buildings Survey map.

Red .. Net Accommodation Density Survey map.

Brown .. Net Population Density Survey map.

### Map Sizes

It is important when preparing maps to see that they are of suitable size for printing and handling generally. The maximum should be 20 to 24 in. in any direction, which is in relation to the current series of Ordnance Survey map Sheets.

**This Series of Sheets** covers geometrical drawing, orthographic, isometric and axonometric projections, perspective, rendering, lettering and draughtsmanship generally.

*Compiled from information supplied by :*

**Eagle Pencil Company**

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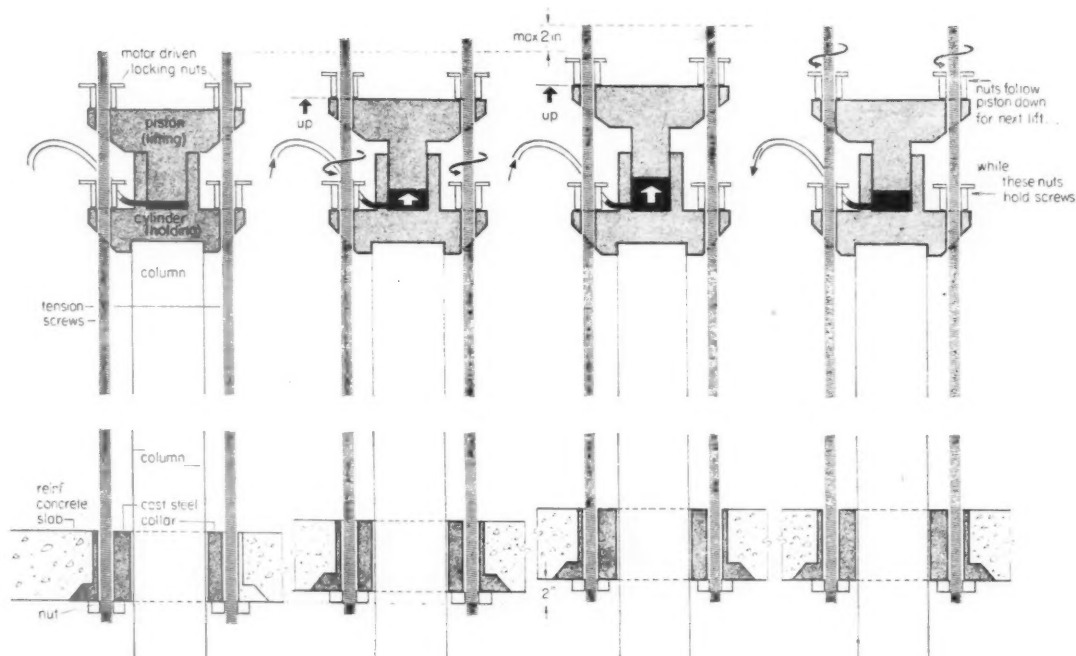
Telegrams : Octennial, London.

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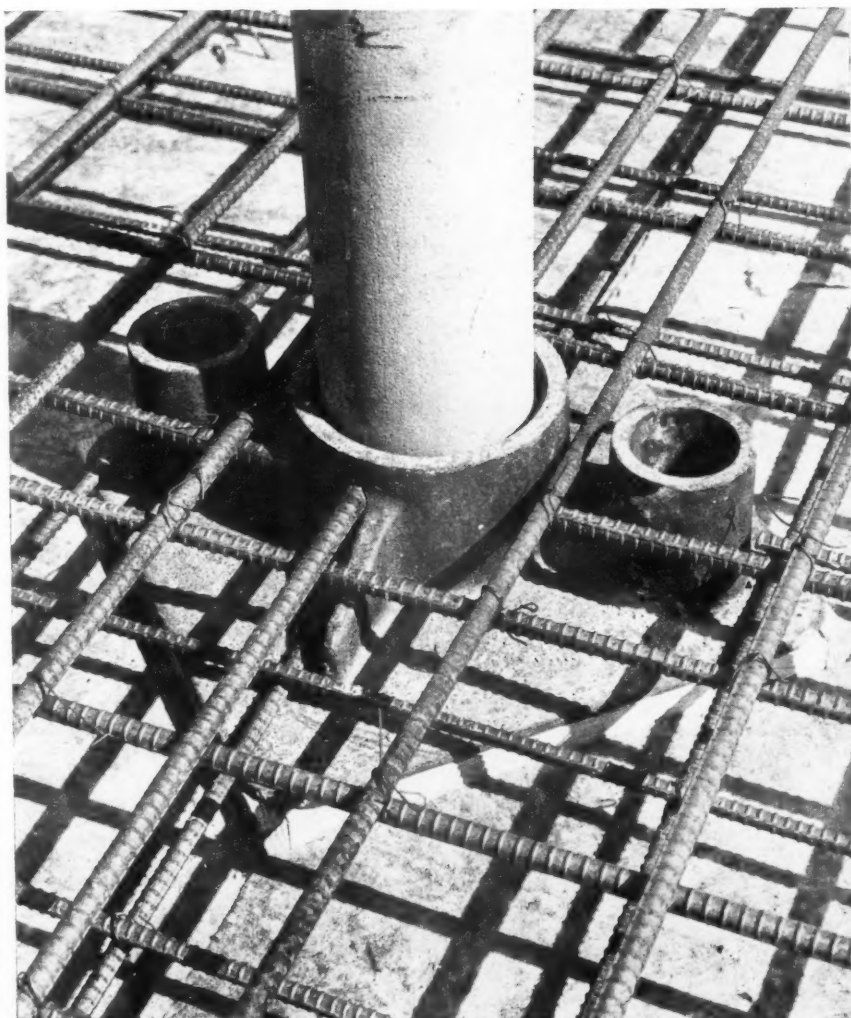
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Above, diagram showing sequence of operation of jack. See description on page 52.



Right, collar and steel reinforcement around it before pouring of concrete. The use of circular column is a recent development. Note, this collar has only two holes for the rods; it was designed for a single-storey building.



Raising a 22-ft. concrete wall slab.

it with talcum and when the slab comes up the underside is smooth like marble. We got another idea too. We make snap lines on the floor with coloured chalk, through the paraffin, to show where the partitions and the plumbing and the fixtures go. When the slab is lifted, the imprint on the ceiling is clearer than on the floor. It is a great saving in plumbing and follow-on trades.



Whitfield-Lewis asks a question.



O'Neil Ford answers it. Seen below his left hand, are: F. McManus, A. Pott and F. R. Yerbury.

Our most interesting job to date is a knitting mill we built for some people from Vienna. It was 26,000 sq. ft., but the day we finished, the owner—who has a factory in England—said “double the size”—just like that. We did something new. Instead of using any separator, we put down fibre-glass 1½-in. thick and poured our slabs on it. We had a fine acoustical material for almost no extra money. It was separator, acoustical material and insulator.

This (see adjacent photo) shows you that I am interested in a great many things. Some wall slabs were poured on the ground for a warehouse; after three days' curing they were lifted by the best hydraulic system I have ever seen. The jacks lift 140-ft. long slabs, 18-ft. high, in twenty-five minutes.

We take building like this for granted now; we think we know how to do it, so we are going right on with it. There are some extraordinary modifications of the system—we hope to start lifting concrete domes in some six months' time. The domes won't require much reinforcement—just some round the edge, which we will post-stress.

I want to pay tribute to the men who sat up all night when we lifted our first slab. Two thousand people came to watch and most of them came to see it fail. Dr. Everett, the President of Trinity University, agreed that we should absorb the shock on this first occasion. He said to me, “It seems to me we had better get on the slab.” Then he said, “Perhaps we had better get underneath it as soon as it is high enough, because if it does fall, you and I will be vastly better off there!”

## DISCUSSION

**WHITFIELD LEWIS:** *Have you considered tilting up completely finished walls, with the windows and insulation and so on already fitted?*

**O'NEIL FORD:** I do not approve of putting windows in the middle of slabs. The fact that it can be done does not make it any more virtuous. Holes should not be punched in a marvellous concrete slab; the windows should be put above the wall, if windows are wanted. Walls can be put up, if you wished, with the insulation put in and plastered over. Condensation has to be taken into account, but there are some wonderful new lightweight aggregates that minimise this danger.

**WHITFIELD LEWIS:** *I was speaking from the point of view of housing. We cannot afford a high standard of heating and double windows and, for a long time, we will have to go on thinking in terms of holes in walls.*

**O'NEIL FORD:** In that case, of course, it can be done.

**G. BEIERS:** *One of the most attractive things about this system is that there are no beams. Have you sacrificed economy of steel by cutting these out?*

**O'NEIL FORD:** There is a good deal of flat slab construction in the States. We have a firm with a patented system which builds perfectly flat slabs for warehouses which take enormous loads. We did not take great care to save steel. We pay a good price for it in America, but it was possible to economize in other directions. This gives the architect the opportunity to do a cleaner job more cheaply.

**H. F. COCHRANE:** *How do you take care of expansion in the large slabs?*

**O'NEIL FORD:** Expansion is taken care of in the same way as with any flat slab. One should not tempt the

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**NEW FASHIONED  
— yet as old as time!**

The all-over pattern behind these words gives the clue to their meaning. It is a photograph of the latest Chance glass, *FESTIVAL* — a design with an age-old inspiration, for it comes from the molecular structure of a mineral called apophyllite.

Why apophyllite? As members of the Festival of Britain Pattern Group, Chance Brothers accepted the invitation to create an entirely new pattern on just such a basis, and this is the outcome, with the help of designer J. Beresford Evans and the Council of Industrial Design.

You can see the new *FESTIVAL* glass in the Pattern Group displays at the Land Travel Exhibition and at the Regatta Restaurant on the South Bank. You will also find it in use in the Regatta Restaurant, in the structure of the Beer Garden in Battersea Park and in the Science exhibit at South Kensington.

You will be able to judge its true contemporary feeling, its excellent obscuration. *FESTIVAL*, moreover, is a practical design in every way — easy to fit (adjacent panes need not be matched) and easy to keep clean. There is going to be a big demand for

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devil, but I'm a little tired of the exaggerated talk of expansion and contraction. We have had weather from 105 deg. F. down to 1 deg. below zero in the last two years, but you heat your building—you must heat the fabric too, and with insulation on top of the slab, it never gets too hot; so the range is reduced.

**ERNO GOLDFINGER:** *Does it matter what size your slabs are, and must they be rectangular?*



*Erno Goldfinger asks a question.*

**O'NEIL FORD:** No. Any size or shape could be lifted. We are doing some terrace housing and the slab is a long strip. On this housing, the columns are staggered so as to make the floor planning easier.

**ERNO GOLDFINGER:** *Have you used prestressing?*

**O'NEIL FORD:** Research is being done on prestressing; we are working on a 100-ft. span slab for a building in Texas, which will be prestressed, with upstand beams. It is a great advantage to be able to prestress at ground level.

**T. CRAMP:** *What method is used to keep the stanchions plumb?*

**O'NEIL FORD:** The importance of exact plumb can be exaggerated. The plumbing takes care of itself as the slabs go up.

**G. E. HOGGART:** *Have you yet used panel heating as an integral part of the slab?*

**O'NEIL FORD:** Panel heating has been used in nearly every house and in many other buildings. A licensee in Alberta, where the temperature is 20 deg. below zero, wanted to know how to pour concrete in the winter. That was simple. You put in the panel heating and the boiler, fix fibre glass insulation and fix tarpaulin walls to the slabs. As the slab goes up the assembly goes up with it and keeps the slab from freezing. The men inside are kept warm and they can carry on with their work at no added cost.

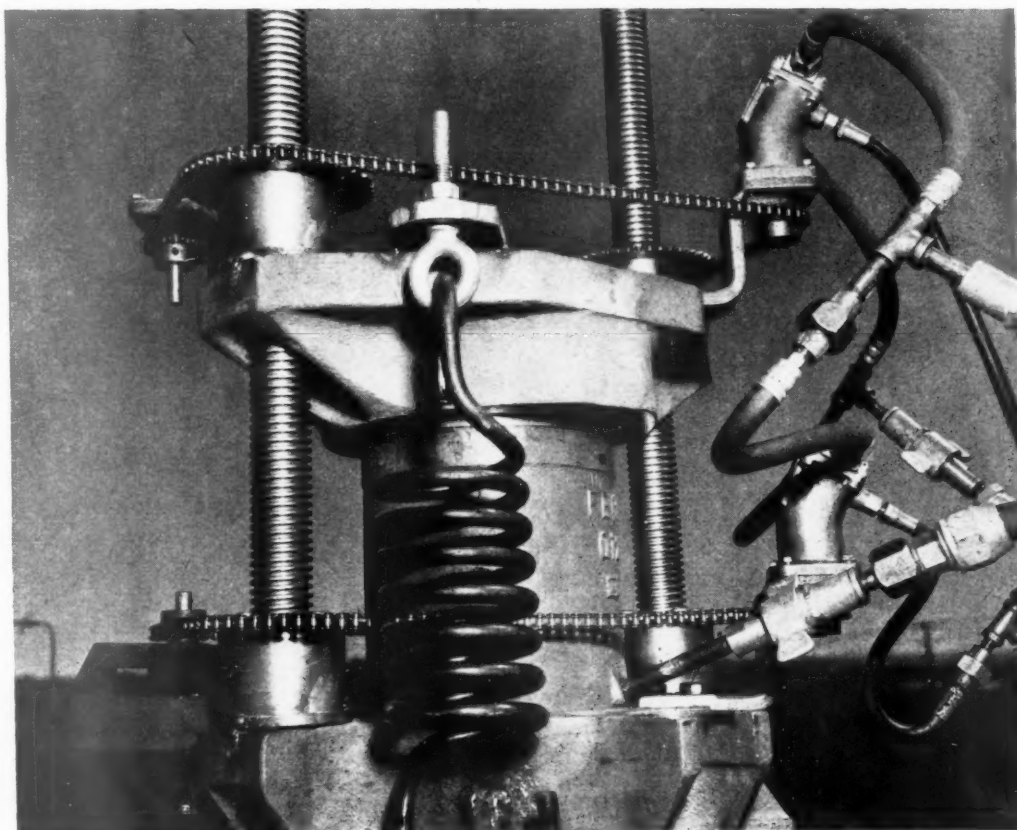
**A. A. BAKER:** *Having in mind the shortage of steel, do you contemplate using concrete columns?*

**O'NEIL FORD:** Concrete columns are contemplated and they are to be used on certain warehouses, but the cost will be higher.

**S. A. HURDON:** *There seems to be a limit to the height. Does it depend on the strength of the column?*

**O'NEIL FORD:** We have gone about this in a most conservative fashion. But we have designed an addition to a hospital where we are going up ground floor plus four with no qualms at all. The method is to go up two slabs lifted and then to start all over again. Even so, we eliminate the cost of shuttering, apart from an edge form.

[F. R. Yerbury, Hon. Secretary of the Building Centre and the JOURNAL'S Consulting Editor, proposed a vote of thanks to Mr. Ford, including in it thanks to J. O'Hea, managing director of W. H. Colt, Ltd., who sponsored the meeting.]



*Close-up of one of the jacks.*

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(Slab-lifting, continued:—)

## COMMENTS:

**GORDON TAIT (Architect):** "I hope some contractor takes it up; I'd be willing to use it. It has all the advantages; the absence of beams and the free-spacing columns. It saves you trimming round them and you can put your services wherever you like. It's particularly suitable for warehouses or schools (and office buildings). And it gives you complete freedom of expression on the outside."

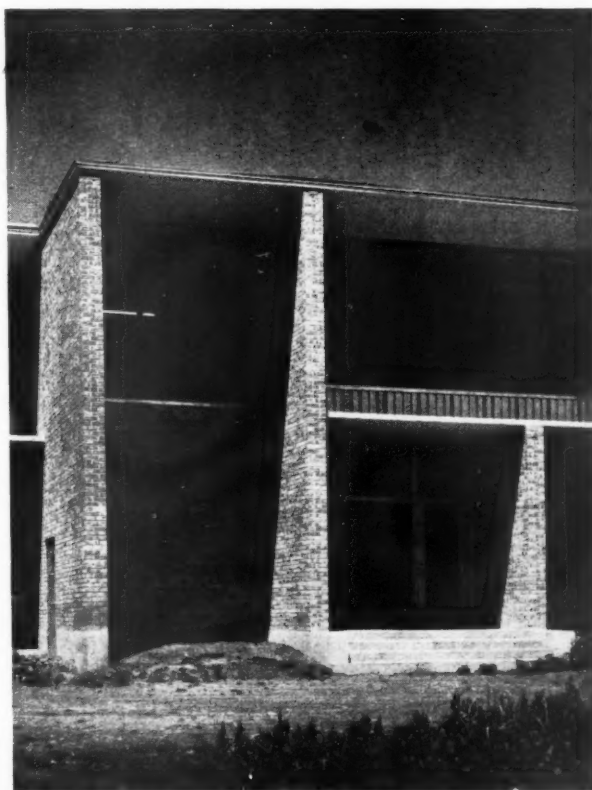
**WHITFIELD LEWIS (Principal Housing Architect, LCC Architect's Dept.):** "Owing to the present situation, economic considerations are all important with us. We have to use load-bearing construction now wherever possible, because it is most economical. By submitting calculations we can use 9-in. load-bearing brickwork (with engineering bricks on the ground floor) for blocks of flats up to 5 storeys high. With concrete we might even use load-bearing construction for buildings of 8 or more storeys. So even if slab-lifting is relatively economical, it won't stand much chance with us at present. But it is certainly full of possibilities, especially if it can be developed for use on multi-storey buildings."

**OVE ARUP (Consulting Engineer):** "The success of any system like this depends very largely on the architect. It is no good an architect designing his building and then going along to an engineer and saying I want to use this system or that system; he must decide right at the beginning how he is going to build and then design his building accordingly. Of course, this is precisely what Mr. Ford does; he has the system in mind all the time. He takes every advantage of it and all the little savings add up. The main snag here is the steel content. Flat slabs, lifted or not, use more steel than beam and slab construction—anything up to twice as much. You could save steel by using lightweight aggregates, perhaps for the parts of the slab with least stress, but this would complicate the system and might outweigh the economy. You would have to go into a lot more detail to make it workable here, but I've always been trying to use flat slabs, they give you such a clean-looking building."

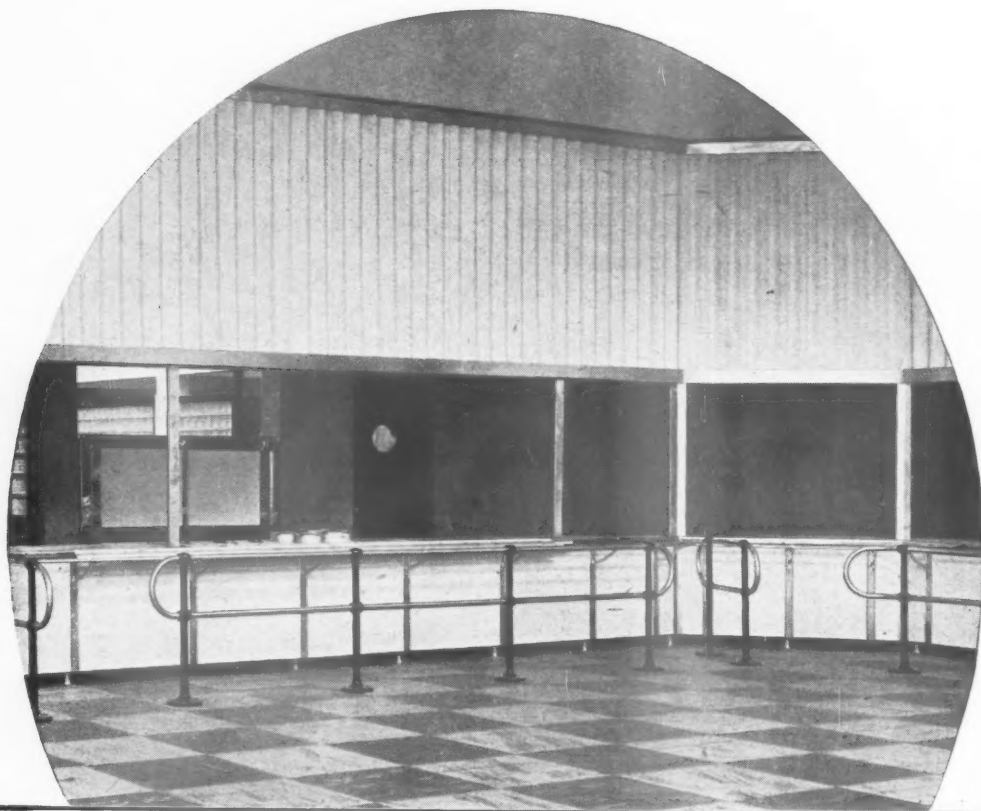
**C. D. MITCHELL of Wates Ltd. (Building and Civil Engineering Contractors):** "O'Neil Ford's lecture was stimulating and interesting—time well spent. I'm sure this system is a great success in the United States. Whether

it could be here is up to the architect. As far as the contractor is concerned I don't think it presents any undue risks. After all, we're used to taking risks! But I don't know about the availability of steel; the "powers-that-be" may, at present, rather spend more money and save steel than *vice-versa*."

**AJ SPECIALIST EDITOR No. 13 (Structural Engineering):** "Flat slabs may be conventional practice in America, but in England their use is governed by Codes of Practice and Bye Laws. These require a minimum of three spans in two directions at right angles. Moreover, we seldom use steel stanchions with concrete slabs, although there is no reason why we shouldn't. The question of plumbing the stanchions would be rather more important in this country, for eccentricity means using more steel. Incidentally, the steel reinforcement for 2-span slabs with cantilevers must be placed and held very carefully and leaves little freedom for the positioning or cutting of holes."



*One of the entrances of the new administration and classroom block of Trinity University.*



*craftsman-laid with craftsman-made*

## SEMASTIC DECORATIVE TILES

A PRODUCT OF A DUNLOP COMPANY

One could be forgiven for imagining that the picture above was taken at the newest self-service restaurant in the heart of London's West End. In actual fact it was taken at a new canteen in the heart of the industrial Midlands, at the canteen provided for the employees of the Austin Motor Co., Birmingham.

Not a little of the pleasant atmosphere of this canteen is due to the choice of floor covering. For the Semastic Decorative Tiles, a craftsman-made product of a Dunlop Company, give it an uncommon

degree of comfort, colour and warmth. These under-foot advantages are not obtained at the cost of economy and serviceability. On the contrary, Semastic Decorative Tiles are extremely hard-wearing, inexpensive to install, easy to clean and to maintain. Semastic Decorative Tiles, which are available in a range of plain and marbled shades that permits the utmost flexibility in design, are laid only by contractors whose experience, qualifications and reputation place them amongst the country's best.

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*A digest of current information prepared by independent specialists; printed so that readers may cut out items for filing and paste them up in classified order.*

## INFORMATION CENTRE

### 16.75 materials: miscellaneous BRICKWORK MORTAR

*Mortars for Brickwork.* Ministry of Works' Advisory Leaflet No. 16. (HMSO. 1951. 2d.)

Essential qualities. Choice related to brick, exposure and building conditions. Table summarizes types and uses.

A simple leaflet which includes a tabulated summary of mortar mixes showing where each type may be used. The essential point of the leaflet is to emphasize the value of having some lime in mortar for all uses except where great strength is required or where there will be severe exposure to damp and frost.

### 17.77 construction: general ARC WELDING APPLICATIONS

*Tillämpad Bågsvetsning (Application of Arc Welding).* (ESAB, Göteborg [Sweden], 1950. 15 Kr.)

Prize winning papers and others from an international competition. 327 pp., many diagrams and photographs.

This volume contains the condensed version of some of the 46 papers which were sent in from 7 different countries. They are given in their original language, mostly Swedish, with an English translation. The publishers are among the oldest and largest firms of welding electrode manufacturers; editorial work is not normally a part of their activities. They are right to apologize for the shortcomings due to condensing and translating highly technical contributions of this nature; the reader may not always find it easy to follow the English version.

The architect will be mainly concerned with the section on bridges, structures and houses. There is a 50-page paper by Prof. Torroja of Madrid, giving a fully-detailed report of his pioneering work in the field of composite structures and all-welded lattice girder bridges of large spans. The problem of bond cleats and wire hooks between steel members and concrete slabs is discussed. The novel shape of the Tordera bridge is shown, with its welded twin lattice girders of triangular cross section bonded into the reinforced concrete roadway slab at the top, with main spans up to 180 ft. Papers from Switzerland give interesting descriptions of research work on new types of welded construction being investigated at the materials testing laboratories in Zurich.

### 18.81 construction: theory FIRE PROTECTION

*Sprinkler Systems.* Draft BS C of P. Sub-Code 402.201 (British Standards Institution, 1951. 3s.)

Principles, design, installation and maintenance of sprinkler systems.

The code deals with the general principles for the provision of automatic sprinkler installations in buildings. In addition to indicating the need to exchange certain information and to compile a time schedule for the installation of the system, the code lists the requirements for the various fittings and components, and refers to the British Standards where relevant.

The design section includes general information on the installation of the three types of systems—the wet-pipe, alternate wet- and dry-pipe, and dry-pipe systems. There are recommendations regarding the number, position and operating temperatures of sprinkler heads, the operation of alarms, special precautions for systems liable to freeze, pressure gauges, valves and supply connexions, piping, multiple-jet sprinklers and water supplies. There are also recommendations on systems suitable for dealing with oil fires.

Information is given on the actual work of installing the system, and on the regular tests necessary, including weekly and quarterly inspections.

### 18.82 construction: theory STRUCTURAL THEORY

*Structural Theory.* 4th Edition. H. Sutherland and H. L. Bowman (John Wiley & Sons, Inc., New York [USA]. Chapman & Hall Ltd., London. 1951. 40s.)

American textbook, first published 1930. 394 pp., many diagrams.

The twelve chapters of this book cover most of the syllabus for our B.Sc. in structural engineering. Practical design, however, is not discussed in detail, as this is covered in another book by the same authors, both Professors of Civil Engineering. The students' needs are well served by clear and lively presentation of the analysis and by the inclusion of many worked examples. It is just the sort of textbook the student will find helpful in preparing for his finals. There are the well-known differences between English and American technical terms and notation but, even so, the book is pleasant to read.

### 19.121 construction: details SHEET FLOORING

*Sheet and Similar Floorings.* BS C of P 230 (British Standards Institution. 1951. 3s.)

The sub-floor. General information. Fixing of linoleum, cork carpet, rubber and cork flooring.

Collected together in this code is general information on several types of sheet finishes for floors. The first section, which deals with the sub-floor, emphasizes the need for a dry base and describes a method of testing the dryness with a hygrometer. (It will be interesting to see how contractors react to such a suggestion!)

The subsequent sections deal in some detail with the several materials. Unfortunately, some of the things on which guidance is often wanted, such as type of adhesive to use, is dealt with in a typically vague way by saying "the purchaser must satisfy himself . . . . .". On recommendations for thickness of material the Code is no more helpful.

There appears to be an error on page 20 where it is stated that cork tiles must never be trimmed to a thickness of less than  $\frac{1}{8}$  in., for earlier the Code gives  $\frac{1}{4}$  in. as a minimum thickness for these tiles. On the same page, the fixing of cork tiles by nailing with one pin in each corner is said to be effective. If tiles are 36 in. long, this hardly seems adequate.

There are some useful reminders about

slipperiness, staining, etc., and notes on maintenance. A wide variety of floor finishes are now in common use but the general public does not know how they should be treated. It should be a regular drill for the architect to hand over to his clients a set of appropriate instructions. Some makers of patent floor finishes do, indeed, issue printed instruction sheets of this kind. The trouble is, of course, that clients lose the instructions. Perhaps it would be wise to have them framed and hung up in cleaners' rooms or some other place where they can be kept in sight. Better still would be a "follow up" service by the flooring firms. Such a service—say visiting once a year—might prevent unnecessary damage and also save some materials from unjust condemnation.

### 23.148 heating and ventilation THERMAL INSULATION

*How to Insulate Buildings.* (The Structural Insulation Association. 1951.)

Tables giving "U" values for great variety of structural combinations, grouped under Houses and Industrial Buildings, with sub-groups for floors, walls, flat roofs and pitched roofs. Also, table giving description, weight, size and k values of 17 insulating materials. A useful office reference.

### 24.151 lighting OFFICE LIGHTING ECONOMICS

*Appraisal of Modern Fluorescent Office Lighting.* G. J. Taylor. (Illum. Eng. [USA], March, 1951. p. 140.)

Classified lighting units, calculations, quality appraisals, first cost, maintenance and operating costs. Thorough, general interest for architects, detailed for lighting engineers.

Some interesting ideas on design are mentioned. The author claims that the economic height of American office blocks is now about 25 storeys and that the lack of light wells has forced owners to attract tenants by providing better artificial lighting. Owners of buildings are modernizing them extensively.

Two general types of lighting are compared, one using suspended lighting fittings and one using fittings recessed into the ceiling. The cost analysis takes into account the two types of suspended ceiling used in American offices—lath and plaster, and prefabricated acoustical units. The basis of the comparison is a 50-ft. candle illumination, judged by comfort, appearance, maintenance, first cost, and operating cost.

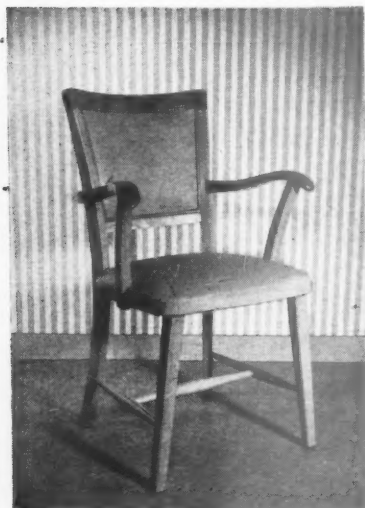
The cost analysis is very interesting; it gives amortization rates (15 per cent. for fittings, 7½ per cent. for wiring, because the latter lasts twice as long as the former). Ease of replacing lamps and cleaning fittings is discussed, and the importance of durability is stressed.

It is shown that first costs have risen from about 2 per cent. of building costs to 15 per cent.; a rise which reflects the increased importance now attached to lighting.

Operating costs are now usually about 2 per cent. of total building operating costs, including fixed charges and pay roll, and it is shown that the fixed and construction charges are so large a proportion of the total that the difference in cost between providing for instance, 30- and 50-ft. candles is unimportant.

The cost of providing good lighting is compared with the cost of providing other necessities of good working conditions and it is shown that the cost equals roughly the cost of good acoustical absorption treatment, and is about one-third of the cost of furniture and air-conditioning.

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## THE INDUSTRY

By Brian Grant

### READY-MADE SHUTTERING

Austins of East Ham are now manufacturing ready-made shuttering panels in standard lengths of 4 ft. 10 in. and 2 ft. 5 in., both 1 ft. 6 in. wide. Other sizes can be obtained if the quantity needed is large enough. The panels are built up from 1½-in. boards, planed on both sides and held together at the joints with corrugated metal fasteners, and across each short side there is a steel rod, sunk in a groove so that the whole panel is kept flat.

It should be emphasized that these units are *not* intended to be cut or shaped for each job, but should be used to cover the greatest possible area, leaving a minimum to be made up with ordinary shuttering.

cuit, but after a period, depending partly on the amount of use, the contents of the settling tank are drained off to a soakaway; the effluent being quite harmless and, in the words of a Government research centre, "not far removed from the standard required for potable water." For some reason this all too vivid standard of purity is often applied to sewage effluents and, although I have little doubt that it is quite accurate, readers must decide for themselves whether to make the circuit one degree more closed. (*Proved and Producing Properties Ltd., 5 Cheapside, London, E.C.2.*)

### ROUGHENING CONCRETE SURFACES

The Metropolitan Construction Company, Ltd., have developed a method of roughening hard surfaces. This has been applied successfully to concrete and granite-sett roads that have become smooth and to concrete sub-floors in order to improve the key for toppings and dressings. The treatment may be found useful for other purposes.

The apparatus consists of four pneumatic drills, fitted with cross-headed bits and mounted in a two-wheel carriage which is manually propelled. Compressed air is supplied from a mobile compressor. The operator pushes the machine slowly forward, imparting a weaving motion to it so that a strip approximately 24 in. wide is covered. The depth of material removed, in the form of very small chippings, does not exceed about ⅛ in. or ¼ in. and the rate of treatment is about 10 sq. yds. per hour. As a means of increasing the coefficient of friction of a road the treatment is particularly valuable, since the level of the road re-



*The Destrol chemical closet: de luxe model.*

that the joint is extremely difficult to break even using pneumatic tools. (*The Metropolitan Construction Co. Ltd., 66, Queen Street, London, E.C.4.*)

### LIGHTING FITTINGS

The aluminium fitting below is designed by Gaby Schreiber. It takes 3 lamps, each of 60 or 100 watts. The one shown in the illustration is anodized gold and sprayed pink inside. It costs £11 12s. 10d., including purchase tax. Other models are available anodized or sprayed in various colours. (*Frederick Thomas & Co. Ltd., Everton Buildings, Stanhope Street, London, N.W.1.*)

### STEEL RATIONING AGAIN

Steel shortages have become so acute and steel has been changing hands at such high under-the-counter prices that Mr. Gaitskell's announcement that steel is once again to be rationed will come almost as a relief. It will, no doubt, be a nuisance filling in the forms again but, at least, you will know whether or not you will get the steel, and if you do, it will be at the proper price. There is also to be tighter control of copper and zinc and their alloys.

The schemes are still being worked out, and one may hazard a guess that they will not be in operation before the end of the year. In the meantime defence orders and the most important civilian orders are to receive priority.



*The use of pneumatic machines for roughening the surface of a road which has worn smooth.*

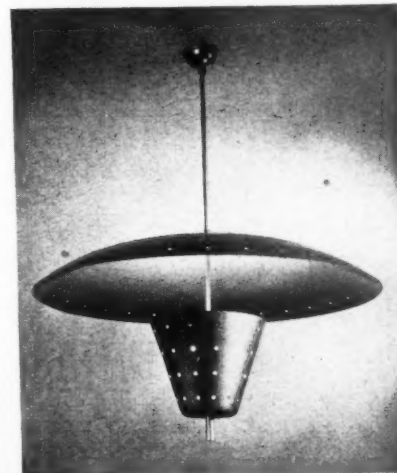
They are, in fact, meant to be regarded as building plant and re-used until no longer fit for the job. Just how long this will be depends on how the panels are treated, but recent tests have shown that after being used 40 times only about 6 per cent. of the panels were unfit for further use; so this seems one way of making the most of a shuttering licence. (*Austins of East Ham Ltd., London, E.6.*)

### SEWAGE DISPOSAL

In the absence of a drainage system the use of a septic tank presents few difficulties but, if there is no water supply for flushing, the problems are almost unsurmountable. Earth or chemical closets are adequate but have the disadvantage that every so often you have to dig a hole to bury the contents. The Destrol system, illustrated top right, is a cross between a septic tank and a chemical closet. The w.c. itself is normal, but it discharges into a settling tank in which there is a mixture of water and sterilising fluid. This mixture is pumped up into a standard flushing cistern, so that the w.c. can be used in the normal way. All the water and chemical mixture used is in a closed cir-

cuit, but after a period, depending partly on the amount of use, the contents of the settling tank are drained off to a soakaway; the effluent being quite harmless and, in the words of a Government research centre, "not far removed from the standard required for potable water." For some reason this all too vivid standard of purity is often applied to sewage effluents and, although I have little doubt that it is quite accurate, readers must decide for themselves whether to make the circuit one degree more closed. (*Proved and Producing Properties Ltd., 5 Cheapside, London, E.C.2.*)

It is five years since the first section of concrete road was treated in the Southern Counties, and about 28,000 sq. yds. have since been roughened for the authority concerned. Another authority, in the Midlands, has had 11,000 sq. yds. treated, and similar work has recently been carried out for the Hackney Borough Council in Lea Bridge Road. The Metropolitan Construction Company, who contract for these works, believe that the treatment may be of service in other fields. Several flooring specialists have used the machine to prepare sub-floors for toppings and dressings and the firm has carried out experiments recently in conjunction with the Cement Marketing Company, removing ⅛ in. of an existing sub-floor, and replacing it with ½-in. granolithic topping. It is claimed



*A new aluminium lighting fitting designed by Gaby Schreiber.*



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## Announcements

Sir Leonard Dyer has accepted an invitation to join the Board of Richard Crittall & Co. Ltd. Sir Leonard Dyer is at present chairman and managing director of British Automatic Refrigerators (1936) Ltd., J. D. Insulating Co. Ltd. and General Air Conditioning Industries Ltd.

Following increased costs of production, mainly with raw materials, revised selling prices of roofing felts and dampcourses made to British Standard Specification have been introduced by members of the Association of British Roofing Felt Manufacturers. These prices, which have been agreed between the MOW and the manufacturers' association, represent an increase of about 11 per cent. on the overall prices existing before June 18, but this overall result is being secured by applying varying increases to the different types of products.

Mr. Wm. Leighton Gibbins, A.R.I.B.A., of Exeter, has changed his office address to 45, North Street, Exeter. His present telephone number, Exeter 56748, will be retained.

A branch office has been opened by Gent & Co. Ltd. at Winchester House, Victoria Square, Birmingham. Telephone: Midland 6443.

Mr. Crofton G. Dalzell's Portrush branch has been moved from 16, Eglinton Street to Bath Street, Portrush. He would welcome trade catalogues at his new address.

Johnson & Phillips, Ltd., announce that Mr. A. C. Hartley, who was until recently Chief Engineer of the Anglo-Iranian Oil Co. Ltd. and is this year's President of the Institution of Mechanical Engineers, has today been appointed to their Board of Directors.

Mr. Harold G. Ellis, B.A.R.C.(HONS.LIV.), A.R.I.B.A., has resigned his position as Architect to the Hornchurch Urban District Council in order to take up the appointment of Sectional Assistant Architect to the County Architect, Essex County Council. From July 2, his address will be c/o Architect's Dept., County Hall, Chelmsford, Essex.

A change in the construction of the Board of Vulcan Products Ltd. was recently announced, with the addition of Mr. Frank W. R. Douglas, Mr. F. R. Eden, Mr. A. L. Smith and Mr. E. C. Wingrove. Mr. Wilmin remains in his capacity of Chairman and Managing Director, Mr. Douglas being the Deputy Chairman.

## Buildings Illustrated

*House in Northcroft Road, Englefield Green, Egham, Surrey.* (Page 48.) Architect: Bevil Greenfield, A.R.I.B.A. General contractor: Messrs. W. G. Batten. Sub-contractors: Central heating, boiler and radiators, Crane Ltd.; electric light fixtures, Troughton & Young (Lighting) Ltd., General Electric Co. Ltd.; paint, Hadfields (Merton) Ltd.; sanitary fittings, John Bolding & Sons Ltd.; Taylor Rustless Fittings Co. Ltd.; case-ments and joinery, Messrs. Pryor & Son.

## Correction

In our issue of June 28 we omitted to mention the name of S. H. Loweth, F.R.I.B.A., Kent County Architect, in connection with the proposed county primary school at Orpington Poverest, designed by Gollins, Melvin & Partners.

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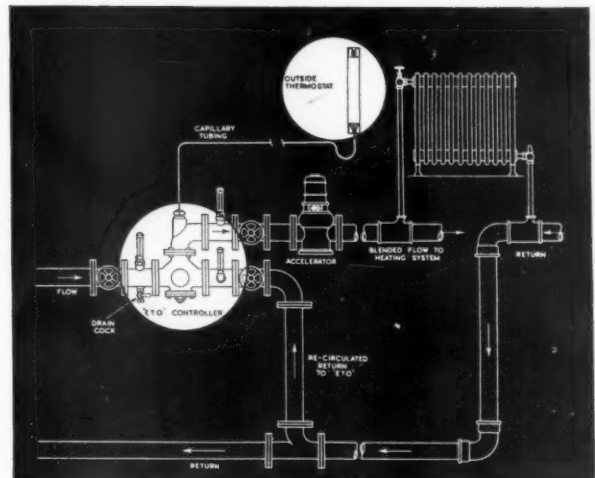
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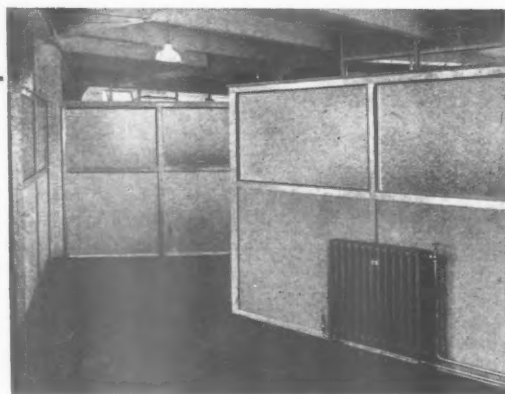
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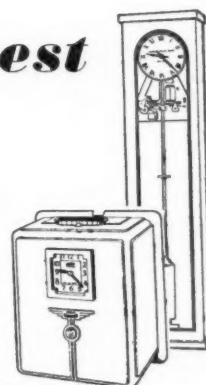
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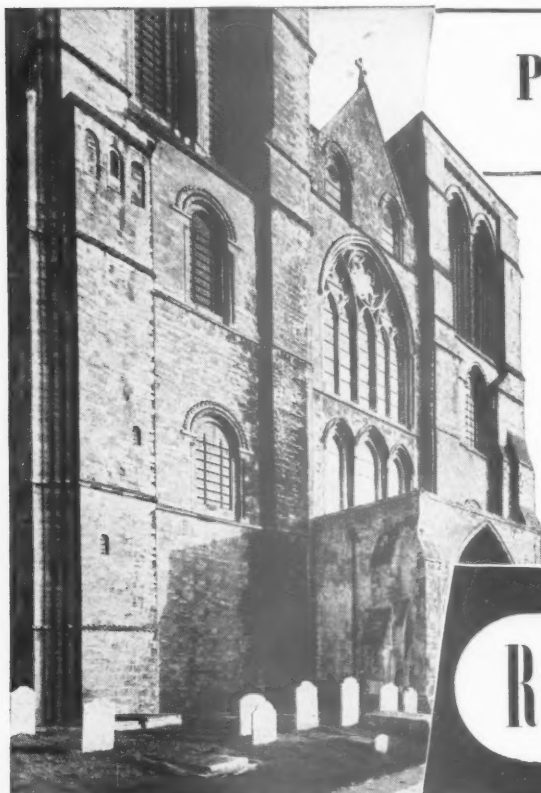


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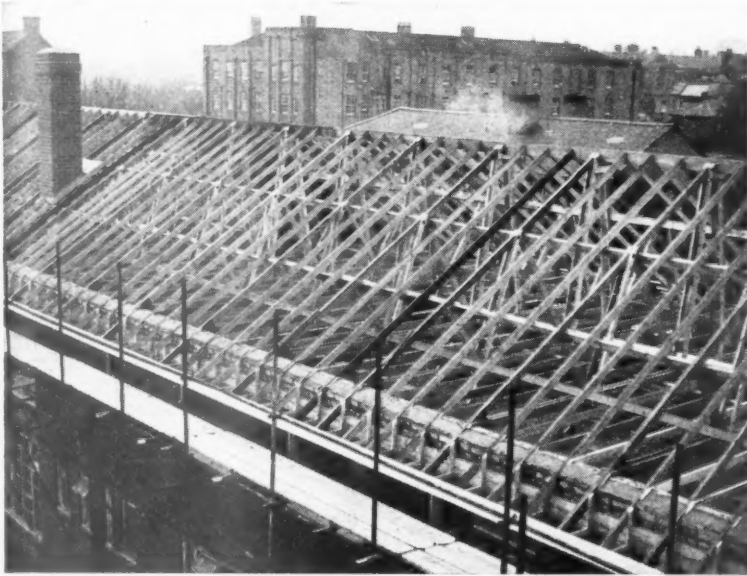
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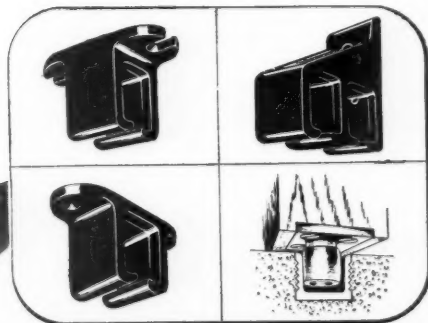
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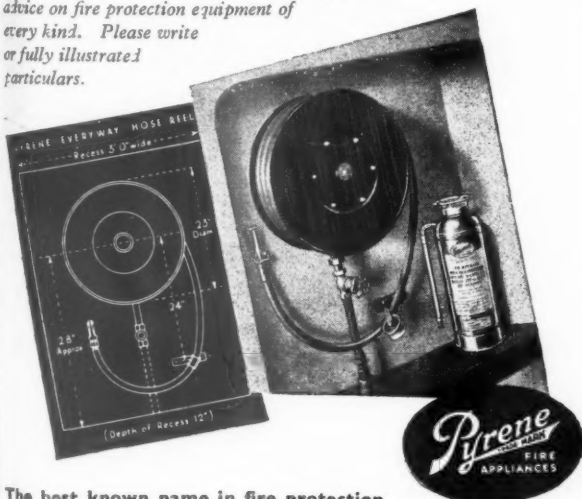
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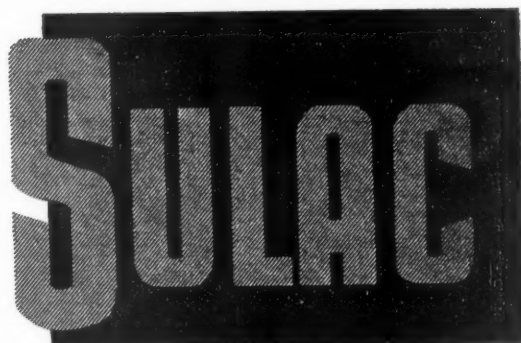
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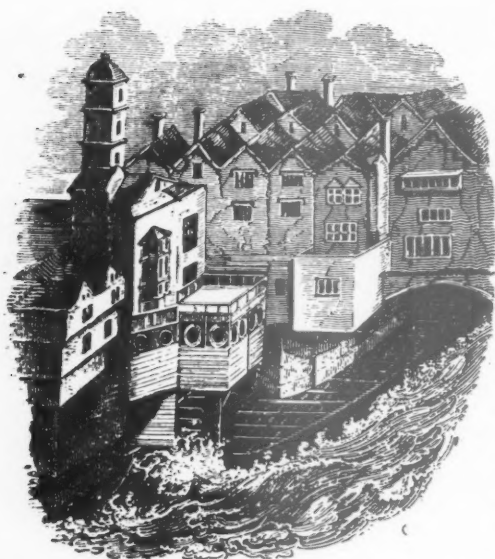


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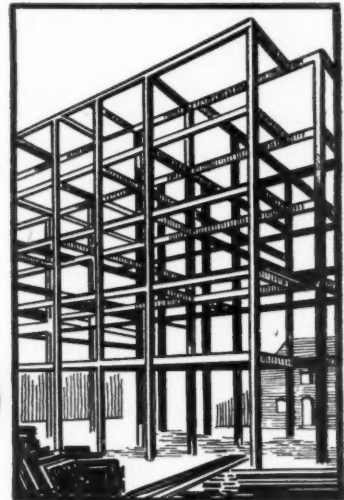
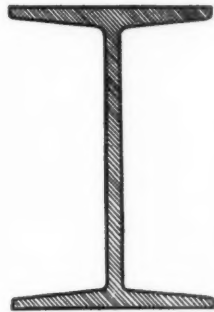
Here also an attempt is made to portray that complicated and diverse character which is peculiar to the City, that strange agglomeration of the monumental and intimate, tall business houses overlooking the intricacy of narrow alleys and quiet churchyards, the river, and the concentration of commercial and trade centres—banking, insurance, furs, shipping, textiles, wine, printing, markets and exchanges, all compressed into a few acres, an area so small that a pedestrian can comfortably encompass it in an hour or two. What he is likely to see after reconstruction is completed and new buildings are woven in amongst the ancient landmarks is visualized in a series of drawings by Gordon Cullen.

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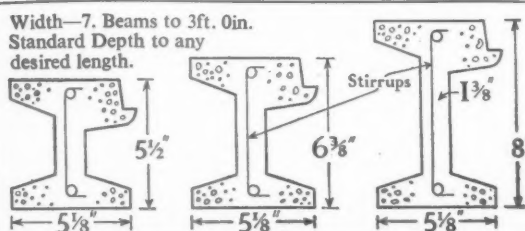
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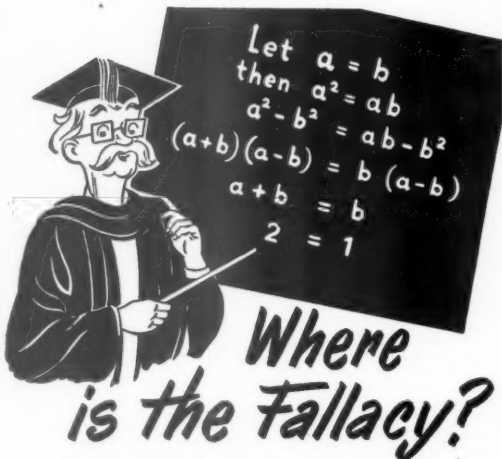
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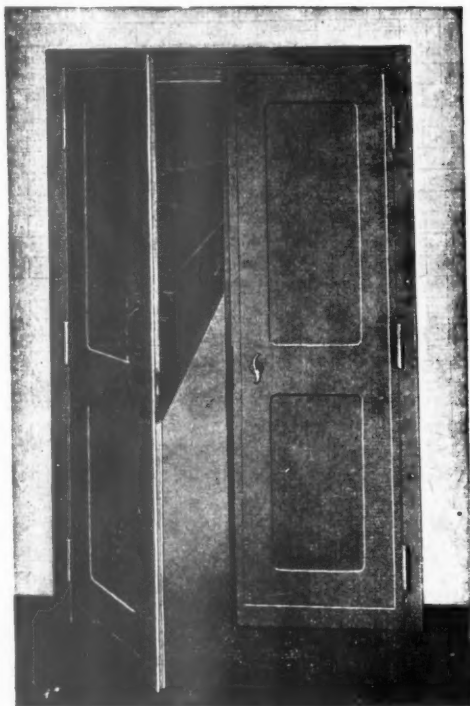
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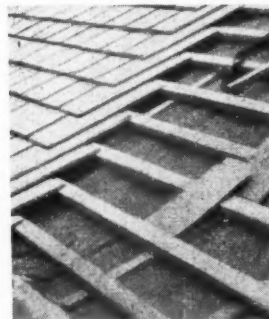
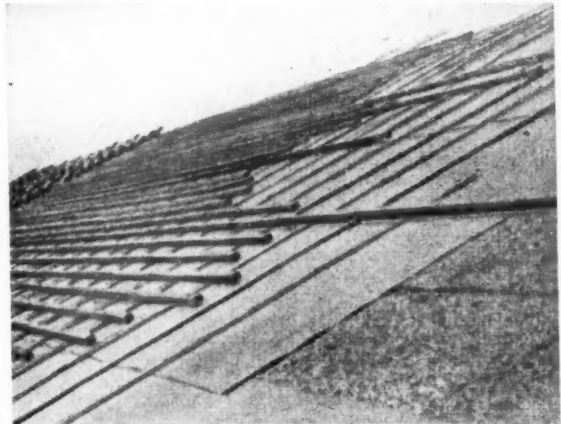
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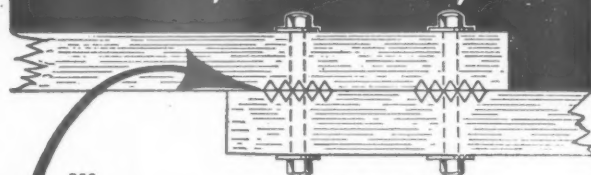
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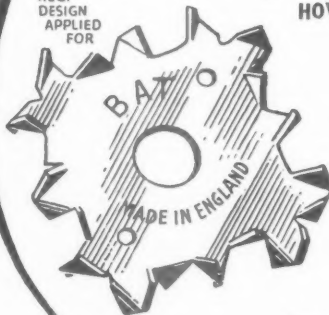
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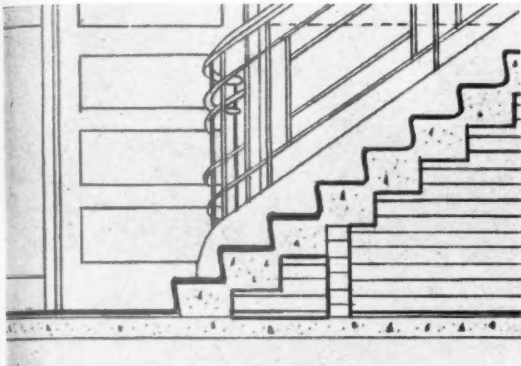
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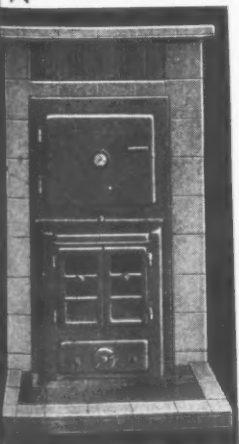
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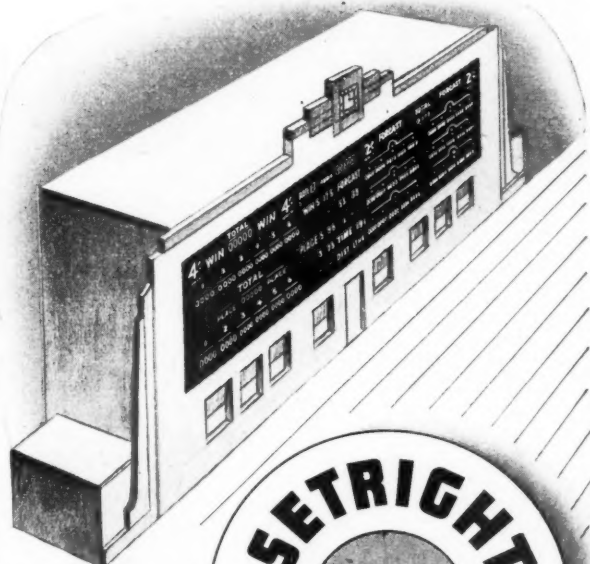
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## Britain's Festival Village



Trowell is the village, a few miles from Nottingham. Festival organisers have selected it from 1,500 others as the type on which they would like to "focus" attention. Photographs have been taken to appear on the official Festival souvenir programme.

### 'Roots in history'

Three reasons why Trowell was chosen were suggested by a Central Office of Information spokesman last night as being: (1) It is within a few miles of the centre of England; (2) The "ambition and courage" of its Festival programme; and (3) Its unusual name. Said the Rector of Trowell, Rev. J. A. Barber, last night: "My own view is that it was chosen as an old community which has lost its village setting. "It is typical of English life now. Despite all the changes it has its roots down in history. I think it is more picturesque of life today than some picturesque old village in the Cotswolds or Sussex, for example."

"Nottingham Evening News" photograph

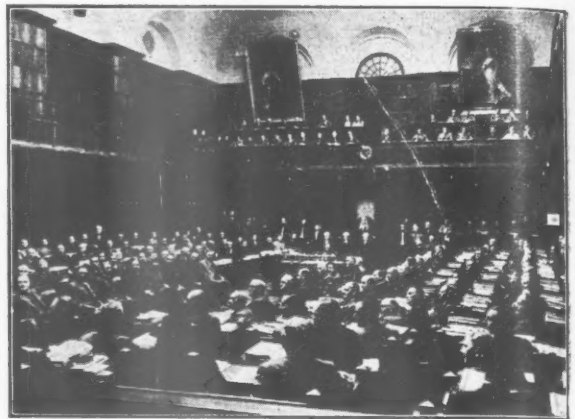
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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

## Public and Official Announcements

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## LONDON COUNTY COUNCIL.

Applications are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £80 basic a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

All rates of pay up to £600 a year (basic) are at present subject to an addition of 10 per cent. Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes, cottages and multi-storey flats, and will be employed in the Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.11). Canvassing disqualifies. (816) 2615

## COUNTY BOROUGH OF DERBY.

**BOROUGH ARCHITECT'S DEPARTMENT.** Applications are invited for the following appointments on the permanent staff in accordance with the National Scale of Salaries:

(a) **SENIOR QUANTITY SURVEYOR, Grade VI.** Salary £645-£710. Applicants should be Chartered Quantity Surveyors or prospective, and be fully experienced in the preparation of quantities, specifications, site measuring and estimates.

(b) **JUNIOR QUANTITY SURVEYOR, Grade III/IV/V.** Salary £500-£620. Applicants should be of R.I.C.S. Intermediate Examination standard, and be fully experienced in abstracting and billing, measuring on site, preparation of final accounts and taking off quantities for small building works.

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

Forms of application may be obtained from the Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with a copy of one testimonial and the names of two persons to whom reference may be made, to arrive not later than Monday, 23rd July, 1951.

Canvassing directly or indirectly will be a disqualification.

E. H. NICHOLS,

Town Clerk.

2988

## CORPORATION OF LONDON.

## APPOINTMENT OF ARCHITECTURAL AND SURVEYING ASSISTANT - AUXILIARY STAFF.

Applications are invited for the appointment of an ASSISTANT within the range of the General Grade, maximum salary of £540 at age 30 years, commencing salary related to age by scale, minimum age 23 years. Applicants should have had good office experience and have passed or be preparing for Intermediate R.I.B.A. or R.I.C.S. Examination.

The appointed officer will require to pass a medical examination and to contribute to the Corporation's Superannuation Fund as maintained under the City of London (Various Powers) Acts, 1931 and 1960.

Applications, giving full personal details, particulars of qualifications, experience, age, past and present appointments, and the names of two persons to whom reference may be made, should be sent to the City Surveyor, Corporation of London, 55/61, Moorgate, London, E.C.2, not later than the 23rd July, 1951. 2967

## MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS, with recognised training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing.

Salary: Architectural Assistants, £300-£525 per annum. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces.

Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancies.

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, Ministry of Works, Abell House, John Islip Street, London, S.W.1, quoting reference WG10/BC. 2914

SURREY COUNTY COUNCIL  
COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, GRADE VI, at a commencing salary of £645 per annum, rising by annual increments of £20/£25 to a maximum of £710 per annum, plus London Allowance of up to £30 per annum, according to age.

Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division) and who have adequate experience in the preparation of Bills of Quantities, site measuring and in settlement of final accounts.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 28th July, 1951.

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

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

T. W. W. GOODERIDGE,

Clerk of the Council.  
County Hall, Kingston-upon-Thames. 3011

## DEVON COUNTY COUNCIL.

Applications are invited for the following appointments in the South-Western Divisional Office (Plymouth) of the County Planning Department:-

(a) **SENIOR DEVELOPMENT PLAN ASSISTANT.**—The person appointed should have had considerable experience in the preparation of Development Plans in town and rural areas. Preference will be given to applicants possessing A.M.T.P.I. and/or other recognised qualifications. Salary is in accordance with the A.P.T. Grade V of the National Joint Council's Scales.

(b) **DRAUGHTSMAN.**—The person appointed must be a neat and expeditious draughtsman. Preference will be given to persons possessing previous experience in a Planning Office. Salary is in accordance with the General Division of the National Joint Council according to age.

In the case of appointment (a) applicants will be required to provide a car for the use of which an allowance will be paid in accordance with the Council's Scales.

Both appointments will be subject to the National Joint Council's Conditions of Service; and to the provisions of the Local Government Superannuation Act, 1937.

Canvassing, directly or indirectly, is prohibited.

Applications giving the names of three persons to whom reference may be made should be forwarded to the Director of Planning, Bradninch Hall, Castle Street, Exeter, so as to reach him not later than the 26th July, 1951.

H. A. DAVIS,

Clerk of the Council. 3009

## PONTYPRIDD URBAN DISTRICT COUNCIL.

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT, at a salary of £760 per annum—the maximum of A.P.T. Grade VII of the National Scale of Salaries. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

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

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

Applications in form required, together with copies of three recent testimonials, must be delivered, appropriately endorsed, to the undersigned, not later than Saturday, the 11th day of August, 1951.

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

JOHN HILTON,

Clerk of the Council.  
Municipal Buildings, Pontypridd, Glam.  
July, 1951. 3008

## LONDON ELECTRICITY BOARD.

**ARCHITECTURAL ASSISTANT.** Applications are invited for the above position in the Chief Engineer's Department in Central London.

Applicants should be studying for or have passed the Intermediate examination of the R.I.B.A., be capable draughtsmen and have had several years' experience in an architect's office.

Pending grading of the post under the national agreement of the appropriate negotiating body, the commencing salary will be from £525 per annum, inclusive, according to qualifications and experience.

Application forms obtainable from Establishments Officer, 46, New Broad Street, E.C.2, to be returned duly completed by 1st August, 1951. Please enclose addressed envelope and quote ref.: V/1266/A. 3020

GOVERNMENT OF NORTHERN IRELAND.  
MINISTRY OF FINANCE.

**CHIEF ARCHITECT'S BRANCH.** Applications are invited for ASSISTANT ARCHITECT posts in the Ministry of Finance. Subject to a probationary period of two years, the posts are permanent and pensionable.

**Remuneration.**—The scale is £500, by £25 to £750. The entry point to this scale depends on age, viz., £500 at age 26 plus £25 for each year above that age. The upper entry point is, however, subject to a limit of £650 per annum.

**Qualifications.**—Candidates must be Registered Architects by examination. In addition, they must have had at least two years' experience in an architect's office or department in the preparation of working drawing for new buildings.

Preference will be given to candidates who have served in H.M. Forces in war-time, provided that such candidates can, or within a reasonable time will be able to, fill the posts efficiently.

Application forms may be obtained from the Secretary, Civil Service Commission, Stormont, Belfast, to whom they must be returned with copies of two recent testimonials. 3021

## DORSET COUNTY COUNCIL.

Applications are invited from qualified Architects for the appointment of COUNTY ARCHITECT at a salary of £2,000-£2,250 per annum.

The County Architect is responsible for preparation of plans, construction and maintenance of all county buildings, including schools, police stations, police houses, staff houses, etc. In addition to first class architectural ability, exceptional administrative capacity will be necessary.

The appointment will be subject to the conditions of service adopted by the Joint Negotiating Committee for Chief Officers of Local Authorities.

Full particulars and forms of application may be obtained from the Clerk of the County Council, County Hall, Dorchester, to whom applications should be returned by the 25th August, 1951. 3022

CUMBERLAND COUNTY COUNCIL.  
PLANNING ASSISTANTS A.P.T. GRADE VI

(£645-£710) AND A.P.T. GRADE VII (£685-£760).

Applications are invited from qualified and suitably experienced candidates for the above permanent appointments in the Department of the County Planning Officer. Further particulars as to duties, car and subsistence allowances, etc., and forms of application may be obtained on request from the County Planning Officer, Citadel Chambers, Carlisle, to whom completed forms are required to be returned by Wednesday, 25th July, 1951.

G. N. C. SWIFT,

Clerk of the County Council.  
The Courts, Carlisle. 3023GLOUCESTERSHIRE EDUCATION  
COMMITTEE.

## CHELTENHAM SCHOOL OF ART AND CRAFTS.

Principal: R. Stanley G. Dent, R.E.

A.R.C.A., A.R.W.A.

Required to begin duties, if possible, in September—Full-time STUDIO INSTRUCTOR IN ARCHITECTURE. Candidates should be Associates of the R.I.B.A. The school is an R.I.B.A. "Listed School." Salary—Basic Scale B, £450 by £25 to £725 with graduate and training qualifications. Professional experience, National Service, and previous teaching allowed for in fixing initial salary. Application forms and further particulars from the Principal, and returnable within 14 days of this advertisement. 3025

## QUANTITY SURVEYORS

## IMPERIAL WAR GRAVES COMMISSION.

Applications are invited from suitably qualified candidates for posts of Assistant to Quantity Surveyor in the Commission's London Office and in their French District. Salary scale £675 by £25 to £825 per annum. Candidates should be A.R.I.C.S. (Quantities) or, in the case of those whose early experience has been with a builder or contractor (in addition to any whole-time study in a recognised school), have passed a written examination in Quantity Surveying. All candidates should have professional experience on structures of important architectural value. For the post in France, a good knowledge of the French language is desirable. In France, there is, in addition to salary, a temporary variable allowance at present £320 per annum for a married man and £180 per annum for a single man.

Applications to be addressed to Appointments Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks, within 14 days of the appearance of this notice. 3012

BOROUGH OF DAGENHAM.  
ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant. Salary, Grade A.P.T. VI, £645 to £710 per annum plus a London Weighting (£30 p.a. at age 26 and over). Applicants must be Registered Architects and hold A.R.I.B.A. or similar qualification. Forms of application, together with further details of the post, are obtainable from the Borough Engineer and Surveyor, Closing date, 25th July, 1951. Canvassing disqualifies. Housing accommodation will be made available.

KEITH LAUDER,

Town Clerk.  
Civic Centre, Dagenham. 3002



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

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

**ONE SECTIONAL ARCHITECT. A.P.T.** Division, Grade IX. Salary: £790-£910 per annum.

Associates R.I.B.A. must have had thorough training in architectural design and construction of Modern school buildings, and other works carried out by County Authorities, and must be capable of taking full charge of one Drawing Office comprising at least 10 assistants.

**ONE SENIOR ASSISTANT ARCHITECT. A.P.T.** Division, Grade VII. Salary: £685-£760 per annum.

Preference will be given to Associates of R.I.B.A. Applicants must have had a thorough training in architectural design and construction of Modern school buildings, and other works carried out by County Authorities.

**TWO SENIOR ASSISTANT ARCHITECTS. A.P.T.** Division, Grade VI. Salary: £645-£710 per annum.

Preference will be given to Associates of R.I.B.A. Applicants must have had a thorough training in architectural design and some experience in the construction of Modern school buildings, and other works carried out by County Authorities.

**ONE ASSISTANT ARCHITECT. A.P.T.** Division, Grade IV. Salary: £530-£575 per annum.

Preferably Members of R.I.B.A. Must have had good experience in architectural design and in the preparation of working drawings and details.

**ONE ASSISTANT QUANTITY SURVEYOR. A.P.T.** Division, Grade V. Salary: £570-£620 per annum.

Candidates should be Members of the Royal Institution of Chartered Surveyors (Quantities Section), and must show evidence of special ability and experience as a "taker-off" for all types of building works undertaken by a County Authority. In addition, he should be familiar with, and will be required to undertake "working-up" in all stages, specification writing, measurement of work on site, final accounts, and the preparation of cost statistics.

**ONE SPECIFICATION WRITER. A.P.T.** Division, Grade V. Salary: £570-£620 per annum.

Applicants must have had architectural and Quantity Surveying experience, and possess a thorough knowledge of current Building Practice and Materials.

They must be fully capable of preparing detailed Specifications for Building and Painting works of all descriptions in connection with County Council properties, and be able to prepare enquiries and deal with Provisional Sum Items in connection with new building projects. The successful applicant will also be required to assist generally in the Quantity Surveyor's Department.

**ONE LANDS AND BUILDINGS SURVEYOR. A.P.T.** Division, Grade V. Salary: £570-£620 per annum.

Preference will be given to Members of the Royal Institution of Chartered Surveyors, Sub-Division III (Building).

Applicants must be fully capable of producing accurate surveys of building sites, and sites in respect of water and sewage schemes; preparation of survey plans, site lay-outs and reports and estimating cost of site works; measuring up and surveying existing buildings and preparation of reports.

The appointments are subject to (a) the National Conditions of Service for Local Government Administrative, etc., Officers, (b) the Local Government Superannuation Act, 1937, (c) the passing of a medical examination, and (d) one calendar month's written notice on either side to expire at the end of a calendar month.

Applications, giving age, qualifications and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to the undersigned, by not later than the 25th day of July, 1951.

**W. E. BUFTON.**

*Clerk of the County Council.*

County Offices, Ruthin.  
16th June, 1951. 2960

**HIS MAJESTY'S COLONIAL SERVICE—**  
**TRINIDAD.**

Vacancies exist for an **ASSISTANT ARCHITECT**, **ASSISTANT QUANTITY SURVEYOR** and **QUANTITY SURVEYOR** in the Public Works and Hydraulics Department, Trinidad, at salaries of £1,000 by £50 to £1,100, £850, and £1,100 respectively. Appointment will be on agreement for three years. Free passages to and from the Colony will be granted to each officer, his wife, and up to three children. House allowance up to a maximum of \$20 per month for a single officer and \$50 per month for a married officer is payable. \$48 are equivalent to one pound.

Candidates for the first post should be A.R.I.B.A. with three years' experience in a responsible position; for the second, should preferably be members of a recognised professional body with a minimum of two years' experience in a responsible position; and for the third post preferably A.R.I.C.S. with seven years' experience. They should write to the Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1. for further particulars and a form of application, giving brief details of age, qualifications and experience, and quoting reference Nos. 2730/46 (Assistant Architect), 27076/62 (Assistant Quantity Surveyor), or 27076/63 (Quantity Surveyor). 2995

**DUNDEE COLLEGE OF ART SCHOOL OF ARCHITECTURE.**—The Governors of the Dundee Institute of Art and Technology invite applications for the position of **SENIOR LECTURER AND STUDIO INSTRUCTOR.**

Applicants should be members of the R.I.B.A. and should preferably be holders of a degree or diploma of a recognised School of Architecture.

Salary scales—Men, £700 by £25 to £800; women, £560 by £20 to £640, with placing according to qualifications and experience. These scales are at present under revision and the person appointed will benefit by any increase which may be decided upon.

Applications should be lodged as soon as possible and should be on the prescribed form which, with full particulars, may be obtained from J. Cameron Freer, Clerk and Treasurer, Bell Street, Dundee, 28th June, 1951. 3013

**THE IMPERIAL WAR GRAVES COMMISSION** invite applications from suitably qualified candidates for two posts of **SENIOR SUPERINTENDENT OF WORKS** in their India, Pakistan, and South East Asia District. Initial postings would be to Kohima in Assam and to Rangoon in Burma. All candidates should be under 50 years of age, have had experience in carrying out constructional work abroad and have some knowledge of the country concerned. Membership of the Royal Institution of Civil Engineers or Royal Institution of British Architects or Royal Institution of Chartered Surveyors and Military Works Service experience would be advantages. Single men or married men prepared to leave their families in this country only will be considered. Candidates must be prepared to live on sites. Salary scale £675 by £25 to £825 per annum plus foreign service allowance, at present at the rate of £105 per annum for single men or £305 per annum for a married man unaccompanied by his wife, in India, and £585 per annum for a single man or £785 per annum for a married man accompanied by his wife, in Burma, plus free accommodation in each case. Initial contract three years.

Applications should reach the Appointments Office, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks., within two weeks of the appearance of this notice. 3004

**MIDDLESEX COUNTY COUNCIL COUNTY PLANNING DEPARTMENT.**

**TWO CHIEF PLANNING ASSISTANTS (A.P.T. VII. £715 rising to £790 p.a.)** Car allowance normally granted. Members or Associate Members of Town Planning Institutes, preferably with complementary qualifications, with good experience and proved ability. Established, pensionable, subject to medical examination and prescribed conditions. Written applications stating age, experience, qualifications, etc., with copies of three recent testimonials, to the undersigned by 26th July (quoting J.573 A.J.). Canvassing disqualifies.

**C. W. RADCLIFFE.**

*Clerk of the County Council.*  
Guildhall, Westminster, S.W.1. 2996

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

**CITY ARCHITECT'S DEPARTMENT.** Applications are invited from suitably qualified persons for the following appointments to the permanent staff:

(a) **ASSISTANT QUANTITY SURVEYORS—**Salary A.P.T. Grade III, £500-£545.

(b) **ARCHITECTURAL ASSISTANT—Salary** A.P.T. Grade III, £500-£545.

Applications, stating date of birth, particulars of training and experience, etc., with copies of two recent testimonials, should be received by J. R. Piggott, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, not later than Saturday, 21st July, 1951.

**HARRY TAYLOR.**

*Town Clerk.*

**COUNTY BOROUGH OF BARNSELY.**

**BOROUGH ENGINEER AND SURVEYOR AND PLANNING OFFICER'S DEPARTMENT.**

**APPOINTMENT OF GENERAL PLANNING ASSISTANT.**

Applications are invited for the permanent appointment of General Planning Assistant at a salary in accordance with A.P.T. Grade II (£470 by £10 to £515 per annum).

Applicants should have passed or should be studying for the Intermediate Examination of the Town Planning Institute or its equivalent, and preference will be given to candidates who have had previous experience in a Planning Office, and who have been engaged in the preparation of Development Plans.

The appointment is subject to the National Scheme of Conditions of Service and to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

The appointment will also be subject to one month's notice on either side.

Applications, stating age, present and previous appointments, experience, and qualifications, accompanied by copies of two recent testimonials, should be addressed to the Borough Engineer and Surveyor and Planning Officer, Town Hall, Barnsley, to reach him not later than Monday, 23rd July, 1951.

Canvassing will disqualify.

**A. E. GILFILLAN.**

*Town Clerk.*

Town Hall, Barnsley.  
July, 1951. 2994

**PENGE URBAN DISTRICT COUNCIL.**  
**ENGINEER AND SURVEYOR'S DEPARTMENT.**

**SENIOR TECHNICAL ASSISTANT.**

Applications are invited for the appointment of a Senior Technical Assistant at a salary in accordance with A.P.T. Grades III and IV (£500-£575) plus appropriate London "Weighting," the commencing salary to be fixed at a point commensurate with experience, and on which the applicants may offer their own observations.

Experience in housing works, including maintenance and preparation of surveys and estimates in connection therewith is essential.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Joint Council conditions of service, and will be terminable by one month's notice on either side. Applicants must possess the intermediate examination of one or other of the recognised professional institutions, and if not in possession of the final qualifying examination should be preparing for same.

Applications endorsed "Senior Technical Assistant," containing fullest particulars, together with the names of two referees, must be delivered to the undersigned not later than Tuesday, 24th July, 1951.

**BERNARD FIELDING.**

*Clerk of the Council.*  
Town Hall, Anerley Road, S.E.20. 3036

**UXBRIDGE URBAN DISTRICT COUNCIL.**

**ENGINEER AND SURVEYOR'S DEPARTMENT.**

**ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant on Grades IV and V of the A.P.T. Division of the National Scales (£530 to £620 per annum plus London Weighting, at present £30 for age 26 and over).

Applicants should have had a good architectural training and preference will be given to candidates with experience of Local Authority Housing Schemes and holding a recognised professional qualification. The appointment will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination. Applications, stating age, marital state, present and previous appointments, qualifications, and giving details of experience, together with the names and addresses of three persons to whom reference may be made should be forwarded to Harold E. G. Stripp, Esq., A.M.I.C.E., F.R.I.C.S., Engineer, Surveyor and architect, 263, High Street, Uxbridge, not later than Tuesday, 24th July, 1951. Candidates are required to disclose in writing whether, to their knowledge, they are related to any member or senior officer of the Council.

**JOHN POOLE.**

*Clerk of the Council.*  
Council Offices, 255, High Street, Uxbridge, Middlesex. 3035

**PARKS DEPARTMENT.**

Applications invited from **LANDSCAPE ARCHITECTS** in private practice for inclusion on a panel to act in a professional capacity on the preparation of schemes and the laying out and construction of parks and open spaces and other groundwork. Apply Chief Officer of the Parks Department, Old County Hall, Spring Gardens, S.W.1. not later than August 10, 1951, giving brief particulars of qualifications and experience in this work. (880.) 3040

**EAST ELLOE RURAL DISTRICT COUNCIL.**

**APPOINTMENT OF QUANTITY SURVEYOR.**

Applications are invited for the above appointment in the Architect's Department at a salary in accordance with Grade A.P.T. V (commencing at £570 per annum and rising to £620 per annum).

Applicants must be thoroughly experienced in the preparation of Bills of Quantities, measurement, interim and final accounts.

The Council will be prepared to offer assistance in the provision of housing accommodation if required and the appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of medical examination, and will be terminable by a month's notice on either side.

Applications, stating age, qualifications and previous experience, together with copies of two recent testimonials, should reach the undersigned, endorsed "Quantity Surveyor," not later than Saturday, the 28th July, 1951.

**J. C. PYWELL.**

*Clerk to the Council.*  
Mattimcre House, Holbeach, Spalding, Lincs. 3039

**WELSH REGIONAL HOSPITAL BOARD.**

Applications are invited for the following post in the Architect's Department.

**ASSISTANT QUANTITY SURVEYOR, A.P.T. IV—Salary £480-£525.**

Candidates should hold the Intermediate Certificate of the Royal Institution of Chartered Surveyors and should have had experience in the preparation of Bills of Quantities, detailed estimates of cost and the settling of final accounts. The appointment is superannuable, and is terminable by one month's notice on either side.

Applications, stating present appointment, age, qualifications and experience, with the names of two referees, should be addressed to the Secretary of the Board, Temple of Peace and Health, Cathays Park, Cardiff, to reach him not later than 10th August, 1951. 3037



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

Applications are invited for positions of ARCHITECT, Grade III (£550-£700) and TECHNICAL ASSISTANT (up to £580) for architectural work in new housing, schools and other public buildings. The positions are superannuable, and the above rates are subject to an addition of 10 per cent. on the first £600 and 7½ per cent. on any remainders. Application forms from the Architect, The County Hall, S.E.1, enclosing stamped addressed foolscap envelope and quoting AR/EK/A. Canvassing disqualifies. (514) 3914

**COUNTY BOROUGH OF WOLVERHAMPTON.  
ASSISTANT ARCHITECT, GRADE VII**

**A.P.T. DIVISION**

Applications are invited for the appointment of an Assistant Architect, salary A.P.T. Division Grade VII, £685 to £760 per annum on the Architectural Staff of the Borough Engineer's Department.

Candidates should be members of the Royal Institute of British Architects and have had a wide experience in architectural design and construction.

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

The conditions of service will be those of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

Applications, stating age, qualifications, present position, and full details of experience, together with copies of three recent testimonials, should be delivered to the Borough Engineer, Town Hall, Wolverhampton, not later than Wednesday, 25th July, 1951, in an envelope endorsed "Assistant Architect."

**J. BROCK ALLON,**

Town Clerk, Town Hall, Wolverhampton. 3033

**NORTHERN IRELAND HOUSING TRUST.**  
Applications are invited for the following posts:—

- (a) ASSISTANT ARCHITECT—Salary scale £550 by £25 to £650.
- (b) ASSISTANT QUANTITY SURVEYOR—Salary scale £725 by £25 to £800.

Candidates must be corporate members of the R.I.B.A. or Associates of the R.I.C.S. respectively, and, in addition, should have experience of housing projects.

The point of entry on the scales above will be determined by qualifications and experience.

The persons appointed will be required to participate in a contributory Superannuation Scheme which allows for reciprocal transfer of benefits in Local Government Superannuation Schemes in suitable cases.

Preference will be given to ex-Service candidates.

Assistance in obtaining housing accommodation may be given to successful candidates.

Forms of application, which should be returned not later than 14th August, 1951, may be obtained from The General Manager, Northern Ireland Housing Trust, 12, Hope Street, Belfast. 3024

**LOCAL APPOINTMENTS COMMISSION,  
DUBLIN.**

**POSITION VACANT: QUANTITY SURVEYOR,  
GRADE II, DUBLIN CORPORATION.**

Application forms and particulars from the Secretary, 45, Upper O'Connell Street, Dublin. Salary: £550-£750, plus temporary bonus of 20 per cent. and entry above the minimum if experience or qualifications so warrant.

Latest time for receiving completed application forms: 5 p.m. on 7th August, 1951. 3003

**WARWICKSHIRE COUNTY COUNCIL.**

**ARCHITECT'S DEPARTMENT.**

Applications are invited for the undermentioned appointments on the established staff.

ASSISTANT ARCHITECTS:—A.P.T. VI (£645-£710); A.P.T. V (£570-£620); A.P.T. III (£500-£545); A.P.T. II (£470-£515).

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.

Application forms can be obtained from C. H. Elkins, F.R.I.B.A., A.R.I.C.S., County Architect, Shire Hall, Warwick.

**L. EDGAR STEPHENS,**

Clerk of the Council. Shire Hall, Warwick. 3005

**OTLEY URBAN DISTRICT COUNCIL.  
HOUSING DEPARTMENT—ARCHITECTURAL ASSISTANT.**

Applications are invited for this post existing for the duration of the housing programme, Salary—Grade IV. Housing accommodation available, if necessary.

Applications stating age, etc., qualifications and experience, and the names of two referees, to be sent so as to reach the undersigned not later than the 28th July, 1951.

**J. B. HARWOOD,**

Clerk of the Council. Council Offices, North Parade, Otley, Yorks. 6th July, 1951. 3038

**Tenders for Contracts**

6 lines or under, 12s. 6d.; each additional line, 2s.

**BOROUGH OF BEXLEY.  
TENDERS FOR THE ERECTION OF  
DWELLINGS.**

Tenders are invited for the erection of 143 traditional dwellings at Hurst Place Estate, subdivided into two groups as follows:—

**Group A—**

- Twelve pairs of Type N.F. Houses.
- Three pairs of Type W.F. Houses.
- Six pairs of Type W.F./B. Houses.
- Two blocks of six Type T.B. Terrace Houses.
- Three single Type A.P.1 Bungalows.
- One pair of Type A.P.2 Bungalows.

**Group B—**

- Fifteen pairs of Type N.F. Houses.
- Six pairs of Type W.F. Houses.
- Four pairs of Type W.F./B. Houses.
- One block of six Type T.B./S. Terrace Houses.
- Four single Type A.P.1 Bungalows.
- Two pairs of Type A.P.2 Bungalows.
- One block of three Type A.P.3 Bungalows.
- Two blocks of Type A.P.4 Bungalows.
- Three detached Type W.F./B. Houses.
- Two pairs of Type W.F./B. Houses.
- One pair of Type W.F. Houses.

All these dwellings are on adjoining sites, and tenders may be submitted for one or both Groups. The Council reserve the right to divide the work as they may desire.

Bills of Quantities, Specification and Form of Tender may be obtained from the Borough Engineer and Surveyor, West Lodge, Broadway, Bexleyheath, Kent, on payment of a deposit of £5 5s. (by crossed cheque payable to "Bexley Corporation"), which will be refunded on receipt of a bona fide tender not subsequently withdrawn. Drawings and the general Conditions of Contract (R.I.B.A. Form) may be inspected at the office of the Borough Engineer and Surveyor.

Tenders on the form provided must be delivered to the Town Clerk, Council Offices, Bexleyheath, in the special envelope provided and without any name or other distinguishing mark not later than Friday the 10th August, 1951.

The Council do not bind themselves to accept the lowest or any tender.

**W. WOODWARD,**

Town Clerk. 3026

# LONDON NIGHT AND DAY

a guide to where the other books don't take you

**illustrated by OSBERT LANCASTER**

**edited by SAM LAMBERT**

*The whole of the contents of the special*

*issue of The Architects' Journal for*

*May 3, 1951 is now published in*

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Its presentation is, we think, original too in that it takes the reader round the 24 hours of the clock giving suggestions, where to go, what to do, for each hour of the day and night. And throughout its pages Osbert Lancaster supports our stream of good advice with drawings that eloquently evoke London's under-the-surface look.

Size: 5½" x 8½", bound in stiff card. 100 pages with over 40 drawings and a cover by Osbert Lancaster. Price 3s. 6d. net.

**THE ARCHITECTURAL PRESS · 9 Queen Anne's Gate · London · S.W.1**

## Architectural Appointments Vacant

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

**BIRMINGHAM**—Architects require keen ASSISTANT; qualified or approaching R.I.B.A. Final; commercial and industrial work. Watson, Johnson & Stokes, Victoria Square. 2465

**ARCHITECTURAL ASSISTANT** required. Varied practice. Salary £390 to £442, according to experience. Welch & Lander, F.F.R.I.B.A., 38, Gloucester Place, W.1. Welbeck 6551. 2900

**EAST** Midland Firm of Private Architects require additional Qualified and Partially Qualified ASSISTANTS. Each Assistant directly responsible to Principal. Bonus and pension schemes in operation. Extremely interesting and varied work. In replying please state age, married or single, experience, and approximate salary required. Box 2944.

**ARCHITECTURAL ASSISTANT**, Intermediate or higher standard, required for industrial projects. R.I.B.A. scale of salaries. Application invited to Box 2916.

**ARCHITECTURAL ASSISTANT** required, of Intermediate R.I.B.A. standard or over, and with some previous experience in an architect's office. Salary according to ability. Write, stating age and experience, to Staff Officer, Handley Page, Ltd., Cricklewood, London, N.W.2. 2957

**ASSISTANT** of inter-standard required. Office experience and good draughtsman essential. Apply in writing, stating experience, age and salary required to R. Jelinek-Karl, 22, Chancery Lane, W.C.2. 2993

**ONE** Senior and two Junior ASSISTANTS required by well-known London Architects. Permanent position with good prospects offered. Varied work. Write giving full details of experience, salary, etc., to Box 3027.

**ASSISTANT ARCHITECT** required in London office for schools project. High standard of draughtsmanship and sound knowledge of construction essential. Write, stating experience, qualifications, and salary required. Box 3028.

**ARCHITECTURAL ASSISTANT** required for detailing; aged 35 or over. State experience, age, qualifications, and salary required to Box 3029.

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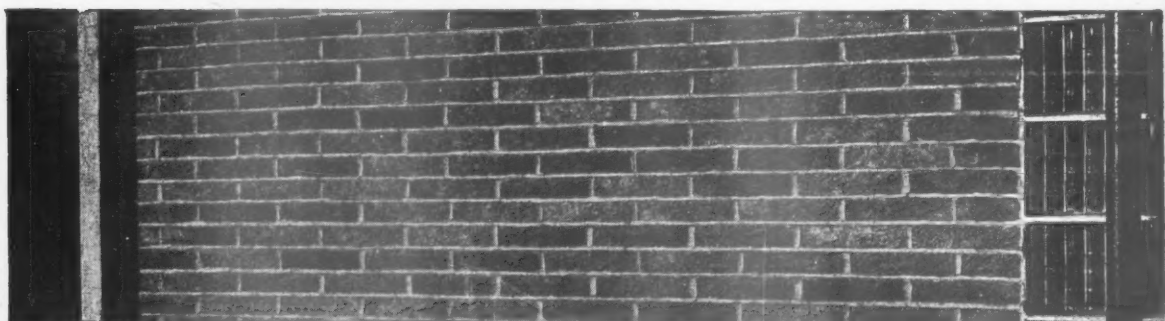
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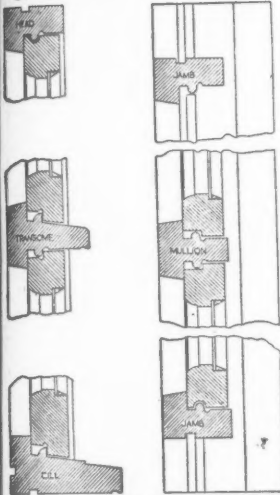
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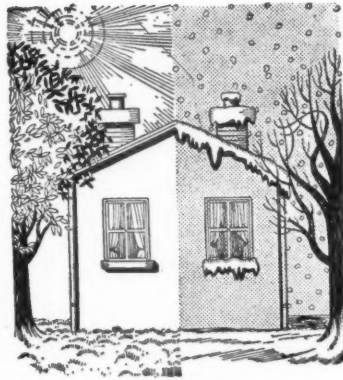
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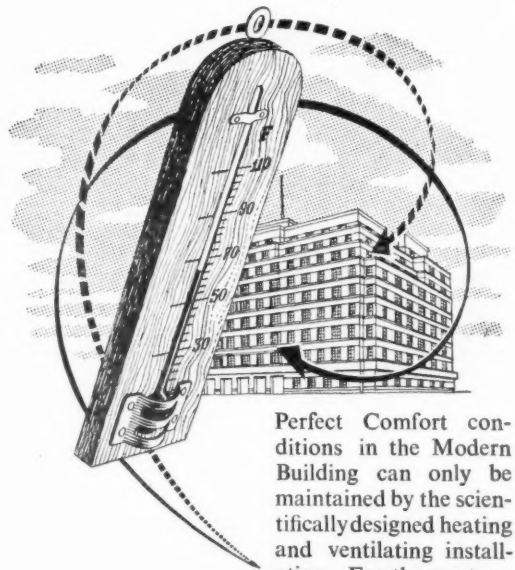
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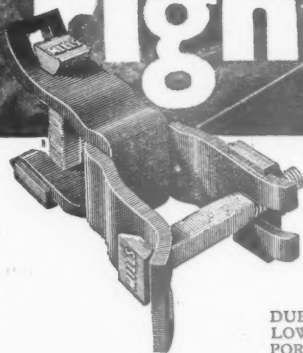
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