

# THE ARCHITECTS' JOURNAL



## standard contents

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

## NEWS and COMMENT

Diary

News

Architects' Commonplace Book

Astragal's Notes and Topics

Letters

Societies and Institutions

## TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

## PHYSICAL PLANNING SUPPLEMENT

## CURRENT BUILDINGS

## HOUSING STATISTICS

Architectural Appointments  
Wanted and Vacant

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Welbeck 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 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. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15.	Ardwick 3480
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Welbeck 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council. 28, Sackville Street, W.1.	Regent 3613
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 25, Victoria Street, S.W.1.	Abbey 5422-3
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGC	British Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A. Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett Herts.	Radlett 5616
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Regent 3074
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 8161
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280	
CUJC	Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1.	Victoria 1534
DIA	Design and Industries Association. 9, Conduit Street, W.1.	Mayfair 5432
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EC	Electricity Commission. Savoy Court, Strand, W.C.2.	Temple Bar 7565
EJMA	English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FB 1951	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.	Temple Bar 1951
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Whitehall 9606
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 3158
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577

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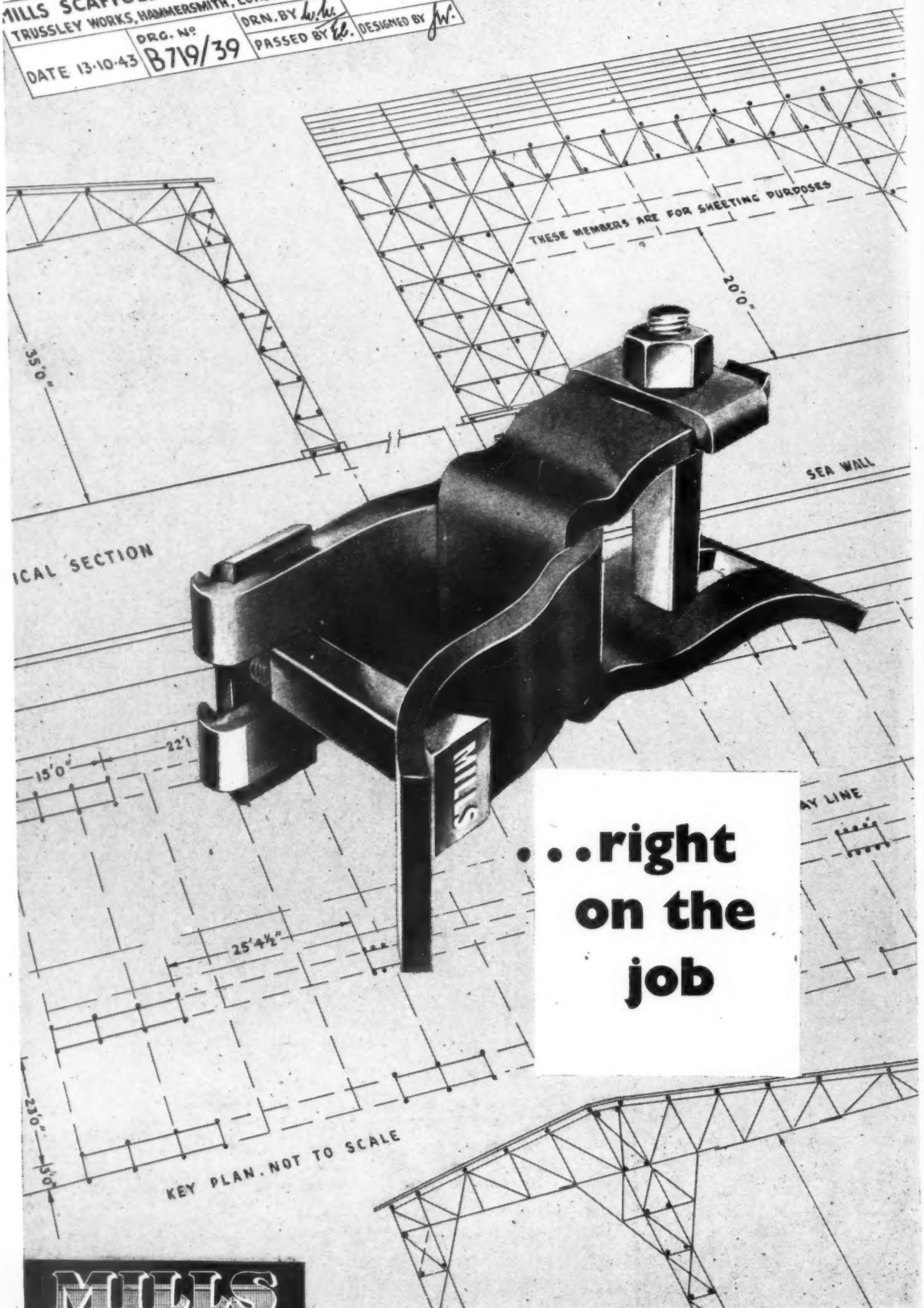
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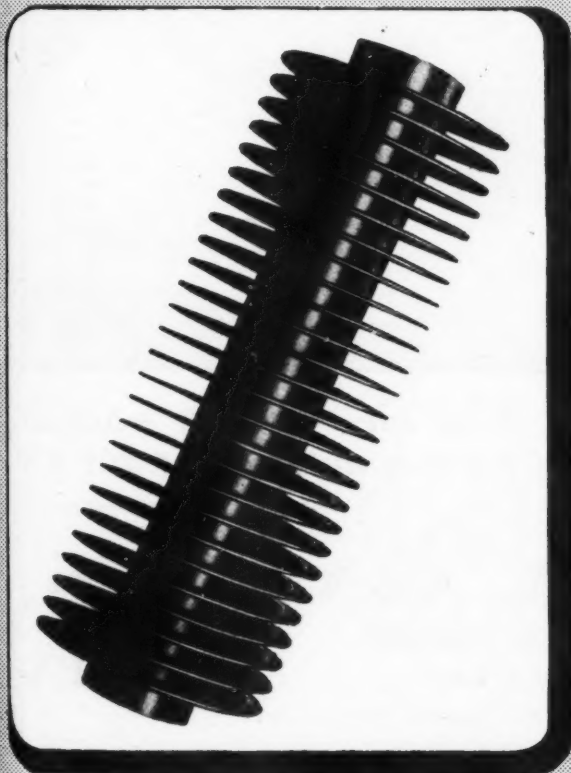
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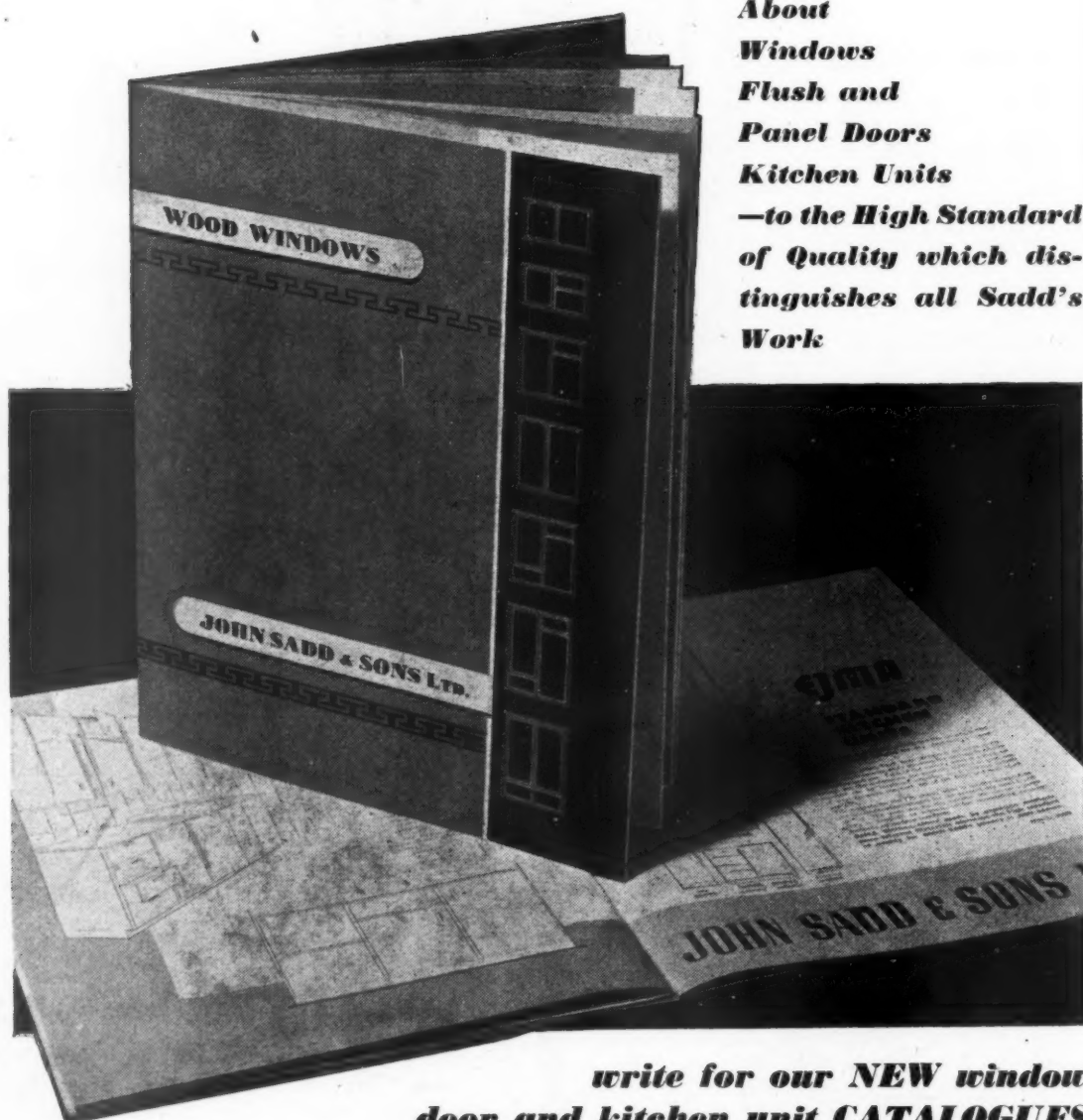
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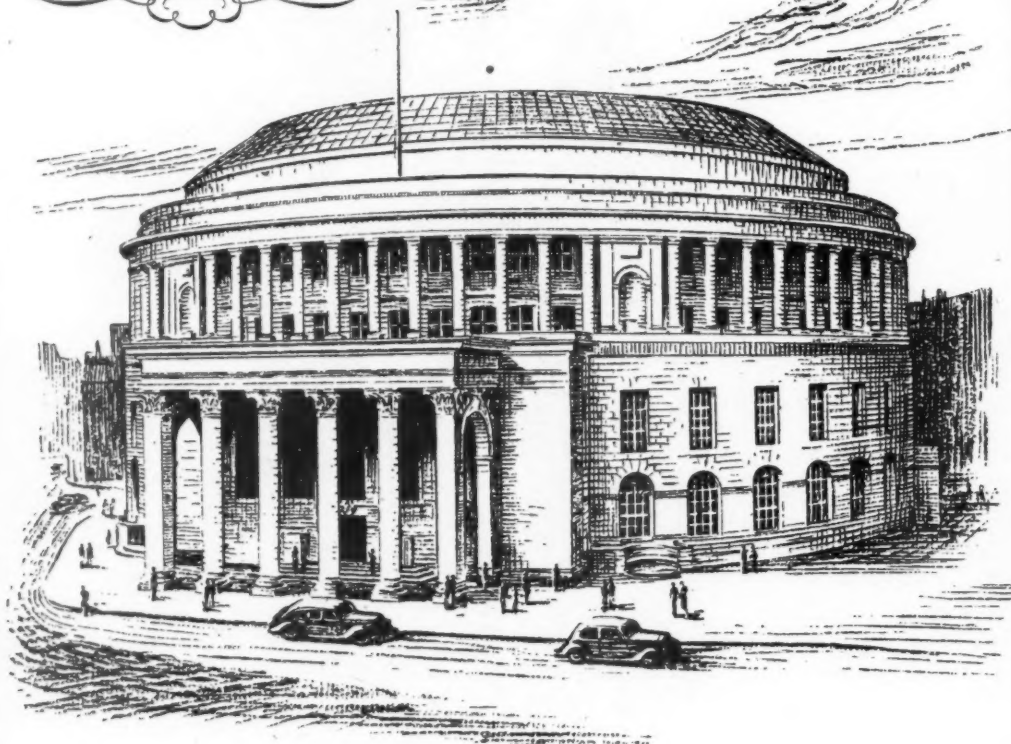
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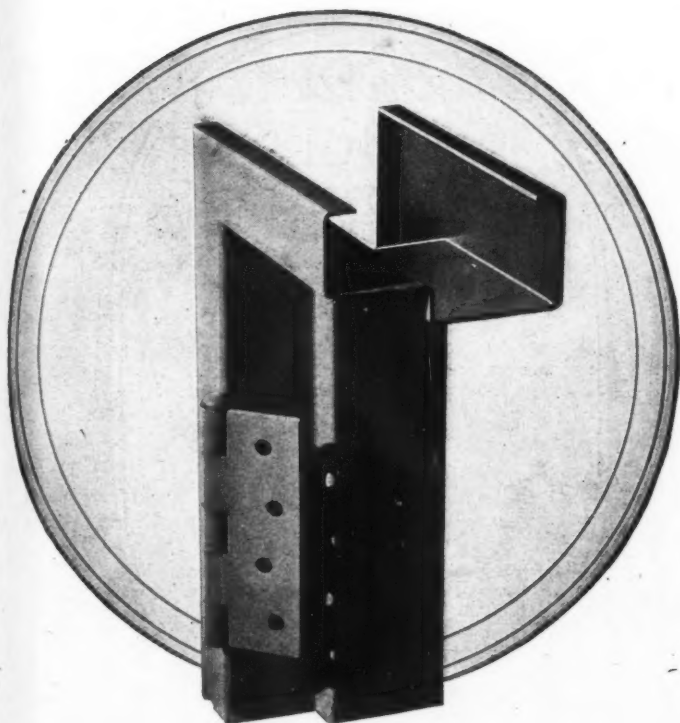
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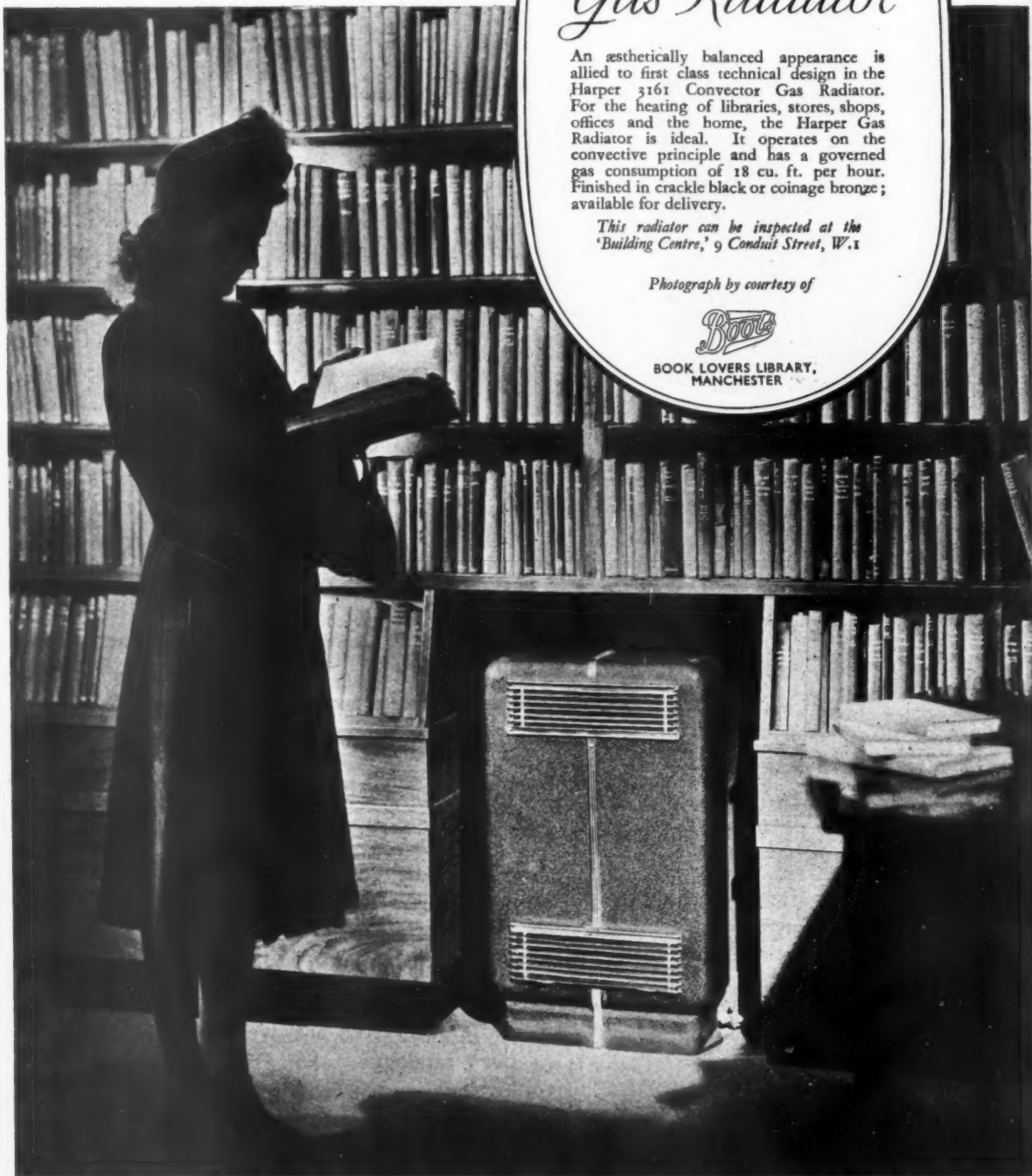
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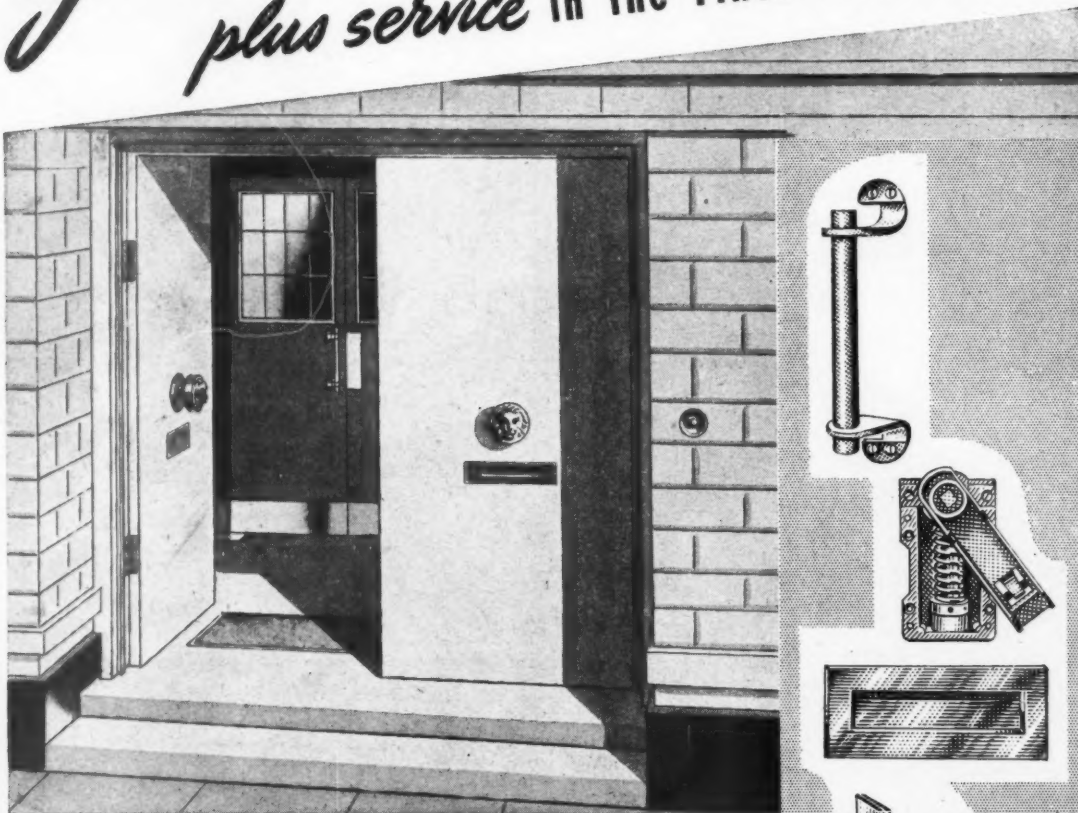
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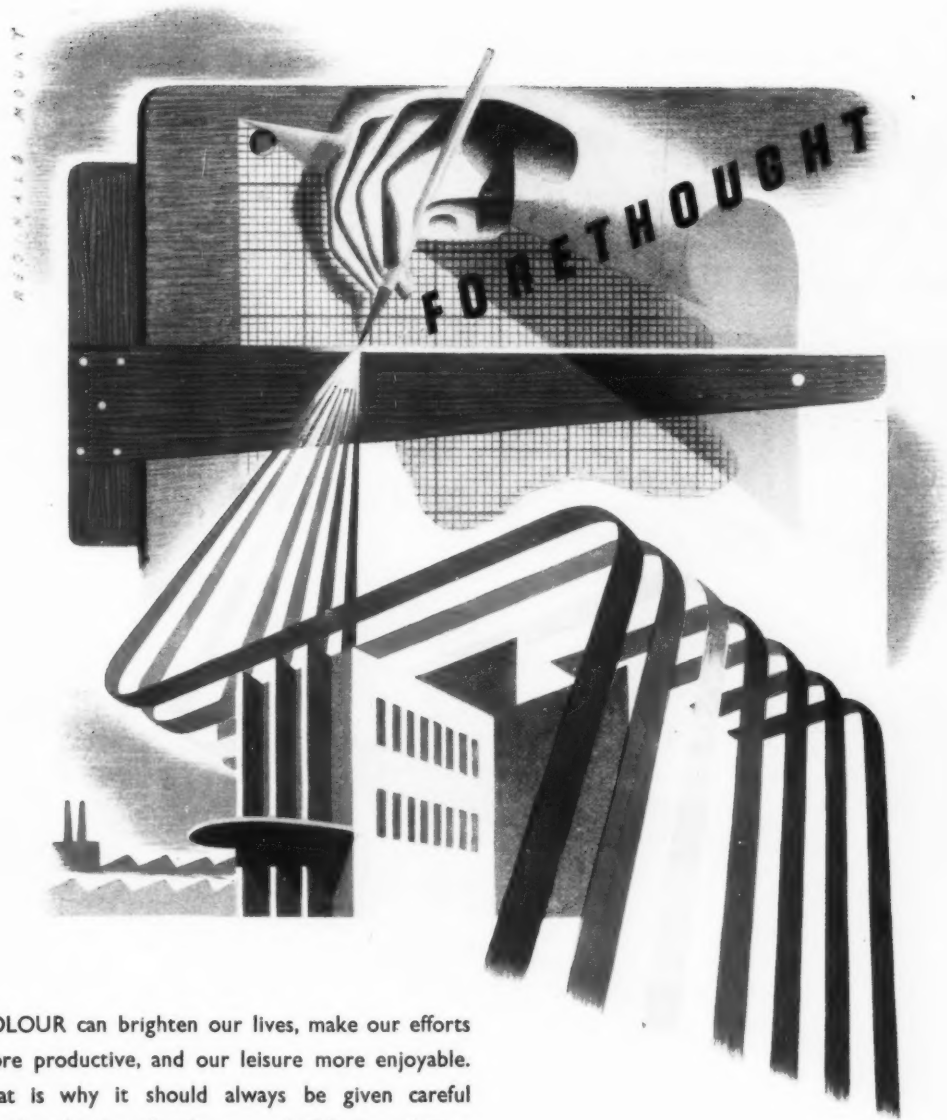
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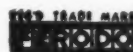


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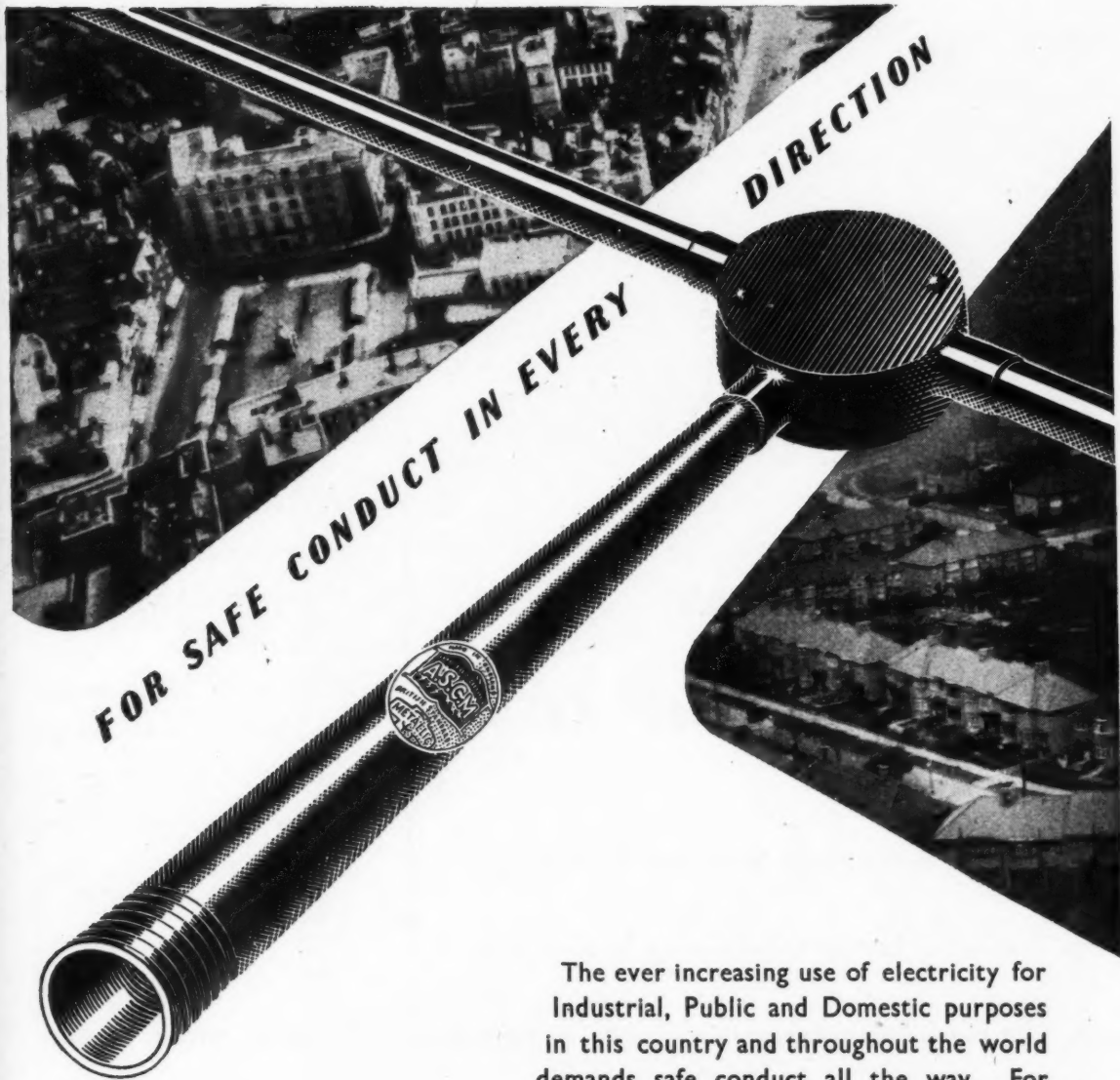
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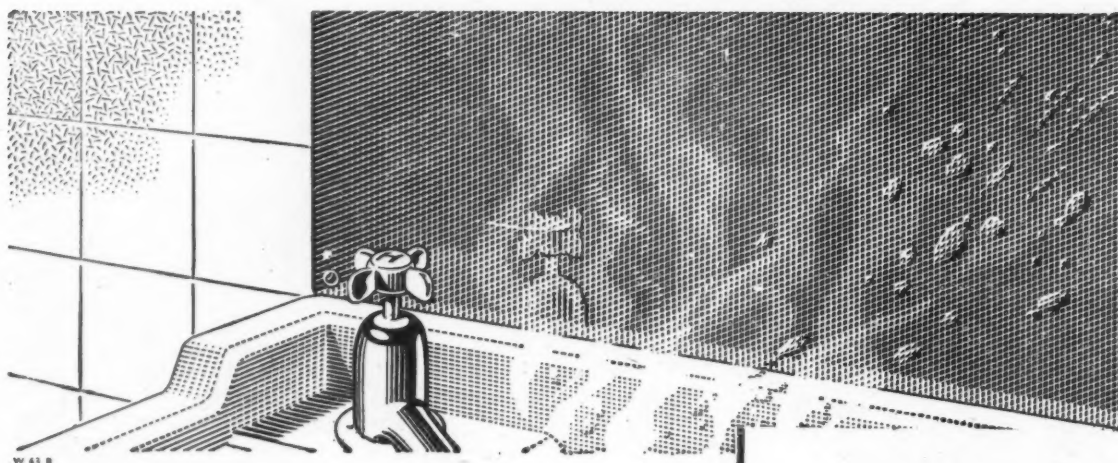
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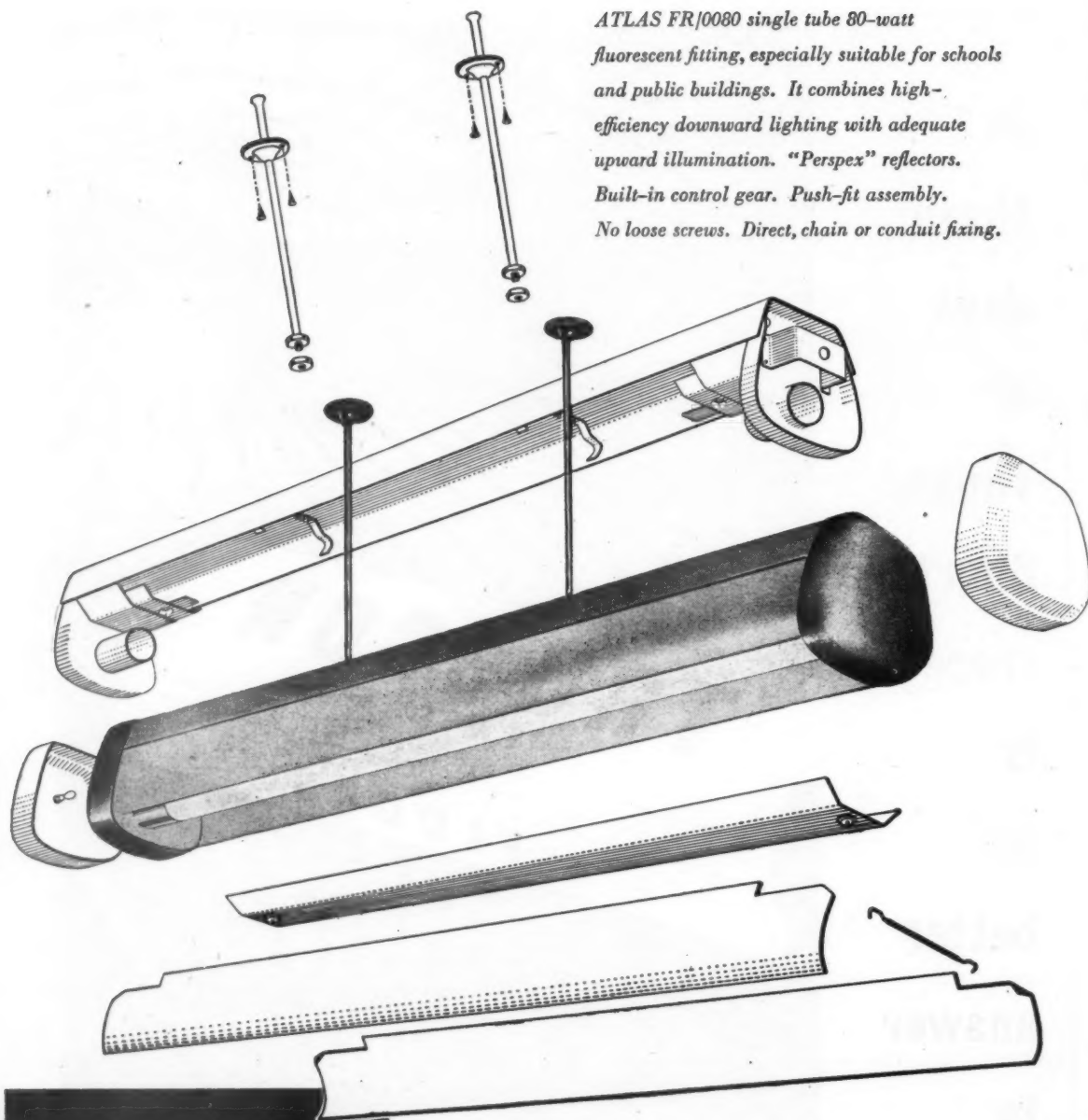
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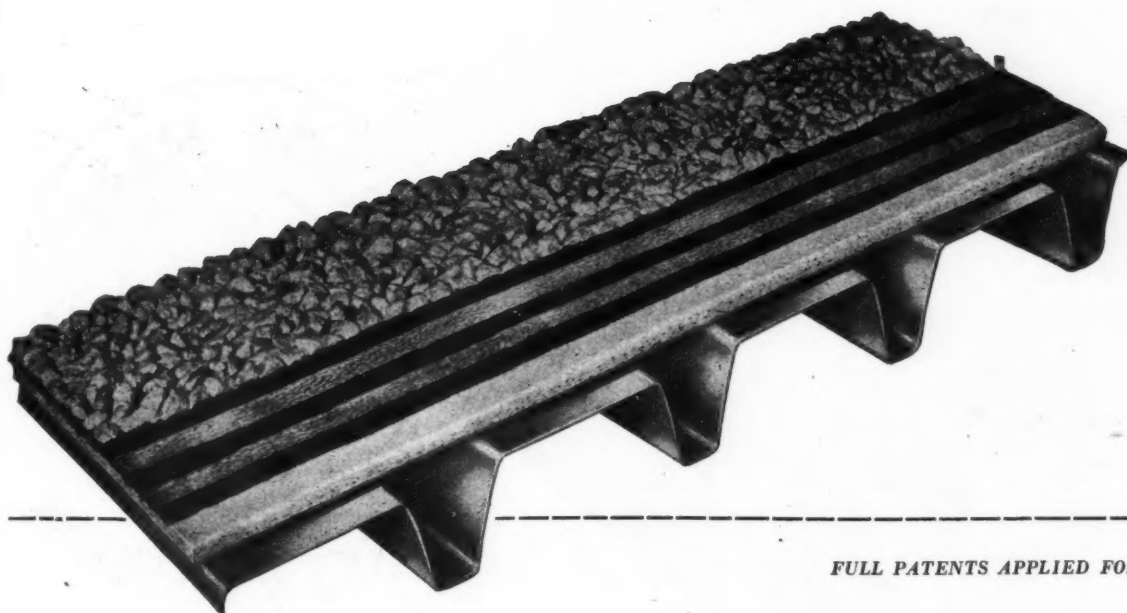


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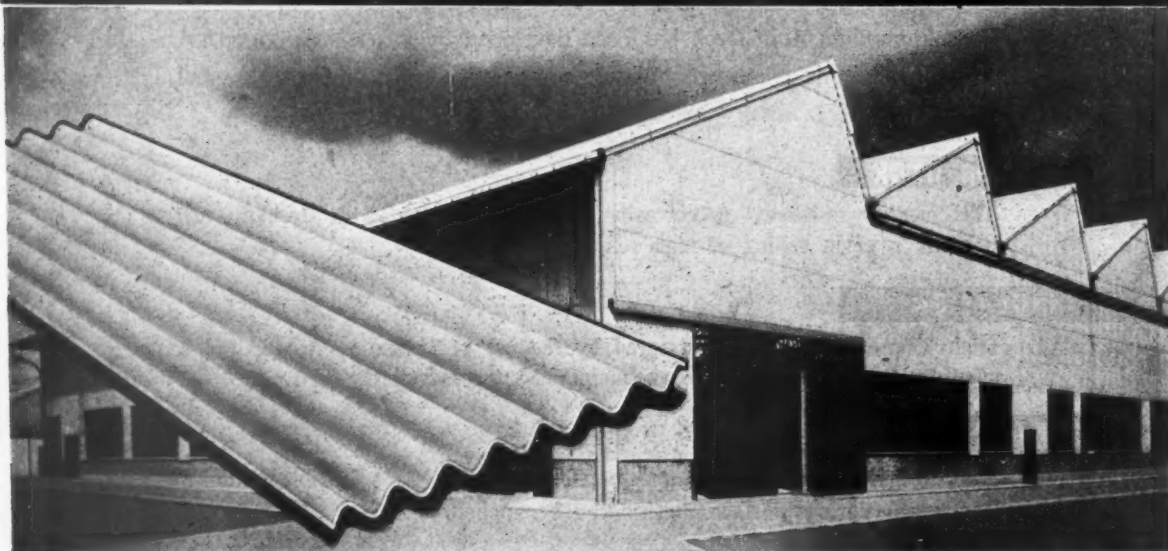




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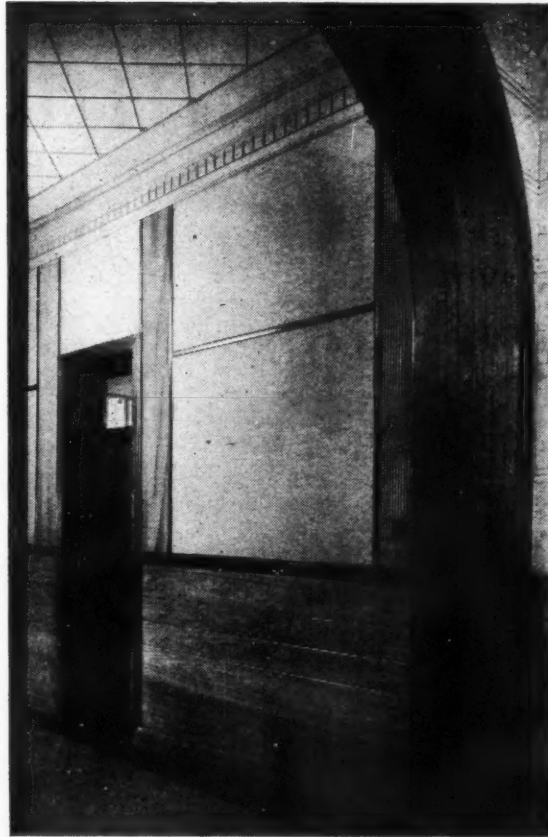
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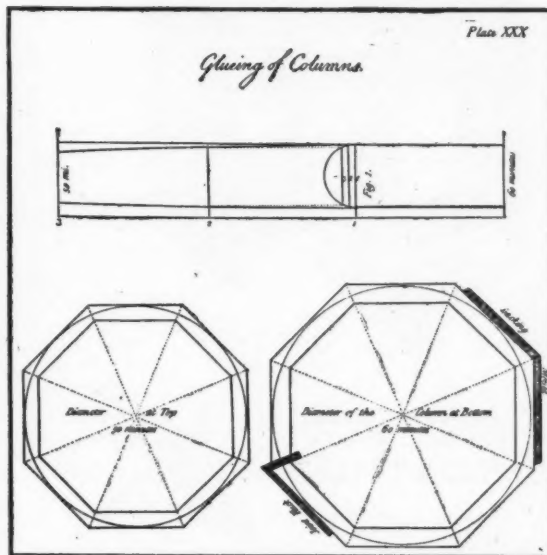
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ABOVE. Georgian doorway in Great Ormond Street, London. The columns are built up on the principle shown in the diagram (right) from "The Practical Builder or Workman's General Assistant" by William Pain, Architect and Joiner, 1799.

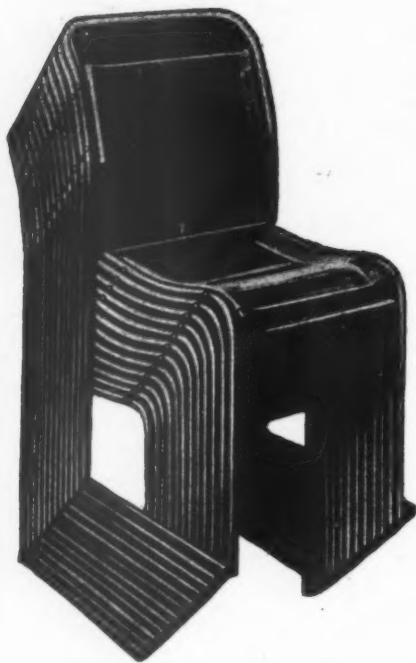


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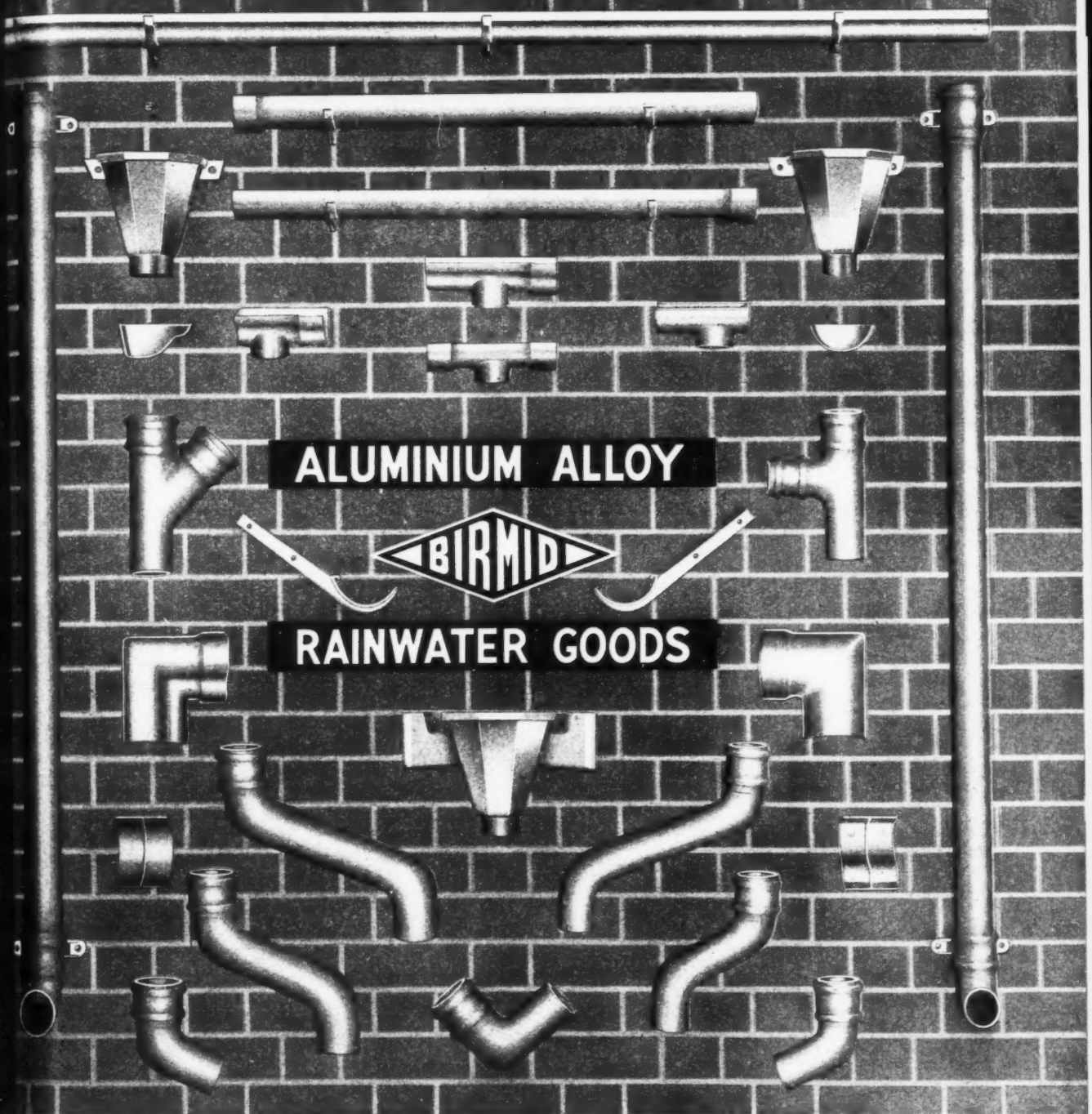
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For over 160 years, Nobles & Hoare's Paints and Varnishes have made a major contribution to the grace and beauty of English Homes, and have been acknowledged by the discriminating to embody a long tradition of quality and excellence.

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at low cost with good appearance

In this light-weight roof, MARLITH SLABS are supported over steel purlins by transverse and longitudinal "tee" pieces of pressed steel, the latter being secured to the purlins by clips. The roof finish consists of a  $\frac{3}{4}$ " cement and sand screed and 2 layers of 1-ply felt. The underside of the Marlith Slabs is finished with "Snowcem".

MARLITH Wood Wool Building Slabs conform to B.S. 1105 and are made in the standard sizes of 6' 0" x 2' 0" x 1", 1 $\frac{1}{2}$ ", 2" and 3". The slabs give an excellent key for plaster or cement rendering. These light weight slabs provide a high degree of thermal and acoustic insulation when used for lining walls or roofs. Slabs of 2" or more thickness can be used as self-supporting non-loadbearing partitions.



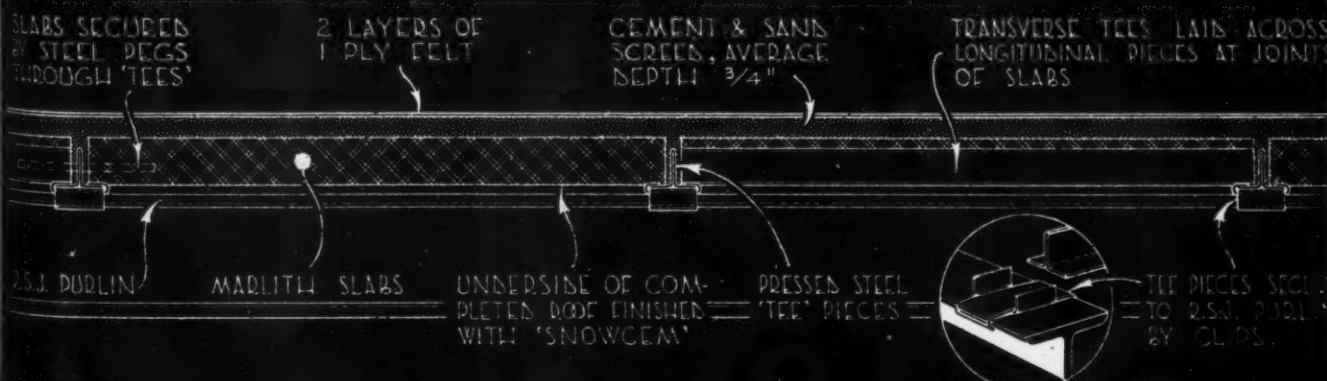
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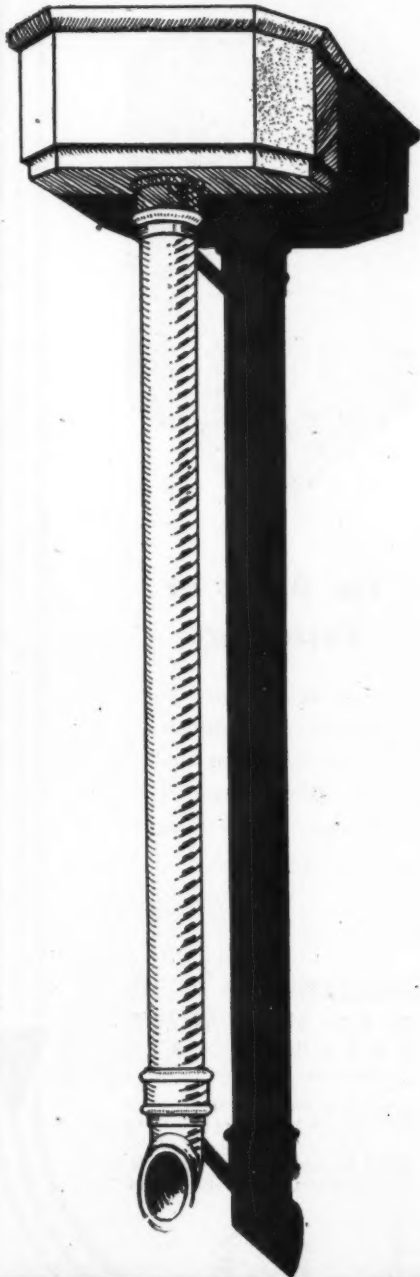
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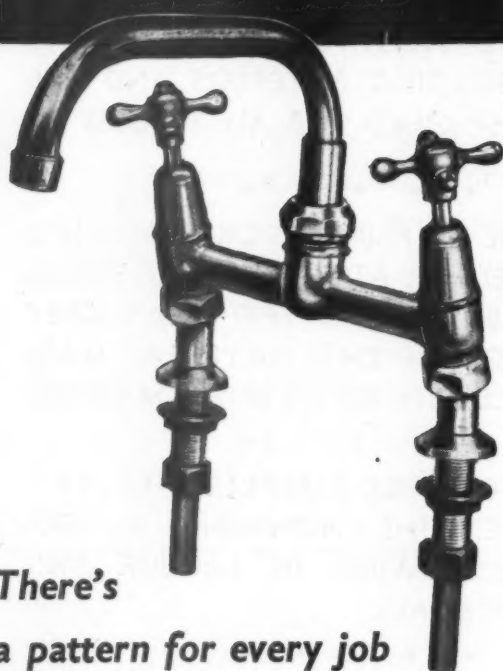
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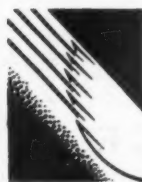
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IS A FOOLISH BIRD  
*...too much for one and  
not enough for two!*

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



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*Advance*  
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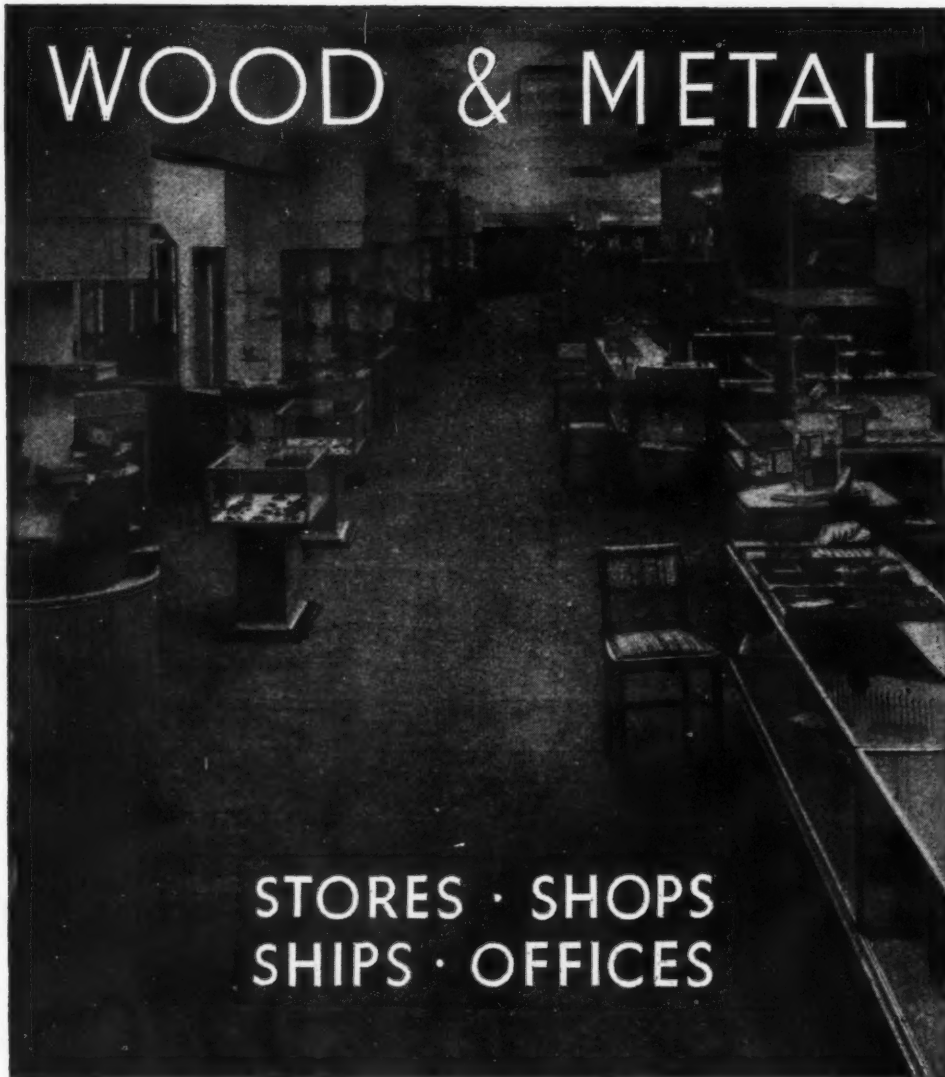
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**NEW WALLS**

*Sprayed*  
**LIMPET ASBESTOS**  
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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.



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**12,000 sacks of coal saved**

**... by insulating ONE factory roof**

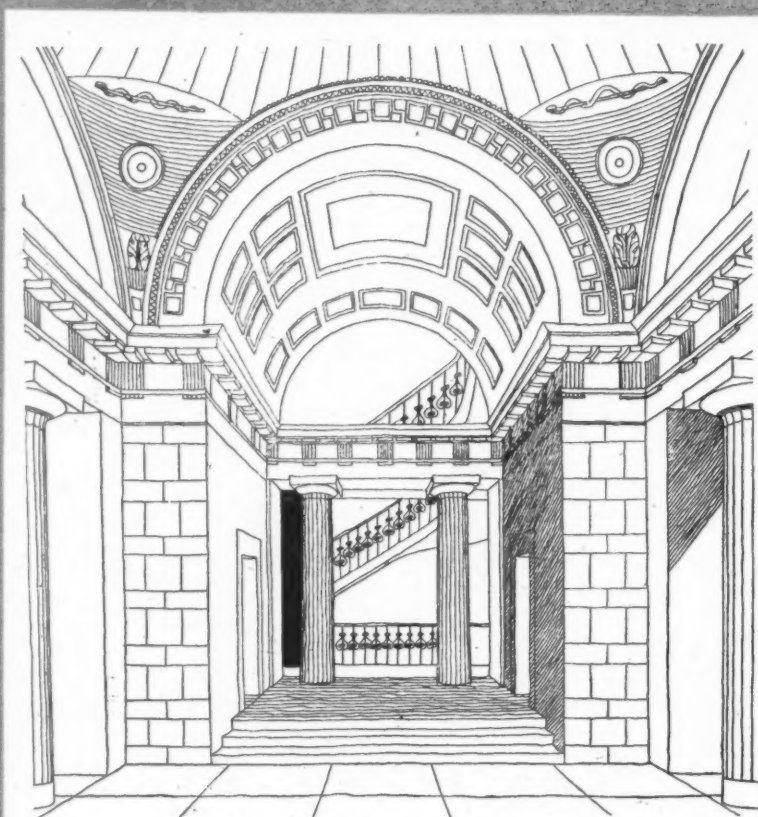
As much as 600 tons of fuel can be saved in a year by insulating with Celotex cane fibre insulation the roof of a steel framed factory (100,000 sq. ft. of corrugated asbestos). The installation of Celotex, simply and easily effected by means of the Celotex Metal Fixing Systems, substantially reduces transmission heat losses in buildings of every description. And because it cuts fuel bills and reduces the capital charge of heating plant, Celotex soon pays for itself. The table below is based on Fuel Efficiency Bulletin No. 12 and gives general information on the fuel savings obtained by insulating steel framed roofs with Celotex.

Our technical department will gladly calculate specific data for your individual needs.

invest in **CELOTEX** insulation

CONSTRUCTION	Uninsulated		Under-Purlin Insulation		Over-Purlin Insulation			
Corrugated Asbestos Cement	1/4"	—	1/4"	—	1/4"	1/4"	—	—
Corrugated Iron	—	220	—	220	—	—	220	220
Celotex Insulating Board	—	—	—	—	1/2"	1"	1/2"	1"
Air Space/Purlins	—	—	4"	4"	—	—	—	—
Celotex Insulating Board	—	—	1/2"	1/2"	—	—	—	—
Thermal Transmittance 'U'	1.40	1.50	0.31	0.32	0.35	0.23	0.36	0.34
Fuel Consumption tons p.a.	7.7	8.3	1.7	1.8	1.9	1.3	2.0	1.3
Cost of Heating Plant, Cost £'s	88	94	19	20	22	14	22.5	16
Saving in Plant and Fuel due to Celotex insulation %			78	79	75	84	78	84

CELOTEX LIMITED, NORTH CIRCULAR ROAD, STONEBRIDGE PARK, LONDON. N.W.10



**THE BANK OF ENGLAND**

THE INTERIOR of the Bank of England has often been decorated with Duresco, as used in so many other famous buildings.

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conditions and climates do not affect its surface, which will neither scale nor flake.

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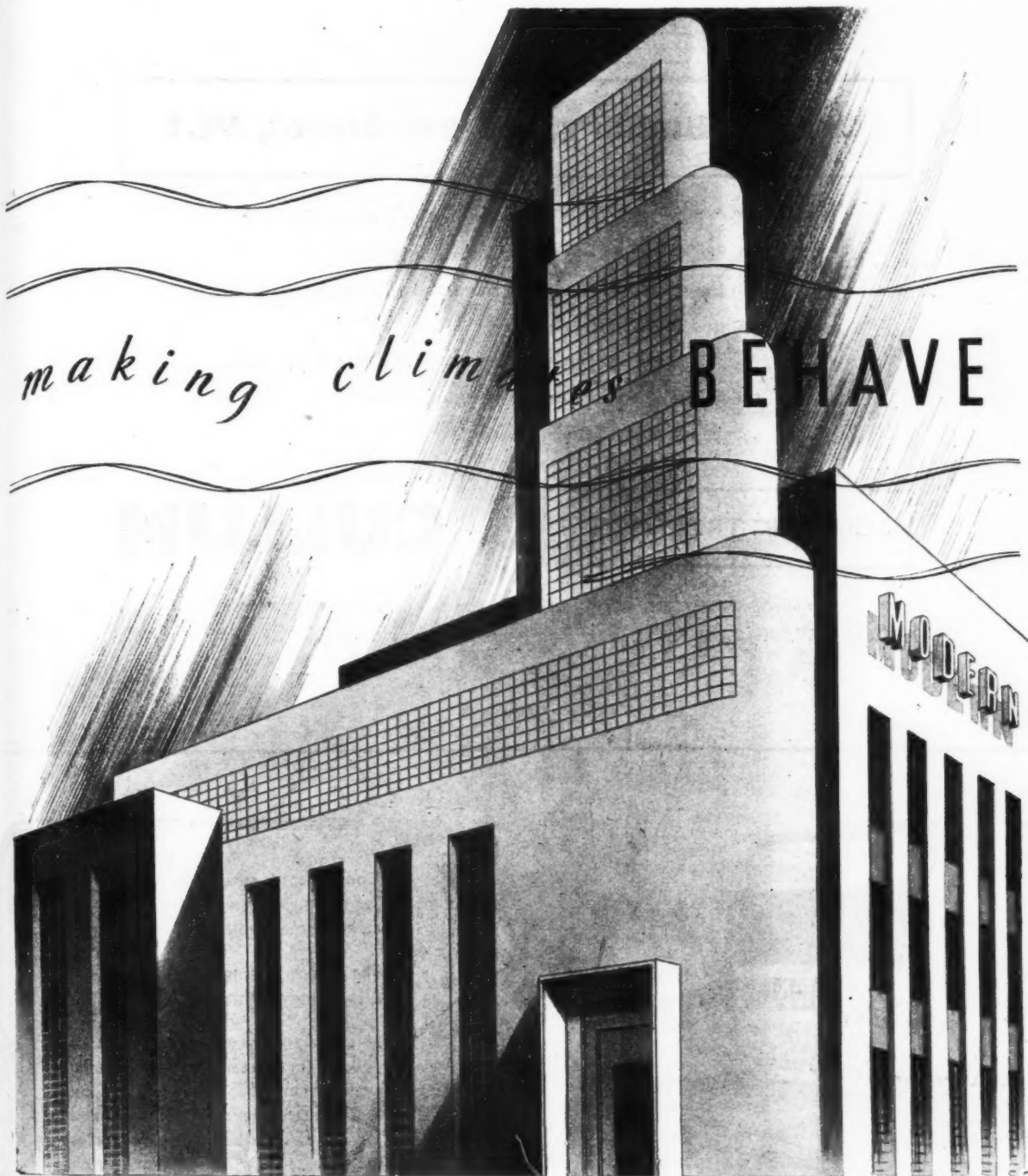
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xxxiii

CC 19

## Cunard Building, Regent Street, W.1

Acousti-Celotex tiles have been installed as a suspended ceiling on the ground floor, also fixed to the ceiling of the board room and subsequently painted in decorative harmony. The work has been executed by Horace W. Cullum & Co. Ltd., specialists in the technique of sound control for all types of buildings.

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Comfortable, smart, form-supporting seating, that will stack away into a small area when not in use.

*The Modern Seating*—durable, colourful and easy to maintain.

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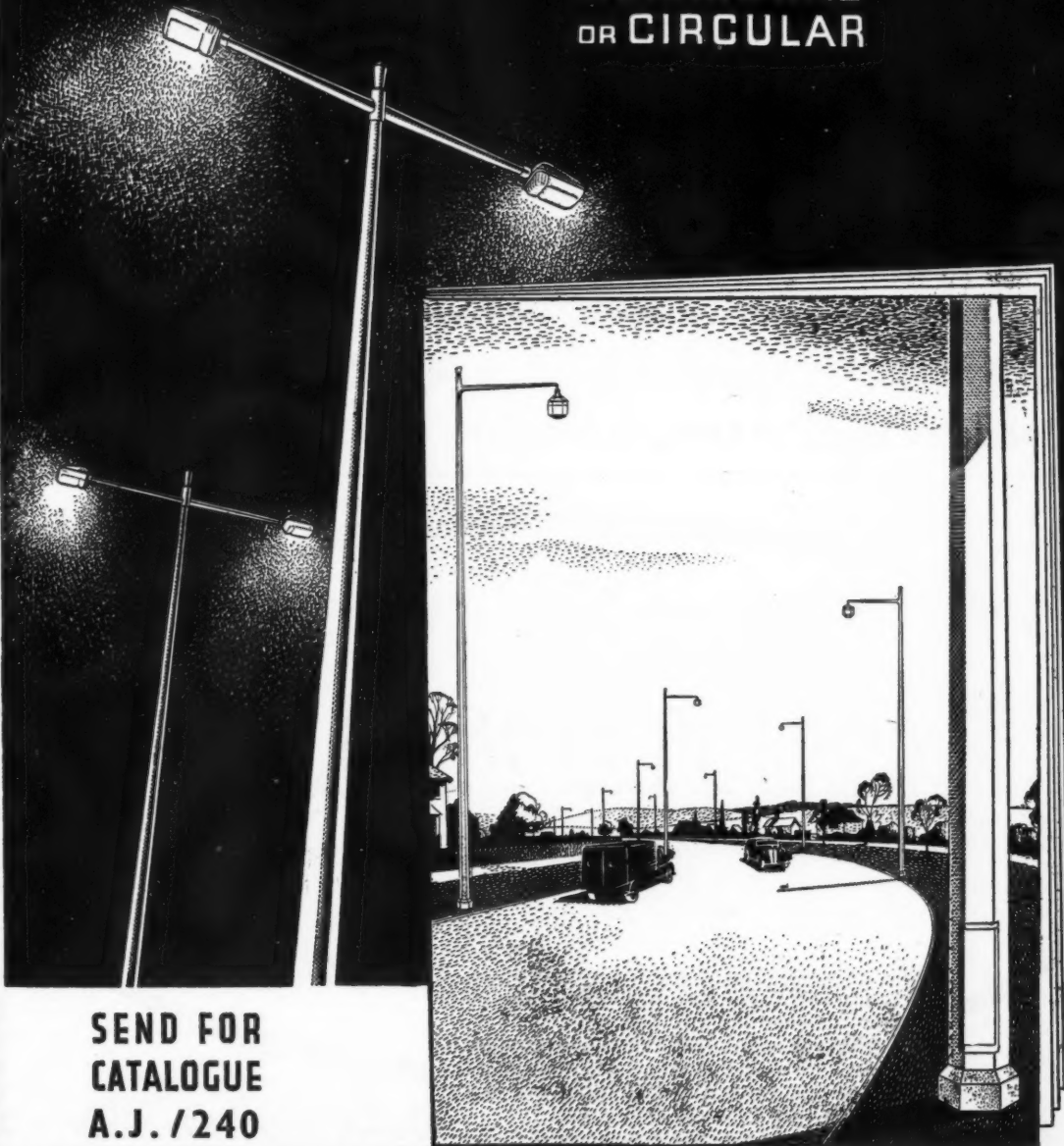
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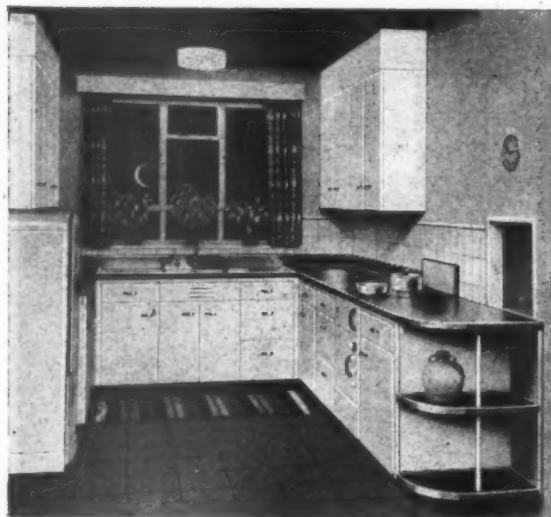
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The stainless steel sink, stove-enamelled wall and counter cabinets with one-piece plastic counter tops provide a vastly superior kitchen at normal costs. A refrigerator can be built into a standard counter unit and a broom cupboard can also be supplied.

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Contact us soon regarding your requirements.

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

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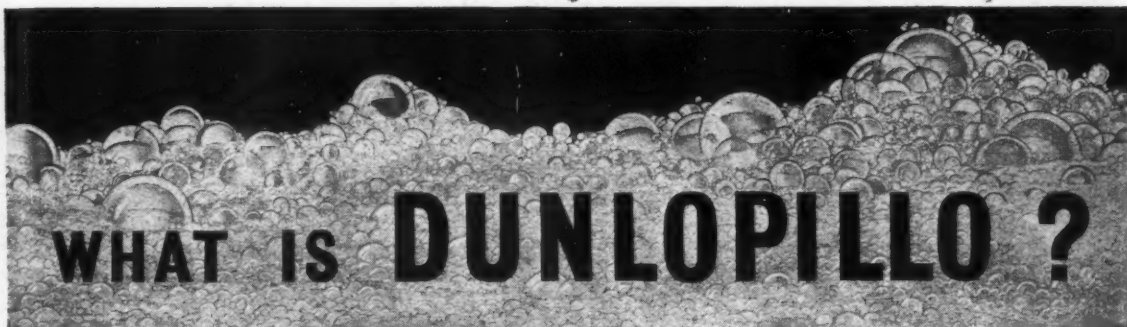
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The story of the world's most comfortable cushioning.

**WHAT IS IT MADE OF?** Dunlopillo cushioning, a material invented by the technical staff of the Dunlop Rubber Co. Ltd., is made of the milk-like juice of the rubber tree—latex—beaten up into a froth by a whisk. The resulting lather is poured into moulds of the required shapes and then vulcanised by suitable means. The frothing process introduces innumerable air bubbles into the latex, so that the finished products are honeycombed with inter-connected air cells.

**IS IT RUBBER?** The difference between latex foam and ordinary rubber starts from the time the liquid latex seeps from the tree.

Ordinary sponge rubber is made from solid dried sheet rubber by a process which involves mechanical kneading on powerful rollers, and thus the qualities of the natural rubber are impaired.

Dunlopillo cushioning, on the other hand, is made direct from liquid latex, and passes through no orthodox rubber processes, which tend to reduce the "life" and "nerve" of the original raw material. As a result a high degree of resilience and resistance to wear is obtained. More important still, the fact that a liquid raw material is used makes possible the whisking process which gives Dunlopillo cushioning its unique porosity and self-ventilating properties.

**DOES IT GET HOT?** Dunlopillo cushioning is porous throughout. As the user's movements depress and release the material, air is circulated. The result is that every Dunlopillo seat, cushion or mattress when mounted on a suitable base is actually air-cooled during use.

The reputation that rubber has for being "hot" has been gained in connection with impermeable surfaces such as groundsheets, air-beds, etc. As these have unbroken solid surfaces, and Dunlopillo cushioning has a cellular, porous construction, the two cannot be compared.

A resident in Samarang, Dutch East Indies, writes:—

"I have slept on this mattress for upwards of nine months and have nothing but praise for it . . . I can report that I have experienced no disadvantages whatever with regard to heat . . . I have not experienced the slightest odour from the rubber."

**IS IT HYGIENIC?**

Yes, it is by nature aseptic, and is germ- and moth-resisting. It has nothing in it to create dust.

**DOES IT AFFECT ACOUSTICS?**

Exhaustive tests conducted in Canada by Mr. G. R. Anderson, consulting acoustic engineer and former Professor at the University of Toronto, have indicated that the acoustic absorption provided by Dunlopillo cushioning is the highest of any type of upholstery filling. Extract from article by C. W. Glover, A.M.Inst.C.E., M.I.Struct.E., I.R.I.B.A., from "Ideal Kinema":—

"Theatre chairs with Dunlopillo cushions and arm rests provide the maximum of seating comfort, and at the same time the highest acoustic absorption yet reached in theatre seats."

**WILL IT LAST?**

Yes. There are no springs or padding to go wrong and no separate parts to wear out. Cinema seating, etc., installed as long ago as 1932 is still in constant use.

**WOULD MY CLIENTS LIKE IT?**

The answer is an unequivocal yes—not only when they first see the smartness of seating upholstered with Dunlopillo and sample its softness, but in five, ten, fifteen years' time when they compute what they have saved in upkeep costs. For Dunlopillo always retains its resilience and shape—having no springs to sag, no padding to pack down or form lumps—no hard edges to wear covering materials.



**DUNLOPILLO**  
*The original*  
**LATEX FOAM CUSHIONING**

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**FOUNDERS OF THE LATEX FOAM INDUSTRY**

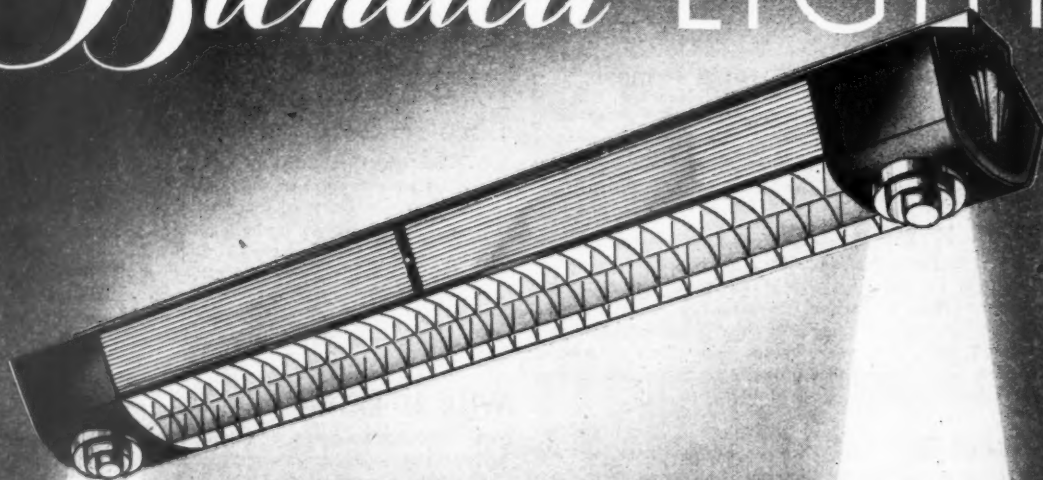


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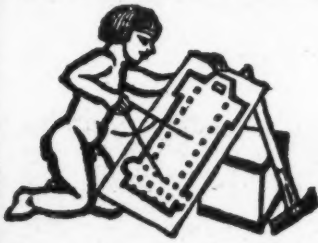
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In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their names will then be added to the subscription list as soon as possible. Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra.



## DIARY FOR SEPTEMBER OCTOBER AND NOVEMBER

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

**ASCOL.** *Autumn meeting of Building & Allied Trade Golfing Association.* At Berkshire Golf Club. Members intending to play (or any persons interested in membership of this Association) should communicate as early as possible with Mr. Hubert H. Hill, Monument Station Buildings, King William Street, London, E.C.4. (Telephone: Mansion House 3714.) SEPT. 28

**BIRMINGHAM.** *Design Week.* (Sponsor, CID.) OCT. 11-16

**BOLTON.** *Design Fair.* At the Art Gallery, Civic Centre, Bolton. (Sponsor, CID.) UNTIL SEPT. 25

**CHELTHENHAM.** *National Smoke Abatement Society: Fifteenth Annual Conference.* At the Town Hall, Cheltenham. Programme: September 29, 3.45 p.m.: Annual General Meeting. September 30, 10 a.m.: Civic Welcome by the Mayor of Cheltenham, Councillor H. T. Bush; 10.15 a.m.: Presidential Address by the retiring President, Sir George Elliston. The Minister of Fuel and Power, Mr. Hugh T. N. Gaitskell, will address the conference during the Opening Session. 11 a.m.: *First Conference Session.* Interim Report on the Society's National Survey of the Sources and Incidence of Atmospheric Pollution, by Lt-Col. A. J. Cousin. 2.30 p.m.: *Second Conference Session.* Chairman: D. L. Lipson, M.P. for Cheltenham. "Progress Reports." 8 a.m.: Reception to Members and Delegates by the Mayor of Cheltenham. October 1: 10 a.m.: *Third Conference Session.* Chairman: Alderman Clara F. Winterbotham, Deputy Mayor of Cheltenham. "Smoke Abolition and the Public Problems of Education and Propaganda." Paper by Leslie Hardern, Public Relations Officer, Gas Light and Coke Co. 11 a.m.: "Smoke Prevention in Relation to Town Planning." Paper by J. Nelson Meredith, F.R.I.B.A., City Architect, Bristol. 2.30 p.m.: *Open Session.* Brains Trust on Smoke Prevention and Clean Air. 7.30 p.m.: Conference Dinner at the Queen's Hotel. SEPT. 29-OCT. 1

**GATESHEAD.** *The Art of Landscape.* Exhibition at Shipley Art Gallery. (Sponsor, Arts Council.) UNTIL SEPT. 29

**LONDON.** *Darkness into Daylight Exhibition.* At the Science Museum, South Kensington. (Sponsor, Science Museum.) UNTIL SEPT. 30

*Joint Memorial Service for Christopher Nicholson and Donald Greig.* At Christ Church, Down Street, W.1. 12 noon. SEPT. 24

*Housing Centre Annual General Meeting.* At 13, Suffolk Street, Haymarket, S.W.1. Chairman, Professor Sir Patrick Abercrombie. Adoption of annual report and accounts. Election of honorary officers and retiring members of General Committee. Address by Desmond Heap, Comptroller and Solicitor to the Corporation of the City of London. (Sponsor, HC.) 4.15 p.m. SEPT. 27

*Personal Impressions of German Architecture and Planning.* Chairman: Sir George Pepler. Speakers: Miss Jacqueline Tyrwhitt, Lady Pepler, G. Rosenberg and Leo de Syllas. At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. SEPT. 29

*Town and Country Planning Act, 1947.* Sir Thomas Sheepshanks, Permanent Secretary, and other officers of the Ministry of Town and Country Planning, will meet members of the Chartered Auctioneers' and Estate Agents' Institute at the Kingsway Hall, Kingsway, W.C.2, to explain, and answer questions on the interpretation of, the various Regulations issued under the Town and Country Planning Act, 1947. 6 p.m. SEPT. 30

*Royal Photographic Society's 93rd Annual Exhibition.* At 16, Princes Gate, S.W.7. (Sponsor, Royal Photographic Society.) Part 1: Pictorial and Colour. UNTIL OCT. 3

Part 2: Scientific Nature Record and Technical. OCT. 9-30

*Display of Domestic Solid Fuel Burning Appliances.* At the Building Centre, 9, Conduit Street, W.1. (Sponsor, CUJC.) This display is changed at approximately 4-monthly intervals.

### PERMANENT EXHIBITION

*Gas in the Design for Living.* Exhibition of gas cookers, space and water heaters, laundry equipment and portable cooking and heating appliances. At the Building Centre, 9, Conduit Street, W.1. (Sponsor, BGC.) PERMANENT EXHIBITION

**MIDDLESBROUGH.** *Home Making* Exhibition at Shipley Art Gallery. (Sponsor, Arts Council.) UNTIL SEPT. 25

### COMPETITIONS

Secondary Modern School at Nunnery Farm, Spetchley Road, Worcester, for the City of Worcester Local Education Authority. Premiums, £400, £200, and £100. Assessor, John B. Surman, F.R.I.B.A. Conditions from the Secretary for Education, Education Department, 4, Copenhagen Street, Worcester. Deposit, £2 2s. Closing date, February 21.

## NEWS

THURSDAY, September 23, 1948  
No. 2798 VOL. 108

News .. .. .	281
The Church of Walpole St. Peter ..	282
This Week's Leading Article ..	283
Astragal's Notes and Topics ..	284
Letters .. .. .	285
"Our Lambeth" Exhibition ..	286
Passenger Office for Cunard White Star Ltd., Regent Street, London. Designed by Willink & Dod; Consulting Engineers: Hurst Peirce & Malcolm ..	287
Factory in Sebastian Street, Finsbury. Designed by How- ard Kelly .. .. .	290
Bungalow at Purley. Designed by R. G. R. Haggard & L. W. Cook .. .. .	292

### Information Sheets :

1.B8 A Drawn Lower Case Alphabet: Light Sans Serif .. .. .	To face page 294
28.H1 Built-In Type Refrigerator Model M.151: Electric or Gas Operated. .. .. .	

Societies and Institutions ..	295
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### Technical Section :

Information Centre .. .. .	296
The Industry .. .. .	299

*Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.*

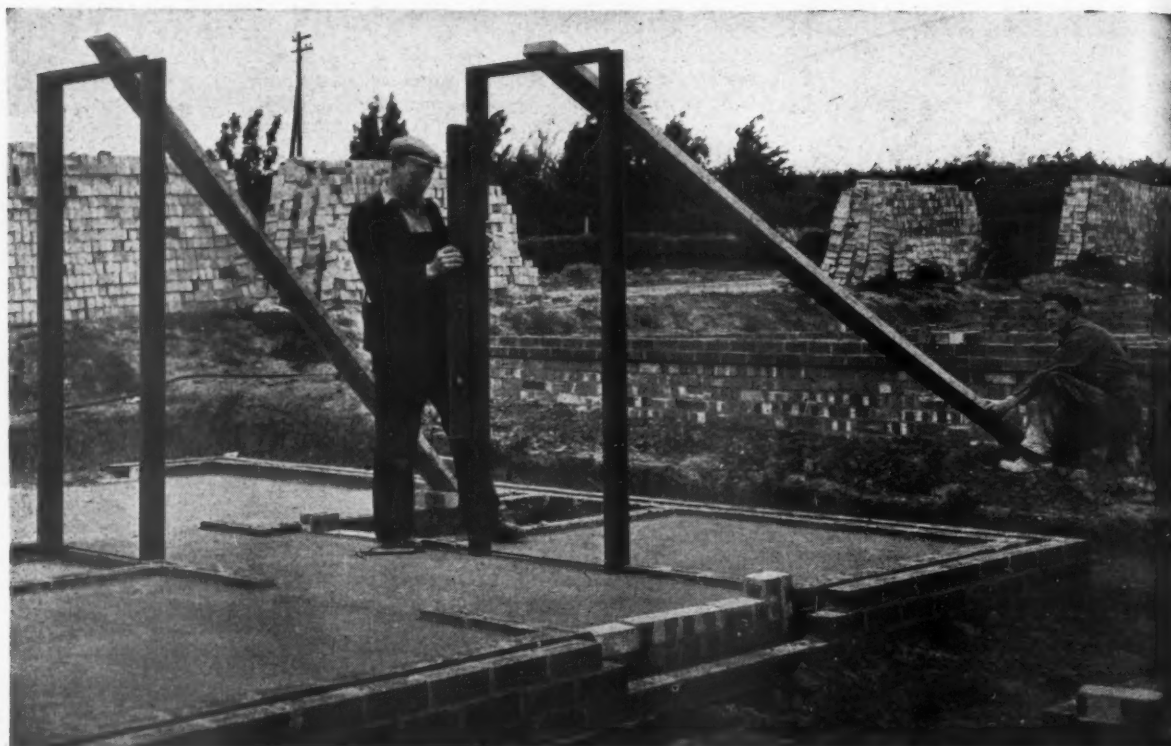
★ means spare a second for this, it will probably be worth it.

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

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

*From October 13 to 23, the WEMBLEY CIVIC INDUSTRIAL AND COMMERCIAL EXHIBITION will be held in the Civic Hall, Exhibition Grounds, Wembley.*

The exhibition will be opened by the Mayor of Wembley, Councillor H. S. Sirkett. Among the many exhibits will be a complete industrial electrical installation, building materials, refrigerators, space heating, and floor maintenance equipment. The Wembley Borough Council and several nationalized industries will also have stands there, and a cinema is being provided to show trade films.



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# From AN ARCHITECT'S Commonplace Book

KENT WRITES FROM ROME (JUNE 15, 1717) TO BURRELL MASSINGBERD. *From The Work of William Kent, by Margaret Jourdain.* "Your cieling piece is almost done. I have made tow figures yt represent Musick and Poetrey, here is your friend Mr. Hewet yt comes to see how it goes on and will inform you how your power painter does when he comes home. I told you in my last of an imbroglia I have had about a fine Antique Statue Mr. Coke bought, got it safe away to Leghorn when it was discovered here. They sent a Corrier and had it sequestered and would have confined Mr. Coke and I was to have been sent away from Rome, but at last all was ajusted and he has got ye Statue. I am hard at work now and will study hard to despatch some thing yt will be agreeable to my generous friends when I come home. I can assure you am quite wery with living this power melancholy life, but I hope I shall be reviv'd when I see all my friends in England."

**Mr. K. Campbell:** "Housing is the only major field in which the Government has completely FAILED TO MEET THE TARGET—we have reached barely 50 per cent. of the target."

Mr. K. Campbell, Association of Building Technicians, was speaking at the Trades Union Congress at Margate. "We are building only just over half of what the speculative builder was doing just before the war," he declared. The target to which he referred was the 400,000-a-year one set in pre-election propaganda.

Sir Luke Fawcett (Building Trade Workers), a member of the Council, said that the Government had not failed to reach its housing target. To the disgust of its opponents it had always refused to set one.

A resolution by the Engineering and Shipbuilding Draughtsmen expressing concern at the state of the house-building programme and calling on the Government to take all steps to meet housing needs, was referred to the Council.

built by Michael Warre; and three models built and designed by Reginald Leefe.

★★

**Mr. J. W. Belcher, Parliamentary Secretary to the Board of Trade** announced in *The House of Commons* that the Government has decided that the **REBUILDING OF CENTRAL AREAS** in the heavily bombed cities shall be begun next year.

He was replying to Mrs. Middleton (Plymouth, Sutton, Lab.), who, on the motion for the adjournment of the House, raised the question of the provision of additional shopping facilities in the bombed cities, particularly Plymouth.

Mr. Belcher said that, in spite of the country's straitened circumstances, the Government were agreed that such work should not be indefinitely deferred, and had decided that a start should be made in 1949 with the rebuilding of central areas in the heavily blitzed cities where plans were sufficiently far advanced. It must be recognized

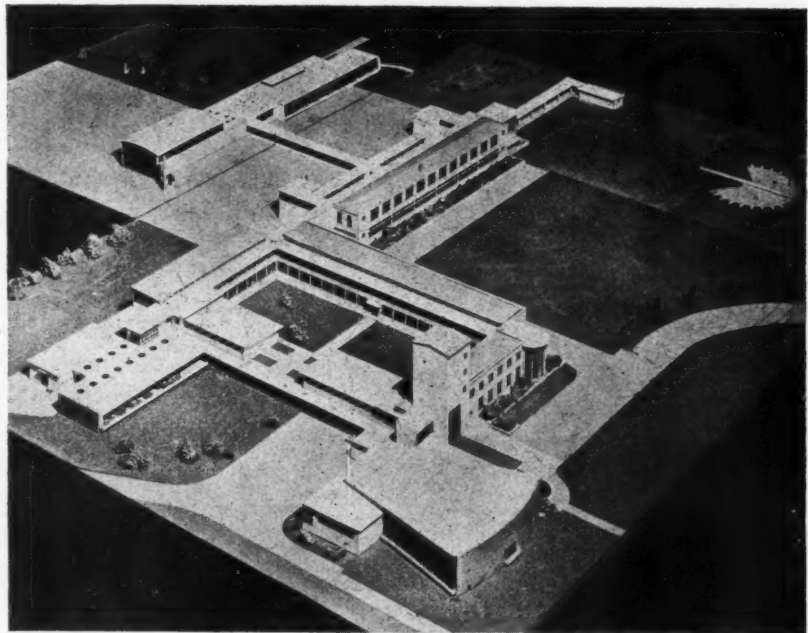
that resources were severely limited, and that compared with the size of the job which needed to be done the amount of work able to be done would be only a small proportion of the total requirements, and they could not afford any priority over other more urgent national needs. They could not encourage anyone to believe that there would be any increase in the labour force or in the amount of steel to be allowed for these requirements.

It would be possible, however, for the licensing authorities to consider applications for modest schemes for the repair and rebuilding of bombed shop premises which did not make any demands on steel supplies. He hoped that this would provide evidence of the Government's desire to do what they could, within their limited resources, to enable these cities to get on their feet again, whether in the matter of their industries or their shopping facilities. He hoped local authorities, the industrialists, and shopkeepers would go ahead as quickly as possible with the preparation of their schemes for early submission, so that in 1949 those schemes would be all ready to take advantage of whatever assistance the Government could afford.

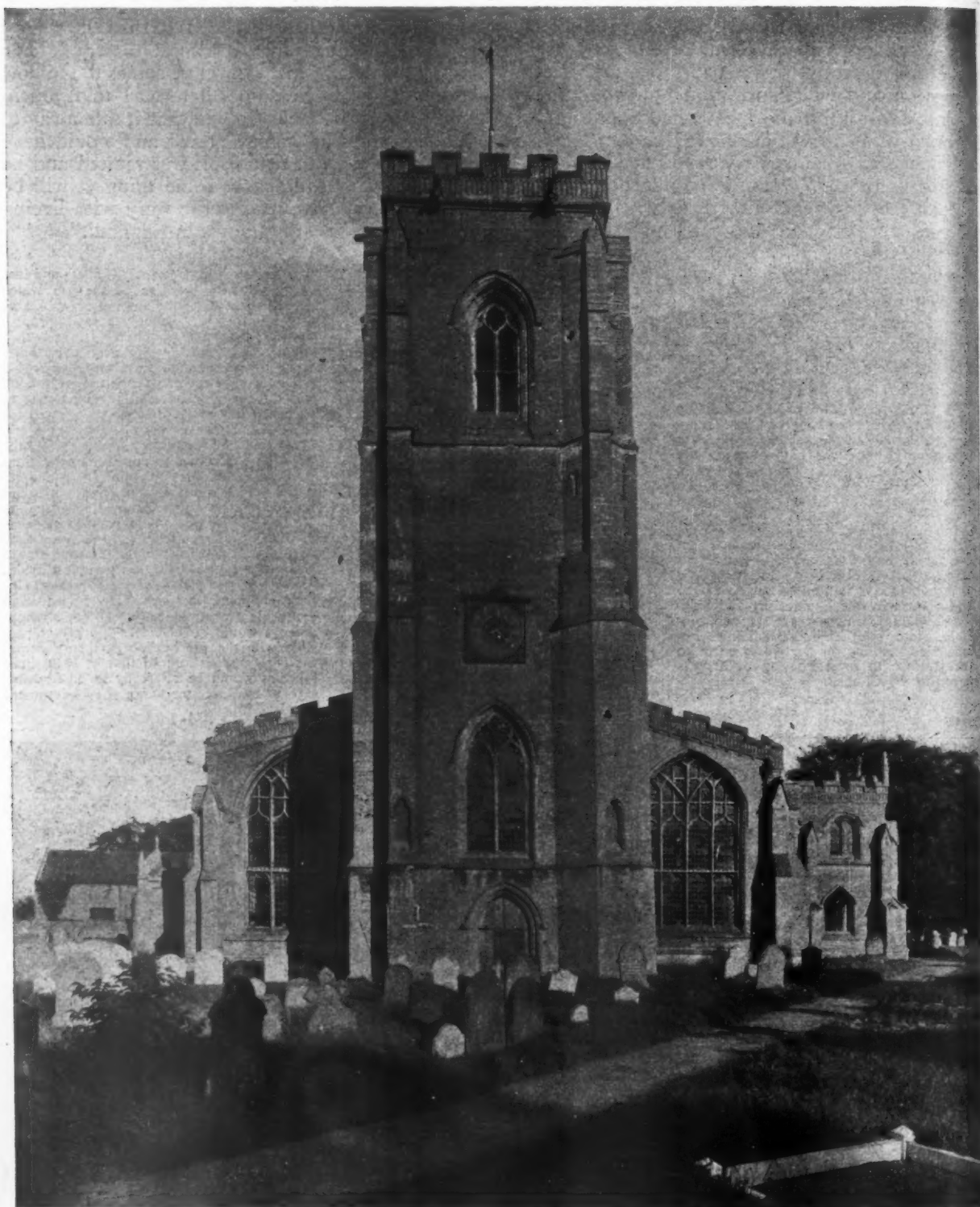
Until October 6 an exhibition of **THEATRICAL DESIGN**, shown by the British Council in Poland, Czechoslovakia and Berlin, is being held in Copenhagen.

The exhibition, in the Statens Museum, Solvgaade, Copenhagen, consists of some 150 original designs and about 35 models, including two Pollock toy theatres. It has been assembled with the advice of Mr. James Laver, Keeper of the Departments of Engraving, Illustration and Design at the Victoria and Albert Museum. Most of the designs are for productions that have actually been shown during the past decade, although there are a few projected and several earlier designs. The designs are for productions, which range from tragedy, in the traditional sense, to modern review and comedy, and include many important ballets. Among the artists whose work is included are: Cecil Beaton, Gladys Calthrop, Roger Furse, Leslie Hurry, Reginald Leefe, Oliver Messel, Motley, John Piper, Hugh Stevenson, Doris Zinkeisen, and the late Rex Whistler.

The models, chiefly made to the scale of half an inch to one foot, vary in complexity from a large detailed model of "Lady Windermere's Fan," designed by Cecil Beaton, to a model of the "Elizabethan Maddermarket Theatre," Norwich. There are also two models of designs by the late Claud Lovat Fraser, Gordon Craig's designs for "King Lear," and Albert Rutherston's design for "Androcles and the Lion." The modern models include "Peter Grimes," designed by Tanya Moisevitch; Edward Burra's designs for the "Miracle of the Gorbals"; two models of designs by Leslie Hurry, one for "The Hamlet Ballet" and the other for "Turandot"; "Richard II," designed and



Model of a new academy at Kilsyth, Stirlingshire, designed by Basil Spence. The main scheme, joined by a covered way to the post-war extension seen in the background, had reached first-storey level, when building was stopped after the outbreak of war. Included in the pre-war plan are a dining room, library, gymnasium, and a swimming pool, which can be turned into an open-air pool in fine weather; in the extension are an assembly hall, dining room and kitchen, a second gymnasium and four new classrooms. The model is in the post-war school work of Scottish architects added to the RIBA New Schools Exhibition now being shown in The McLellan Galleries, Glasgow, until September 28.



## *The Church of Walpole St. Peter*

Last night the BBC began a new series of talks in the Third Programme entitled "Buildings and Places." The first was by Alec Clifton-Taylor on the churches of the Norfolk marshland. Above is a photograph of the Early English and Decorated church of Walpole St. Peter, near

King's Lynn, mentioned in his talk. On the book boards and screen are paintings executed in the reign of Henry VI. A vaulted passage running through the church beneath the chancel is believed to have been built to preserve a former right of way.

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*The Minister of Town and Country Planning has approved the APPOINTMENT OF TOWN PLANNERS FOR WELWYN GARDEN CITY & HATFIELD.*

The approval has been obtained from the Minister of Town and Country Planning to the following appointments as architectural town planners:—

For the Welwyn Garden City Development Corporation: Mr. Louis de Soissons, O.B.E., A.R.A., F.R.I.B.A., M.T.P.I.

For the Hatfield Development Corporation: Hon. Lionel Brett, M.A., A.R.I.B.A.

Mr. Louis de Soissons was from the start the Town Planner for Welwyn Garden City Limited, and the Hon. Lionel Brett has been associated with Sir Patrick Abercrombie and Mr. Clough Williams Ellis in the preparation of plans for Redditch and Weston-super-Mare respectively. As has been previously announced, Mr. J. Skinner, A.M.I.C.E., has already been appointed Engineer to both Corporations.

*Councillor Thomas Paterson, of Ayr, has been APPOINTED CHAIRMAN OF THE SCOTTISH HOUSING ADVISORY COMMITTEE.*

Mr. Arthur Woodburn, M.P., Secretary of State for Scotland, has appointed Councillor Thomas Paterson, of Ayr, as Chairman, and Mrs. J. R. Lang, M.B., Ch.B., of Bathgate, as Vice-Chairman, of the Scottish Housing Advisory Committee. Councillor Paterson was formerly Vice-Chairman of the Committee and succeeds Mr. G. P. Laidlaw, O.B.E., M.A., B.Sc., whose term of office has expired. Councillor Paterson was Chairman of the Subcommittee whose Report on Housing Management in Scotland was published in 1946.

The following new members have been appointed to fill vacancies in the Committee: Mr. J. G. Bothwell, Scottish Secretary, Railway Clerks' Association; Councillor E. Daly, Chairman, Housing Committee, Lanark County Council; Dr. Stuart I. A. Laidlaw, B.Sc., M.D., D.P.H., B.L., D.P.A., Medical Officer of Health, Glasgow; Mr. W. Maltman, Town Clerk, Alloa; and Mr. F. W. Walker, Chairman, Housing Committee, Inverness County Council.

*An interim report of the Council of the BMA emphasizes that experiment is desirable to find the right kind of building for HEALTHCENTRES.*

The Council's conception of a health centre is a building where a team of doctors see their patients when sick and where the preventive services of the local authority are also housed with active co-ordination between the two branches of medical service. There should be arrangements for dental services also to be provided at health centres and the whole organization should be used for part of the education of the doctor. Some details are given of what the centre should provide in accommodation, but it is emphasized that experiment is desirable to find the right kind of building, and that modification of existing premises might be possible in some areas at an early date. For towns, centres to serve a population of about 25,000 are considered the right size. The report concludes by urging the appointment of a central committee without delay, to offer guidance during the period of experimentation and to collect information of the results achieved.

## THE COMPETITION SYSTEM

THE Mars Group's report on competitions, which appears in this issue, is important for two reasons: it draws attention to the immediate need for the improvement of the competition system and it shows that the Group is aware of the part it can play in matters of general professional concern.

No professional organization, particularly if it has been long established, can claim to be so flexible that it represents every aspect of its members' opinion at all times. A period must elapse before the ideas and attitudes of each new generation gather sufficient momentum to influence the older, and inevitably more cautious, policy makers, who are in the saddle. The value of the Mars Group lies in its capacity to indicate the opinion of a responsible section of the younger generation—and ultimately to "ginger up" developments in its senior professional organization, the RIBA, in order to bring it into line with the changing attitude of all its members. That this is a well-established precedent and a sign of healthy progress is paralleled in the early history of the AA.

There are four particularly relevant points made in the report with which, we feel convinced, a far larger number of architects than those who are members of the MARS Group will be in agreement, and which are vitally necessary reforms in the existing Regulations. The choice of the Assessor is evidently the key to the whole principle of open competition. The Group's first recommendation does no more than clarify the necessary qualifications, but if, particularly in the younger generation, architects are to be encouraged to devote time and energy to the competition gamble, the feeling that they are fighting against prejudices with which they cannot sympathize or understand must be eliminated. The integrity of the system can only be maintained if designing for the assessor, and not for the solution of the problem, is eliminated. This leads to what we feel is the second most important issue on which the Group makes a recommendation—the assessor's report. It is only by means of his report that the competitor can feel satisfied that he has not wasted his time. The Group's suggestion that a more detailed summary of the major reasons why each of the designs not placed were eliminated, is a very necessary reform. While one has every sympathy for the assessor in his enormous task, it is only by detailed commentary and not by generalised statements on the winning design that the competition system can be used to improve the whole standard of planning and design, as well as for selecting an answer to a particular problem.

In the increasingly complex problems of contemporary building few men would claim so thorough a knowledge of technique that they are alone capable of commending or condemning unorthodox solutions to well-known problems, or perhaps more important, solutions to new problems which have hitherto not been encountered. This situation must become increasingly common, and the Group's recommendation that

assessors should have specialist advisers would increase the competitors' confidence that justified, if unorthodox, originality would not be penalized.

In the last of the four points that we feel are of outstanding importance in the report, the Group have perhaps failed to carry their recommendations to a logical conclusion. Two-stage competitions have never been common practice in this country, and particularly among opponents of the "esquisse" principle, they have been criticised as leading to superficial consideration of fundamental principles. Nevertheless, many problems today involve layouts which may be considered to a large extent independently of the detailed planning and architectural solution. Particularly in the field of housing, or the layout of a series of partly standardized units, this becomes a logical method of selecting a small group of finalists who will carry the study to its conclusion.

The profession will await with interest the RIBA's comment on these proposals and their acknowledgment that reforms of the type suggested are required, and will be of benefit both to promoters and competitors and to the general standard of architecture which we wish to see produced.



*The Architects' Journal*

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1

Phone: Whitehall 0611

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

### CEMENT SUPPLIES

Although Government spokesmen maintain that there is really an adequate supply of cement, the fact remains that nearly all builders report shortages, and the inevitable slowing down of work to keep pace with deliveries. Mr. D. C. Burgess, LMBA President, estimates that the output loss from this one shortage alone averages something like 10 per cent. on all the jobs in the country, and at the present labour strength of the building industry, this represents the work of about 125,000 to

130,000 men. At the same time cement exports are likely to be a million and a quarter tons this year, and probably more in 1949, and, as Mr. Richard Costain points out, it is going to countries who are adding to their cement manufacturing capacity as fast as they can, and to whom we can therefore sell for only a limited time. Astragal does not pretend to have the answer to this problem and is, if anything, rather relieved at not having to balance dollars against 130,000 men doing almost nothing.

### ROAD ECONOMIES

A suggestion for saving labour and materials ought to be considered in days when Sir Stafford is trying to make us all grasp the obvious. An architect who has been cycling in East Anglia during the past week sends one for consideration by the Ministry of Transport—namely, that in that part of the world no road improvements will be needed outside built-up areas for a good long time.

Both first and second class roads are in an excellent state of repair and appeared to him to carry negligible traffic. Traffic on A45 and A11 on a Sunday certainly did not exceed 100 vehicles per hour, of which four-fifths were holiday-makers. Three hours on B1115, an extremely well-kept road,



*The proposed official badge for British Railways. See Astragal's note below.*

did not produce more than 5 v.p.h. on the same day; and an equal period on a Thursday yielded about 30 to 40.

An improvement to an intersection between A45 and an unclassified road particularly caught his eye. This was a beautiful job, clearly recently completed, and involving about 2,000 sq. yds. of new road surface, new kerbing, fine sight lines, and all the rest of it. My correspondent ate his sandwiches at this point, and during 40 minutes on a Saturday afternoon no vehicle at all used the unclassified road.

### SERIOUS RAILWAY ACCIDENT

Reproduced above is a photograph of the newly-designed British Railway insignia, which is now on trial for some weeks. As you see, it is a really lamentable mélange, in which the chief ingredient (note the exquisitely placed rivet-wart on his back) is our old friend the Wembley lion, specially elongated for a wheel straddle.

Surely we can do better than this? England is famous for her rich tradition in heraldry and decorative lettering—particularly in association with coachwork. We have in men like Reynolds Stone and Richard Guyatt designers of the first rank in this particular field. Back to you, Mr. Barman, for second thoughts, please.

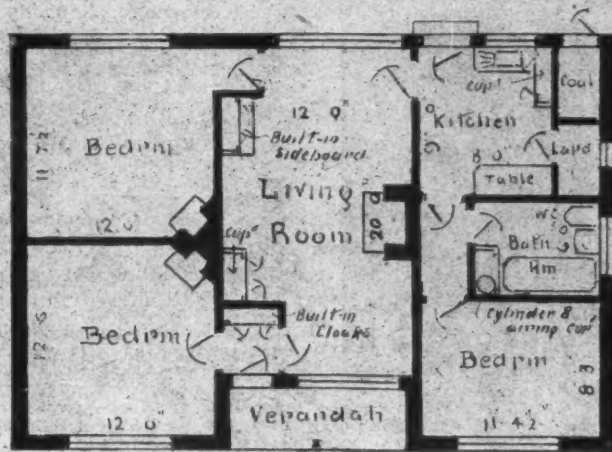
### VERY TILTILLATING

I have just finished reading Rex Wailes' new book about windmills\*.

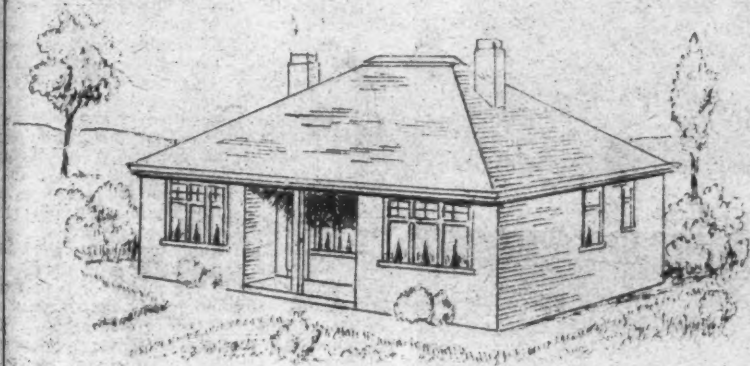
\* *Windmills in England. A study of their origin, development and future. By Rex Wailes. The Architectural Press. 12s. 6d.*



Type B, Approx. Price £950



Floor Plan



Perspective View

British firm (in the Midlands) which advertises five bungalow plans for 5s. 9d. For your amusement I reproduce one of them here. Having made your choice you can buy (for 25s.) "a complete set of detailed constructional drawings . . . including plan, all elevations and sections, from which any builder could work." If you have a site and want to build you can have "all the three detailed constructional drawings, with site plans to submit to your local authority, Town and Country Planning Committee, and County Council, for the sum of £6 15s. This includes any services in submitting these drawings to the authorities named, applying for a licence to build on your behalf, and supplying you with one copy of the drawings for yourself."

The letter adds that "we have the services of an experienced registered architect at our disposal." What has the RIBA or the Registration Council to say about this? Or, rather, is there anything that either of them can do? Is there anything to stop anyone from selling any plans at any price? I fear not.

ASTRAGAL

## LETTERS

{ Eric S. De Maré, A.R.I.B.A.

{ Gordon Tomalin, M.I.Struct.E.

A standard plan and perspective of a bungalow, recently produced by a firm of Midlands builders for sale to the public. See Astragal's note.

although reading is not perhaps the right word, since most of it is taken up with an odd hundred or so of excellent illustrations. The attractiveness of the subject is, I feel, something of a triumph for the functionalists because, although windmills are nothing if not functional, the pleasure they give to the eye is no new discovery. The text covers a lot of ground, from a technical account of the different types of mills and their mechanism to a short appreciation of millers and millwrights, and it ends with a glossary that explains such mystifying milling terms as "wallower," "side girts," and "petticoats." But, alas, as Wailes points out, the number of mills in England has shrunk from about ten thousand in their hey-day to less than fifty now.

He puts in a strong plea that the Society for the Protection of Ancient Buildings would find a worthy cause here—and how right he is.

### WHY BE AN ARCHITECT?

Some months ago I referred to an Australian scheme whereby house-holders paid a few guineas for a set of house plans and a specification. The scheme was sponsored mainly by a local newspaper and had the approval and full co-operation of the local architectural society, mainly (so far as I could make out) on the grounds that it would cater for an income group not normally accustomed to employing architects at all.

I have now heard of an enterprising

### Minimum Ceiling Heights

SIR,—I heartily agree with Mr. Clark. What is all this fuss about 8 ft. minimum height for rooms? I cannot see any reason for such a minimum, but plenty of reasons against it, the main one being that it makes for dull and unpleasant proportions; 7 ft. 3 in. is quite enough.

If you must have fresh air, don't worry about cubic contents or room heights, but take windows nearly up to ceiling level and design them sensibly like the Swedes have done with their new centrally pivotted type. Air between window tops and ceiling is dead, stale, useless stuff, which is only very, very slowly displaced. Not many people know this, but it is an extremely important fact.

ERIC S. DE MARÉ

London

### Supply of Materials

SIR,—Your leading article on "The Supply of Materials," published in the issue of September 2, is most interesting in suggesting the formation of a federation consisting of manufacturers, merchants, and builders.

## "OUR LAMBETH" EXHIBITION



This week Lambeth Council is holding an exhibition to tell the inhabitants the story of the social and physical growth of the borough, and of the work of the council and other social services. Part of the exhibition concerns Lambeth's rehousing plans, and models of some of the projects are shown here. Top, a design for 253 dwellings at Wyvil Road, designed by Grey Wormum. Right, part of a scheme for 107 flats at Denmark Road, also by Grey Wormum. Below, Knights Hill Estate designed by Howes and Jackman. Bottom, Bonham Road housing scheme by Gollins Melvin Partners.



It would appear, however, that such a machine could only confine itself to the broadest issues, and could not ensure the supply of the right materials on the site at the right time.

Experience over the past three years seems to show that, if all parties take the trouble to understand the machinery of controls, supply, and distribution, and apply their experience and knowledge in the right directions, it is possible to produce buildings at increasing speed. It is true to say, also, that where a contract has efficient architects, contractors, and merchants a very high speed of output can be accomplished. The formation of a federation may help, but the crux of the whole problem seems to be a lack of appreciation of the real root of our troubles:—

(a) the fact that controls, irksome though they become, cannot come off for some time to come;

(b) to release all controls without the most careful timing and consideration of all aspects would cause chaos; and

(c) that owing to the export problems and other priorities we cannot have the particular items of construction we might prefer.

A federation, as suggested, which would encourage ways and means by which construction speed could match that of supply, would be a step in the right direction. Such a federation would be incomplete without architectural representation, and, as I envisage it, would thus keep architects informed of items in short supply, and with the production programme for periods ahead. Specifications could then cater, where necessary, for reasonable alternatives. If the architect could produce plans and specifications within known ceiling prices, much of the loss in time and money incurred during the period for estimating and approval of tenders might be avoided. If, in the first place, contractors can have this sort of consideration it seems obvious that keener competition could prevail.

The federation might urge contractors to plan their site construction programme so that it is related to the supply of materials and labour. It could suggest they made the fullest enquiry, at the commencement, of merchants, as to times of delivery of items, placing orders early, and obtaining reasonably firm promises of delivery. Such assistance would tend to avoid labour displacement caused by stoppages due to lack of enquiry and unrealistic programme making.

Merchants, in their acknowledgment of responsibility, would realise that contractors need to know, in advance, delivery times of materials to ensure proper organization at sites. Consequently they would be encouraged to balance acceptance of orders with the totals they could expect to receive from manufacturers.

Manufacturers, with their export problems, and, possibly, lack of early information on the supply of raw materials, would find the task difficult. But, should they give merchants true information when the supply approach is first made it would be a real contribution to smooth running all down the line.

If the architect, builder, merchant, and manufacturer could pull together with the object of

(a) so attending to their part of the job as to eliminate any possibility of hold-up;  
(b) where substitutes become necessary reaching decision at a very early hour, enabling all following to deal with and adjust any programme of site work;

(c) producing as many buildings as the supply line will permit in the shortest possible time; and

(d) to determine, by collective operation, to bring prices to a level truly related to the pocket of the client;

then, with such terms of reference, and the will to carry them out, the federation would be welcomed.

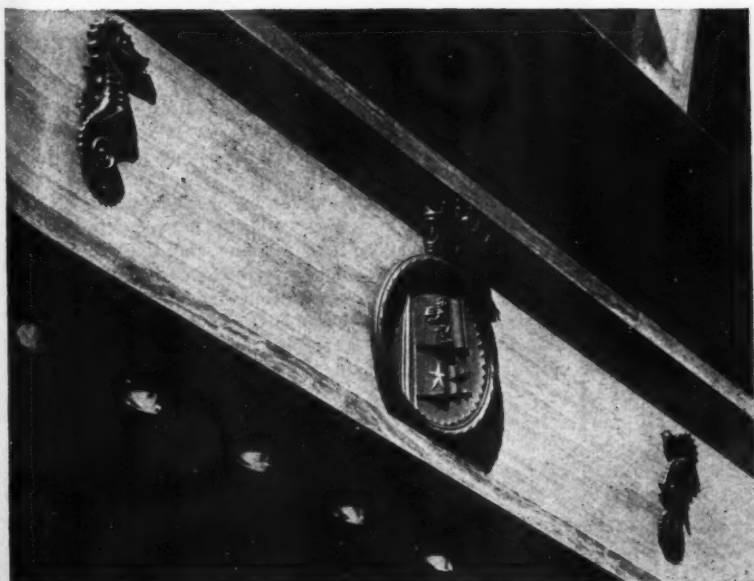
Barkingside.

GORDON TOMALIN.



# PASSENGER OFFICE FOR CUNARD WHITE STAR LTD., REGENT STREET, LONDON

*DESIGNED BY WILLINK & DOD  
CONSULTING ENGINEERS: HURST PEIRCE & MALCOLM*



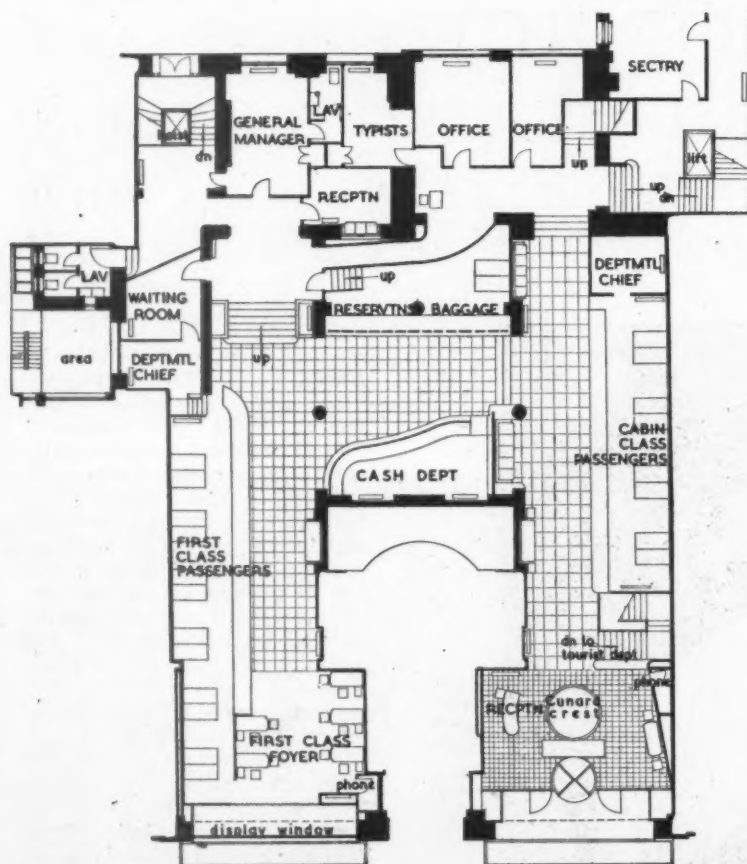
GENERAL. — Alterations were necessary to an early nineteenth century building in order to provide the main requirement of the Cunard White Star Company. This was for the maximum counter space for first-class, cabin and tourist passenger booking. At the same time it was essential that the efficiency of the booking and counter clerks should in no way be curtailed by this requirement and it was also necessary to maintain good circulation for the public.

*Top, the entrance hall. Left, decorative emblems above the show window.*





*Above, the baggage and cash department, looking towards the first-class booking counter.*



**GROUND FLOOR PLAN** [Scale  $\frac{3}{4}" = 1'0"$ ]

**THE PLAN.**—The booking office is on either side of the centrally placed entrance to the offices on the floors above. The street elevation is thus in two parts, that on the right being the main entrance hall and, on the left, the display window. Immediately behind this window is a waiting area for first-class passengers, provided with desks to facilitate the completion of documents. Centrally placed between the first-class booking and the cabin class booking are the cash, baggage and reservation departments. In the basement, which is reached by a staircase near the entrance foyer, is the tourist booking counter. Two short flights of stairs lead from the booking department to the Manager's and the Company's offices.

**INTERNAL FINISHES.**—One of the problems was to reduce the noise of many negotiations being carried on at one time : this was



Right, the first-class booking counter.  
Below, left, the tourist class booking  
counter in the basement. Below,  
right, the cash department.



accomplished by covering the ceilings throughout the ground floor and basement, wherever the public has access, with acoustic tiles and, in addition, there is a panel on the walls, four feet above dado height, faced with a cream artificial stone with sound-absorbing properties. Floors are covered with

linoleum. The staircase has glass panels, with sandblasted designs set in the rail. Further decorations have been incorporated in the design of the wall surfaces, including a plaster relief figure, a suspended map over the baggage and reservations department and a series of heraldic crests of the ports of

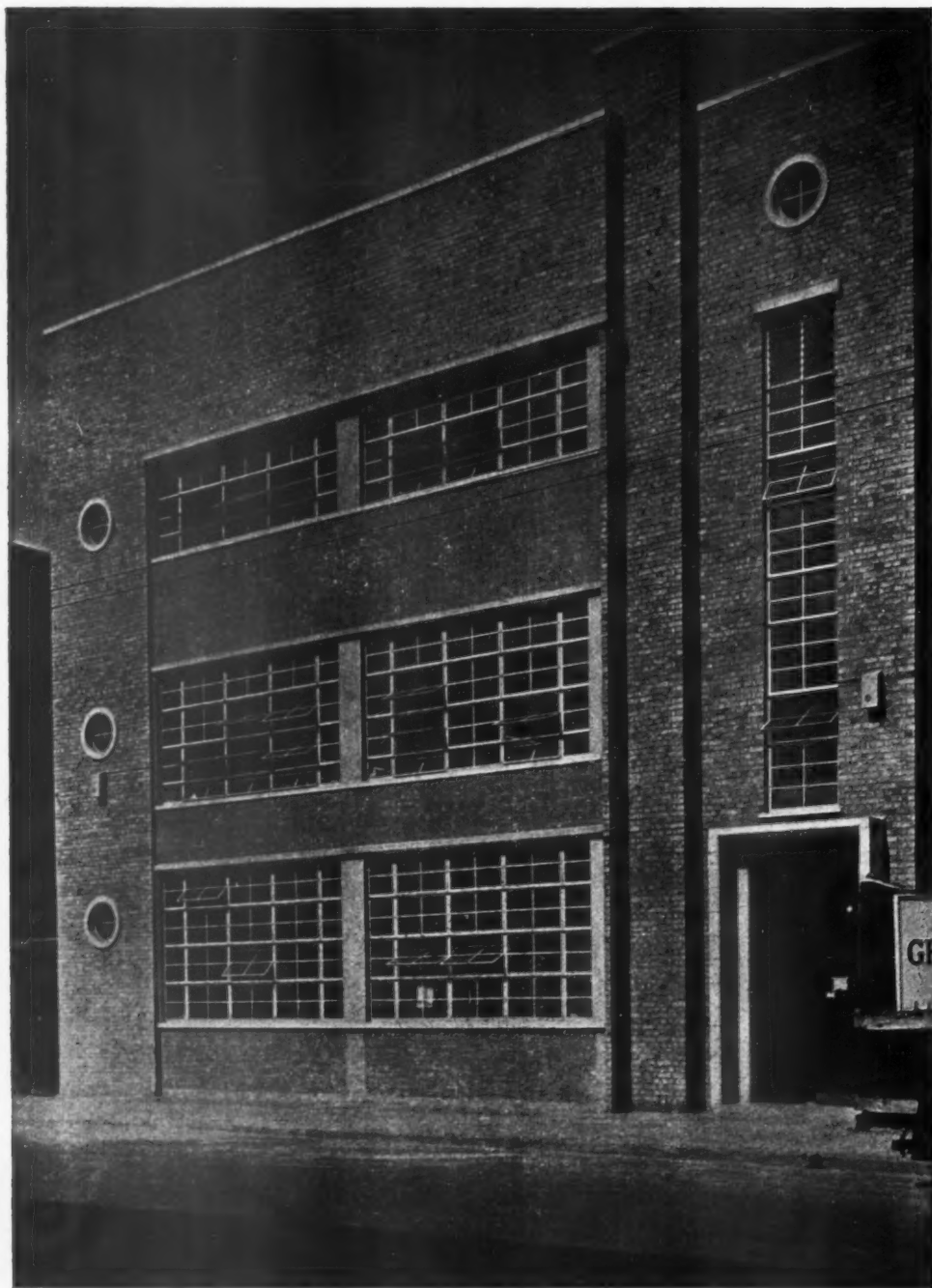
call of the Company's ships, all of which have been designed by Gordon Herickx.

The main contractors for the structural work, decorations, furnishing, counter and office equipment were Messrs. Waring & Gillow Ltd.



BOOKING OFFICE IN  
REGENCY STREET:

DESIGNED BY  
WILLINK & DOD



*The main front to Sebastian Street.*

# FACTORY AT FINSBURY

DESIGNED BY  
HOWARD KELLY

**GENERAL**—The building was designed for the manufacture of women's and children's clothing. The clients required that the top floor should be planned as a dress design and cutting room, with direct lift communication with the first floor which is the main sewing and assembly room, from which the articles are sent to the ground floor where they are finally finished and prepared for despatch.

**SITE**—The building occupies the site of three bombed properties in Sebastian Street and the restricted area of the site available controlled the design and planning of the building.

**PLAN**—This was rigidly controlled by the limited area of the site. The client desired the maximum floor space possible for the workrooms.

**CONSTRUCTION**—It was originally intended to construct the building with a steel frame and north light roof trusses, but the licensing authorities refused to issue a licence for the steel required and insisted that a reinforced concrete frame with flat roof and pavement lights be substituted for the steel work. The building is therefore constructed with reinforced concrete frame with brick infilling, reinforced concrete *in situ* floors and reinforced concrete flat roof covered with cork blanket insulation and asphalt, with top light obtained by means of pavement lights. The internal walls are of brick, and the reinforced concrete floors are covered with cement screed and coloured asphalt with a wood skirting.

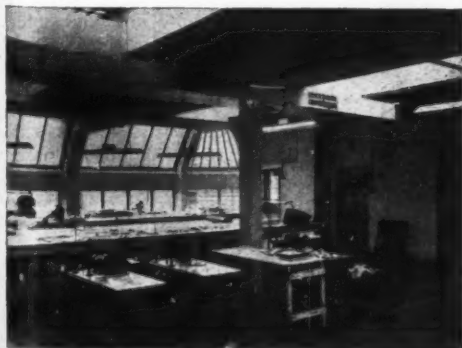
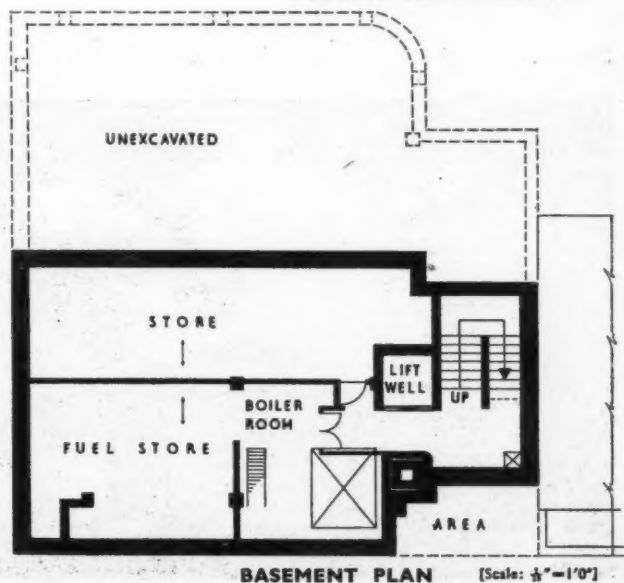
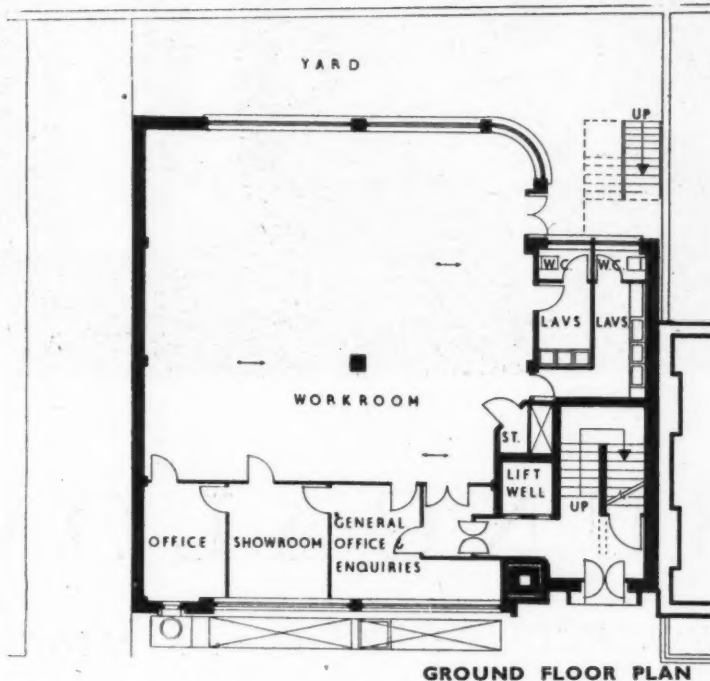
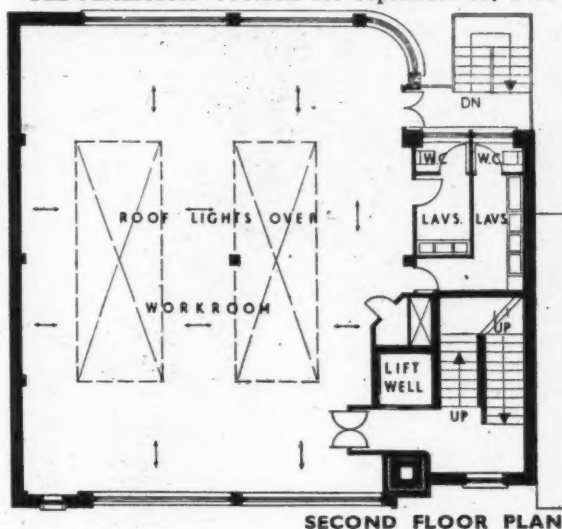
#### ELEVATIONAL TREATMENT

—The main elevation is faced in London stock bricks with artificial stone copings, string course and entrance portico. The panels between the windows are filled with breeze block walling, faced with matt glazed green wall tiles.

**INTERNAL FINISH**—The walls are of fair-faced brickwork coloured-washed, except for the entrance lobby and staircase which is plastered.

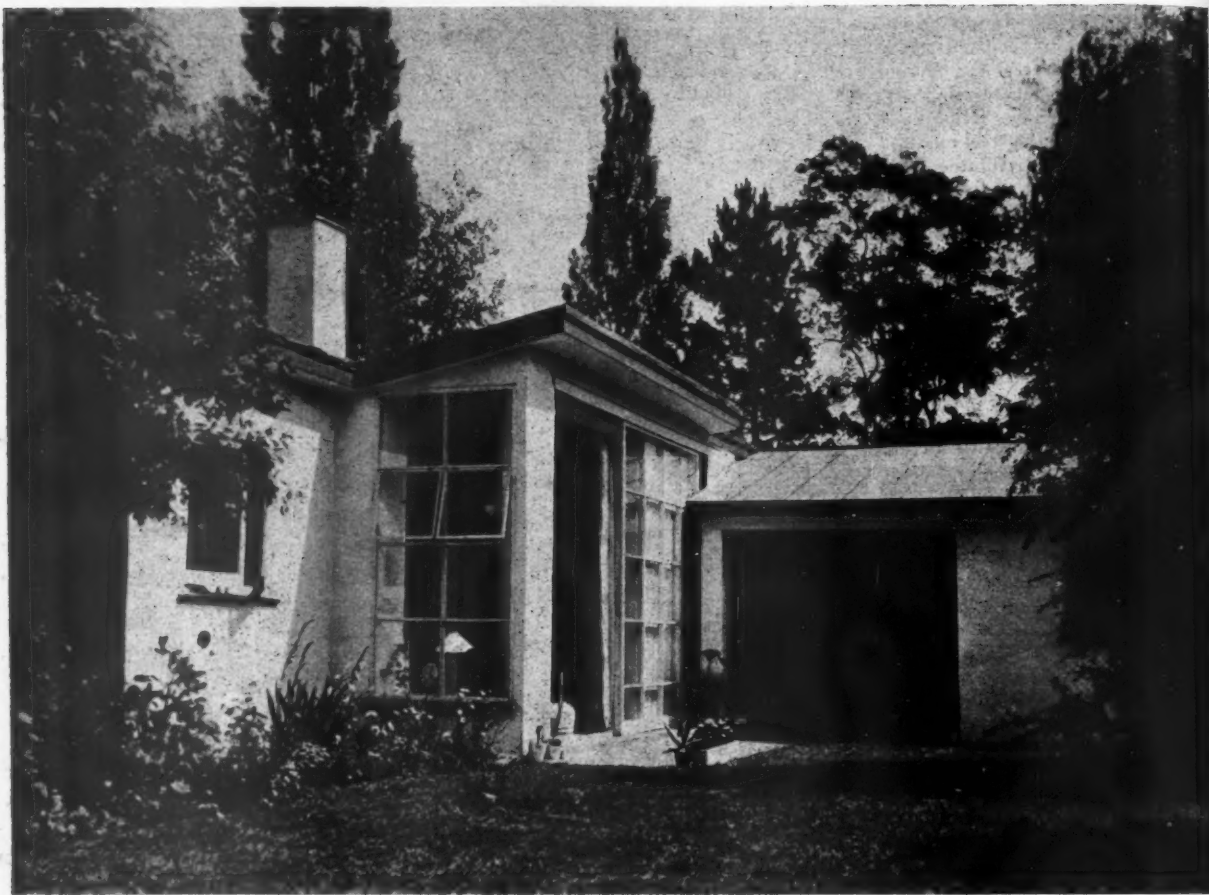
**SERVICES**—The heating is by the Plenum heating system, which provides cleansed, filtered and warm air to each floor. There is a boiler in the basement and air filtration plant on the top floor. A goods lift serves all floors. Hot water for lavatories is provided by gas boiler installation on each floor.

**CONTRACTS**—The contract price was approximately £20,000; this results in a price per foot cube of between 3s. 10d. and 4s. The general contractors were Messrs. Griggs & Son, Ltd., of Victoria Street, S.W.1. For list of sub-contractors, see page 300.



The workroom.



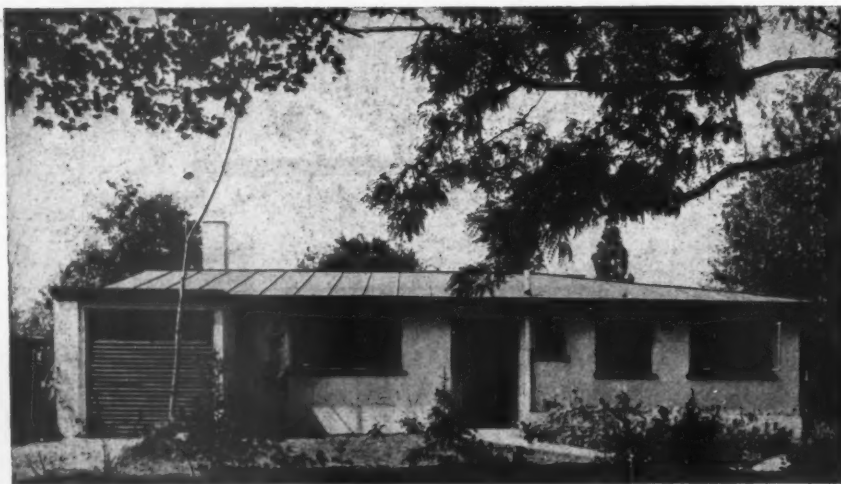


*From the south-west.*

# BUNGALOW AT PURLEY

DESIGNED BY R. G. R. HAGGARD & L. W. COOK

*The east elevation.*

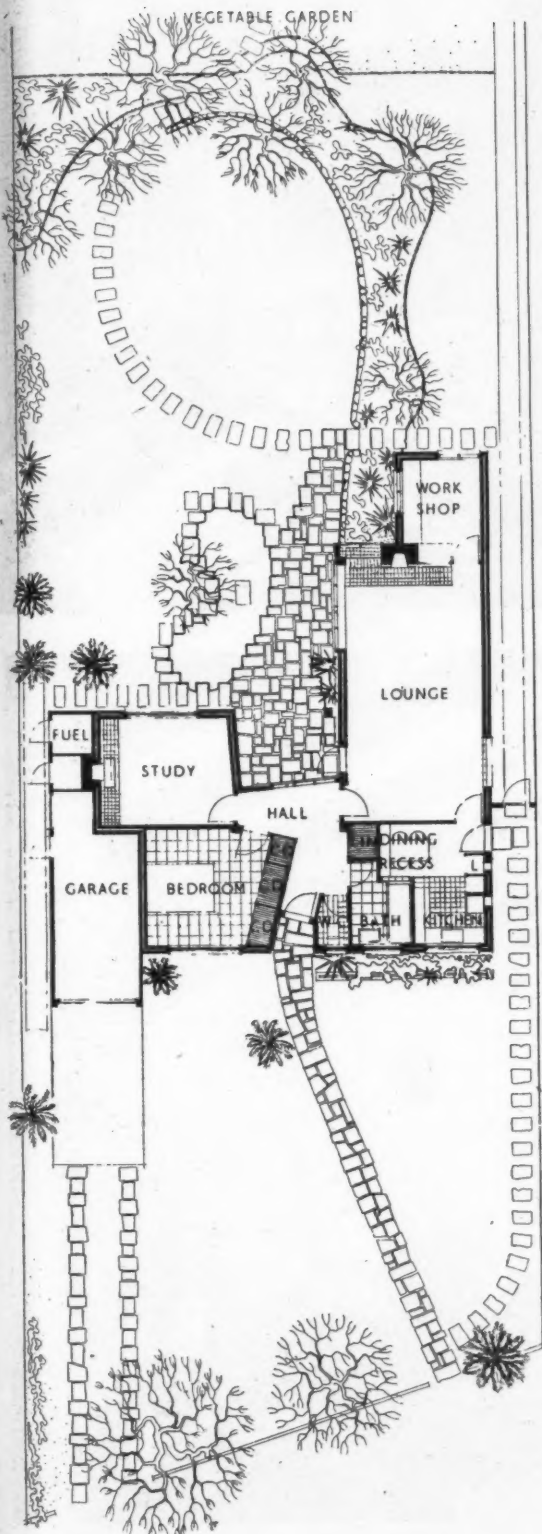


**GENERAL**—This single storey house built to a client's requirements conforms to present-day restrictions with regard to cost.

**SITE**—The long narrow plot, 49 ft. wide, runs on an east-west axis. Existing trees have been retained.

**PLAN**—The client's wish was that the living room should be large enough for table tennis and that it should face south. A small work-room was to be provided close to the living area, and a portion of the garden was to be treated as an extension of the living area and enclosed with a bank and shrubs. Another requirement was that the study could be used as a living





PLAN



The entrance hall.

room in very cold weather. A garage with a small workshop was to be attached, but was not included in the licence.

**CONSTRUCTION**—The external walls are in a dry mix concrete with a continuous cavity, made by a patent travelling form casting  $2\frac{1}{2}$  sq. ft. of 9-in. cavity concrete wall per filling. The internal walls and floor are of 4-in. concrete. The roof is of copper sheeting backed in insulating board.

**ELEVATIONAL TREATMENT**—Walls are rendered and painted with a cream cement paint.

**INTERNAL FINISH**—The floors are of waxed wood block except in the bathroom and bedroom where cork tiles are used. Part of the kitchen floor is of buff tiles. In the living room, the walls are distempered pink and coral, the rafters are left exposed and stained and the insulation board between the rafters is distempered a light blue. Other paintwork is cream.

The doors and built-in furniture are waxed mahogany. In the kitchen the walls and ceiling are cream distempered, other paintwork is wedgwood blue and cream. The bathroom walls are of black tiles, other paintwork being cream. The bedroom walls are grey and primrose yellow distemper. The colour scheme in the hall is olive green and yellow paint with white distemper on walls and ceiling. In the study the walls are buff and grey-brown. Fireplaces in the living room and study are in plain red brick, pointed cream, and edged in waxed mahogany.

**SERVICES**—The rooms are heated by open fires or electric heaters. Water heating is by a dual electric heater under the draining board. There is an extractor fan over the gas stove. The photographs were taken by G. Pinchen.

The general contractor was Hyspicon Ltd. For list of sub-contractors see page 300.

*Below and right, two views of the lounge.*



BUNGALOW AT PURLEY: BY R. G. R. HAGGARD & L. W. COOK







a b c d e  
f g h i j k  
l m n o p  
q r s t u  
v w x y z

A DRAWN LOWER CASE ALPHABET: LIGHT SANS SERIF.

Designed by Christopher Bayard for Eagle Pencil Company — Chemi-Sealed Turquoise pencils.

## 1.B8 A DRAWN LOWER CASE ALPHABET: LIGHT SANS SERIF

This Sheet, one of the series on draughtsmanship, illustrates a light sans serif lower case alphabet. Sheet 1.B7 illustrates an upper case light sans serif alphabet and numerals. Further sheets on lettering will include a bold sans serif alphabet, upper and lower case characters, serif alphabets, stencil and freehand lettering.

### Design

This drawn alphabet illustrates a sans serif lower case design free from eccentricities, intended as a reference for general drawing office practice. In a number of characteristics it differs from type faces, particularly in the case of the letters A and G. As a further reference, the Johnston sans, used for London Transport, and Gill sans are important. The relationship between the height of the letters and the width of the stems in this alphabet is twelve to one. It is therefore a light design. For the normal titling of drawings, this or ten to one should be suitable.

While it is not the intention of this series to discuss general aspects of the design of lettering a number of observations made by the designer of these characters are of interest. The observations must be taken as the personal opinion of the designer, although in most cases they are supported by the majority of informed opinion on the subject.

**A:** The example illustrated is quite different from the form generally found in type faces; it is more suitable for inclusion in a drawn alphabet.

**B:** Note this is less round than D and designed to give a more upward movement.

**C:** Like almost all the examples involving curves the form is not an elementary geometric construction, but is drawn quite freely.

**D:** Note the flattening at bottom and roundness at top of loop compared with B.

**E:** Note the freeness of the curve.

**F:** As an alternative it may be extended below the line.

**G:** Note slight flattening at top of character.

**H:** Care should be taken to avoid making this letter too thin. At the same time, its width should not exceed that shown.

**K:** This very active letter should not be killed by blunting the arms where they join the stem. They should, however, be noticeably attached.

**M:** This character should not be too wide. It is not of course made up of two N's.

**N:** Note carefully the slight angularities.

**P and Q:** Note the contrast in the form of the loops at the top and bottom.

**R:** Note angularity.

**S:** This character has been drawn in view of a preference for a narrow S. A slightly wider character is permissible but excessive width should be avoided.

**T:** An interesting variation of this character may be seen in Gill sans.

**U:** Note the smooth sweep to the bottom of this character.

**V, W, X and Z:** In lower case work these characters should never be too wide.

**Y:** Note the symmetrical disposition of the stem in relation to the arm.

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.**

Address: Ashley Road, Tottenham, London, N.17.

Telephone: Tottenham 4435-6-7.

Telegrams: Octennial, London.

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



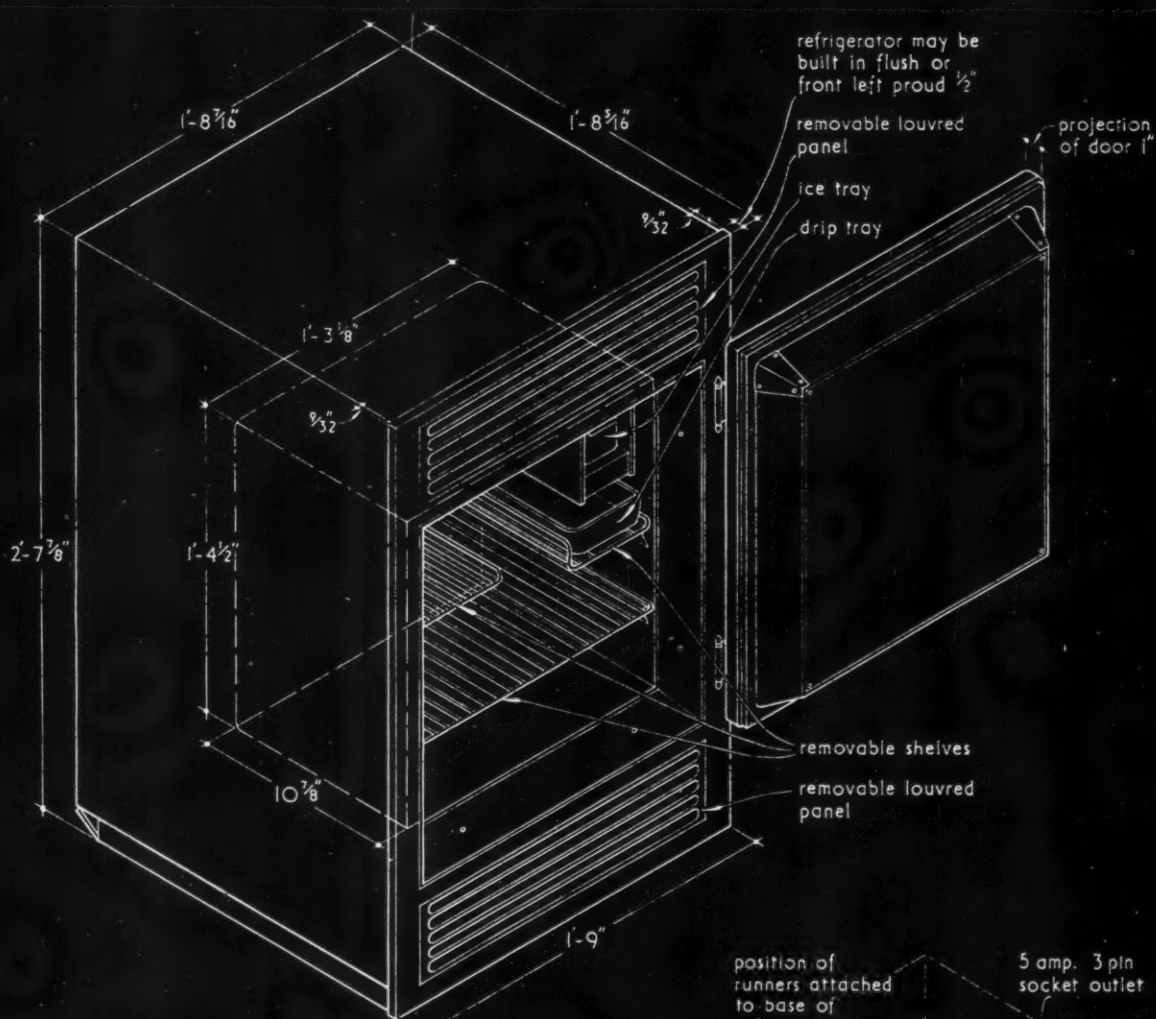




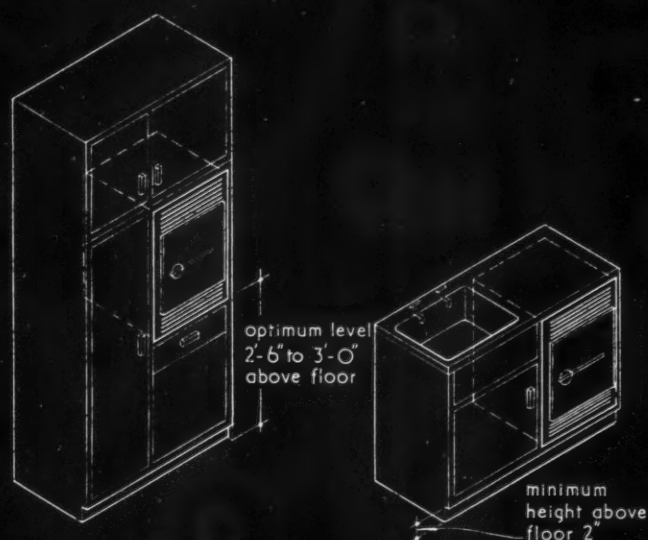
**REFRIGERATION | UNITS | ELECTRIC OR GAS**

**28. HI**

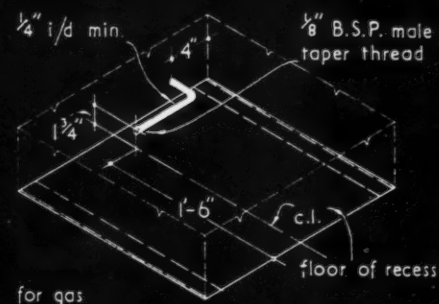
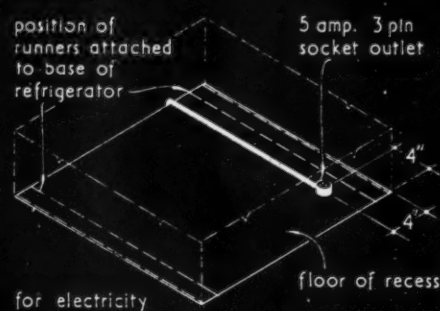
**The Architects' Journal Library of Information Sheets 104. Editor: Cotterell Butler, A.R.I.B.A.**



ISOMETRIC VIEW OF BUILT-IN REFRIGERATOR.  
(SURROUNDING STRUCTURE NOT SHOWN)



## TYPICAL INSTALLATIONS



POSITIONS FOR ALTERNATIVE SERVICE CONNECTIONS.

## 28.H1 BUILT-IN TYPE REFRIGERATOR MODEL M.151: ELECTRIC OR GAS OPERATED

This Sheet describes the Electrolux built-in type electric or gas-operated refrigerator. The refrigerator is a self-contained unit, including within its framework arrangements for air circulation over the cooling unit. The lower and upper louvres fitted in the front of the cabinet provide for this circulation and can be opened for installation connections to be made and for any necessary service. It is not necessary to provide any additional ventilation in the fitment or recess, but the whole front of the cabinet must be open to a normally ventilated room fully exposing the louvres.

Any cupboard immediately above the refrigerator recess will become slightly warm when the refrigerator is operating and should be used for articles requiring warm dry storage.

### Location

This model is designed for installation in an adequately rigid recess—not for use free-standing—to ensure correct installation, the manufacturers inspect the proposed recess before delivery.

The refrigerator should where possible be fitted with its lower edge from 2 ft. 6 in. to 3 ft. above the floor. This position provides the most convenient access to the foods stored. The cabinet should not be located immediately adjacent to a cooker or other heat-producing apparatus.

### Building-in

Two methods of building-in the refrigerator are possible—it may be installed with its face flush with the surroundings or it may be fitted with its side flanges overlapping the sides of the recess, in which case its face will project  $\frac{1}{2}$  in. from the surrounding surface. The second method is usually considered preferable since any unevenness in the joint with the surrounding surfaces is concealed by the overlap along the vertical edges. The refrigerator is fixed by screwing through the runners to the base.

### Recess

The structure in which the recess is made must be self-supporting and not dependent on the refrigerator for its rigidity. It must be sufficiently robust to take the weight of the refrigerator, which is approximately 100 lb. There must be no projections inside the recess and the floor should be smooth to allow easy insertion and withdrawal of the refrigerator. The floor must be level and square with the face of the fitment and the recess opening should be square.

The dimensions of the recess should be as follows :

*Flush fitting* : Height 2 ft. 8 in., width 1 ft. 9  $\frac{1}{2}$  in., depth 1 ft. 8  $\frac{1}{2}$  in. minimum.

*Overlap fitting* : Height 2 ft. 8 in., width 1 ft. 8  $\frac{1}{2}$  in., depth 1 ft. 8 in. minimum.

### Connections

*Electric* : A 5-amp. 3-pin socket outlet should be fitted on the floor of the recess in the position shown. The cable to the socket outlet must run straight from the rear wall of the recess or directly through the floor of the recess. It must not run from the side of the recess, where it would be fouled by the runners supporting the refrigerator. Where it is not possible to fit the socket outlet on the floor, it may be mounted on the rear wall of the recess close to the floor and 4 in. from the right-hand side.

*Gas* : The incoming supply which should be  $\frac{1}{2}$  in. minimum bore should be run in copper pipe at least for the portion of the piping inside the recess, so that there is sufficient flexibility for making the final connection to the refrigerator.

The pipe should enter the recess either

a. Through the rear wall, 4 in. from the right-hand side, and not more than 4 in. from the floor of the recess, or

b. Through the floor of the recess, 4 in. from the right-hand side. The pipe must not enter from the side of the recess, where it would be fouled by the runners supporting the refrigerator. It must terminate in a  $\frac{1}{2}$ -in. B.S.P. male taper thread, pointing left and located on the front to back centre line of the recess, 1  $\frac{1}{2}$  in. from the floor and 1 ft. 6 in. from the front.

### Consumption

*Electric* : Loading 165 watts. Average consumption 2.2 units per day.

*Gas* : Average consumption 0.14 therms per day.

### Finish

Cream enamelled with chromium-plated door furniture. Other colours can be supplied for large quantities by arrangement.

Compiled from information supplied by :

**Electrolux Ltd.**

Address : 153-5, Regent Street, London, W.1.  
Telephone : Regent 7252-5.  
Telegrams : Electrolux, Piccy, London.



*Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.*

## MARS

### Competitions

May 1948. Report upon ARCHITECTURAL COMPETITIONS submitted to the President, RIBA, by the MARS Group.

This report deals with certain aspects of Architectural Competitions. The MARS Group has studied the various documents issued by the RIBA on this subject and finds itself in general agreement with the policy of the RIBA and particularly with the formation of the Competitions Committee. It is felt, nevertheless, that in certain respects the present system could be improved and suggestions are put forward in a separate Appendix.

There are two main ways of finding the right architect for a job: (1) By appointment—(a) directly or on enquiry; (b) by submission of portfolios and interview. (2) By submission of competitive designs—(a) limited by invitation; (b) limited by selection on basis of portfolios; (c) limited according to group, nationality, age, etc.; (d) open competition.

If the methods listed under (2) above are a matter of form or obligation, or if time for an open competition is not available, a limited competition may be the right answer. If the promoters are not bound by precedent or obligation, and desire that the problem should be investigated from all points of view, or should the nature of the problem be unusual and call for originality and a fresh approach, an open competition may be very desirable. But then it must also be judged with an open mind, otherwise it is a waste of time.

If we could find a way of ensuring that the prize-winning designs in architectural competitions were also the "best" designs, then all criticism against the competition

system would disappear. The advantages of the system would then be very obvious and very great.

1. It would be an excellent and (for the promoters) economical way of finding the best solution to particular architectural problems.

2. It would give talented young architects a chance of showing what they could do, and of obtaining work and recognition.

3. It would be a means of discovering and making use of the best architectural talent. The importance of this cannot be stressed too much; it is the main need of architecture today that we should make the best use of our good architects.

4. It would be a means of educating the younger competitors and keeping the older men up to the mark.

5. Through exhibitions and publicity it would stimulate the interest of the public in architectural questions, and would thereby help to form architectural taste, a necessary prerequisite to the emergence of good architecture.

6. It would be a welcome method for government departments (fast becoming the most influential patrons of our time) to obtain an architect for important projects without the embarrassment of choosing between the rival claims of eminent architects.

These outstanding advantages of the competition system easily outweigh the disadvantages, provided the system is properly applied. The only unavoidable disadvantage is the waste of time and effort on all the unsuccessful schemes, but this concentration of effort on a given problem has its value for the competitors, the promoters, and for architecture in general, and therefore it would be wrong to say that it was entirely wasted. Even unsuccessful designs may throw new light on a problem, and may influence architectural thought. What must be insisted on, however, is that the instructions issued to the competitors are clear and unambiguous, that the judgment is conscientious and fair, and that adequate publicity is given to all the designs entered. Otherwise the system may degenerate into a way of exploiting the under-employed sections of the architectural profession.

For this reason it has been necessary to safeguard the interest of the competitors and the architectural profession as a whole by issuing rules for the fair conduct of competitions. These rules are contained in "Regulations governing the promotion and conduct of Architectural Competitions as approved by the Royal Institute of British Architects and by its Allied Societies." They have proved remarkably successful. Nevertheless we feel that they are open to criticism and improvement on the following points:—

(a) Choice of Assessor (para. 1 of the Regulations).—The crux of the matter is the choice of the assessor. He must be able to satisfy the conditions set out in the opening paragraph of this report, that is to say, he must be the type of man who is known to be able and willing to consider a problem objectively and whose appointment is likely to call forth the greatest ingenuity and skill from the competitor.

(b) Instructions for the Guidance of Assessors. (Note to para. 2 of the Regulations).—More distinction should be made between conditions which are binding and suggestions which are only for the guidance of competitors. In this connection the functions to be fulfilled by the design should be laid down rather than the accommodation to be provided, since the solution may lie in the provision of multi-purpose accommodation. It would be helpful if conditions were drawn up in three parts, each part to have the following purpose:—

Part A.—Is general for all competitions and should contain the general rules about anonymity, the marking of entries, the rules

governing non-participation of assessors, etc.

Part B.—Should contain all the conditions relating to the particular problem which are absolutely binding on the competitors if their design is not to be rejected out of hand. Any absolutely binding conditions about the size, etc., of drawings also belong to this part, unless they are only suggestions.

Part C.—Should state clearly the problem to be solved and give the information on which the solution should be based, such as surveys of site levels, water levels, tides, existing drains, etc., together with any guidance which the promoters may wish to suggest, but is not absolutely binding on the competitors. The technical information should be as complete as possible so that the work of the competitor will not be wasted by being based on incorrect or insufficient data.

(c) Assessor's Report (para. 2e).—The Assessor should issue with the award a full report in which the various designs are referred to, the stages at which the most promising were eliminated and on what counts, and finally the reasons for the award. This report should be made available to competitors and the technical press.

(d) Public Exhibitions. (Note to para. 8).—All the submitted designs should always be publicly exhibited (including those eliminated for infringing an essential condition) for a reasonable period, and adequately advertised.

(e) Designs involving new methods of construction or new materials.—If the competitors are asked to solve special structural or technical problems, or if the designs are dependent on the feasibility of the solution of such problems, the Assessor should be able to call in one or more Consultants qualified to judge the entries from this angle, i.e., they should be qualified engineers or technicians.

The point of such a provision is that when a work relies on some pioneer technical method which may be unknown to the Assessor, the competitor should be given a chance to satisfy the Assessor's consultants that his method is sound. With the rapid technical advance being made at the present time such provision may be advisable.

(f) The two stage competition.—The object of the two stage competition is to eliminate designs in which the general conception is on the wrong basis. It has proved a useful device in the past and is recommended when a problem is very open and the promoters call for general ideas on function and layout as well as for detailed solutions, and can afford the additional time incurred by this method of selection. An open competition would enable an Assessor to choose a limited number of competitors who might be invited to elaborate their ideas in more detail in the second stage.

The MARS Group has also considered a number of other methods of holding competitions, such as the appointment of anonymous Assessors, the inclusion of outstanding students on a jury or the direct election of Assessors at RIBA elections. But for various reasons it has been agreed not to include any specific recommendations under these heads in the proposed amendments.

It is the opinion of the MARS Group that the competition system should be made a powerful instrument in the hands of the RIBA and properly used it should serve the interests of both the profession and the public to such advantage that competitors would bring about a real revival of architecture. In order to encourage potential promoters, it should be the duty of the Competitions Committee, in conjunction with the Public Relations Committee, to give this system the widest possible publicity.



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## TECHNICAL SECTION

*A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.*

### INFORMATION CENTRE

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

#### 4.39 planning: urban and rural SOCIAL SURVEY, WILLESDEN

*Willesden and the New Towns.* B. Hutchinson, Social Survey. (Central Office of Information, 1947, published 1948.)

Interesting and important inquiry by Social Survey for Ministry of Town and Country Planning during winter, 1946-47, in order to obtain social data relevant to establishment of new towns and to replanning of Borough of Willesden, London. Full details of survey technique employed. Illustrated by survey maps.

In a preface it is stated that the inquiry was meant to serve two closely related objects:—(1) to provide data on the proportion and general characteristics of the Willesden population who would be willing to move out of London to a new town, and (2) to provide data needed for the preparation of the Willesden Borough Council's replanning scheme. The survey questionnaires and their application were, therefore, so planned as to make possible the simultaneous collection of this data, which consisted not only in the ascertainment of the opinion of individuals on various town planning aspects, but also of the characteristics of structurally separate dwellings, households, and the smaller family group.

Factual data collected are set out under the following headings: population growth, housing conditions, social relationships, use of social facilities, employment and journey to work, and movement to a new town.

The general character of the survey results is given in a summary at the beginning of the report. Dissatisfaction with present housing conditions is expressed by 61 per cent. of the population, the dissatisfaction being much more common amongst the young than the old, and having the highest

incidence within the middle income group. The most common complaint is overcrowding.

Almost two-thirds of the people interviewed state that they prefer living in single-class streets, this being rather more noticeable amongst the higher income groups. It thus appears to be contrary to the wishes of the majority of the population that the planning of a new town should result in the close intermixture of classes in the same street. The planning of mixed neighbourhoods, however, seems to be acceptable.

The inquiry shows that social relationships in the Borough do not bind the population to its present location, and willingness to move to a new town is not related to the presence of friends or relatives in the district.

62 per cent. of the people are willing to move elsewhere, the majority preferring Outer London, or outside London altogether. Almost half of the total population is willing to move to a new town, particularly if it were assured of a house and its present employer in the town. Reluctance to move is mostly based on preference for proximity to present workplace. The group most prepared to move is considerably younger than the general Borough population. It derives mainly from the middle income groups. Dissatisfaction with present housing conditions is one of the chief factors related to willingness to move to a new town.

The desire expressed for types of housing in the new town shows that only 4 per cent. of the adult population likely to move prefer a terrace house. 39 per cent. prefer a detached, 34 per cent. a semi-detached house, and 15 per cent. self-contained flats. 85 per cent. of housewives ask for three bedrooms or less. From this the conclusion is drawn that if, in the new town, the majority of dwellings were built on a three-bedroom standard, most of the incoming families could be accommodated with additional space available to allow for expansion in family size.

The methods employed for the compilation of the survey data, together with the questionnaires used and the instructions to interviewers, are given in detail. The report also includes 53 tables of factual data resulting from the survey.

#### 9.7 design: general DOMESTIC APPLIANCES: FUEL, POWER

*British Standards for Domestic Fuel and Power Using Appliances.* British Standard Handbook No. 5. (British Standards Institution, 1948. 12s. 6d.)

Collected short descriptions of all BS, covering domestic fuel and power appliances and accessories such as pipes, plug sockets, insulating materials, etc. For complete details the full BS must be consulted, but this handbook forms a valuable concise reference. It includes an appendix on work in hand on revisions and new specifications dealing with similar things.

#### 10.37 design: building types SCHOOL BUILDING PROCEDURE, USA

*You Want to Build a School?* C. W. Bursch and J. L. Reid. (Reinhold Publishing Cor-

poration, New York (USA)); Chapman & Hall, London. 1947. 21s.)

Book discussing procedure of administering and executing educational building programmes in USA, with particular reference to the State of California. Well-written explanatory guide based entirely on specific American requirements, and thus hardly applicable in this country. Question of school design and desirable standards referred to briefly and in general terms only. Fairly full bibliography listing references to articles in USA periodicals and to USA publications

#### 15.33 materials: applied finishes and treatments PAINTING: PLASTER AND CEMENT

*Painting New Plaster and Cement.* H. M. Llewellyn and H. J. Eldridge. (National Building Studies, Bulletin No. 2. HM Stationery Office, 1948. 1s. 0d.)

General principles. Special factors affecting decorations on plastered surfaces. Requirements of individual plasters and cements. Appendix gives classification of proprietary and other calcium sulphate plasters.

In 1939 the BRS published a report (Bulletin 29) on the decoration of new plaster and cement. A revised edition was published in 1945 as Bulletin No. 45 of the Research Association of British Paint, Colour and Varnish Manufacturers, but had only a limited circulation. That 1945 publication is now reproduced as the present bulletin.

Those who have studied the Post War Study Committee Report on Painting will not find a great deal new in the present bulletin but it compresses into 20 pages of very readable matter all the important information required for everyday use and will be found valuable for reference purposes. Throughout its pages the same key point keeps cropping up—given dry conditions paint is unlikely to give trouble but given damp conditions though proper choice of materials can go a long way to reducing trouble it cannot altogether eliminate it.

#### 15.34 materials: applied finishes and treatments PAINTING ALUMINIUM STRUCTURES

*Painting Aluminium Structures II.* (The Decorator. July, 1948. p. 71 and p. 93.)

First part deals with surface preparation and the choice of primers. Second part with finishing coats and painting practices.

Paint has a very long life on aluminium, which requires less coats for protection than are necessary on steel. Often a primer and finishing coat is enough, and in general those finishing coats suitable for other metals may be used for aluminium, but care should be taken to see that the type chosen is compatible with the type of primer used. However, the degree of exposure may justify the use of several coats. It is important to note that when aluminium is to be used in contact with dissimilar metals such as iron or steel, the individual parts of the structure should be painted before assembly to prevent moisture seeping into the joints and setting up galvanic action.

#### 16.33 materials: miscellaneous CLAY BRICKS

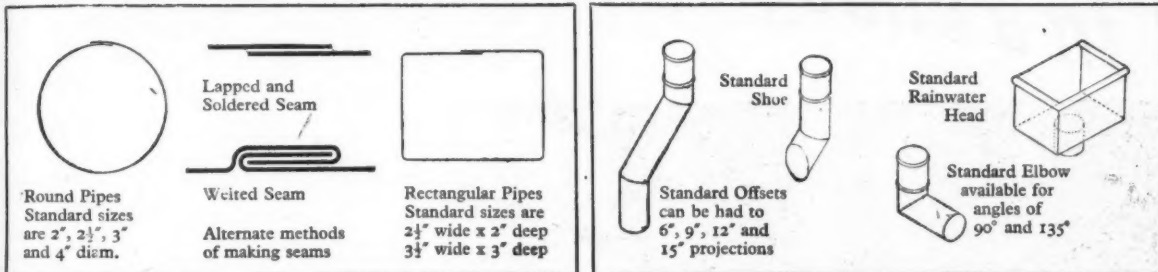
*Clay Building Bricks.* B. Butterworth. (National Building Studies Bulletin No. 1. HM Stationery Office, 1948. 1s. 0d.)

Manufacture, properties and testing of clay bricks with notes on the efficiency of brickwork. 24 pp. photographs and graphs. A valuable concise statement of the properties of clay bricks.



# DATA SHEET FOR ARCHITECTS No. 2

## ZINC RAINWATER PIPES



Zinc rainwater pipes are suitable for draining all but copper roofs. They are light and easy to handle ; and if made of sheet not thinner than No. 12 zinc gauge (23 I.S.W.G.) they are strong and have a maintenance free life of at least 40 years. They can be made to any required shape or size, and this Sheet shows round and rectangular pipes conforming to British Standard 1431 : 1948. Standard lengths of

6', 7' and 8', complete with astragals and ears, are joined by slipping the lower end of each pipe into the top of the next for at least 2". Standard rainwater heads, offsets (swan-necks), elbows and shoes are also available. Further information on rainwater pipes, gutters and other uses of zinc in building can be had from the Association together with a list of publications.

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This is the first of the bulletins to be issued in the new National Building Studies series. It comes from the Building Research Station and is by the same author as the book on Bricks and Modern Research (see 11.4, 24.6.48). It is in three parts, the first of which gives a very brief description of the different types of brick and methods of manufacture. This does not contain anything new and is really in the nature of an introduction to the other two parts.

Part II deals with properties and testing and gives a very clear picture. The effects of firing temperature on strength, water absorption, and saturation coefficient are clearly illustrated by graphs—often so much easier to understand than tables. The difference between absorption and permeability is made clear, thermal conductivity is discussed and the importance of moisture content on this property is brought out. There is a minor error in a table showing conductivities where bricks are listed in descending order of density in order to show the relationship between density and insulation value. Other properties dealt with in this part are sound insulation, constancy of volume, fire resistance, weathering and the effect of soluble salts. Altogether Part II gives all the essential background knowledge about clay bricks in 13 pages.

Part III takes the information of Part II and shows how it can be applied. The comparative unimportance of brick strength is mentioned; rain exclusion is discussed and the poor value of bricks as thermal insulation is noted. The section on weathering is of particular interest and explains why it is so difficult to make any quick estimate of the probable resistance of brick to frost but even though the final answer to this has not yet been obtained and there is no satisfactory method yet of dealing with it in a standard specification there is a good deal of sensible advice. Finally the effect of soluble salts, either as efflorescence or in the form of the more destructive sulphate attack is described.

This is a valuable publication which should be read at least once by students and kept for office reference.

### 17.34 construction: general STRUCTURAL STEEL

*The Structural Use of Steel in Buildings.* BS C. of P. 113:1948. (British Standards Institution. 7s.)

Materials; permissible stresses in mild steel and high tensile steel; design of cased and uncased beams and struts, purlins, plate girders, filler joists; fire protection; bolted connections; shop fabrication; erection; inspection; maintenance; loading tests.

The draft of this code was published for comment in 1946 and was reviewed in No. 2,751: 3.10.46. The final code contains many revisions in the light of suggestions from the structural engineering profession and industry.

The permissible stresses recommended are based on a guaranteed yield point. The code is not applicable to BS 15, in which the yield point of mild steel is not guaranteed. The new edition of BS 15 (in preparation) referred to in the code will apparently specify a minimum yield point. The basis stresses which are to be modified by coefficients according to the particular conditions of a structural member have therefore been increased as against the draft code, and are now as follows:—

Axial stress in tension	9.0 t/sq. in.
Bending stress	10.0 "
Shear stress	6.5 "

Fifteen figures illustrate typical examples of stanchions in multiple and single storey buildings in order to assist designers to determine the effective length which is

often not entirely easy without guidance.

The following sentence deserves special attention as a departure from the traditional spirit of British Codes and By-laws:—

"While the stresses and other requirements of this Code should be regarded as maximum limits, the purpose in design should be to reach these limits in as many parts of the structure as possible; and to adopt a layout such that maximum structural efficiency is attained for a minimum use of steel."

The code is still confined to simple design, since it was felt that further research and experience should be available before issuing a code for semi-rigid and rigid design. Welding will be dealt with in a sub-code.

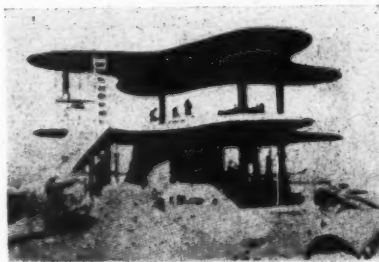
No doubt, research and experience will necessitate a revision of this code within the anticipated period of five years, but already in its present form it is a very useful document which will raise the standard of structural design and, at the same time, allow a considerable saving in steel, provided the Government Departments concerned with building and the local authorities accept it and do not insist on antiquated by-laws.

It is regrettable that the code does not contain a section on definitions and an index in the style of the code for normal reinforced concrete in buildings (see No. 17.30). In this respect a uniformity in all codes of the general series would be desirable. A further reason for criticism is the high price (7s. as against 3s.) of the draft. Although it has been assumed in drafting this code and its sub-codes that the design is entrusted to chartered structural or civil engineers, experienced in the structural use of steel in buildings, the code should be made easily available to every student, draughtsman, and architect-interested in the use of structural steel. Instead of a price which will be prohibitive for many people who should be well acquainted with the code, only a nominal charge should be made.

### 20.90 construction: complete structures RESTAURANT ON STILTS

*A Beach Club to Sell a View.* (Arch. Rec. [USA], July, 1948, pp. 136-9.)

Unusual design for a small drink-and-dance club at Mar del Plata, Argentina. Both first floor and roof cantilevered from four columns on all four sides. The four-pronged plan permits each table to have window-location; and gives each window seat an arc of vision of almost 180 degrees.



Cantilevered floor and roof. See 20.90.

### 24.96 lighting FACTORY DAYLIGHTING

*The Natural Lighting of Industrial Buildings: Factory Planning, Part II.* (Department of Labour and National Service in Australia.)

Principles and design factors; standards; different types of roof (reference cost, lighting, ventilation); lighting and plant lay-out;

sunlight control; glare and brightness control; industrial colouring; maintenance and safety. Very good manual; illus. 44 figs. and 19 diagrams.

There is a little American literature on factory daylighting, but this Australian effort is the first general publication. Its foundations are in the work of BRS in England, with some American trimmings. Despite its Australian bias, it is a good manual for use anywhere in temperate climates.

The principles and design factors are familiar from *Post-War Building Study No. 12, Lighting of Buildings*, but the manual includes recommended daylight factors classified as follows: Rough Work, 1-2 per cent.; medium, 2-4 per cent.; fine, 4-8 per cent.; and extra fine, 8 per cent. A good detailed breakdown is given in an appendix.

The references to roof types are mostly new and interesting. There is some American material on natural ventilation, but graphs showing how ceiling height and glass area affect costs are freshly worked out. They seem to find it as difficult as we do to understand why Americans have gone over so completely to monitors, but they mention the arguments that the glass is easier to clean, and that light from two sides gives more freedom in placing machinery. With light from one side, as in north-light roofs, production lines have to travel at right angles to the glazing, and machinery has to be carefully laid out.

Remarks on sunlighting are not definitive. They say some industries like textiles and printing must not have it, but they are doubtful how to exclude it. Special glass, external venetian blinds and awnings are mentioned, but there are no recommendations.

The chapters on brightness ratios and colour in industry are competent reviews of familiar material.

The BRS daylight protractors are being sold in Australia, and the Burnett sunlight diagrams have been modified for Australian use.

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

## QUESTIONS AND ANSWERS

### 2960 DAYLIGHT FACTOR: SCHOOLS

**Q** Can you tell me the required daylight factor for school classrooms and the recommended heights for Assembly Halls and dining rooms (schools), against room lengths and widths?

**A** The required daylight factor for school classrooms is a minimum of 2%. In *Post War Building Study No. 12* it was recommended that this minimum should be 5%, with an increase of 10% for special purposes. That was later reduced by the Statutory Regulations of the Minister of Education to the 2% mentioned above. For the recommended heights of Assembly Halls and Dining Rooms, *Post War Building Study No. 2* gives on page 15 the heights of various rooms according to their widths, working on a unit of 8 ft. 3 in.

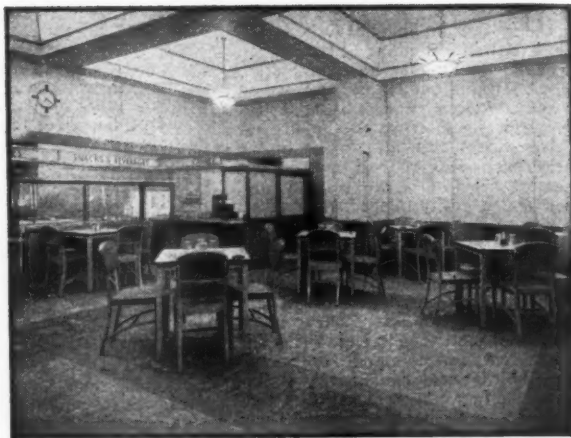


## SEMASTIC DECORATIVE TILES IN RESTAURANTS

**I**N planning floors for restaurants, the architect has not only to appreciate the practical problems peculiar to catering establishments but—if he intends effectively to introduce pattern and colour—has to plan with due regard to the disposition of tables and chairs.

There is little scope for large-scale design unless the arrangement of furniture is fixed and permanent service aisles established. That is why the marine architect with fixed furniture has an advantage over the architect ashore who must rely on texture and repeating motif on a scale small enough to be attractive in the incidental spaces between tables, which are constantly moved about.

For this reason floor tiles, with the infinite variety of chequered patterns which they offer, have always been a popular proposition but there has been an increasing



LIVERPOOL STREET STATION BUFFET  
Photograph by courtesy of British Railways

aversion to their use because of their coldness, hardness, slipperiness and tendency to crack-up under constant hard wear. These prejudices are being swept away by the introduction of Semastic Decorative Tiles. Made from a unique thermoplastic composition of synthetic resins, fibrous mineral fillers and rich non-fading pigments, these tiles are not only fairly quiet and very comfortable to walk on, non-slip, easy to clean and exceptionally hard wearing, but, by virtue of their comparatively small size and wide range of plain or marbled colours, they are particularly suitable for the creation of pattern in the restaurant floor. Alternating colours in chequered patterns permit of almost unlimited variation for small rooms. Squares formed of four or more tiles together and separated by strips of contrasting colour provide that effect of scale so necessary in the larger room.

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

## THE INDUSTRY

### HIGH FREQUENCY HEATING

Radio frequency heating methods have been referred to from time to time in these notes, mainly in relation to industrial processes, and particularly with reference to the rapid setting of glues. More recently, however, an office desk, badly infested with lyctus beetle, was submitted to a dose of high frequency treatment, after which "puffs of steam proclaimed that the beetles had been vaporised." Allowing for a reasonable amount of poetic licence, it seems more than probable that the beetles had, in fact, been destroyed, and very probably their eggs as well. Radio frequency currents act in a peculiarly selective way; in a piece of timber, for example, the moisture in it is heated far more rapidly than the timber itself. Pests in furniture, therefore, as they will contain a great deal of moisture, will presumably be quickly raised to a lethal temperature. But any moisture in the furniture will be affected in the same way, and the treatment must therefore be applied with discretion. The report of the experiment, in fact, admits that "the polish of the desk was blistered," but this does not detract from its interest. Phillips Industrial, who carried it out, do not suggest that it was done in anything but a spirit of mild curiosity, nor do they make any claim to have solved the problem in a revolutionary way. None the less, there are possibilities in their idea, which may perhaps be applicable to vermin infested houses.

The normal method of gassing infested houses with cyanide is reasonably effective, but the process takes some time. Papering over the cracks in windows and doors must be done thoroughly, and in terraces the houses on either side of the one under treatment must be evacuated as well, since the gas will inevitably leak through the walls. This means that alternative accommodation will have to be found for two days for at least three families, often more. High frequency equipment is admittedly rather elaborate and not very easily transportable, but if the job could be done in a day the problem and expense of alternative accommodation would be overcome, and there should be a saving in cost.

High frequency may also turn out to be valuable for the eradication of dry rot. The normal technique involves the heating of walls with a blowlamp to kill the fungus, and it is always added that "the wall must be made really hot." Vague though this suggestion may be, few operatives have the patience to make the wall hot enough, and the fungus remains alive. High frequency would concentrate the heat on the damp fungus and should kill it in a reasonably short time. Admittedly, a good deal of experimental work will have to be done, but it would seem to be worth doing. (Phillips Industrial, Ltd., Century House, Shaftesbury Avenue, London, W.C.2.)

### INDUSTRIAL WATER HEATING

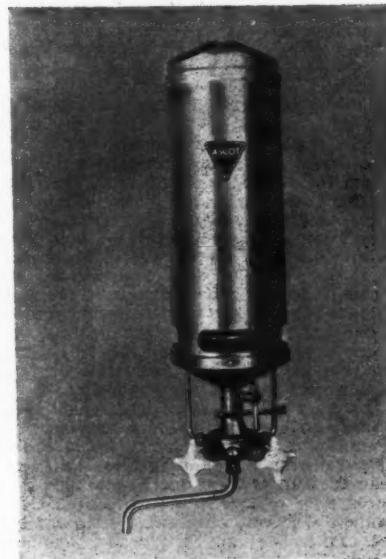
The manufacturers of gas appliances have suffered, rather unfairly, from purchase tax variations, the general impression being that the tax has to be applied to most electrical heating appliances in order to keep the

winter load down, and a corresponding tax has thus been applied to gas equipment, as it would be unfair to discriminate between the two forms of heating. In less than two years the tax has been altered from 66 to 75 to 100 per cent., and is now back again at 66 per cent., arbitrary jumps which must make the manufacturers' life very difficult. Fittings which can be classified as "industrial," however, are exempt from tax, and Ascots have produced two of their smaller heaters in a slightly cheaper finish for industrial purposes. The sink heater illustrated here is priced at £7, and the boiling water heater is available at £10 15s. Finish is in silver grey aluminium with lacquered brass fittings and immediate delivery is available for installation in factories, shops of all kinds, stores, hospitals, schools, public houses, dairies, restaurants, milk bars, canteens, ice creameries and kindred establishments, but unfortunately excluding professional and commercial offices. (Ascot Gas Water Heaters, Ltd., 43, Park Street, London, W.1.)

### FORMWORK FOR WALLING

The illustration on this page shows the Hyspecon walling machine which is a temporary formwork unit for the production of 9 inch walls with a 2 inch cavity in sections 2 ft. 6 in. long by 1 ft. 3 in. high. The equipment consists of three forms, the one illustrated here, a corner unit with a continuous cavity, and a further unit for producing 4 inch solid walls. These meet the majority of normal building requirements, but machines can be supplied for all thicknesses of walling, and a Hyspecon Multi-form is also in course of production; this is adjustable for different thicknesses of walling.

A dry concrete mix of about 6 to 1 is used, and the form is stripped as soon as the ramming is completed. When this is done, the sides are opened by hand levers, and the machine is withdrawn until almost clear of the wall just made, closed up again and the procedure repeated until the entire first course is finished. After 12 to 24 hours (depending on the cement and other conditions) the machine is run on top of this for the production of the next course.



*The Ascot sink heater for industrial use, is exempt from purchase tax. It is priced at £7.*

It is possible to use either rod or mesh horizontal reinforcement, and any length of reinforcement can be used; these lengths can be lapped in the usual way, giving a continuously reinforced wall. The texture of the finished walling can be varied by the amount of sand in the mix from an almost smooth surface to a comparatively rough one which will be more suitable for providing a key for plaster. Although there are no vertical joints in the accepted sense of the term, slight variations in the material or the water content may cause an apparent colour variation in the finished wall. The horizontal joints are generally noticeable, owing to the bottom of the machine not fitting tightly on the course below. This



*Hyspecon walling machine, a temporary formwork unit for the production of 9 in. walls with a 2 in. cavity in sections 2 ft. 6 in. long by 1 ft. 3 in. high. The equipment consists of three forms: the one illustrated here, a corner unit with a continuous cavity, and a further unit for producing 4 in. solid walls.*

usually results in a thin ridge along the horizontal joints.

Internally, plaster is applied in the usual way. Externally, any of the accepted rendered finishes can be used.

Clinker, vermiculite, foam slag, pumice, saw-dust, etc., can be used in the machines to give a walling of high thermal insulation. The degree of tamping necessary is proportional to the weight of the aggregate used, so that with light, fragile materials, such as vermiculite, the amount of tamping necessary is not sufficient to crush the aggregate. With materials giving a wall of low structural strength, but with a good thermal insulation factor, the construction of the wall in two different materials is recommended—one leaf in the light-weight concrete, the other in ballast concrete, the latter leaf carrying the structural load. This method of construction presents no difficulty.

The machines are also quite suitable for *pise de terre* and stabilized earth construction. Structural requirements would probably call for a wall of greater thickness than the standard, and special machines can be supplied to give any required thickness to the two leaves of the wall. Alternatively, the cavity core can be removed from the standard 9 in. machine, giving a solid wall 9 in. thick.

Cost figures are based on the fact that one man can make 26 feet run of walling, 1 ft. 3 in. high, in an eight-hour day. This includes operating the mixer, wheeling concrete up to 20 feet, and operating the machine. This is a minimum figure, as it is possible to make up to 35 feet after a few days' experience. It must also be appreciated that the use of one man for all operations does not represent the most efficient way of operating. The use of two machines with one man on each, a third man wheeling and a fourth on the mixer,

will represent a more economical use of the equipment, and should give further saving.

Materials for 408 ft. super of cavity walling.

Mix of 6 to 1.

11 cu. yds. ballast at 18s. 3d. .. £10 9s. 0d.

2 tons cement at 70s. 0d. .. £7 0s. 0d. Per ft. super

£17 9s. 0d. = 10½d.

26 ft. by 1 ft. 3 in. = 32½ ft.

8 hrs. at 2s. 4d. = 18s. 8d.

6½d.

1s. 5d.

foot super

(Hyspecon, Ltd., 6, Stanley Park Road, Wallington, Surrey.)

## Announcement

The Ministry of Works announces that arrangements are being made with the Cement Makers' Federation for the import from Germany of substantial quantities of cement and cement clinker which will augment the supplies available for areas normally served by British cement. The first shipments are expected soon and will go to Scottish ports.

## Buildings Illustrated

Factory in Sebastian Street (pages 290-291). Architect, Howard Kelly, A.R.I.B.A. General contractors, Messrs. Griggs & Son Ltd. Quantity Surveyors, Young & Brown. Sub-contractors: reinforced concrete work, Trussed Concrete Steel Co. Ltd.; artificial stone, Empire Stone Co. Ltd.; asphalt roofs and floors, The General Asphalt Co. Ltd.; roof insulation, Stillite Products Ltd.; patent glazing, Mellows & Co. Ltd.; pavement lights and roof lights, Haywards Ltd.;

central heating and air conditioning, Brooks Air & Heat Systems Ltd.; electrical wiring and installation, McGoff & Vickers Ltd.; metal windows and doors, Crittalls Ltd.; lift, Keighley Lifts Ltd.; glazed tiling, Carter & Co. Ltd.; sanitary fittings, Shanks & Co. Ltd.; internal office partitions, Frederick Braby & Co. Ltd.

Bungalow at Church Road, Purley (pages 292-294). Architect, R. G. R. Haggard, A.M.I.C.E., A.M.P.T.I., and L. W. Cook, A.R.I.B.A. General Contractor, Hyspecon Ltd. Sub-contractors: special roofings, Broderick Insulated Structures Ltd.; glass, Rayner, Davies & Co. Ltd.; glass bricks, Pilkington Bros.; woodblock flooring, Horsley Smith & Co. (Hayes) Ltd.; patent flooring, cork tiles, Aubanel & Alabaster Ltd.; tiles, Langley, London; gas fixtures, Cannon gas cooker, gasfitter, Croydon Gas Co. Ltd.; electric wiring, R. Meyrick; electric heating, Creda water heater; door furniture, Yale; metal casements, Williams & Williams Ltd.; joinery, large windows and cupboards, A. E. Eymers & Co. Ltd.; distemper, Murray & Jones Ltd.; water supply, Sutton Water Co. Ltd.

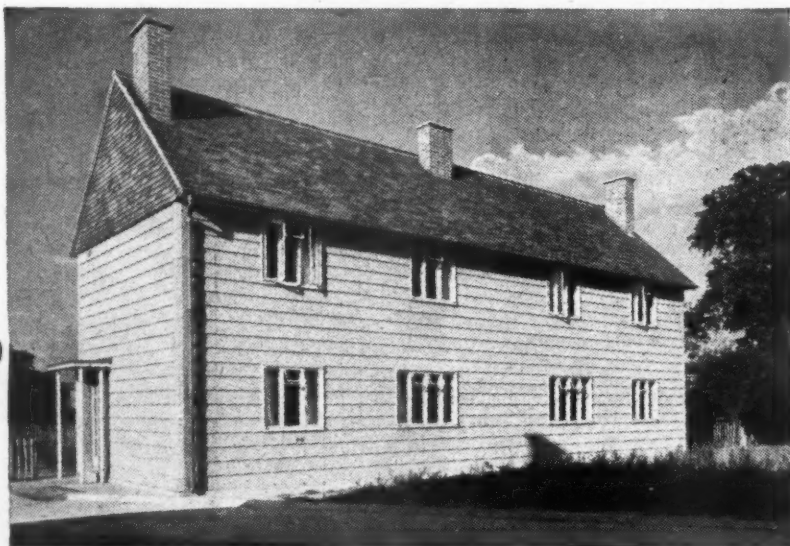
## Corrigenda

In the Industry article of our issue for September 9, the humidity output of the "Air Flow" ventilating unit was given as 5 per cent. This was incorrect, and the figure should be 55 per cent.

In the advertisement of the Brixton School of Building on page lii of our issue for September 2, the dates given for enrolment and commencement of the evening classes are incorrect. They should read: Enrolment, September 20 to 24; commencement, September 27.

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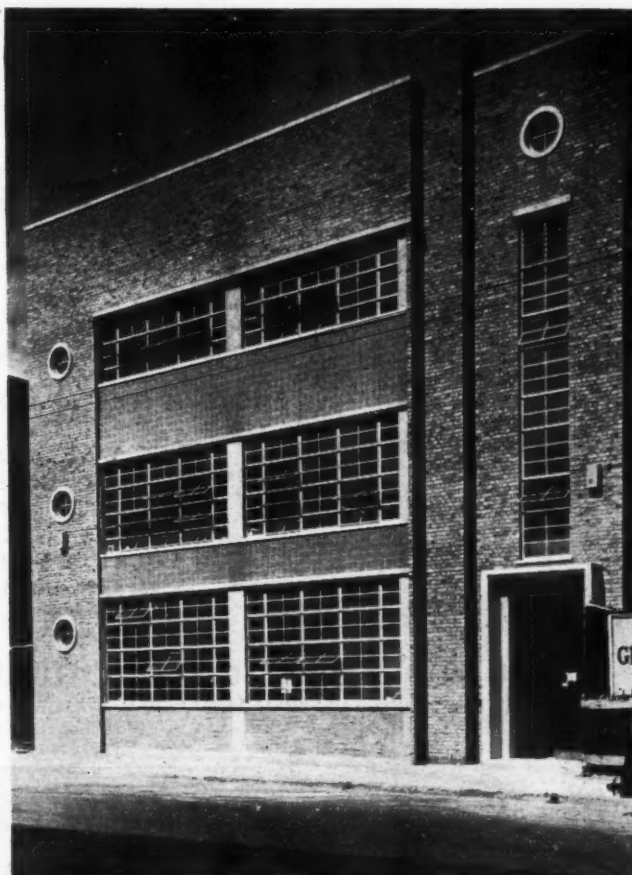
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*Illustrated in this issue p. 290*





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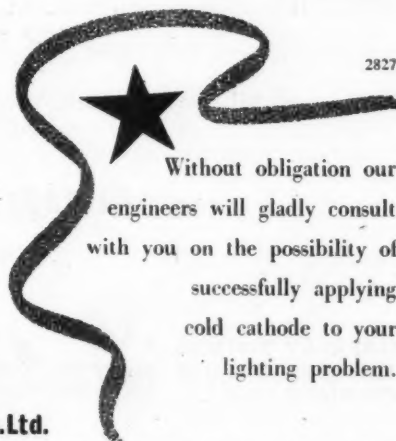
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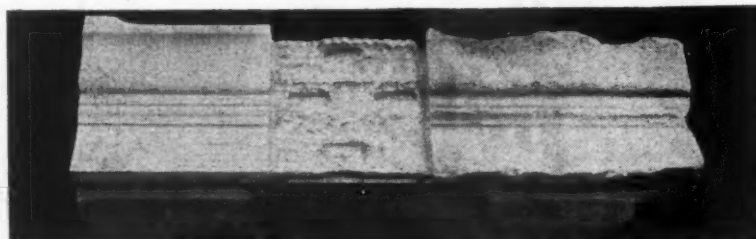
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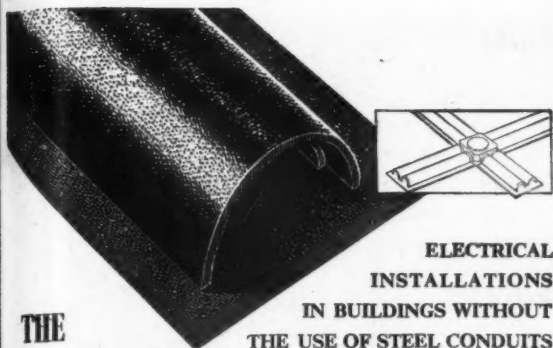
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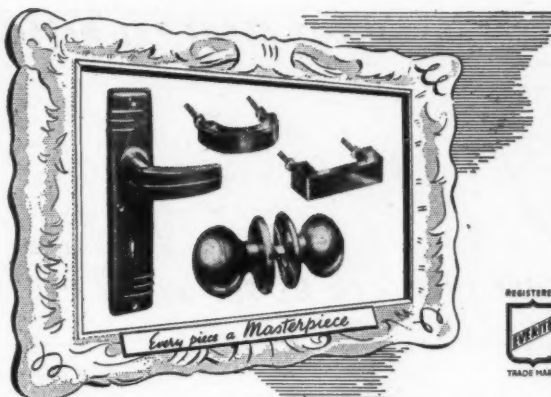
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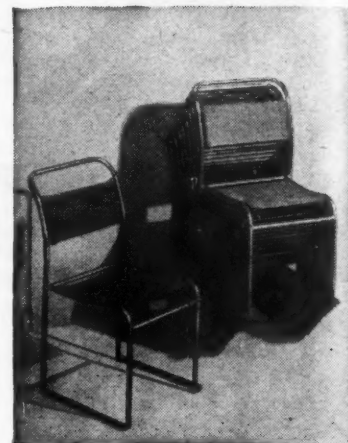
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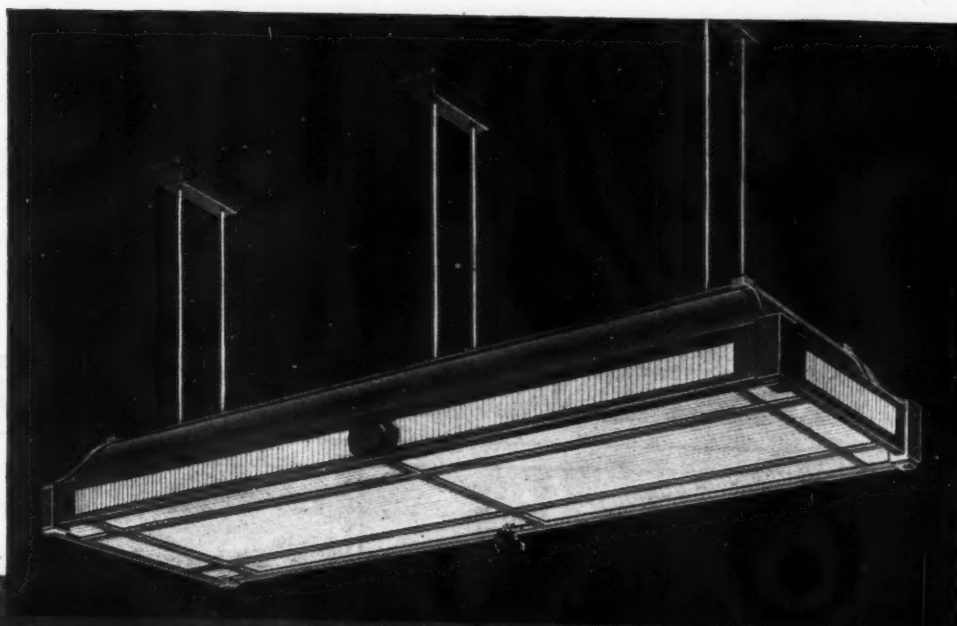


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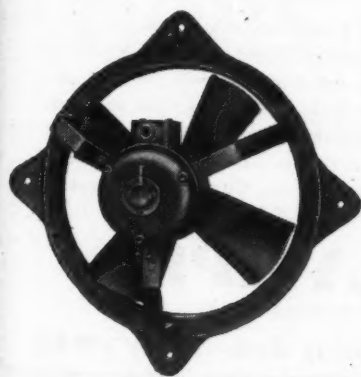
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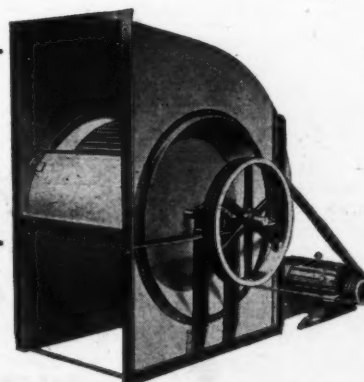
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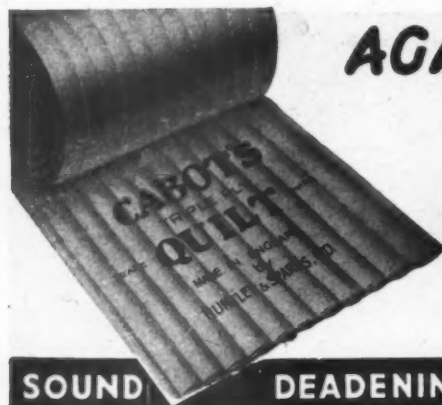
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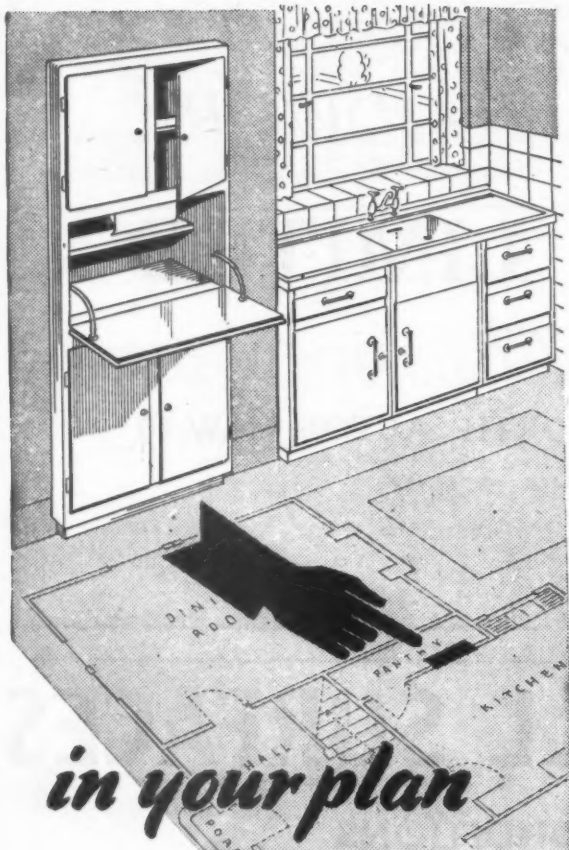


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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

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

## Public and Official Announcements

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WREN PARK, WHYTELEAF. Tel.: Uplands 0935. 991

**LONDON COUNTY COUNCIL.**  
**HOUSING AND VALUATION DEPARTMENT.**  
**ARCHITECTURAL ASSISTANTS.** Applications are invited for positions of Architectural Assistant, at salaries of up to £580 a year. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the Department on the occurrence of vacancies. Engagement will involve Superannuation contributions at the rate of 6 per cent. of salary.

Successful candidates will be required to undertake 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 foolscap envelope required). Canvassing disqualifies. (870).

**CUMBERLAND COUNTY COUNCIL.**  
**PLANNING ASSISTANT.**  
Applications are invited for the above appointment, in the Department of the County Planning Officer.

The commencing salary for this post will be within Grade V of the National Scales (£520-£570 per annum). A car allowance for an 8 h.p. car (at present £20 per annum, plus a mileage allowance) and subsistence allowance will be paid in accordance with the County Council's scales for the time being in force.

Candidates should be Members or Associate Members of the Town Planning Institute, and a qualification in Architecture or in Engineering in addition will be an advantage.

Applications must be fully conversant with the Town and Country Planning Acts, and Orders made thereunder, and be fully competent to carry out field work, plotting and preparation of plans, and have had previous experience with a Planning Authority.

The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to undergo a medical examination.

The appointment will be terminable by one month's notice in writing on either side. Application forms for this appointment are obtainable on request from the County Planning Officer, Citadel Chambers, Carlisle, to whom completed applications, accompanied by a copy of one testimonial and the names and addresses of two referees, and endorsed "Planning Assistant," should be forwarded, using the prescribed form, to arrive not later than first post on the 27th September, 1948.

G. N. C. SWIFT.

Clerk of the County Council. 1762

**BOROUGH OF WISBECH.**  
**BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**  
**APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant, Grade III, A.P.T. Division of the National Scale, £450-£515 to £496. Applicants should have had general architectural experience. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1937, and to the successful candidate passing a medical examination, and to one calendar month's notice on either side.

The person appointed will be required to devote the whole of his time to the duties of the particular office.

Applications, suitably endorsed, stating age, qualifications and particulars of experience, with names of two persons to whom reference may be made, should be received by the undersigned not later than Friday, 8th October, 1948.

J. E. SIDDALL.

Town Clerk. 1765  
Town Hall, Wisbech, Cambs.  
8th September, 1948.

## WARWICKSHIRE COUNTY COUNCIL.

## COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments:—

(a) CHIEF PLANNING ASSISTANT. Salary £742 10s. by annual increments of £27 10s. to £797 10s. per annum.

(b) SENIOR PLANNING ASSISTANT. A.P.T., Grade VII (£635 to £710 per annum).

(c) TWO PLANNING ASSISTANTS. A.P.T., Grade V (£520 to £570 per annum).

(d) TWO PLANNING ASSISTANTS. A.P.T., Grade II (£420 to £465 per annum).

Applicants for post (a) must be Corporate Members of the Town Planning Institute, and have had considerable experience in the preparation of planning schemes. Experience in the control of staff is essential. The successful applicant will be required to co-ordinate the work of the senior area planning assistants in the preparation of the County Development Plan.

Applicants for post (b) must be Corporate Members of the Town Planning Institute. The person appointed will be in charge of the work connected with one section of the Development Plan.

Applicants for post (c) must have good general planning experience, and preference will be given in one case to applicants with experience of development control.

Applicants for post (d) will be required to assist in the preparation of the Development Plan.

The appointments are subject to 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 J. J. Brooks, M.T.P.I., M.I.Mun.E., County Planning Officer, Shire Hall, Warwick, to whom applications should be sent not later than the 2nd October, 1948.

Canvassing, directly or indirectly, will be a disqualification.

L. EDGAR STEPHENS.

Clerk of the Council. 1759  
Shire Hall, Warwick.  
30th August, 1948.

**BOROUGH OF SOUTHGATE.**  
**BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**  
**APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.**

Applications are invited for the above-mentioned appointment in the Department of the Borough Engineer and Surveyor.

The salary will be Grade VII of the A.P.T. Division of the National Joint Council Scales, plus the appropriate London weighting.

Applicants must be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification.

Forms of application may be obtained from the Borough Engineer and Surveyor, and should be returned to the undersigned not later than 9 a.m. on Monday, the 4th October, 1948.

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

GORDON H. TAYLOR.

Town Clerk. 1788  
Town Hall, Palmers Green, London, N.13.  
14th September, 1948.

## CARDIGANSHIRE COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff in the above Department in accordance with the National Scale of Salaries:—

ONE ARCHITECTURAL ASSISTANT. Grade II, A.P.T. Division.

ONE ARCHITECTURAL ASSISTANT. Grade I, A.P.T. Division.

Applications, stating age, qualifications, experience, present position and salary, together with two copies of recent testimonials, and the name of one referee, should reach the undersigned not later than 4th October, 1948.

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

IVOR EVANS.

Clerk of the Council. 1791  
County Council Offices, Aberystwyth.  
7th September, 1948.

## WEST SUFFOLK COUNTY COUNCIL.

## QUANTITY SURVEYOR, in the County Architect's Department, on A.P.T., Grade VI (£520-£560).

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Candidates should have experience in the preparation of Bills of Quantities, estimates and valuations, and settlement of accounts.

The appointment will be terminable by one month's notice in writing on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937.

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

Forms of application may be obtained from the undersigned, by whom applications, accompanied by three recent testimonials, should be received not later than Tuesday, 5th October, 1948.

L. G. H. MUNSEY.

Clerk of the County Council. 1809  
Shire Hall, Bury St. Edmunds

## BOROUGH OF SWINDON.

Applications are invited for the following appointments on the staff of the Borough Architect and Planning Officer:—

(a) ASSISTANT ARCHITECT (PLANNING), at a salary in accordance with A.P.T., Grade VII (£635-£710) of the National Scales. Applicants must have good planning experience, and preference will be given to members of the Town Planning Institute, who should possess in addition a recognized qualification in architecture.

(b) BUILDING SURVEYOR at a salary in accordance with A.P.T., Grade IV (£480-£525) of the National Scales.

Applicants for this post should have had considerable experience in building inspection, Town Planning and Bye-Law Legislation, inspection of premises for fire protection and inspections under the Factories Acts. Preference will be given to persons holding appropriate qualifications.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination, and are terminable on one month's notice on either side.

Applications, on forms obtainable from me, must be returned not later than 30th September, 1948.

Canvassing in any form will be deemed a disqualification.

D. MURRAY JOHN.

Town Clerk. 1781  
Civic Offices, Swindon.  
9th September, 1948.

## EAST SUFFOLK COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

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

(a) GRADE A ASSISTANT ARCHITECTS. A.P.T., Grades V and VI. Consolidated salary, £520-£660.

(b) GRADE B ASSISTANT ARCHITECTS. A.P.T., Grades III and IV. Consolidated salary, £450-£525.

(c) BUILDING SURVEYORS. A.P.T., Grade II. Consolidated salary, £420-£465.

The commencing salary in the grades will be fixed according to the qualifications and experience of the candidate.

Applicants for appointments (a) must be Registered Architects, and preferably Associates of the R.I.B.A. The work to be dealt with is that normally carried out by a Local Authority. Candidates must be quick and accurate draughtsmen, capable of carrying a job through in all its stages and with a sound knowledge of design, building construction and specifications.

Applicants for appointments (b) must be Registered Architects, and preferably members of the R.I.B.A. They must be quick and accurate draughtsmen, fully conversant with 1/4 in. scale, half inch and full size details for all types of buildings normally dealt with by a Local Authority, and have a good knowledge of design, construction and specifications.

Applicants for appointments (c) must have a first-class practical knowledge of the Building Trade, with experience of supervision of works in progress. They must be thoroughly conversant with Bills of Quantities, specifications and drawings, be able to draft normal building reports, and should preferably hold an appropriate Surveyor's Institution Examination, City and Guilds Certificate, or be a member of the Incorporated Clerks of Works' Association.

Duties will include supervision of minor new works, alterations and additions to buildings, the inspection and maintenance of buildings, the writing of reports and specifications for minor repairs and redecoration of County Buildings generally.

The successful applicant will be required to provide and maintain a car in connection with his duties, for which the appropriate National Scale will be paid.

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

Applications, stating age, qualifications and full details of previous experience, accompanied by copies of three recent testimonials, should be sent to H. J. Symcox, F.R.I.B.A., County Architect, County Hall, Ipswich, not later than 4th October, 1948.

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

G. C. LIGHTFOOT.

Clerk of the Council. 1782  
County Hall, Ipswich.

## CITY OF GLOUCESTER.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT. Salary in accordance with Grade V of the A.P.T. Scales (£520-£570).

Applicants should have experience of Local Authority buildings, and must be Registered Architects, preferably members of the R.I.B.A.

The selected candidate will be required to pass a medical examination, and the appointment will be subject to one month's notice on either side; the provisions of the Local Government Superannuation Act and the National Scheme of Conditions of Service for Local Government Officers will apply.

Applications, stating age, training, qualifications and experience, and enclosing copies of three recent testimonials, should be sent to A. Morgan, City Architect, Suffolk House, Greyfriars, Gloucester, not later than the 15th October, 1948.

**ARMAGH COUNTY COUNCIL.  
APPOINTMENT OF ASSISTANT PLANNING OFFICER.**

Applications are invited for the post of Senior Assistant Planning Officer in the Planning Department of Armagh County Council, Northern Ireland.

Candidates should be at least Associates of the Royal Institute of British Architects, or hold exempting University School Diploma, must be Associate Members of the Town Planning Institute by examination; and must possess at least three years' experience in planning work under a Planning Authority.

The salary attached to the post is £425×£25-£600 p.a., with appropriate cost-of-living bonus, and the successful candidate may be placed at a point on the salary scale higher than the initial figure, according to his qualifications and experience. The person appointed will be required to provide and maintain a motor car, for which a travelling allowance of £150 per annum will be payable by the Council.

A flat is available at the County Planning Office, Armagh, containing living room with dining annex, kitchen, bathroom, two bedrooms, and garage accommodation, for which a yearly rent of £35 free of taxes is payable.

The appointment is full-time and pensionable, but may be terminated by three months' notice on either side.

Preference will be given to suitable qualified candidates who served with H.M. Forces during the 1914-1918 or 1939-1945 wars, provided the Council is satisfied that such candidate can or within a reasonable time will be able to fill the vacant post efficiently.

Applications will be received by the undersigned up to but not later than the 1st October, 1948, and should give age, full details of education, qualifications and experience, with dates, and be accompanied by copies of at least two recent testimonials, and a medical certificate of physical fitness. Applicants are also required to state the date when they can take up duty if appointed.

W. JENKINSON,  
Secretary to County Council.  
Secretary's Office, 1, Marlborough  
Place, Armagh (N.I.).  
7th September, 1948. 1772

**COUNTY LONDONDERRY COUNTY COUNCIL.  
APPOINTMENT OF COUNTY PLANNING OFFICER.**

The above-named Council invites applications for the post of County Planning Officer. The duties involved will include responsibility for all planning work in the County Rural Area and the Borough of Coleraine, and also the Planning work of the Urban District Councils of Portstewart and Limavady in the event of an appropriate arrangement being made at any time in future between the County Council and one or both of those Authorities.

Applicants should (a) be Members or Associate Members of the Town Planning Institute, (b) have had at least two years' practical experience in the work of Town and Country Planning, and (c) be not less than 28 years of age.

The salary attached to the post is £950 per annum, inclusive of cost-of-living bonus, but a higher salary may be paid to a successful candidate possessing outstanding qualifications and experience.

The person appointed will be required to use his own motor car in the service of the Council, and will be paid a travelling allowance of £150 per annum in this respect.

The appointment will be a full-time one and will be on a temporary basis, subject to termination by three months' notice on either side, but may later become permanent and pensionable.

Preference will be given to ex-Service candidates possessing the required qualifications, provided that the Council is satisfied that such candidates can, or within a reasonable time will be able to, fill the post efficiently.

Applications, giving age and full details of qualifications and experience (with dates), and accompanied by a medical certificate of physical fitness, and copies of at least two recent testimonials, will be received by the undersigned up to, but not later than, Friday, 8th October, 1948. Applicants are also required to state the date on which they can take up duty if appointed.

J. L. RANKIN,  
Secretary to County Council.  
County Courthouse, Londonderry.  
13th September, 1948. 1811

**NORTH-EAST METROPOLITAN REGIONAL HOSPITAL BOARD.**

Applications are invited from Fellows or Associates of the Royal Institute of British Architects for the appointment of PRINCIPAL ASSISTANT ARCHITECT on the Headquarters Staff of the Board at an inclusive salary of £940×£25-£990 per annum. Applicants must have had experience in hospital design and construction, possess good administrative ability, and be capable of deputising for the Regional Architect. The appointment is subject to the National Health Service (Superannuation) Regulations, 1947. Applications, together with the names of three referees, should be addressed to C. M. Nicol, Secretary, North-East Metropolitan Regional Hospital Board, 11A, Portland Place, W.1. to arrive not later than 15th October, 1948. 1814

**DEVON COUNTY COUNCIL.**  
Applications are invited for the following appointments on the permanent establishment of the County Architect's Department, at consolidated salaries, in accordance with the grades of and subject to, the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional and Technical Services.

(a) ONE ASSISTANT ARCHITECT. A.P.T. Grade VI. Commencing salary £595 p.a., rising by three annual increments (£20×£20×£25) to £660 p.a.

(b) TWO ASSISTANT ARCHITECTS. A.P.T. Grade V. Commencing salary £530 p.a., rising by three annual increments (£15×£15×£20) to £570 p.a.

(c) TWO ASSISTANT ARCHITECTS. A.P.T. Grade I. Commencing salary £390 p.a., rising by three annual increments (£15×£15×£15) to £435 p.a.

Candidates for (a) and (b) must be Associates of the Royal Institute of British Architects, and possess a sound experience in the design and maintenance of all types of buildings carried out by a large local Authority; they must be fully conversant with the Building Regulations of the 1944 Education Act, and the Regulations for Police Buildings; and possess organizing ability and experience in the management of building contracts.

For (c) candidates must have a good training in architecture, and preference will be given to those who have passed the Intermediate examination of the Royal Institute of British Architects.

Applications, stating age, qualifications and experience, accompanied by not more than three recent testimonials, should be sent to the County Architect, 97, Heavitree Road, Exeter, not later than Friday, the 15th October, 1948. No forms of application will be issued.

The appointments will be subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937.

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

H. A. DAVIS,  
Clerk of the County Council.  
The Castle, Exeter.  
10th September, 1948. 1800

**METROPOLITAN BOROUGH OF FULHAM.  
HOUSING AND PUBLIC BUILDINGS DEPARTMENT.**

Applications are invited, preferably from persons with previous local government experience, for the permanent appointment of ARCHITECTURAL ASSISTANT, in the Housing and Public Buildings Department.

Preference will be given to candidates who have passed the Intermediate examination of the R.I.B.A.

Salary, A.P.T. Grade I, of the National Scales (£390×£15-£435 per annum), plus London "weighting" of £20 at ages 21 to 25, and £30 at age 26 and over for candidates possessing the above-mentioned qualification.

The salary for candidates not holding this qualification or its equivalent will be in the General Division (£290 per annum at 25 years of age, rising to £325 per annum at 32 years of age), plus London "weighting" of £20 at ages 21 to 25, and £30 at age 26 and over.

Applications on the official form, which may be obtained from me on receipt of a stamped addressed envelope, must be returned with copies of not more than three testimonials not later than 4th October, 1948.

CYRIL F. THATCHER,  
Town Clerk.  
Town Hall, Fulham, S.W.6.  
August, 1948. 1802

**COUNTY BOROUGH OF BARNSLEY.  
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

Applications are invited for the following appointments:-

(1) SECOND ARCHITECTURAL ASSISTANT. Grade A.P.T. V, £530 per annum, rising by annual increments (two of £15 and one of £20) to £570 per annum.

(2) SECOND PLANNING ASSISTANT. Grade A.P.T. IV, £480 per annum, rising by annual increments of £15 to £525 per annum.

The appointments are subject to the Local Government Superannuation Acts and the Corporation's Staff Conditions of Service. The successful candidates will be required to pass a medical examination, and the appointments will be subject to one month's notice on either side.

For appointment (1) candidates must be Registered Architects, and preference will be given to those who are Associates of the Royal Institute of British Architects.

For appointment (2) preference will be given to candidates who are Associate Members of the Town Planning Institute and who have had planning experience in Urban Areas. Applications, stating age, qualifications, past and present appointments, with details of experience, together with copies of not more than three recent testimonials, suitably endorsed, are to be delivered to the Borough Engineer, Town Hall, Barnsley, not later than Friday, 1st October, 1948.

Canvassing in any form will be deemed a disqualification.

A. E. GILFILLAN,  
Town Clerk.  
Town Hall, Barnsley.  
September, 1948. 1803

**HAMPSHIRE COUNTY PLANNING DEPARTMENT.**

Applications are invited for the following appointments on the staff of the County Planning Officer. The posts are subject to the provisions of the Local Government Superannuation Act, 1937, and to the National Scheme of Conditions of Service. The selected candidates will be required to pass a medical examination.

(a) RESEARCH ASSISTANT. Salary, A.P.T. Grade VI (£595-£660). Candidates should preferably have a degree of a British University in Geography or Economics, and have had practical experience in research and survey work. Ability in statistical analysis and graphic representation will be an advantage.

(b) ASSISTANT AREA PLANNING OFFICER, to work under the direction of the Area Planning Officer in the South-East Area of Hampshire, the offices being at Fareham. Salary, Grade V (£530-£570), rising to Grade VI (£595-£660). Corporate Membership of the Town Planning Institute and previous experience, both technical and administrative, in the Planning Department of a Local Authority or Joint Committee, are necessary, and preference will be given to those with additional technical qualifications.

(c) TECHNICAL ASSISTANTS (TWO). Salary, Grade I (£390-£435). Candidates should have passed the Intermediate examination of a recognized professional body, and have had experience in the Planning Department of a Local Authority or Joint Committee.

In the case of posts (a) and (b), the person appointed will be a travelling officer and therefore required to keep a car, and will receive travelling allowance on the County scale for the time being in force. These appointments will be terminable by three calendar months' notice on either side. In the case of post (c), the appointment will be terminable by one calendar month's notice on either side.

No forms of application are issued, but applications, stating age, education, qualifications and experience, together with one copy of one testimonial and the names of two persons to whom reference may be made, should be sent to the County Planning Officer, Litton Lodge, Clifton Road, Winchester, not later than 22nd October, 1948. Canvassing, either directly or indirectly, will be a disqualification.

G. A. WHEATLEY,  
Clerk of the County Council.  
The Castle, Winchester.  
11th September, 1948. 1804

**BURGH OF KILMARNOCK.  
BURGH ARCHITECT AND TOWN PLANNING OFFICER'S DEPARTMENT.**

Applications are invited for the following appointments in:-

(1) BURGH ARCHITECT'S DEPARTMENT:  
(a) SENIOR ARCHITECTURAL ASSISTANT. Salary, Grade A.P.T., V (£520×£15×£15×£20 to £570).

(b) ARCHITECTURAL ASSISTANT. Salary, Grade A.P.T., III (£450×£15×£15×£15 to £495).

(c) JUNIOR ARCHITECTURAL ASSISTANT. Salary, Grade A.P.T., I (£390×£15×£15×£15 to £435).

(2) TOWN PLANNING DEPARTMENT:  
PLANNING ASSISTANT, with Surveying experience. Salary, Grade A.P.T., III (£450×£15×£15×£15 to £495).

The above salary scales are inclusive of war bonus, which has now been consolidated with the salary.

Applicants for posts (a) and (b), Architect's Department, should have had previous Municipal and Housing experience, and preference will be given to candidates with professional qualifications.

Membership of the Town Planning Institute is desirable for appointment of Planning Assistant, and applicants should have had previous experience in a planning department.

Applicants must not exceed 45 years of age unless they are already contributory employees under the Local Government and Other Officers' Superannuation (Scotland) Act, 1937, but those who have been on war service may, if necessary, deduct the period of such service from their present age to satisfy the conditions as to age limit.

The persons selected for appointment will be required to pass a medical examination, and on satisfying this condition will become contributory employees under the above-mentioned Act.

Applications, accompanied by one copy of each of three recent testimonials, and giving full details of age, qualifications, experience and previous appointments held, and stating post for which application is being made, should be lodged with N. S. Sutherland, F.I.A.A. & S. Burgh Architect and Town Planning Officer, 11, London Road, Kilmarnock, not later than 10 a.m. on Monday, 4th October, 1948.

Council Chambers, Kilmarnock.  
11th September, 1948. 1805

**LINCOLNSHIRE COMMITTEE FOR RURAL INDUSTRIES.  
APPOINTMENT OF ADDITIONAL ORGANISER.**

Applicants should have an artistic appreciation of good craftsmanship as applied to wrought iron work, cabinet making, wood-turning, fine facing bricks, pottery, etc. Fitness for purpose in design should be understood and appreciated. Architectural or Art training and experience desirable. The post might appeal to an ex-Indian Civil Servant, who is interested in English rural life. Further particulars from the Director, Lindsey and Holland Rural Community Council, 86, Newland, Lincoln. 1833



COUNTY BOROUGH OF GATESHEAD.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS. A.P.T., IV (£480-£525 p.a.).

(b) JUNIOR ARCHITECTURAL ASSISTANTS. A.P.T., I (£390-£435 p.a.).

Candidates for (a) must be Registered Architects and be Corporate Members of the Royal Institute of British Architects. They should have good experience in the design and construction of public buildings, schools and/or Municipal housing schemes.

Candidates for (b) should have had previous experience in an Architect's office and must have passed the R.I.B.A. Intermediate examination.

The appointments will be subject to the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass medical examinations.

Applications, to be made on forms obtainable from the Chief Architect, should be returned, together with copies of three recent testimonials, to H. J. Cook, Esq., A.R.I.B.A., M.I.Struct.E., Chief Architect, Municipal Buildings, Swinburne Street, Gateshead, 8, not later than Monday, the 4th October, 1948.

J. W. PORTER.

Town Clerk.

Town Hall, Gateshead, 8, September, 1948. 1822

BOROUGH OF SLOUGH.

Applications are invited for the following permanent appointments:—

(1) SENIOR ASSISTANT ENGINEER, within Grade A.P.T., VI, of the National Scales, at a consolidated commencing salary of £595 p.a., rising, on satisfactory service, by two annual increments of £20 and one of £25 to a maximum of £660 p.a. Candidates should have previous experience in the supervision of technical and drawing office staff and the organization of an Engineer and Surveyor's department. They should have passed the Testamur examination of the Institution of Municipal Engineers and/or the Associate Membership examination of the Institution of Civil Engineers.

(2) ASSISTANT ENGINEER, within Grade A.P.T., IV, of the National Scales, at a consolidated commencing salary of £480 p.a., rising, on satisfactory service, by annual increments of £15, to a maximum of £525 p.a. Preference will be given to applicants who hold the Testamur of the Institution of Municipal Engineers and/or who are Associate Members of the Institution of Civil Engineers.

(3) ASSISTANT ENGINEER, within Grade A.P.T., III, of the National Scales, at a consolidated commencing salary of £450 p.a., rising, on satisfactory service, by annual increments of £15, to a maximum of £495 p.a. Preference will be given to applicants who have passed a substantial portion of the Testamur examination of the Institution of Municipal Engineers and/or the Associate examination of the Institution of Civil Engineers.

(4) GENERAL ASSISTANT ARCHITECT, within Grade A.P.T., IV, of the National Scales, at a consolidated commencing salary of £480 p.a., rising, on satisfactory service, by annual increments of £15 p.a. to a maximum of £525 p.a. Candidates should be registered Architects and have had previous experience with a local authority. Preference will be given to applicants who have passed a substantial portion of the examinations of the Royal Institute of British Architects.

Applications for appointment (1) must be made on forms obtainable from the Borough Engineer, Mr. E. Gardner Thorp, M.I.C.E., Town Hall, Slough.

Applications for appointments (2) and (3) must give details of experience in highways, sewerage and surface water drainage, and general civil engineering works in a Municipal department, and state age, marital state, qualifications, technical training, present and previous appointments, with dates.

Applications for appointment (4) must give details of experience in housing, Municipal building design and general building construction, and state age, marital state, qualifications, technical training, present and previous appointments, with dates.

All applicants must give the names of two Engineers or Architects (whichever is appropriate) to whom reference can be made.

All the appointments will be subject to (i) the provisions of the Local Government Superannuation Act, 1937, (ii) the National Scheme of Conditions of Service, (iii) the satisfactory passing of a medical examination by the successful applicant, and (iv) termination by one month's notice on either side.

Applications in sealed envelopes, endorsed "Senior Assistant Engineer," "Assistant Engineer, Grade IV," "Assistant Engineer, Grade III," or "General Assistant Architect," as the case may be, must reach the undersigned not later than first post on Monday, 11th October, 1948.

Candidates must, when making application, disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

Canvassing, directly or indirectly, will disqualify.

NORMAN T. BERRY.

Town Clerk.

Town Hall, Slough, 17th September, 1948. 1823

COUNTY BOROUGH OF DEWSBURY. BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointment in the Department of the Borough Architect and Buildings Surveyor:—

ARCHITECTURAL ASSISTANT, Grade A.P.T., IV, salary, £480-£525 per annum.

Applications, stating age, qualifications, and experience, accompanied by copies of three recent testimonials, should be received by me not later than 11th October, 1948, endorsed "Architectural Assistant."

A. NORMAN JAMES.

Town Clerk.

Town Hall, Dewsbury, 13th September, 1948. 1816

BOROUGH OF ROWLEY REGIS. APPOINTMENT OF SECOND ARCHITECTURAL ASSISTANT.

Applications are invited for the above temporary appointment in the Department of the Borough Engineer and Surveyor, at a salary in accordance with A.P.T., Grade V(a) (£550-£600 per annum) of the National Scale of Salaries. The Council are prepared to consider the provision of suitable housing accommodation, if required.

Candidates should be experienced in general Municipal work, including housing, be capable of preparing plans and specifications, etc., and supervising construction. Candidates must be registered Architects, and preference will normally be given to members of the R.I.B.A. by examination.

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

Applications, endorsed "Second Architectural Assistant," and accompanied by copies of three recent testimonials, should be addressed to S. G. Wood, Esq., M.I.Mun.E., M.R.San.I., Borough Engineer and Surveyor, Municipal Buildings, Old Hill, Staffs., so as to reach him not later than Thursday, the 30th September.

R. HEGAN.

Town Clerk.

Municipal Buildings, Old Hill, Staffs., 13th September, 1948. 1837

COUNTY BOROUGH OF NEWPORT. MON. BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the permanent appointment of ONE SENIOR ASSISTANT ARCHITECT, for housing and education work. Candidates must be members of the Royal Institute of British Architects by examination.

Salary will be in accordance with Grade V of the National Charter (£520×£15×£15×£20 to £570). The successful candidate will be required to pass a medical examination.

Applications, together with qualifications and experience, and the names of three referees, should be addressed to Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon., not later than Monday, the 4th October, 1948. 1841

CITY OF LEEDS. CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS. Consolidated salary scale, £595-£660.

(b) ASSISTANT ARCHITECT. Consolidated salary scale, £520-£660.

(c) ASSISTANT ARCHITECTS. Consolidated salary scale, £480-£525.

(d) ASSISTANT ARCHITECTS. Consolidated salary scale, £450-£525.

(e) ASSISTANT ARCHITECTS. Consolidated salary scale, £450-£495.

Candidates for the above appointments must be Registered Architects, and must have had a thorough training and experience in Architectural Design and Construction.

(f) ASSISTANT ARCHITECT. Consolidated salary scale, £390-£435.

(g) JUNIOR ASSISTANT ARCHITECTS. Consolidated salary scale, commencing salary according to age, maximum salary £385 (male) and £308 (female).

(h) ASSISTANT QUANTITY SURVEYOR. Consolidated salary scale, £520-£660.

Candidates must be qualified to prepare Bills of Quantities and finalise accounts for all classes of building works. Pre-war experience is essential.

In each case the payment of salary increments will be subject to satisfactory service, and will be granted normally with effect from the 1st April following the completion of 6 months' service, except in the case of appointment (g), where birthday increments will be payable.

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

Applications, on forms to be obtained from the undersigned, accompanied by copies of not more than three recent testimonials (not returnable), must be received by me, in the envelope supplied therefor, not later than 10 a.m. on Friday, the 8th October, 1948.

Canvassing in any form, either directly or indirectly, will be disqualification.

R. A. H. LIVETT, O.B.E., A.R.I.B.A., City Architect.

Priestley House, Quarry Hill, Leeds, 9, September, 1948. 1843

THE UNIVERSITY OF SHEFFIELD.

Applications are invited for a post of LECTURER or ASSISTANT LECTURER in the Department of Architecture; to begin duties as soon as possible.

Salary scales:—  
Lecturer: £550, rising by £25 every year to £650; if the appointment is then renewed £700 fixed.

Assistant Lecturer: £450 a year, rising by £25 a year to £500.

With Superannuation provision under the Federated Superannuation Scheme for Universities, and family allowance. The commencing salary on either scale will depend upon the qualifications and experience of the successful candidate. Further particulars may be obtained from the undersigned, with whom applications (three copies), including the names and addresses of two referees, should be lodged by 15th October, 1948.

A. W. CHAPMAN,

Registrar.

1851

The Government of New South Wales, in the Commonwealth of Australia, offers permanent employment in a wide range of positions, included under the following headings:—

CIVIL ENGINEERS. Annual salary, £(A)420-£(A)530; £(A)560-£(A)800.

ELECTRICAL ENGINEERS. Annual salary, £(A)420-£(A)530; £(A)560-£(A)800.

ARCHITECTS. Annual salary, £(A)560-£(A)800.

ENGINEERING DRAUGHTSMEN (CIVIL, ELECTRICAL AND MECHANICAL). Annual salary, £(A)420-£(A)530; £(A)560-£(A)720.

ARCHITECTURAL DRAUGHTSMEN. Annual salary, £(A)420-£(A)530.

SURVEY DRAUGHTSMEN. Annual salary, £(A)420-£(A)560.

The minimum and maximum salaries shown under the various headings need not necessarily be the salaries that will apply in respect of all appointments. The commencing salaries payable will be dependent upon qualifications and experience, and the salary range will be determined by the appropriate Awards relating to the Government authorities concerned. Opportunities exist for promotion upon suitable vacancies occurring.

Generally for the higher ranges of salaries mentioned, applicants should hold a Degree or Diploma in Engineering, Architecture or kindred professions from a recognized United Kingdom, Dominion or Colonial University or Technical College, or be qualified for admission as a Corporate Member of a recognized professional institution, and should have experience in the class of work covered by the application. In the lower ranges of salaries, preference will be given to applicants with the above qualifications and experience. However, consideration will be given to applicants who have completed an approved post-primary course of education, of about 5 years' duration, approximately equivalent to the Australian Matriculation or Diploma Preparatory standard, and have had some field or office training in Engineering, Architecture, Surveying or Town Planning.

Successful applicants (and their families) will be nominated for migration to Australia in accordance with the free and assisted passage schemes under a group nomination lodged on behalf of the New South Wales Government. If housing accommodation for the family cannot be arranged upon arrival in Sydney, temporary accommodation will be made available pending the allocation of a permanent dwelling. Appointments will be subject to medical fitness. Successful applicants will be required to give an undertaking to complete at least three years' service, and will be required to contribute to the State Superannuation Scheme for Public Servants.

Application forms and further particulars may be obtained from the New South Wales Government Offices, 55-57, Strand, London, W.C.2.

J. M. TULLY.

Agent-General for New South Wales, 1842

Competitions

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

**SPOTLIGHT ON TALENT**... 500 gns. in prizes for Amateur and Professional Designers. Palatial National Furniture Design Competition. Now open. Closing date extended by request to November 30th. Entry forms and details from Palatial, Ltd., 616, Old Ford Road, London, E.3. 1812

Architectural Appointments Vacant

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

**ASSISTANT ARCHITECT** required in busy General Practice. Reply, stating age, qualifications, experience, and salary required, Johnson & Crabtree, F.F.R.I.B.A., 20, Priory Place, Doncaster. Tel. 3545. 1774

**PORTSMOUTH**—Architects have vacancy for an ARCHITECTURAL and SURVEYING ASSISTANT with ability to act on own initiative and take some degree of responsibility; good prospects for a keen man. Full particulars, including experience, salary required, to Box 1688.

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# Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Allied Guilds.....		Forrest, George, & Son, Ltd. ....	xxvii	Parnall, Geo., & Co., Ltd. ....	PAGE
Andrews Bros. (Bristol), Ltd. ....		Foyles.....		Pegiers, Ltd. ....	xxix
Architects Benevolent Society .....	liv	Frays (Engineers), Ltd. ....	lvi	Pei, Ltd. ....	xxvii
Arens Controls, Ltd. ....		French, Thos., & Sons, Ltd. ....		Pilkington Bros., Ltd. ....	iii
Austin Hall Group of Companies, The...		Gaze, W. H., & Sons, Ltd. ....	xxviii	Poles, Ltd. ....	xxxvii
Automatic Telephone & Electric Co., Ltd. ....		General Cable Manufacturing Co., Ltd. ....		Pritchett & Gold & E.P.S. Co., Ltd. ....	iv
Banister, Walton & Co., Ltd. ....		General Electric Co., Ltd., The .....		Prodorite, Ltd. ....	
Bath Cabinet Makers & Artcrafts, Ltd. ....		Gillett & Johnston, Ltd. ....	lxi	Pymford, Ltd. ....	v
Birmid Rain-Water Goods .....	xxi	Grenville, Perrott, Ltd. ....	xxvii	Radiation, Ltd. ....	iv
Boulton & Paul, Ltd. ....		Griggs & Son, Ltd. ....	lxi	Rippers, Ltd. ....	xxvii
Box, C. W., F.R.I.B.A. ....	lxi	Gypro Products, Ltd. ....	lxi	Sadd, John, & Sons, Ltd. ....	iv
Braithwaite & Co., Engineers, Ltd. ....		Harcourts, Ltd. ....	lxi	Sankey, J. H., & Son, Ltd. ....	vii
Bratt Colbran, Ltd. ....		Harper, John, & Co., Ltd. ....	lxi	Sankey, Joseph, & Sons, Ltd. ....	xxvii
Briggs, Wm., & Sons, Ltd. ....	xxvii	Harvey, G. A., & Co. (London), Ltd. ....	lxi	Scaffolding (Great Britain), Ltd. ....	iii
Brightside Foundry & Engineering Co., Ltd., The .....	xxxiii	Helliwell & Co., Ltd. ....	lxi	Sealocrete Products, Ltd. ....	xxvii
Brooks Air & Heat Systems, Ltd. ....	xxvii	Henderson, P. C., Ltd. ....	lxi	Secomastic, Ltd. ....	xxvii
British Aluminium Co., Ltd. ....		Henderson Safety Tank Co., Ltd. ....	lxi	Semtex, Ltd. ....	xxvii
British Ironfounders' Association .....		Hicksons Impregnation Co. ....	lxi	Sharman, R. W., Ltd. ....	xxvii
Broad & Co., Ltd. ....		Hokoplane, Ltd. ....	lxi	Simplex Electric Co., Ltd. ....	xxvii
Bryce White & Co., Ltd. ....	lxi	Hope, Henry, & Sons, Ltd. ....	lxi	Sommerfeld, K. J., & A., Ltd. ....	xxvii
Cable Makers' Association .....	lxi	Huntley & Sparks, Ltd. ....	lxi	Spooners .....	xxvii
Cattle, R., Ltd. ....	lxi	Imperial Chemical Industries, Ltd. ....	lxi	Stelcon (Industrial Floors), Ltd. ....	xxvii
Celotex, Ltd. ....	xxxi	Insulite Products Corporation, Ltd. ....	lxi	Stobart & Son, Ltd. ....	xxvii
Cement Marketing Co., Ltd. ....		International Correspondence Schools, Ltd. ....	lxi	Sundeala Board Co., Ltd. ....	xxvii
Clark & Eaton, James, Ltd. ....		International Housing Exhibition, The .....	lxi	Thornborough & Sons (Manchester), Ltd. ....	xxvii
Clarke & Vigilant Sprinklers, Ltd. ....	lxi	Johnson & Phillips, Ltd. ....	lxi	Thorn Electrical Industries, Ltd. ....	xxvii
Copper Development Association .....		Key Engineering Co., Ltd. ....	lxi	Thorp, John B. ....	xxvii
Courtney Pope, Ltd. ....	xi	King, George W., Ltd. ....	lxi	Tilford Tiles, Ltd. ....	xxvii
Cox & Co. (Watford), Ltd. ....	xxxi	Kingfisher, Ltd. ....	lxi	Tretol, Ltd. ....	xxvii
Cullum, Horace, Ltd. ....	xxxi	Laing, John, & Son, Ltd. ....	lxi	Troughton & Young (Lighting), Ltd. ....	xxvii
De La Rue Insulation, Ltd. ....		Lead Industries Development Council... ..	xxiv	True-Flue, Ltd. ....	xxvii
Denny, Mott & Dickson, Ltd. ....	xxix, lxi	Leatherford, Ltd. ....	xxiv	Trussed Concrete Steel Co., Ltd., The... ..	xxvii
Doulton & Co., Ltd. ....		Legrand, Sutcliffe & Gell, Ltd. ....	lxi	Tucker Installations, Ltd. ....	xxvii
Dreyfus, A., Ltd. ....		London Brick Co., Ltd. ....	lxi	Tudor Accumulator Co., Ltd. ....	xxvii
Dunlop Rubber Co., Ltd. ....	xxxi	London Sand Blast Decorative Glass Works, Ltd., The .....	lxi	Tungum Sales Co., Ltd. ....	xxvii
Durable Asphalt Co., Ltd. ....		Lysaght, John, & Co., Ltd. ....	lxi	Turners Asbestos Cement Co., Ltd. ....	xxvii
Duresco Products, Ltd. ....	xxxi	Mallinson, Wm., & Sons, Ltd. ....	lxi	United Steel Companies, Ltd., The .....	xxvii
Eagle Range & Grate Co., Ltd. ....	xxviii	Marley Tile Co., Ltd. ....	lxi	Universal Asbestos Manufacturing Co., Ltd., The .....	xxviii
Econa Modern Products, Ltd. ....	lvi	Matthews & Yates, Ltd. ....	lxi	Venesta, Ltd. ....	xxviii
Efril Sales Organisation .....	xxiv	McCarthy, M., & Sons, Ltd. ....	lxi	Versil, Ltd. ....	xxviii
Ellis School of Building .....	lxi	Metallic Seamless Tube Co., Ltd. ....	lxi	Vulcanite, Ltd. ....	xxviii
Ellison, George, Ltd. ....	lxi	Metropolitan-Vickers Electric Co., Ltd. ....	lxi	Wadsworth, Wm., & Sons, Ltd. ....	xxviii
English Joinery Manufacturers' Association .....		Micromatic Electrical Instrument Co., Ltd. ....	lxi	Wardle Engineering Co., Ltd., The .....	xxviii
Etchells, Congdon & Muir, Ltd. ....	xxvi	Midland Woodworking Co., Ltd. ....	lxi	Wareite, Ltd. ....	xxviii
Evered & Co., Ltd. ....	li	Mills Scaffold Co., Ltd. ....	lxi	Watco, Ltd. ....	xxviii
Excel Asphalt Co., Ltd. ....	lvi	Ministry of Labour .....	lxi	Watco & Gillow, Ltd. ....	xxviii
Ezee Kitchens, Ltd. ....	xxviii	Ministry of Works .....	lxi	Wellington Tube Works, Ltd. ....	xxviii
Fenning & Co., Ltd. ....		Moler Products, Ltd. ....	lxi	Wheatly & Co., Ltd. ....	xxviii
Ferodo, Ltd. ....	xxi	Newalls Insulation Co., Ltd. ....	xxxi	Wheeler, F. H., & Co., Ltd. ....	xxviii
Finch, B., & Co., Ltd. ....	x	Nobles & Hoare, Ltd. ....	xxxi	Wimpey, George, & Co., Ltd. ....	xxviii
				Zinc Alloy Rustproofing Co., Ltd. ....	xxviii
				Zinc Development Association .....	xxviii

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see pages lvii, lviii, lix and lx.

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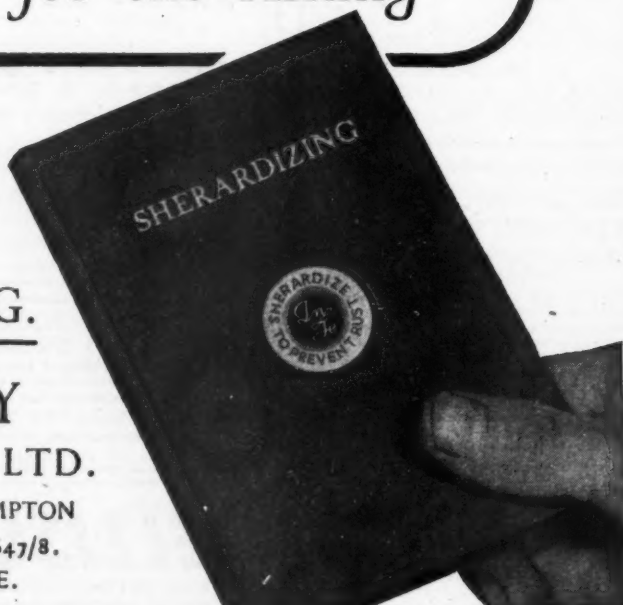
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PAGE  
xxx  
xxx  
iii

xxxxxiii

iv

v

vi

vii

xxxxi

iii

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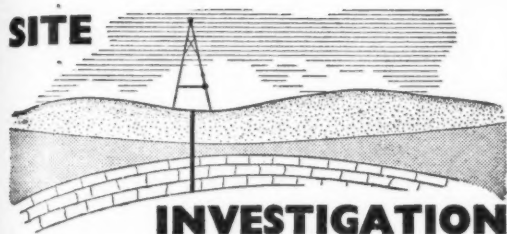
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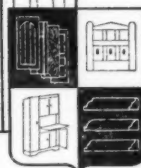
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