

# 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

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

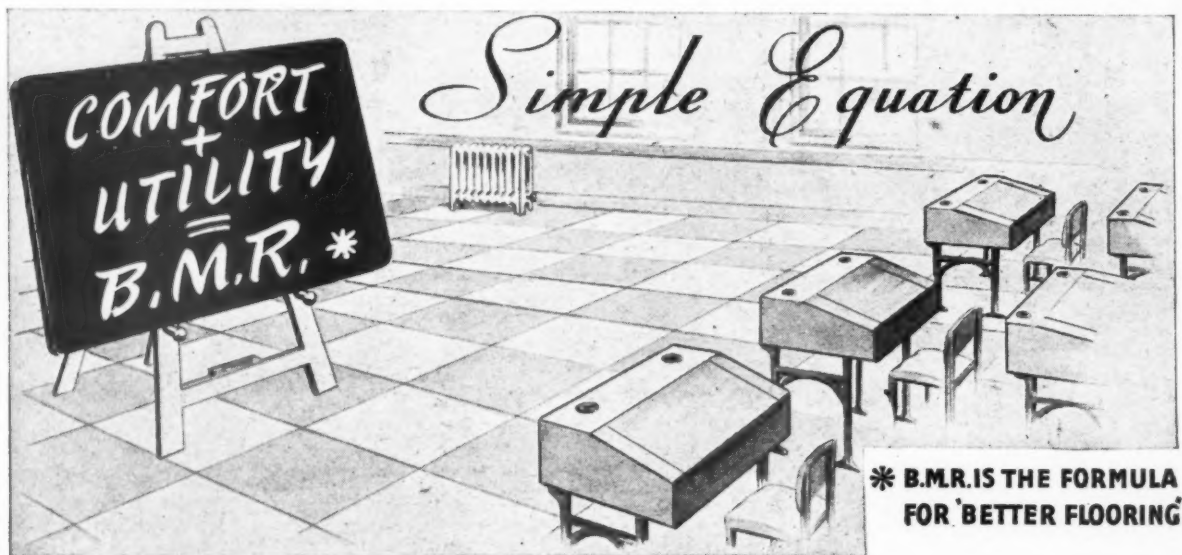
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 3158
ICE	Institution of Civil Engineers. Great George Street, S.W.1. Whitehall 4577
ICW	Institute of Clayworkers. 4, Vernon Place, W.C.1. Chancery 6258
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2. Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1. Abbey 5215
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1. Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers. 72/74, Victoria Street, S.W.1. Victoria 0146/7
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1. Museum 1783
IOB	Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197
IR	Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1. Monarch 7391
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1. Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128-29
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891
MARS	MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8. Park 7678
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Whitehall 3400
MOE	Ministry of Education. Belgrave Square, S.W.1. Sloane 4522
MOH	Ministry of Health. Whitehall, S.W.1. Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's Square, S.W.1. Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1. Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1. Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1. Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 5277/8
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7. Kensington 8161
NCBMP	National Council of Building Material Producers. 2, Caxton Street, S.W.1. Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House, 20A, Cedars Road, Clapham, S.W.4. Whitehall 2881/2/3
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 2881/2/3
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1. Langham 4041
NHTPC	National Housing and Town Planning Council. 41, Russell Square, W.C.1. Museum 1264
NPL	National Physical Laboratory. Head Office, Teddington. Molesey 1380
NRIAD	National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2. Whitehall 2415
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1. Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. Whitehall 0211/2
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 7245
PWB	Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 7611
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1. Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1. Welbeck 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1. Whitehall 5322
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1. Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1. Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2. Temple Bar 8274
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1. Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. Wimbledon 5101
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1. Regent 6347
SCR	Society for Cultural Relations with the USSR. 98, Gower Street, W.C.1. Euston 6272/3
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C. Chancery 5313
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2. Central 4444
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1. Metropolitan 8344
SNTPC	Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3. City 6146 (3 lines)
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2. Temple Bar 5006
TDA	Timber Development Association. 75, Cannon Street, E.C.4. City 6146 (3 lines)
TPI	Town Planning Institute. 18, Ashley Place, S.W.1. Victoria 8813
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4. City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1. Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4. City 4263/4
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford. Oxford 47987

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October 1932



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# RECESSED CURTAIN TRACK

PATENTED SPRING CLIP HOLDS RAIL IN CHANNEL WITHOUT SCREWS

THE RAIL BECOMES A CONCEALED AND PERMANENT FITTING

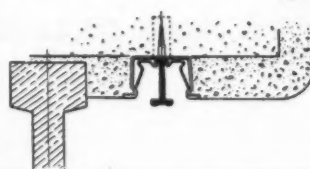
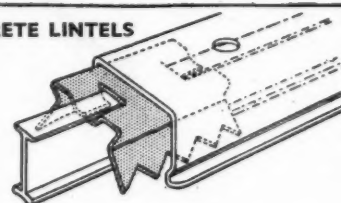
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**This 'Rufflette' RECESSED CURTAIN TRACK provides an integral and permanent fitting for the modern house**

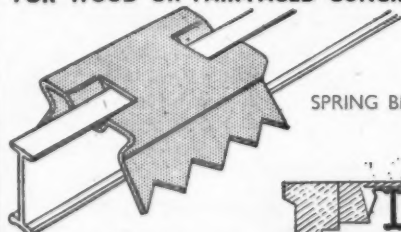
## FOR PLASTERED CONCRETE LINTELS

THIS STEEL CHANNEL STRIP HOLDS CLIP AND RAIL



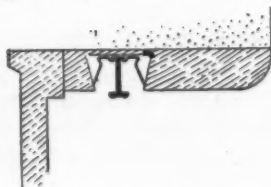
SHOWING STEEL CHANNEL STRIP IN POSITION IN PLASTERED CONCRETE LINTEL

## FOR WOOD OR FAIR-FACED CONCRETE



SPRING BRACKET CLIP

SHOWING SPRING BRACKET IN POSITION IN WOOD OR FAIR-FACED CONCRETE LINTEL



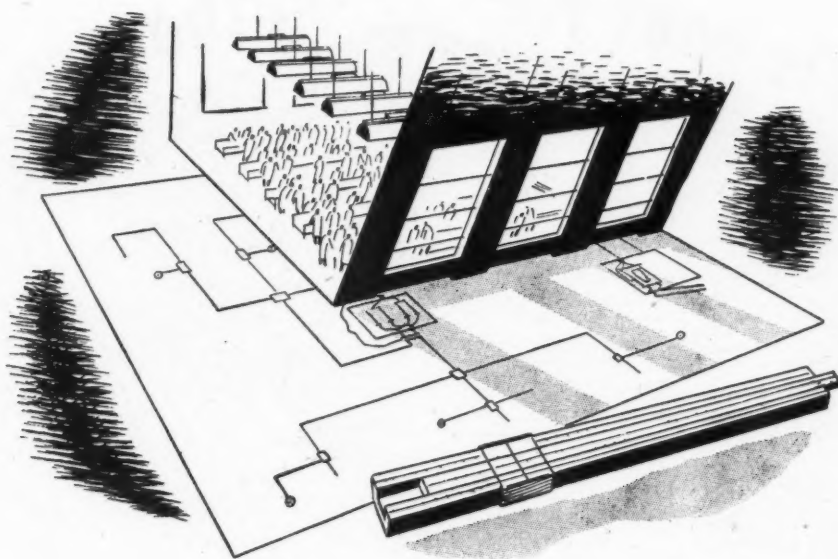
The development of 'Rufflette' Recessed Curtain Track enables the architect to specify curtain rails for installation during building, and thus eliminates the damage to new wall and ceiling surfaces that so often results when the fixing of curtain rails is left to unskilled hands.

Architect's Journal: the following Information Sheets are available and will be sent on request to manufacturers.  
SHEET 44 D.2. ('RUFFLETTE' B/L and M Type Rails).  
SHEET 44 D.1. ('RUFFLETTE' RECESSED TRACK).

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**T**HERE is a minimum standard of lighting without which full worker-efficiency cannot be expected. It depends on a number of factors such as the nature of the processes involved, the size and layout of the factory and the number of people employed on each operation, plus certain purely local considerations. There is thus no easy rule-of-thumb for assessing the lighting needs of a particular establishment, or for deciding how best they may be met. The Ekco-Ensign Lighting Advisory Service will be pleased to survey business premises and submit lighting schemes planned to facilitate increased production. Write to or telephone:

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**Northern :** Kent Street Works, Preston, Lancs

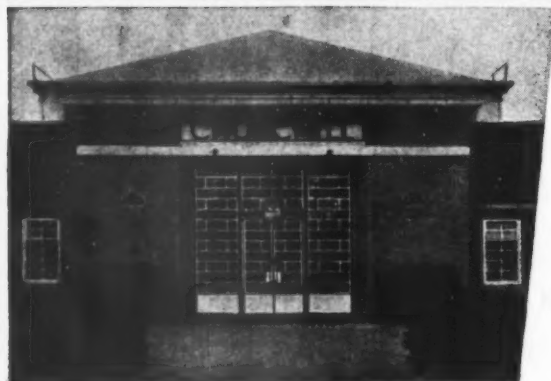
**Western :** 50 Bridge Street, Cardiff

**Telephone :** REGent 2601

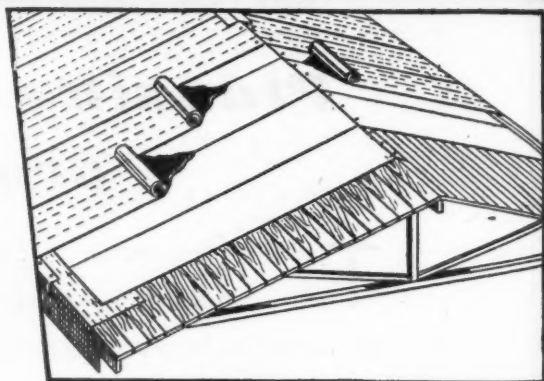
**Telephone :** Preston 4628

**Telephone :** Cardiff 5426

How this roof was weatherproofed...



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Builder—W. C. SKINNER LTD., BIRMINGHAM



Section of Drawing BRIGGS ROOFS No. 2R

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Roofing. The bottom layer to be fixed for, say, 18" round the edges of the deck with hot Bitumen, and the rest to be "laid loose." The succeeding layer or layers to be bonded together with hot Bitumen. All laps to be 2".

# BRIGGS

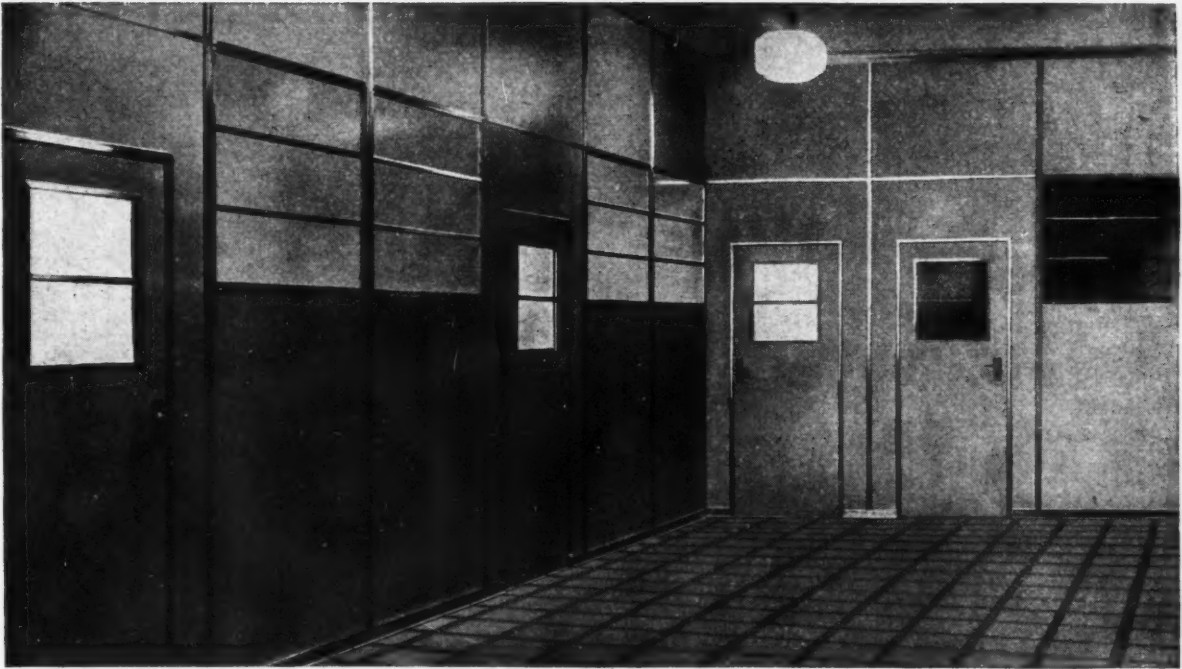
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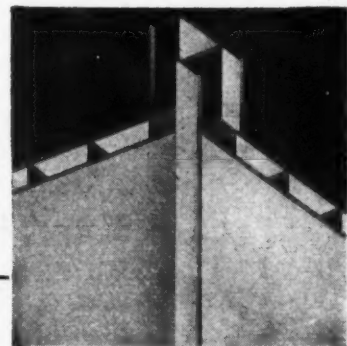
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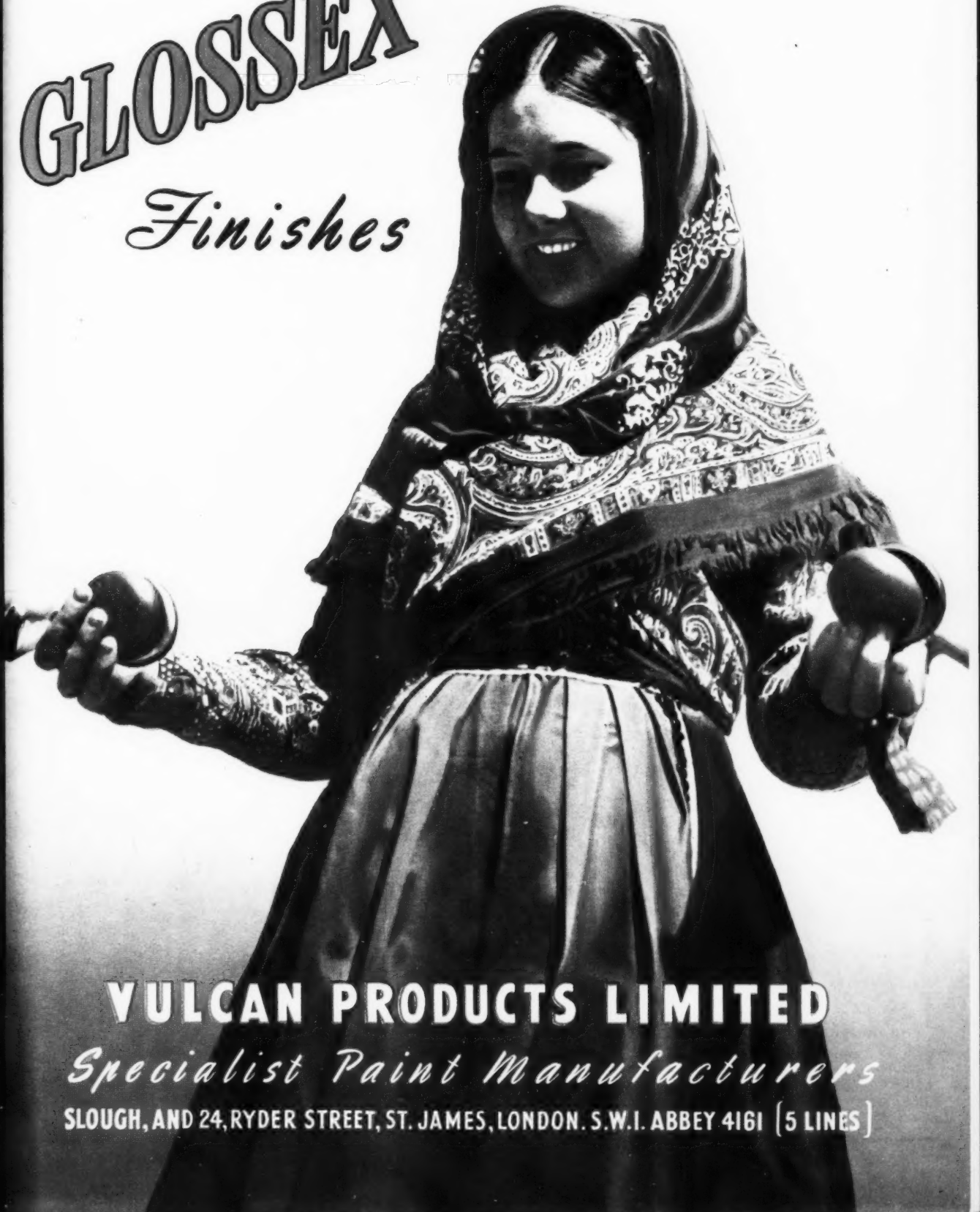
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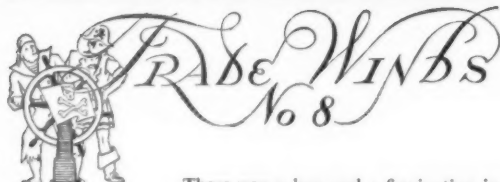
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Painting by Doris Zinkeisen



There was a lure and a fascination in the trade of the East Indies with its fabulous wealth in silks and spices, silver and gold, precious gems and splendid hard woods. Companies were formed in Holland, France, Denmark, Scotland, Spain, Austria and Sweden, but the most famous and romantic of these was the "Company of Merchants of London trading into the East Indies." It was granted its charter in 1600 with the prime object of competing with the Dutch, who were excellent seamen and colonists, and were rapidly penetrating the East and setting up their trading posts everywhere. Early voyages were undertaken separately by individual subscribers but after 1610 they were conducted on the joint stock system. This was then a novel device made possible by the increasing financial expertness of the City of London.

Until late in the 19th century no merchantman was able to sail unarmed. Vessels had to be prepared to fight pirates, privateers and the ships of rival ports and companies. East Indiamen were thus equipped to beat off their Dutch, French and Portuguese rivals as well as pirates. They carried great stores of arms and many fighting men. It was this call upon precious cargo space

## EAST INDIAMEN

that prompted the Company to establish their own dockyard in Deptford in 1609 to build bigger and better ships.

The famous East Indiamen built in the Deptford yards held unquestioned eminence throughout the world. Built in 1830 the Buckinghamshire of 1369 tons, was the last and greatest, being manned by 130 men and carrying 26 guns.

By 1611 the first English factories were established in India at Masulipatam and Pettapoli on the Bay of Bengal, and slowly but surely they became unrivalled. Dutch, French, Portuguese and other competitors were forced to seek their trade further East.

The Company developed India and penetrated up-country on a semi-military, semi-trading basis. Generation after generation of English families gave their lives and services to the Company. The fortunate returned as "nabobs" with vast wealth but many more died of fever or in fighting for the Company. It governed India until Queen-Empress Victoria assumed control of British India and then the East India Company with all its vast resource and power became a romantic memory.



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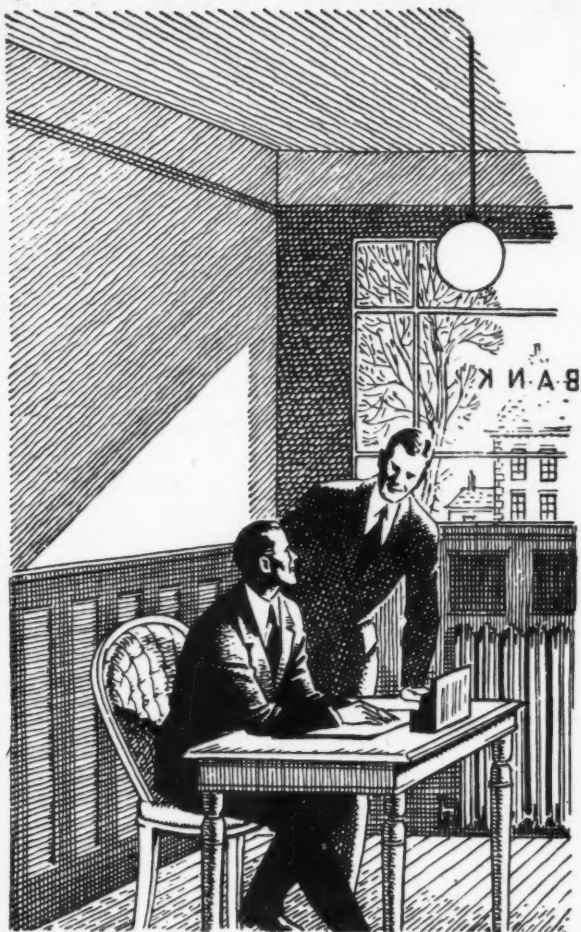


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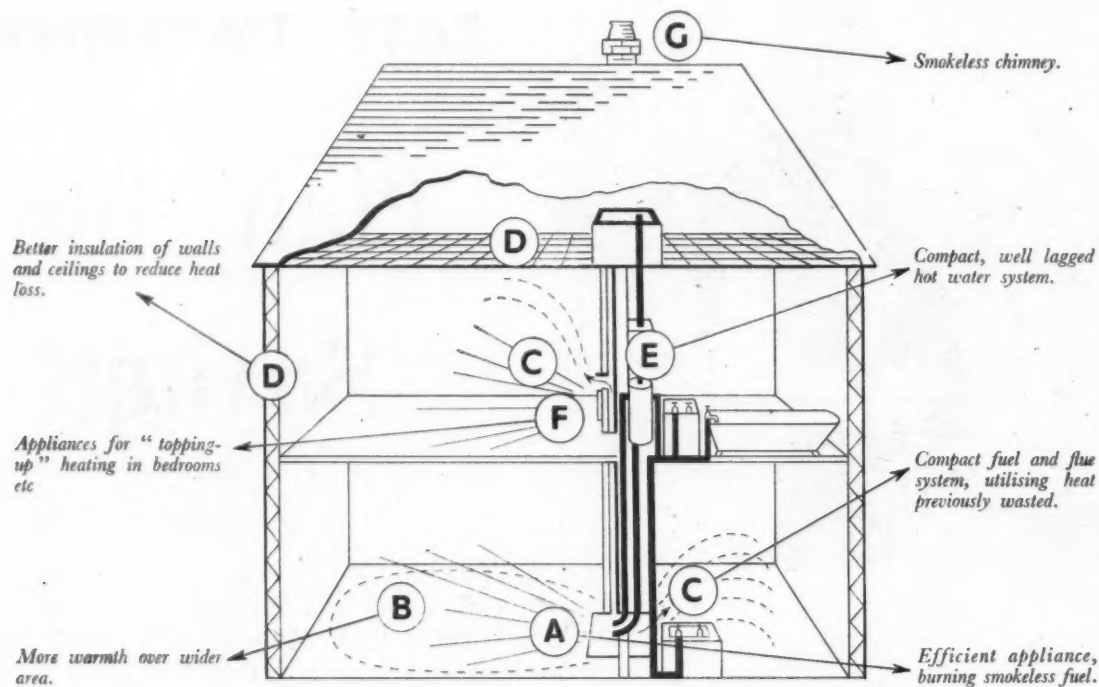
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**NOTE:** "EFFICIENT FUEL SERVICES IN THE HOME" is the title of an informative 36 page booklet, abstracted from a Paper given by Mr. G. C. Holliday, B.A., M.Inst. Gas E., F.Inst.F., at a session of the Public Works, Roads and Transport Congress. Copies free on request.

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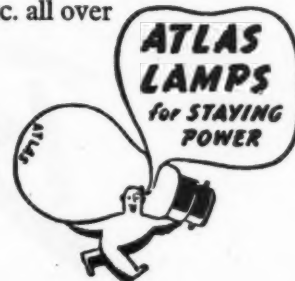
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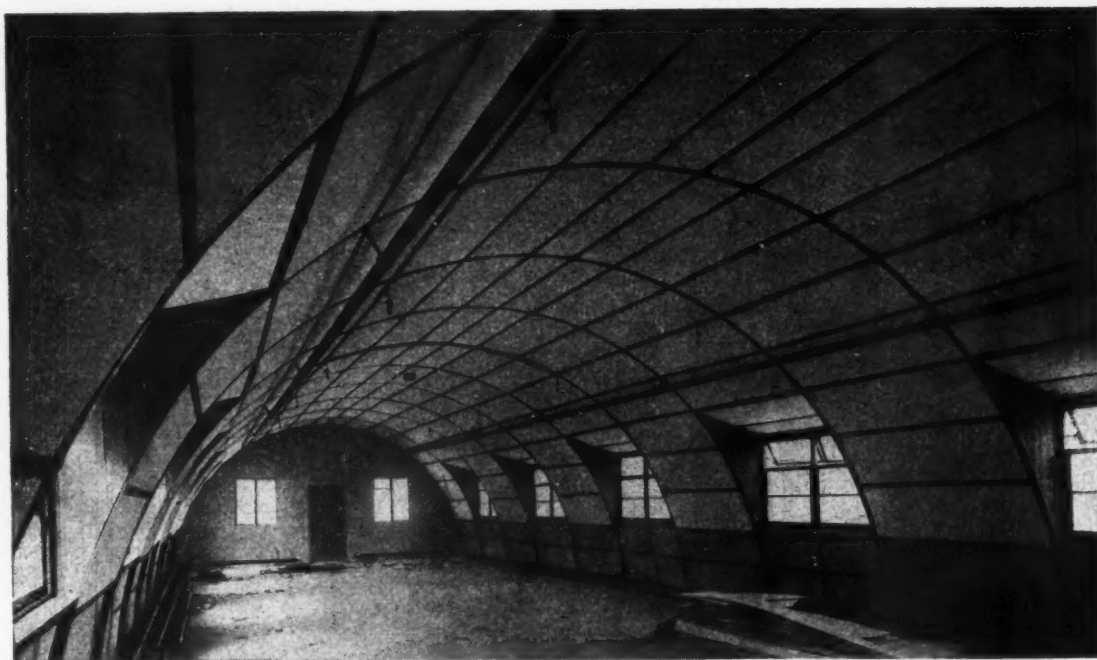
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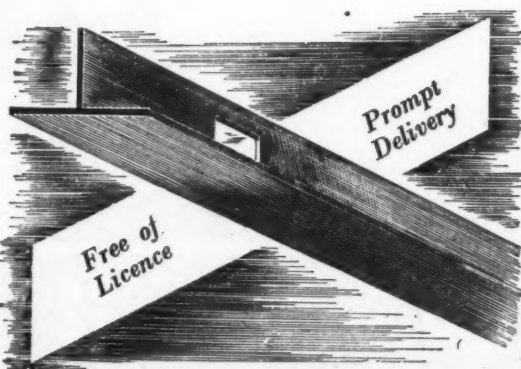


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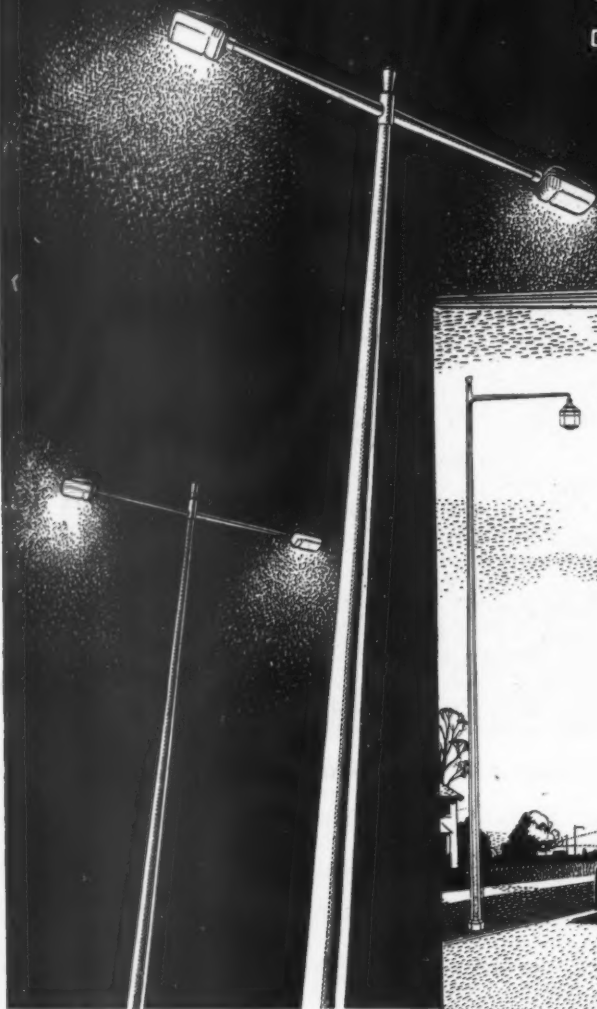
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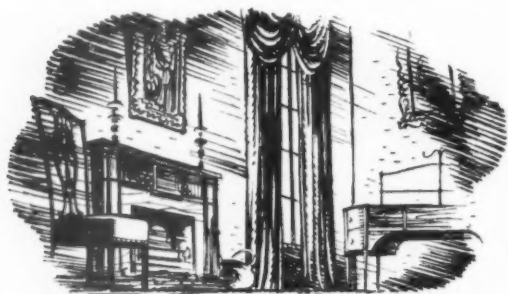
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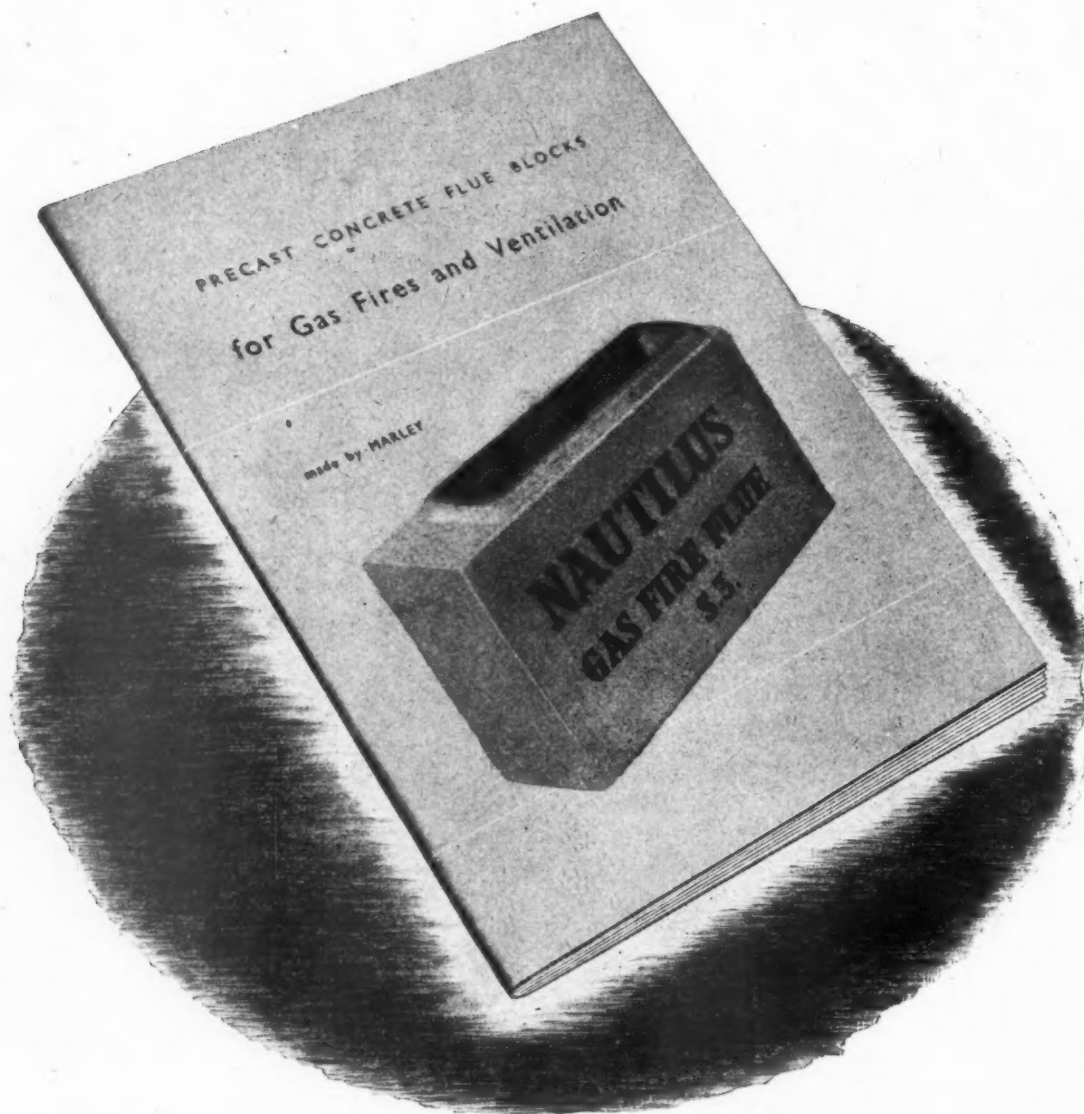
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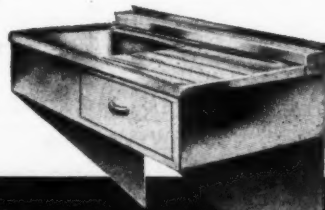
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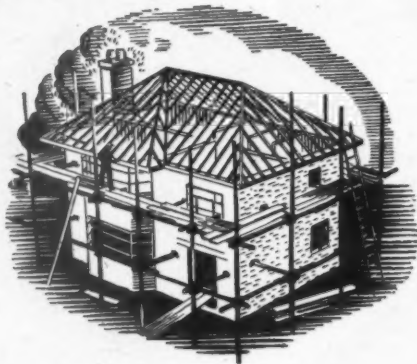
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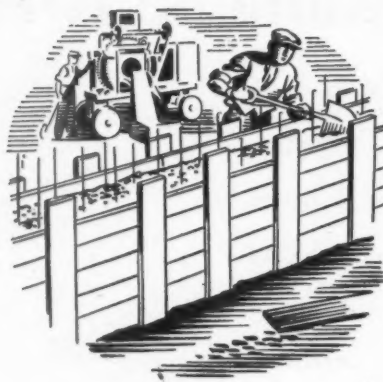
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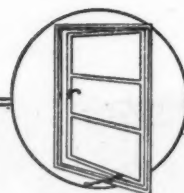
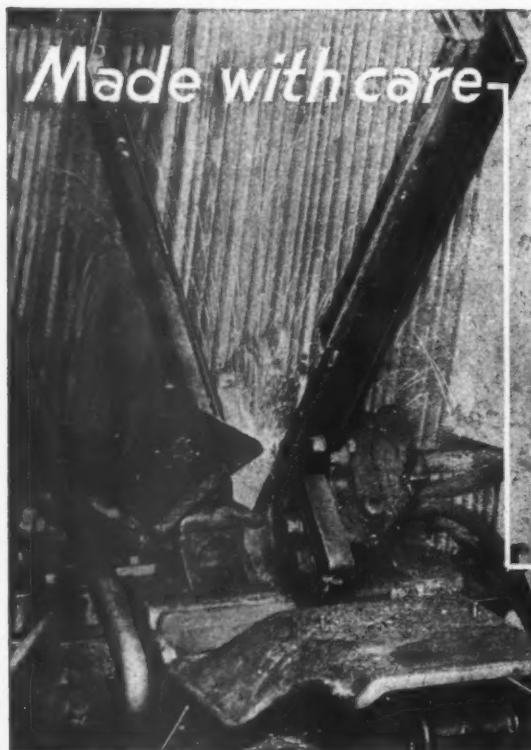
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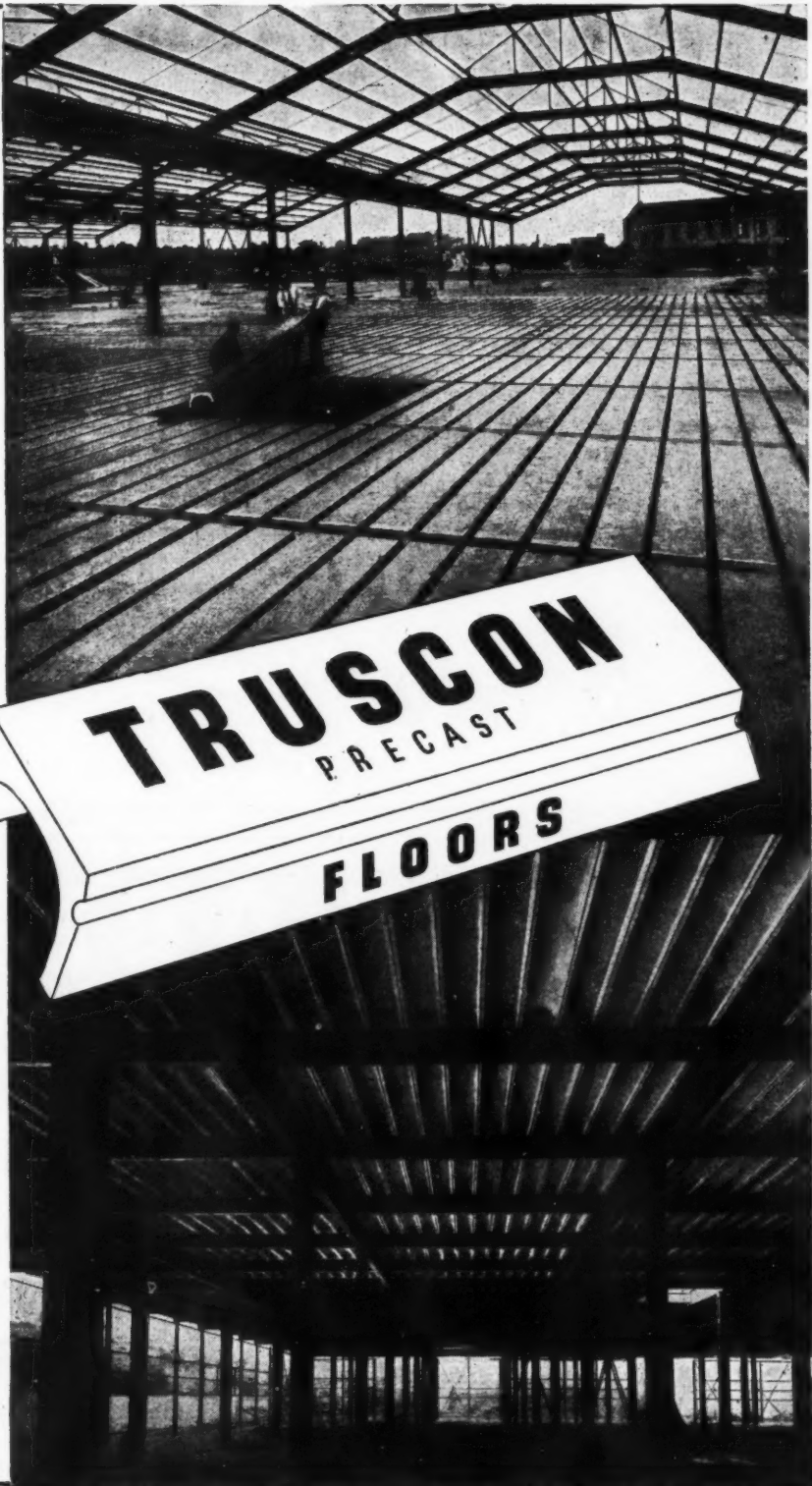
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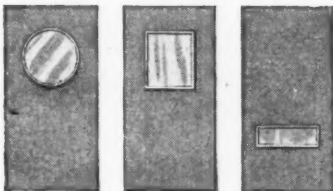
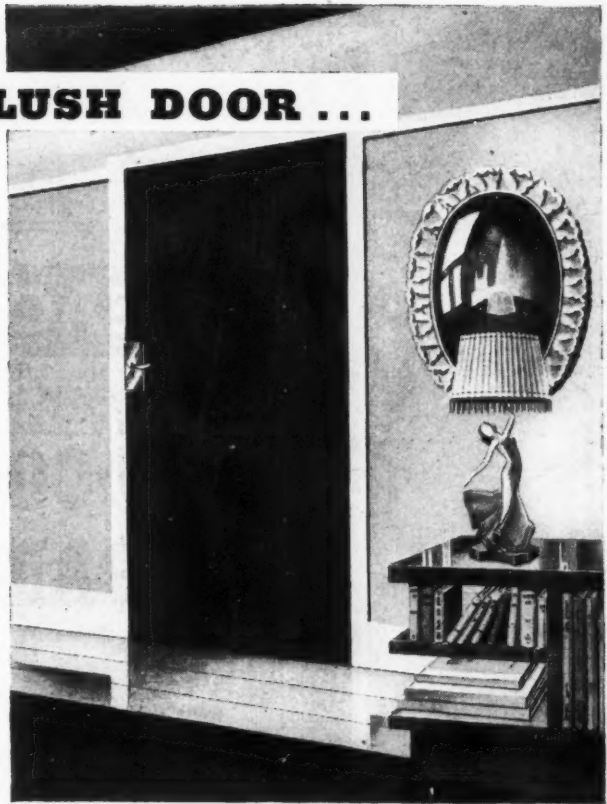
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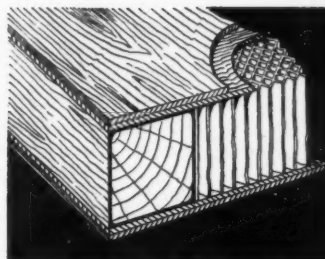
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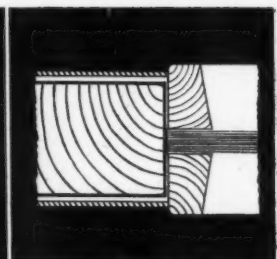
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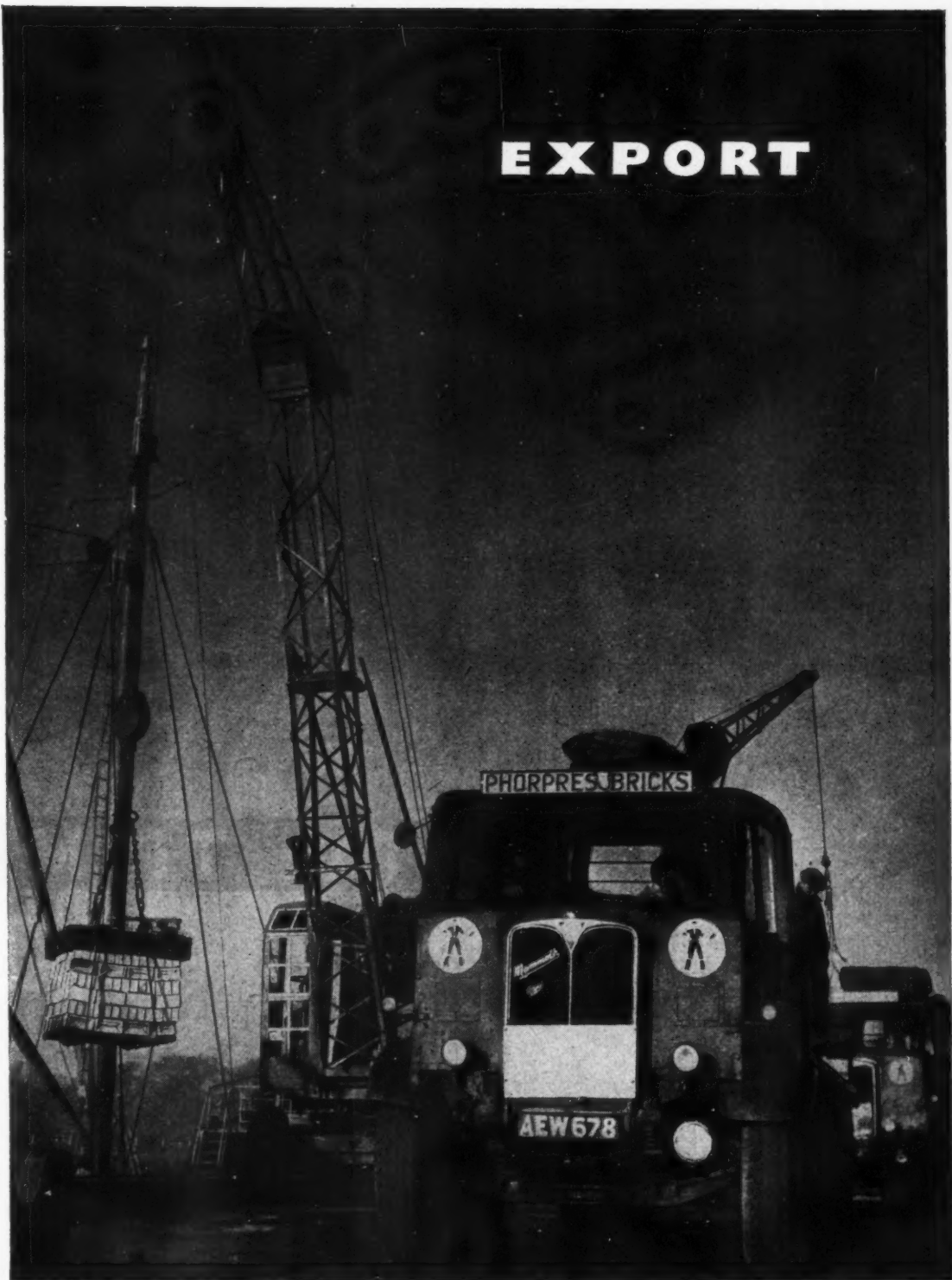
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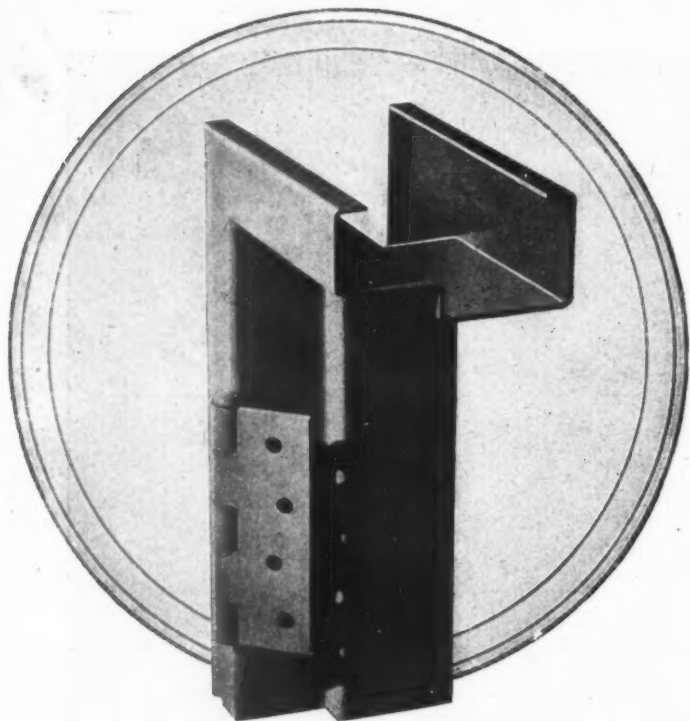
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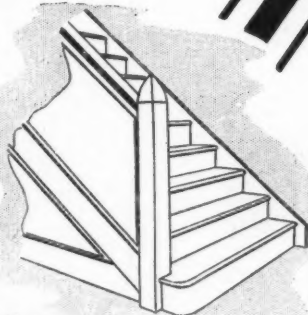
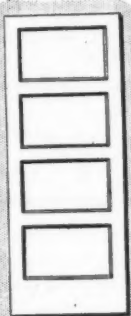
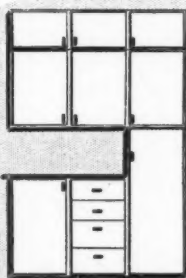
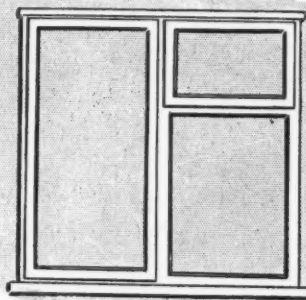


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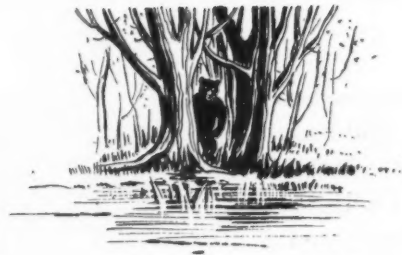
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## DIARY FOR MARCH APRIL AND MAY

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

**CARDIFF.** *Design Week.* (Sponsor, CID.) APRIL 12-17

**EDINBURGH.** *Timber Brains Trust.* At the Merchants Hall, Hanover Street, Edinburgh. (Sponsor, T.D.A.) APRIL 14

**GLASGOW.** Philip O. Reece. *Timber.* At the Building Centre, Sauchiehall Street, Glasgow. (Sponsor, Glasgow Institute of Architects.) 5.30 p.m. APRIL 18

**HOVE.** RSI Hove Sessional Meeting. F. Dransfield. *Sanitary Survey—A Century's Survey of Housing and Environmental Circumstances.* Afternoon visit to the King Alfred Baths. (Sponsor, RSI.) APRIL 10

**LONDON.** *Exhibition: The Industrial Revolution in Art, 1760-1851.* Arranged by Dr. F. D. Klingender in collaboration with the Newcomen Society. At Heal's Mansard Gallery, 196, Tottenham Court Road, W.1. UNTIL APRIL 13

*Westminster Regained Exhibition.* At the Tate Gallery, Millbank. (Sponsor, The Architectural Review.) UNTIL APRIL 6

*Ideal Home Exhibition.* At Olympia. (Sponsor, The Daily Mail.) MAR. 25

Prof. W. Fisher Cassie. *The Torsional Constants of Structural Steel Sections.* At the ISE, 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6 p.m. MAR. 25

J. M. K. Mead. *Recent Developments in Heating and Ventilating.* (Sponsor, SE Society of Architects.) MAR. 27

*Village Planning Exhibition.* Exhibition of designs submitted to the Central Land Owners' Association Village Planning Competition. At the RICS, 12, Great George Street, S.W.1. (Sponsor, Central Land-owners' Association.) APRIL 12-16

*RIBA Presentation of the Royal Gold Medal.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. APRIL 6

J. Seymour Lindsay. *Craftsmanship: Metalwork.* At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. APRIL 7

W. A. Thorpe. *Codes of Work in Glass History.* At the RSA, John Adam Street, W.C.2. (Sponsor, RSA.) 2.30 p.m. APRIL 7

Thomas Ritchie. *The Sanitation of Buildings.* Bossom Gift Lecture. At the Architectural Theatre, University College, Gower Street, W.C.1. (Sponsor, the Chadwick Trust.) 2.30 p.m. APRIL 15

Dr. N. Pevsner. *German Art of the Goethe Period.* At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, The Courtauld Institute.) 5.30 p.m. APRIL 27 and MAY 4

*Inn Crafts Exhibition.* Interior decoration and furniture design for licensed premises. At the RBA Galleries, 61, Suffolk Street, S.W.1. (Sponsors, CIAD for Brewers' Society.) APRIL 27-MAY 13

R. W. Symonds. *Craftsmanship in Furniture—Traditional and Modern.* At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. APRIL 28

*RIBA Annual Reception.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 8.30 p.m. APRIL 30

**MANCHESTER.** *Arch. S.A. Annual Congress.* The theme of the Congress is *Prefabrication and the Architect.* (Sponsor, Arch. S.A., under the auspices of Manchester University School of Architecture and the Municipal School of Art.) MAR. 31 TO APRIL 5

*Building Trades Exhibition.* At the City Hall, Deansgate, Manchester. (Sponsor, Provincial Exhibitions, Ltd.) APRIL 6-17

**NORTHAMPTON.** RSI Northampton Sessional Meeting. In the Guildhall, Northampton. (Sponsor, RSI.) APRIL 1

**WOLVERHAMPTON.** *Centenary Industrial Exhibition.* (Sponsor, Borough of Wolverhampton.) APRIL 17-24

### COMPETITIONS.—

*Osterleden Competition, Stockholm.* The Town Planning Board of Stockholm invites entries to an international competition in connection with a new main artery between the districts of Södermalm and Östermalm (Norra Djurgården) via Södra Djurgården. This artery, and the necessary approaches will be referred to as *Osterleden*. Full information from the Swedish Embassy. Deposit, £6 18s. 10d. required for complete competition documents. First prize, 20,000 Sw. cr. Entries by April 1, 1949.

*Art Competition and Exhibition of the XIV Olympiad, London, 1948.* Designs eligible: (a) Town planning, (b) Architectural designs. Entries will be limited to designs for sports grounds and to buildings intended for use in connection with sport only, and must be received between May 1 and June 11, 1948. Full particulars from the Organising Committee for the XIV Olympiad, London, 1948, 105, Victoria Street, London, S.W.1.

## NEWS

THURSDAY, March 25, 1948  
No. 2772 VOL. 107

News .. .. .	275
Emergency Farm Buildings ..	276
This Week's Leading Article ..	277
Astragal's Notes and Topics ..	278
Letters from Readers .. .. .	279
Emergency Housing in Holland ..	280

### Information Sheets:

32.C21 Ascot Instantaneous Gas Water Heaters .. .. .	To face
22.E.2 Gypstole Ceilings: Fixed Direct to Roof Members .. .. .	page 280

Nurses' Home Extension at St. John's Hospital, Lewisham. Designed by Bertram Carter 281

Workshop Extension at Cambridge University. Designed by Easton and Robertson .. 284

Societies and Institutions .. 287

School at Sidcup. By Hubert and H. Martin Lidbetter in collaboration with S. H. Loweth. . . . . 288

### Technical Section:

Information Centre .. .. .	290
The Industry .. .. .	293

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.

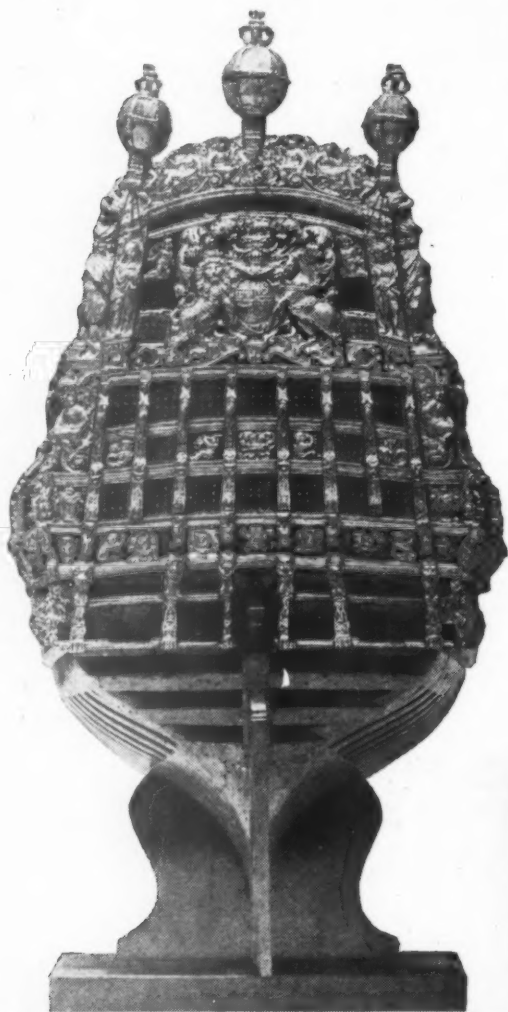
### ★ Further information on the 1951 EXHIBITION has been given by Mr. Morrison in the House of Commons.

Lord Ismay has agreed to serve in an honorary capacity as chairman of the council to be set up to supervise the arrangements for the Festival of Britain to celebrate the centenary of the Great Exhibition of 1851. Mr. Gerald Barry has been appointed director-general, and will act as chairman of a small executive committee composed of senior officers of the Arts Council of Great Britain, the Council for Industrial Design, and the Central Office of Information. Mr. Leonard Crainford has been appointed secretary. The offices will be at the Royal Society of Arts headquarters, Adelphi, from which the Great Exhibition of 1851 was organized. The composition of the council and arrangements for Scotland and Wales will be announced in due course.



# TIMBER

## -Old and New



Left. Stern of H.M.S. Prince, from a model in the Science Museum. Crown Copyright.

Below. Arms of Queen Elizabeth carved in lime by Bainbridge Copnall, on panelling of English Olive Ash Burr Veneer. Courtesy of Cunard-White Star Ltd.



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DMD.IX/12-47



## From AN ARCHITECT'S Commonplace Book

**THE CONTEMPORARY PROBLEM.** [From *The Four Routes*, by Le Corbusier (Dennis Dobson Ltd.).] In order to stabilize myself in architecture, I look at the clear and simple human expression, for instance, square windows, precise holes in the wall with their glazing and outlet and appendages of wood. And then, what about naked dormer windows and roofs, those age-old roofs without decorated ridge tiles, made of simple flat tiling, level with the gable, joined with mortar by means of a curve in profile and a graceful sweep on the side of the wall; such things are actuated by pure sensibility. And the three steps in front of the door, and the dimensions of these, etc., matters which are neither more nor less than the stuff of architecture, that is to say, the art of building. The notion of truth, itself, is pertinent here, a proper appreciation of function, of the hierarchy of these, of the motives of their humility, of their conditions of service. To serve and not to show off; that brings us right into the contemporary problem.

### A new PRODUCTION RECORD was set up in February by the STEEL INDUSTRY.

For the first time in its history the annual output rate exceeded 15 m. tons. The actual figure, 15,049,000 tons, was nearly 500,000 tons more than the record for January. This is the second month in succession that output has been above that needed to reach the 14 m. ton target for 1948 after allowing for a slackening off during the holiday periods. Pig iron production also showed a further increase.

### ★ The REPORT ON THE PUBLIC INQUIRY into the proposed EASINGTON New Town has been considered by the Minister of Town and Country Planning.

The Minister has sent the following message to the local authorities. It was suggested that the effect of building the new town would be to divert resources from reconstructing and improving existing villages. The Minister shares the anxiety to ensure that everything possible shall be done to improve conditions in the coalfield generally, but is satisfied that the beneficial effect of the new town will be felt throughout the rural district. Its development will diminish the dependence on larger towns outside the area and help to remove one of the chief causes of the gradual drift of younger people away from the district. The site selected for the town has been criticized on the ground that the new settlement will be in danger of becoming an appendage of the existing township of Horden. Since it is intended that it shall have a population of 30,000, and be planned to the highest standards of urban lay-out, the Minister is unable to accept the view that it will be prevented from achieving its own distinct character. The choice of site has also been criticized on the ground that it encroaches on valuable agricultural land instead of utilizing an alternative area based on the existing settlement of Shotton Colliery, to the west. There will be full consultation with the Ministry of Agriculture before encroachment takes place. Even if there were to be no new town, however, land must still be lost to agriculture if living conditions in the locality are to be improved. The Minister is satisfied that the amount of agricultural land included in the area has been kept to a minimum.

In the Finance Committee's Report on CAPITAL EXPENDITURE by the LONDON COUNTY COUNCIL during 1948-49 there are increases for open spaces, local health services, homes for the aged and civic restaurants.

The Committee says that the Council's positive and potential commitments at the present time could be stated, as a minimum, to be of the order of £600m.

### Two LCC Committees have proposed a memorial garden for the SOUTH BANK.

The London CC General Purposes and Town Planning Committees have made a joint report on the proposal that the redevelopment of the south bank of the Thames should include the provision of an open space planned as a memorial to the people of London killed in the 1939-45 war. The committees proposed that a scheme should be prepared for a memorial garden, with a suitable focal point, in one of the open spaces contemplated between the County Hall and Waterloo Bridge. Plans are being prepared to show a comprehensive redevelopment of the south bank area to include new Government offices and a national theatre and other cultural buildings.

### The West Riding County Architect, MR. H. BENNETT, is to go to AMERICA to study the erection of

a new type of school in New York City, during July and August.

If the innovations prove adaptable to this country, they may be reflected in the future designs of West Riding schools and perhaps have more widespread repercussions, as Mr. Bennett will also have a holding brief from the Council of the RIBA, and will prepare a full report on school planning and design.

### The Ministry of Health have issued a circular on the REQUISITIONED LAND AND WAR WORKS ACT, 1948, to County Councils.

This Act amends the basis of compensation payable under the Compensation (Defence) Act, 1939, in respect of requisitioned property. Claims relating to properties requisitioned after the passing of the 1948 Act will be considered on the new basis, and claims will also be received for increased rental compensation in accordance with Section 9 of the Act in regard to properties requisitioned before the passing of the Act. Revised forms of claim are held by the Department's Principal Housing Officers. The Government consider that every effort should be made to acquaint owners of requisitioned property with the provisions of the Act. Owners are to be notified by Councils individually.



This range of aluminium office furniture, designed by Ernest Race, is shown on the stand of Dunn's of Bromley at the Ideal Home Exhibition, which closes tonight. The tables are of two sizes, with either two or three drawers. The filing cabinet slides under the table to form a compact desk unit.



## Emergency Farm Buildings

One of the most urgent problems that Holland was faced with after liberation was the rehabilitation of the agricultural areas that were flooded during the war. As soon as the land had been drained it was necessary to get cultivation started again, and this involved the provision of farm buildings to replace those destroyed. A series of

standard designs were evolved both for farm cottages and for farm houses, combined with stables and farm buildings. A total of 4,479 emergency farms were erected in the various flooded areas with the aid of these standard units. They are built in brick, with roofs of reed thatch. Examples are illustrated above and on page 280.

**Mr. HILTON WRIGHT, A.R.I.B.A., A.A. Dip., has been awarded the BERNARD WEBB STUDENTSHIP for work on Roman housing in Central Italy.**

The Studentship is awarded for the historical and critical study of architecture, and is open to members of the AA and tenable under the auspices of the British School at Rome.

**SPARE TIME BUILDING by ex-Servicemen is proposed in Carlisle.**

The scheme is for 200 bungalows to be built during summer evenings, on Thursday and Saturday afternoons, and all day on Sundays. Negotiations for a site of 13 acres are in progress. Working committees of technical men, including building operatives, have been appointed to supervise the scheme. The trade unions have been consulted, and it is understood that there is no objection from that quarter. The outcome of the meeting with the Housing Committee was that the ex-Service men will submit full details of the scheme to the Carlisle Corporation, who will then consider it in relation to the by-laws and town planning. If

it is approved by the local authority it will be submitted to the Ministry of Health.

**100,000 TONS OF WASTE PAPER must be collected before July.**

A nation wide campaign has been commenced to induce all trades and professions to discard every scrap of accumulated unwanted paper in every possible form. Local newspaper offices will be the headquarters from which personal contact will be established with every factory, warehouse, office, school library and club. Unless 100,000 tons is collected, further cuts in newsprint, wrapping materials, and a possible hold-up in supplies of packaging for both home and export trades may follow.

★★

**THE RIBA COUNCIL INVITES APPLICATIONS for the full-time appointment of LIBRARIAN to the Institute following the resignation of Mr. R. E. Enthoven.**

The primary requirement for the post is a knowledge of architecture. Experience of library administration will also be considered an advantage. Applicants must be aged be-

tween 30 and 45. The minimum salary will be £750, rising by annual increments of £25 to £1,000 less superannuation contributions at 5 per cent. Forms of application and further particulars may be obtained from the Secretary, RIBA, 66, Portland Place, W.1.

**Mr. MAX LOCK in his report on SEATON CAREW considers the possibility of the village making an ideal holiday resort.**

Mr. Lock's suggestions would involve doubling the present population. His short-term proposals include the provision of better hotel accommodation, boarding-houses and public houses, the complete reconstruction of the front with adequate shops and places of amusement, and the remodelling of the Marine and Seaton Hotels; extension of the sea wall from Seaton Lane to its southern extremity and beyond; gardens and bandstands on the sea front; a permanent amusement centre south and east of the existing golf club house, which would be moved farther south; first class concert hall and restaurant, with gardens and open air swimming baths; a 50-acre sports centre; and an intensive tree planting project designed to reduce the effects of strong wind.



*Final arrangements have now been made for DESIGN WEEK WALES, which will be held in CARDIFF, April 12-17.*

The programme of conferences and the exhibition "design fair" are being organized by the CID in co-operation with the industrial and commercial organisations of Wales and Monmouthshire, the local and education authorities and the women's and youth voluntary organisations of the principality. In addition, many professional and cultural bodies and people prominent both nationally and locally in the fields of industry, commerce, education and industrial design are participating. The Design Week Committee approved a programme which includes conferences for industry, the distributive trades, and the showing of special films.

*Sir Lancelot Keay: My Christmas Appeal on behalf of the dependents of the ARCHITECTS BENEVOLENT SOCIETY has produced the sum of £783 15s. 11d.*

While this amount has been exceeded in earlier years, says Sir Lancelot Keay, I think it is creditable at this time of difficulty and uncertainty, and I am most grateful to the 799 architects who sent donations. I would like to thank them, particularly the anonymous donors, on behalf of those in distress who are unable to express their own thanks. I would assure all donors that their generously given contributions are meeting a very real need, especially at this time. The fund is still open.

## NEWS IN BRIEF

*The Council of Industrial Design* on March 3 showed representatives of the Press some model furniture built on a scale of 1 in. to 1 ft., intended for use in planning the arrangement of furniture in small houses. With a view to making a closer link between the consumer and producer of furniture, courses have been arranged for retailers and their staff, and the use of models on floor-plans is suggested as a better method than architects' drawings.

*Coventry's layout of 300 years ago* is to be perpetuated in a 30-ft. square mosaic map which will be incorporated in the pavement of the shopping precincts to be constructed as part of the new city centre. This contribution is being made jointly by the Coventry and Warwickshire Society of Artists, who are designing the mosaic, and the Coventry branch of the Association of Building Technicians, who will lay it.

*Ham House, Petersham, Surrey,* may become a national museum. The Government are prepared to buy the contents, which includes the finest and most varied collection of Charles II furniture remaining in its original house.

*Sewerage Works near Little Marlow,* proposed by the Wycombe Rural Council, are causing protests from residents anxious to preserve a famous beauty spot. Winter Hill, overlooking the area, belongs to the National Trust.

*Replanting in Richmond Park* is progressing well. Queen Elisabeth's Wood, a post-war project of the Ministry of Works, is completed. It consists of 2,500 trees, half oak, the remainder beech, hornbeam and sycamore. Further plantations are planned.

## PAYMENT BY RESULTS

**I**T is perhaps too early to judge the success of the Payment by Results schemes adopted in the building industry in the autumn of last year. There are, however, encouraging signs from the Housing Returns that some rhythm of work has been re-established, and that progress in productivity may at last have begun to show results, but it is impossible to tell how far this is due to the bonus schemes.

What is to be expected from the renewed attempt at bonusing? Some light on this question may be derived from the pamphlet on Payment by Results published by the Ministry of Works last October,\* which dealt with the "official" Payment by Results scheme which began in July, 1941, and ended on March 31, 1947. This six-year long experiment yielded knowledge previously wholly lacking on the possibility and usefulness of bonusing building work.

The basis of the official scheme was two-fold. First, there was the principle that the operative should receive a payment over and above his plain time-rate for time saved against a target, while the employer would gain from the speedier completion of the work. Secondly, there was the principle of a schedule centrally laid down (it was, of course, originally intended that the schedule should be agreed between employers' and operatives' representatives), which, with permitted variations, was to be applied nationally.

On the whole, the war-time scheme operated successfully, the average level achieved being 34 per cent. above the basic level. This result could not have been attained if the workers on the sites, and the employers' representatives, who had to measure the work, had not co-operated fully. The bonuses earned averaged 7d. per hour for craftsmen and 5d. per hour for labourers, which seemed reasonable. The adjustments made to the basic rates to allow for site conditions were not generally very large—in the case of bricklaying, for instance, the adjusted basics averaged only one brick per hour less than the rates in the original schedule. On an adjusted basic average of 54 bricks per hour for 14-in. walls pointed one side, the actual rate achieved was 82 bricks per hour, while for 9-in. rough work, on an adjusted basic of 49, a rate of 74 was reached.

While the scheme undoubtedly justified itself in the esteem of the Government—which in war-time stood to take the blame if the building programme fell into arrears—it has not received much public acknowledgment. Still less has it been acclaimed by the spokesmen of the industry. There appears to be a good and simple explanation of this attitude: namely, that a nationally agreed and workable bonus scheme would tend to conflict with the interests of those organisations that speak for both the employers and for the operatives. The employers fear Government interference; the unions an attack on time-rates. The nationally-agreed time-rates are the charter of their liberties, the symbol of their bargaining strength.

\* Payment by Results by the Ministry of Works. H.M.S.O. price 6d.

Thus the "enthusiasm" of the rank and file manager or operative is in strong contrast with the tepidity of the organised industry. Sudden and startling successes are hardly to be expected, therefore, from the new bonus schemes being introduced. In particular, they violate the second principle of the war-time scheme, since there is to be no national schedule of basic rates. Even the war-time scheme, moreover, only covered 60 per cent. of all the man-hours worked on the sites. Nevertheless, since the principle of payment by results has been accepted, it may be hoped that its details are now being worked out on the site on practical lines. It may be hoped, too, that all the war-time experience is not being wasted, but that the schedule rates are being taken as a starting-point for discussions. Statistics and information previously lacking, are essential for site-planning. Despite the set-back to the building programme caused by the economic crisis, 1948 may still be a year of considerable advance in the building industry, if the problem of incentive payments can be even partially solved. The industry will then be in better trim to cope, in 1949 or 1950, with a renewed burst of capital expenditure on construction.



*The Architects' Journal*

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N O T E S

&

T O P I C S

#### ROYAL VISIT

The exhibition at the Tate Gallery of the *Review's* Plan for Westminster was honoured last week (see facing page with a visit from HM the Queen, who revealed that she had read of the plan in the *Review* with great interest. After asking a number of questions about access, traffic regulations and the possibilities of realiza-

tion, Her Majesty particularly commended the redesigning of Parliament Square, saying, "It would indeed be charming to regain the peaceful atmosphere of the Houses of Parliament"—adding, "I mean outside, of course; never, I hope, inside."

The exhibition will be at the Tate for another two weeks in case you and your friends haven't yet seen it. After that it goes to the Library of the House of Commons.

#### PRESSED STEEL TO IRON CURTAIN

Thomas Sharp's Oxford Plan continues to arouse great controversy, and his book, *A New Tale of Two Cities*, is a local best seller. Having stirred up this hornet's nest, Sharp has wisely retired (by kind permission of the British Council) behind the iron curtain. He has gone to Sofia (and no farther) to lecture on "Town Planning in the British Isles." He will no doubt find that the consumption of Yoghurt does not prevent the Bulgarians from being eager to discover what he has to say, and if the attitude of other Balkan countries is any guide, there will be a ready acceptance of his views on balanced communities.

Information on architectural developments in the Balkans is hard to come by, and it is to be hoped that

he and Bob Henning (who is lecturing in Belgrade) will be able on their return to bring back news of what is going on there in the way of building—unless they both decide to settle in countries where town plans seem to have a better chance of realization than they have here.

#### THE FARINGDON REPORT

A sub-committee of MOH's Central Housing Advisory Committee, under the chairmanship of Lord Faringdon, has published a report\* on ways to improve the appearance of housing estates. The report, absurdly enough, has no illustrations, but an illustrated booklet by Miss Brenda Colvin, called *Our Gardens*, will be issued later.

The report is written in a kindly, determined - to - make - every - allowance style, lists the most obvious defects and difficulties and proposes remedies. Probably everyone has his own opinion on the worst fault of housing estates. I think that the absence of privacy in back gardens is the greatest defect in small housing layouts of all kinds, and that this, by undermining tenants' interest in their gardens, may be one of the main causes of poor appearance. I have been in a garden measuring about 30 by 50 feet on a fine afternoon when everything down to one's shoelaces was clearly visible to people in about five other gardens. The Faringdon Committee recognizes this as a serious defect and suggests certain remedies, but I think more attention might have been given to it. For example, the lean-to sheds recommended at the bottom of gardens might be combined with a screen wall projecting from the houses, and a few large trees on the boundary between back gardens will work wonders in giving a sense of privacy without unreasonably overshadowing the plots of keen vegetable growers. Like many other architects, I am also anti-creeper.

The majority of the recommendations do seem to suggest the best ways of tackling very tough problems. Some big trees will immensely improve the dreariest estate, grass and two fruit

\* Ministry of Health. *The Appearance of Housing Estates*. H.M.S.O. 1948. P. price 6d.



## LETTERS

Roy T. Christy, B.Arch., A.R.I.B.A.

## The AA and Liverpool

SIR.—I hope you will forgive my making comment on an *Architects' Journal* leading article of so far back as December 11, but I have recently returned from a few weeks' journeying abroad and have only now read this leader.

The article stated that one of the main functions of a university school of architecture was to give us a glimpse into the future of architectural ideas and expression, and that according to this definition the AA was a university school in a way in which the Liverpool school was not. What the future of architectural ideas and expression will be is a matter for speculation, and whether the AA gives us a more realistic glimpse of the future than other schools must also be so.

There is, however, one respect in which Liverpool is a university school in a sense which, as far as I am aware, no other English school is. It is perhaps the only school in which two main and contrary schools of thought are tolerated and where a truly Catholic atmosphere still remains.

Other schools, to use the *AJ's* terminology, are either "avant garde" or "reactionary." In the Liverpool school only, certainly in my own experience of a few years ago and, I am told, still, both movements have made an original contribution in their own way. This, in a world of increasing partisanship, is a remarkable thing.

As a supporter of the "avant garde" in architecture, I know that much of the work of Liverpool students during the last four years has been as far advanced as that of any other school in England. What is not generally known, however, is that side by side with this work existed an attempt by one group to reinterpret the classical idea, accepting many of the advances in technique and materials that a contemporary architect would accept. This movement resulted in a series of extremely interesting designs which proved for me that originality and progress were still quite possible within the classical tradition, a series of designs which had nothing to do with early Liverpool beaux arts or with "municipal classical" or "competition classical," but which were as highly daring and new compared with any classic revival building, as some of these buildings were compared with their models. This was a movement hardly known outside Liverpool which may yet have an influence on the future architecture in England.

Needless to say, the fact that an original development of classicism is quite possible does not necessarily mean that it is desirable. This belief can only receive its justification in philosophy and theology, an attempt which the participants in this movement were quite willing to make.

In all the history of the art academies and schools of architecture I can find no evidence to show that such a radical cleavage of opinion has been tolerated, and that supporters of one school of thought or the other have not been penalised. This toleration should, I believe, be possible in a university, and has obviously long been realized in subjects other than architecture.

In this tolerant universality of its views lies, I believe, the peculiar contribution of the Liverpool school to architecture during the last few years.

I have not the slightest wish to belittle the great part that the AA has played in furthering the cause to which I personally subscribe, nor do I wish to present my remarks as an official Liverpool view. If the Liverpool school authorities or its present students disagree with what I have said, they will, of course, contradict me.

Kingston

ROY T. CHRISTY

trees will keep a back garden pleasant with an absolute minimum of labour, and colour-washing will brighten the most melancholy concrete blocks. The surroundings of blocks of flats was recognized as the toughest problem of all. The introduction of large and small trees, window-boxes and plants in tubs or troughs, as recommended by the Committee, would bring about a great improvement at a minimum cost in maintenance.

## "THE REVIEW'S" NEW LOOK

Almost equally tough have been the problems involved in changing the appearance of *The Architectural Review*. Readers who missed the announcement of its coming change of page size must have had a shock when they unwrapped the March number. For so long largeness has been its hallmark, and the grumbling letters from readers, of which no magazine is without its share, have, I believe, mostly been of two kinds: those which said the *Review* was too difficult to read in bed and those which said its large pages made it impossible to read anywhere else but in bed.

Having made the gesture of refusing to reduce the page size in the face of the enemy all through the war, the *Review* is now doing so, as a temporary measure, and only in the face of the logic of mathematics. The latest cut in the paper ration would have reduced the number of the old large pages to an impossible degree; the new size gives the reader more pages than were possible even before the cuts. Those of you, both in and out of bed, who ever grumbled at the old layout will notice that the opportunity has been taken of seeing what layout ideas the new size suggests, while the rest of you, who may be saying that now you can't tell *The Review* from *The Forum*, are reminded that *The Forum* carries its title large and clear upon its cover, while on *The Review* you still have to look for it.

## TWO INTERNATIONAL COMPETITIONS

Here, to remind you, are details of two more than usually interesting competitions. First of all, the Museum of Modern Art wants designs for low-cost furniture in two groups—seating units, which include upright and arm chairs, sofas, daybeds or benches—and storage

units. Prizes in each group are 5,000, 2,500 and 1,250 dollars, and the winners will also get a royalty on the furniture sold. Distinguished assessors include our Mr. Gordon Russell. The other competition is for a new road link (bridge or tunnel) between Stockholm's Södermalm and Östermalm. More distinguished assessors include your own, your very own, Sir Patrick Abercrombie, and the first prize is 20,000 crowns. So go to it, stylists and planners, and earn some foreign currency. I should expect competition to be pretty fierce, but you'd almost certainly rate a trip abroad as well.

## NEWS FROM ALL OVER

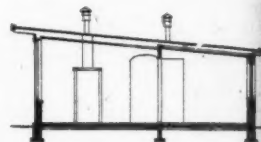
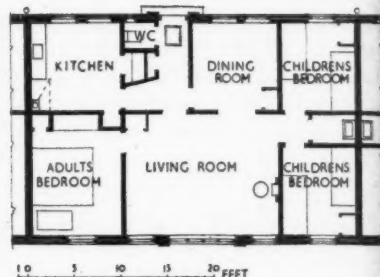
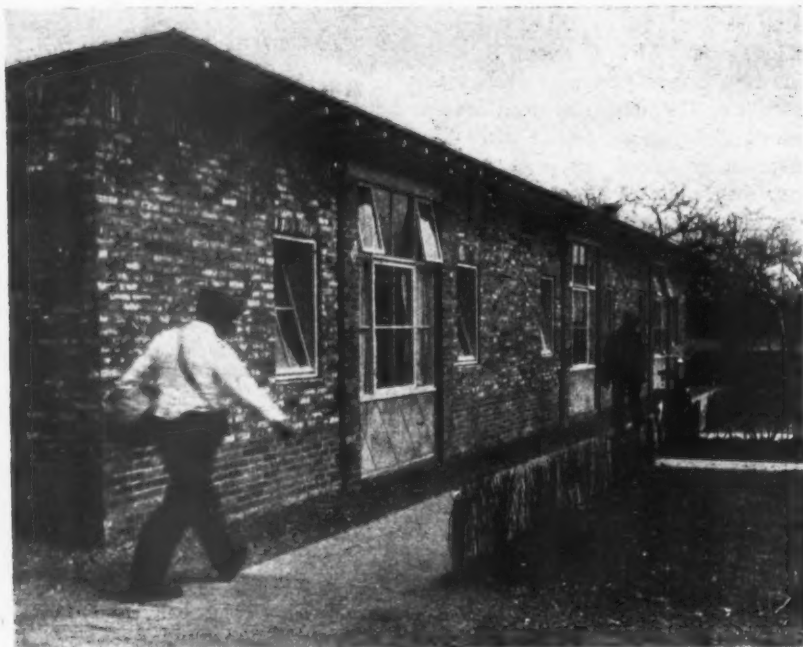
A Cardiff reader, asking in a London store for a drawing board, was directed firmly to the toy department; a Warwickshire reader, calling in at a local public library for a look at the *AJ*, was allowed to see it only after filling up a form ("People are always tearing out those black diagrams," he was told); a recent issue of the R.I.B.A. Journal carries advice (page 130) upon "The Use of Tiles by members of the RIBA"; in America you can buy, God help you, a small pink moulded plastic elephant, "suitable for an ornament in your private bar," provided with a patent "scratchpruf" bottom, and marketed under the name of "Pixillated Pachyderm," by a firm called "Chucklecraft, Ltd." And I do hope this hasn't spoiled your Easter.

ASTRAGAL



Her Majesty the Queen arriving at the Tate Gallery when she visited *The Architectural Review's* "Westminster Regained" Exhibition last week. With her is John Rothenstein, Director of the Tate Gallery.

## EMERGENCY HOUSING IN HOLLAND



Above; exterior, plan, entrance elevation and section of standard emergency house. Left, emergency farm houses in flooded areas.

The Dutch programme of post-war emergency housing differed from the English one in that prefabricated systems of construction were very

little used. The building industry, at the end of the war, was even less organised for mass production and there were no large-scale war industries to be converted to the manufacture of housing components. In the fulfilment of the post-war programme, moreover, housing requirements in different parts of the country have never been co-ordinated in a way to encourage planned factory production of components on an economic basis. The traditional brick construction is also preferred on sentimental grounds and because brick is the one material produced inside Holland in sufficient quantity.

The so-called emergency houses are therefore of a semi-permanent type, being expected to remain in use for about thirty years. A large proportion are of the standard single-storey design, with a one-pitch roof, illustrated in the photograph and drawings at the top of this page. A number, however, with the same plan and general outline, have been erected in timber. These were manufactured in Sweden from designs prepared by Dutch architects.

The emergency houses have been built in terraces of about half-a-dozen, chiefly in the smaller towns and in the battle-field areas. Their use was generally confined to municipalities where more than 20 per cent. of the total number of houses had been destroyed or damaged. About 13,000 emergency houses have been built, providing 5½ per cent. of the total housing shortage. The programme has now been completed and labour and materials are being concentrated on permanent housing and in particular on flats in the larger towns.

The above figure of 13,000 includes the emergency farm houses which were designed as part of the rehabilitation plans for the flooded areas. Two specimens of these are illustrated on the left and further details are given on page 270.





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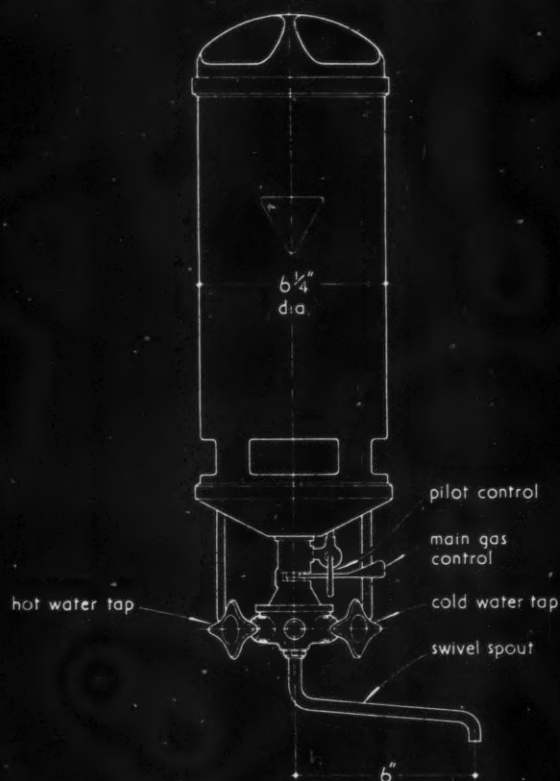
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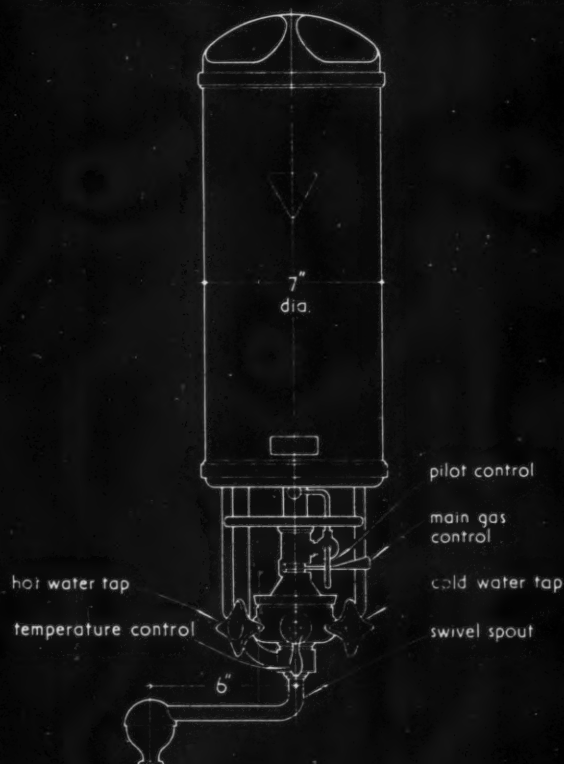
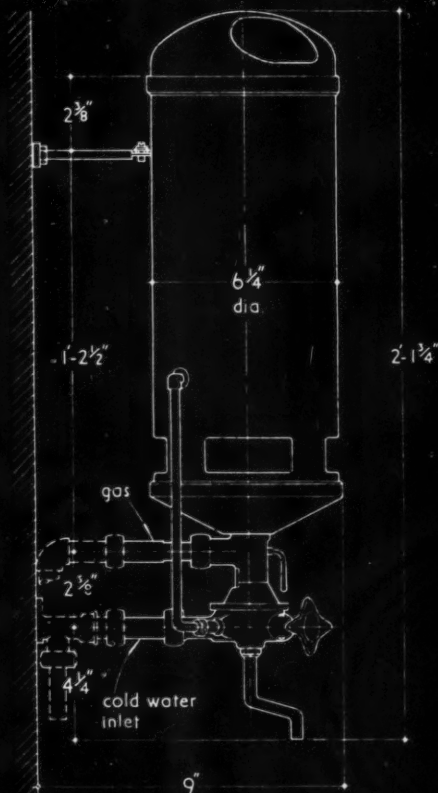


**WATER HEATING UNITS GAS****32.C21**

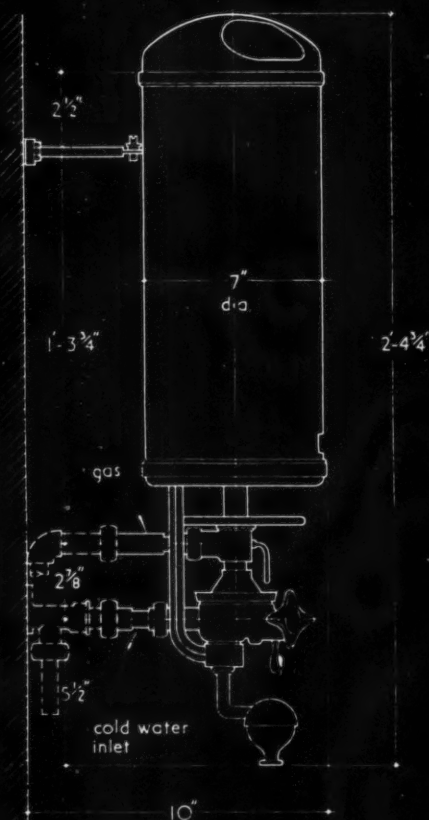
The Architects' Journal Library of Information Sheets 51. Editor: Cotterell Butler, A.R.I.B.A.



TYPE R.12/4 SMALL SINGLE POINT HEATER  
providing hot water supply to kitchen sink or cloakroom basin etc.



TYPE RS.52/1 SINGLE POINT BOILING WATER HEATER  
providing warm, hot and boiling water to kitchen sink for domestic use e.g. tea and coffee making.



ASCOT: INSTANTANEOUS GAS WATER HEATERS.

Manufacturer: Ascot Gas Water Heaters Ltd.

## 32.C21 ASCOT INSTANTANEOUS GAS WATER HEATERS

This Sheet describes Ascot instantaneous gas water heaters.

**Type R. 12/4 :** This heater is designed to provide a single point hot water supply to a kitchen sink for culinary and other household purposes, or for toilet use at a cloakroom basin, etc. Hot and cold taps are fitted and any temperature between cold and 150°-160° F. may be selected, the supply being delivered through a swivel spout which can be utilised to serve two adjacent fittings.

**Type RS. 52/1 :** This heater is designed to provide the same service as type R. 12/4 but in addition supplies boiling water for domestic uses such as tea or coffee making within one minute of turning on the hot tap. Hot and cold taps and a 3-position temperature selector are incorporated so that any temperature between cold and boiling may be selected, the supply being delivered through a swivel spout.

**Note :** The above heaters are of the open outlet type and must on no account be connected to any restriction in the form of taps, piping, or fittings, etc.

**Characteristics****Type R. 12/4 :**

**Output :** 500 B.Th.U./minute,  
or 1.25 gal./min. raised through 40° F.,  
or 0.83 gal./min. raised through 60° F.,  
or 0.5 gal./min. raised through 100° F.

**Input :** 625 B.Th.U./minute,  
or 1.25 cu. ft./min. of 500 C.V. gas.

**Type RS. 52/1 :**

**Output :** 520 B.Th.U./minute,  
or 1.3 gal./min. raised through 40° F.,  
or 0.5 gal./min. raised through 104° F.,  
or 2½-3 pints/min. of boiling water.

**Input :** 650 B.Th.U./minute,  
or 1.3 cu. ft./min. of 500 C.V. gas.

**Components****Automatic valve :**

R. 12/4 : Prevents gas passing the burner unless a predetermined minimum flow of water is flowing through the heater.

Type RS. 52/1 : Similar to type R. 12/4, but incorporates a 3-position temperature selector ("warm," "hot" and "boiling") and a water governor which automatically controls the flow of water on settings "hot" and "boiling" irrespective of variations in water inlet pressure.

**Heating body :**

Type R. 12/4 : Cylindrical combustion chamber and two-stage finned type heat exchanger.

Type RS. 52/1 : Cylindrical combustion chamber and centrally positioned heating chamber surrounded by a two-stage finned type heat exchanger. The heating chamber houses a float valve, the function of which is to ensure the delivery of boiling water irrespective of fluctuations in gas and water pressures.

**Burner :** Luminous pinhole type, incorporating pilot safety device.

**Main gas and pilot cocks :** Interlocking.

**Outlet spout :**

R. 12/4 : Chromium plated spout, standard 6 in. ; non-standard at extra cost, 10 in., 14 in. and 18 in.

RS. 52/1 : Special bulbhead design to separate steam and water, standard 6 in. ; non-standard at extra cost, 10 in. and 14 in.

**Finish**

White vitreous enamel. Visible fittings chromium and nickel plated.

**Installation**

**Position :** Both heaters are freestanding, the weight being taken by the pipework, but a top wall fixing clip (supplied as an extra) can be used to steady the heater at the top rear of the outer shell. Where the pipework cannot be secured to an adjacent wall, or where specific installations require a high class finish, details of alternative methods of support using a bracket suitable for attachment to a 3 in. ledge or sill, or a chromium plated support pillar which houses both gas and water piping, are available from the manufacturers.

**Gas : Connection :** Straight or bent connection with union, lining ½ in. tapered B.S.P. male thread. Elbow union with wall plate and lining suitable for ½ in. pipe, available as an extra.

**Supply pipe :** Up to 15 ft. from the meter—½ in. int. dia.

15-30 ft. from the meter—¾ in. int. dia.

Over 30 ft. from the meter—1 in. int. dia.

**Meter :** Rated capacity to be not less than 80 cu. ft. per hour in addition to requirements for all other gas appliances.

**Stop cock :** Must be fitted in the supply line close to the heater to facilitate maintenance.

**Water :** Preferably from mains supply. Permission must be obtained from the Water Authority before connection.

Type RS. 52/1 : Maximum pressure limitation, 120 lb./sq. in.

**Tank :** Minimum head required 15/20 ft. measured vertically from the level of water in the tank to the level of the water section.

**Connection :** Straight or bent connection with union, lining ½ in. B.S.P. male thread. Elbow union with wall plate and lining for ½ in. pipe available as an extra.

**Supply pipe :** ½ in.-¾ in. depending on length of run and available pressure.

**Stop cock (of pattern approved by Water Authority)** must be fitted in the cold water supply close to the heater to facilitate maintenance.

**Flue**

Not normally required ; where ventilation of the room is inadequate, or when the duration of a single operation is likely to exceed 10 minutes, a flue should be fitted. A draught diverter for 3 in. internal diameter asbestos cement pipe is available as an extra from the manufacturers.

Compiled from information supplied by :

Ascot Gas Water Heaters, Ltd.

Head Office : 43, Park Street, London, W.1.

Telephone : Grosvenor 4491.

Works : Ascot Works, Neasden, London, N.W.10.

Telephone : Willesden 5121.

Telegrams : Gascot, Phone, London.

Branch Offices : Belfast, Birmingham, Bournemouth, Bristol, Cambridge, Glasgow and Manchester.



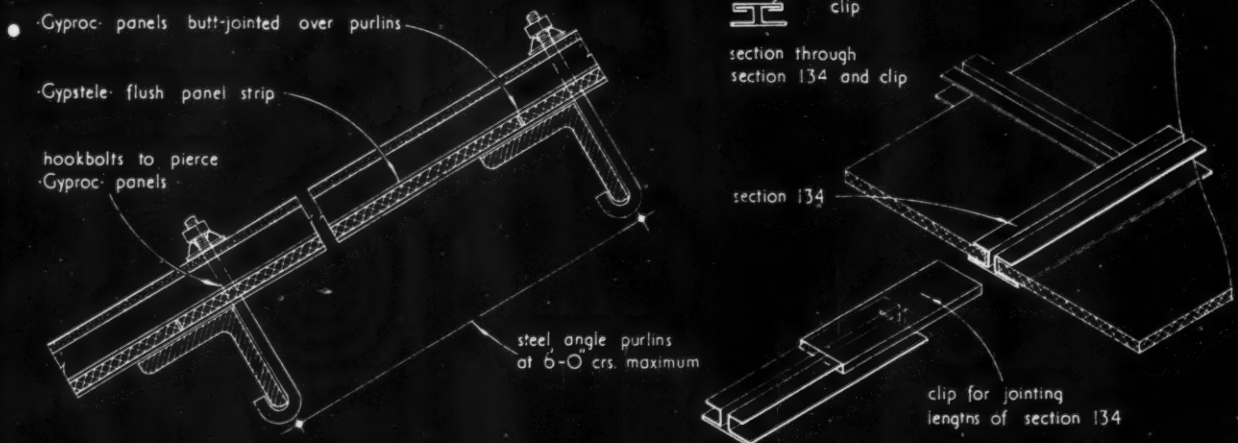
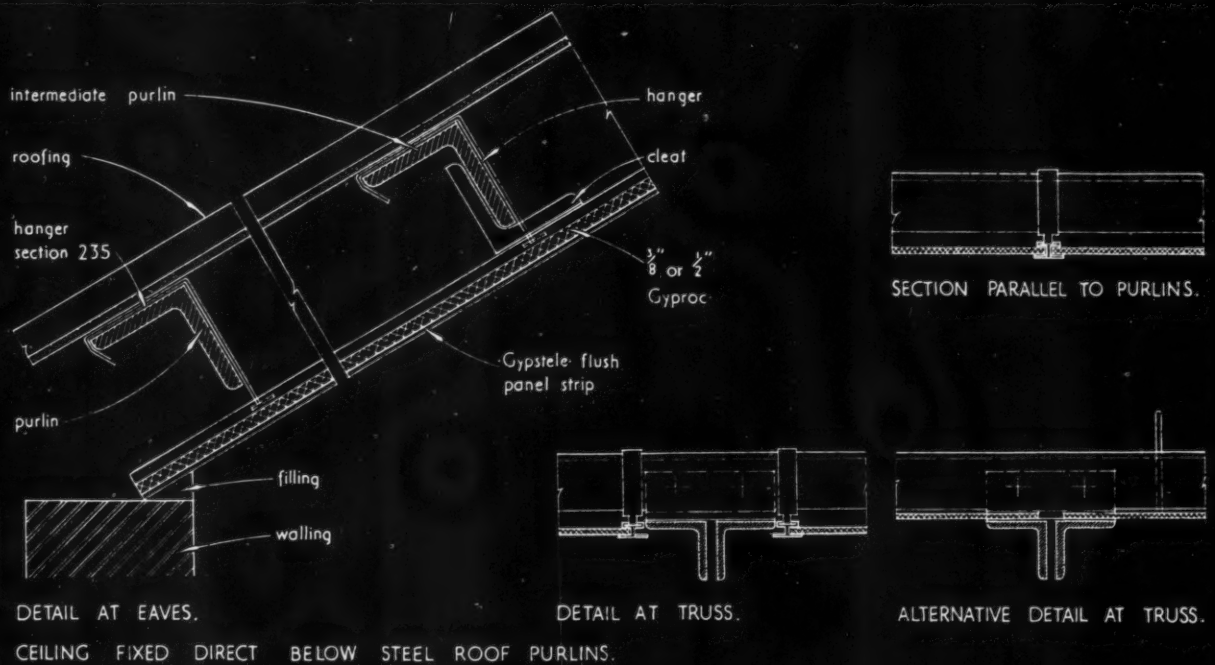




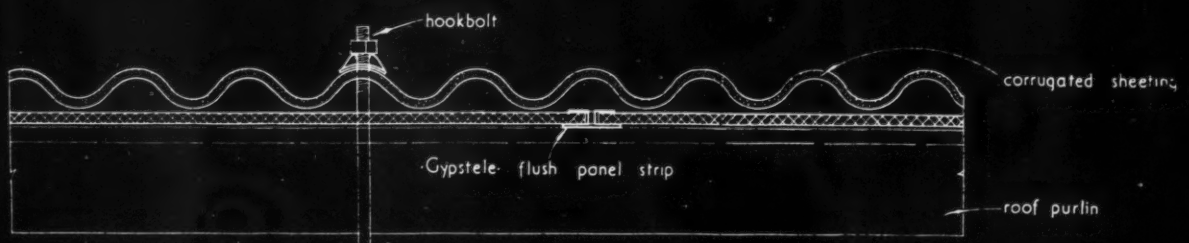
## CEILINGS | PLASTER BOARD

22.E2

The Architects' Journal Library of Information Sheets 52. Editor: Cotterell Butler, A.R.L.B.A.



TYPICAL PART CROSS SECTION THROUGH ROOF.

PART SECTION THROUGH ROOF PARALLEL WITH PURLIN.  
CEILING FIXED DIRECT ABOVE STEEL ROOF PURLINS.

## 22.E2 ·GYPSTELE· CEILINGS: FIXED DIRECT TO ROOF MEMBERS

This Sheet is the second of two dealing with ·Gypstele· ceilings and gives details of the ceiling fixed direct to roof members. Sheet 22.E1 describes ·Gypstele· suspended ceilings. Both Sheets supersede previous Sheets in the original Library on the same subject : Nos. 958 and 959.

### General System

·Gypstele· ceilings combine the use of ·Gyproc· fire-resisting plasterboard as panels with mild steel patented suspension and jointing members, forming light-weight structurally strong linings.

Where abnormal conditions of moisture occur, *i.e.*, in bath-houses, laundries, cook-houses, etc., it is recommended that primed ·Gyproc· be used.

### Fixing

Two methods of fixing are illustrated on the face of this Sheet.

*Ceiling fixed below steel roof purlins :* The ·Gypstele· flush panel strips securing the ·Gyproc· panels are fixed to the purlins by means of key hangers. Two details are shown giving alternative treatments at the truss.

*Ceiling fixed above steel roof purlins :* The corrugated sheeting hook bolts are passed through the ·Gyproc· panels fixing them to the top of the purlins. The flush panel strips securing the ·Gyproc· panels are joined together with pressed metal clips. A summary of methods for attaching strap hangers to structural roof or floor members is shown on Sheet 26.J3.

The ·Gyproc· panels are 4 ft. 0 in. by 2 ft. 0 in. by  $\frac{3}{8}$  in. or  $\frac{1}{2}$  in. thick, and weigh 14 and 20 lb. per yard super, respectively. The panels may be cut to special sizes with an ordinary handsaw.

### Finish

The protective finish of the metal flush panel strips allows the use of the same paint or distemper as for panels.

### Trade Name

This is a proprietary system manufactured under the registered trade mark ·Gypstele·.

Compiled from information supplied by :

### Gyproc Products, Ltd.

Head Office : Westfield, Upper Singlewell Road, Gravesend, Kent.

Telephone : Gravesend 4251-4.

Telegrams : Gyproc, Gravesend.

London Office : Morris House, 1-5, Jermyn Street, London, S.W.1.

Telephone : Whitehall 9821-5.

Glasgow Office : Gyproc Wharf, Shieldhall, Glasgow, S.W.1.

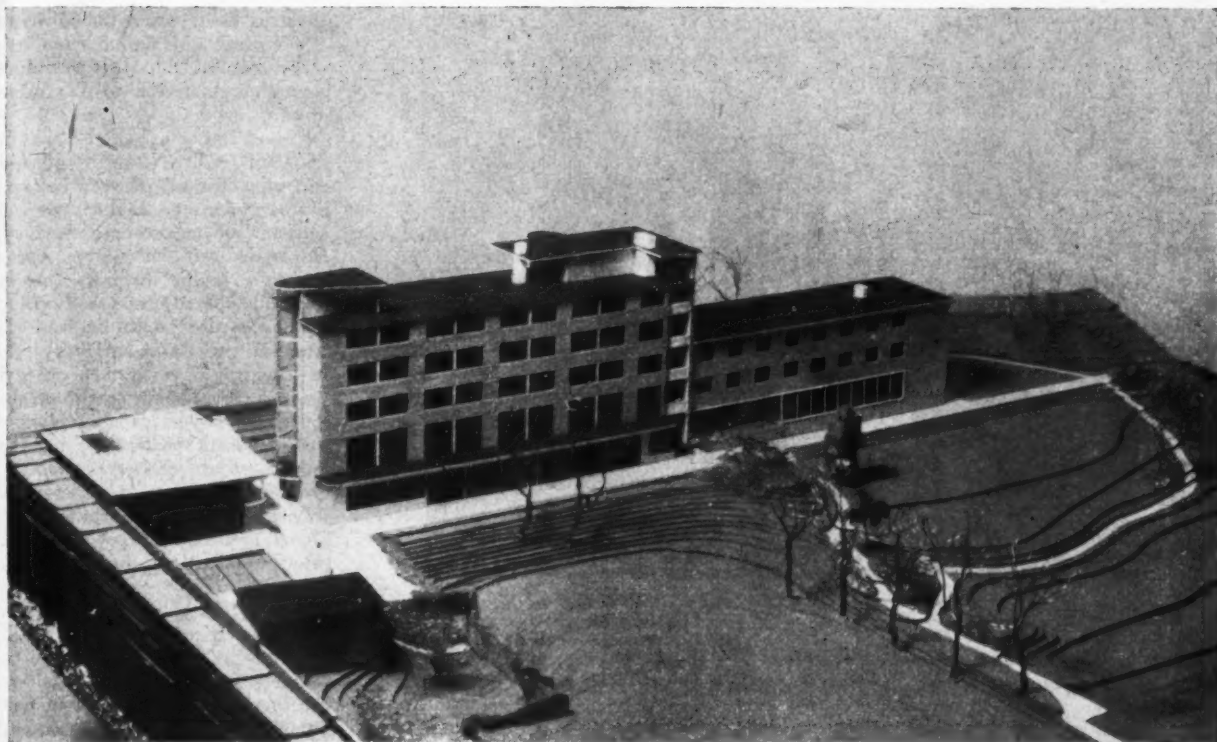
Telephone : Govan 614-6.

Telegrams : Gyproc, Glasgow.

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



*The model from north-west.*

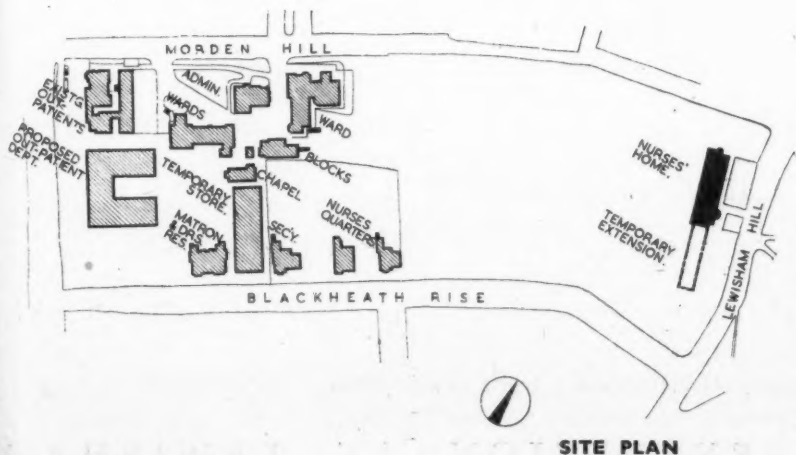
# NURSES' HOME EXTENSION AT ST. JOHN'S HOSPITAL, LEWISHAM

DESIGNED BY BERTRAM CARTER

**GENERAL.**—The present extension to the original nurses' home, built to the same architect's plans in 1937 is to replace accommodation lost during the blitz. The 1937 home represented 2/5ths of the intended whole. It included the kitchens and dining rooms of the completed home of 130 bed-sitting rooms, but excluded the sitting-recreation, and writing rooms. In this extension the lower ground floor is allocated to an all-purpose cinema and demonstration room, discussion and silent study rooms, and a study office for the sister tutor.

**SITE.**—The hospital site is an island of some seven acres, with N.E.-S.W. fall of 80 ft. 0 in., the lower western end abutting densely populated districts of Lewisham and Deptford, the eastern end over-looking Blackheath.

**PLAN.**—The plan is of the central corridor type, running north-south, ensuring sunshine to all rooms on either side. The entrance is on the eastern side (where the bath-rooms, kitchens, etc., are located),





From the south-east.

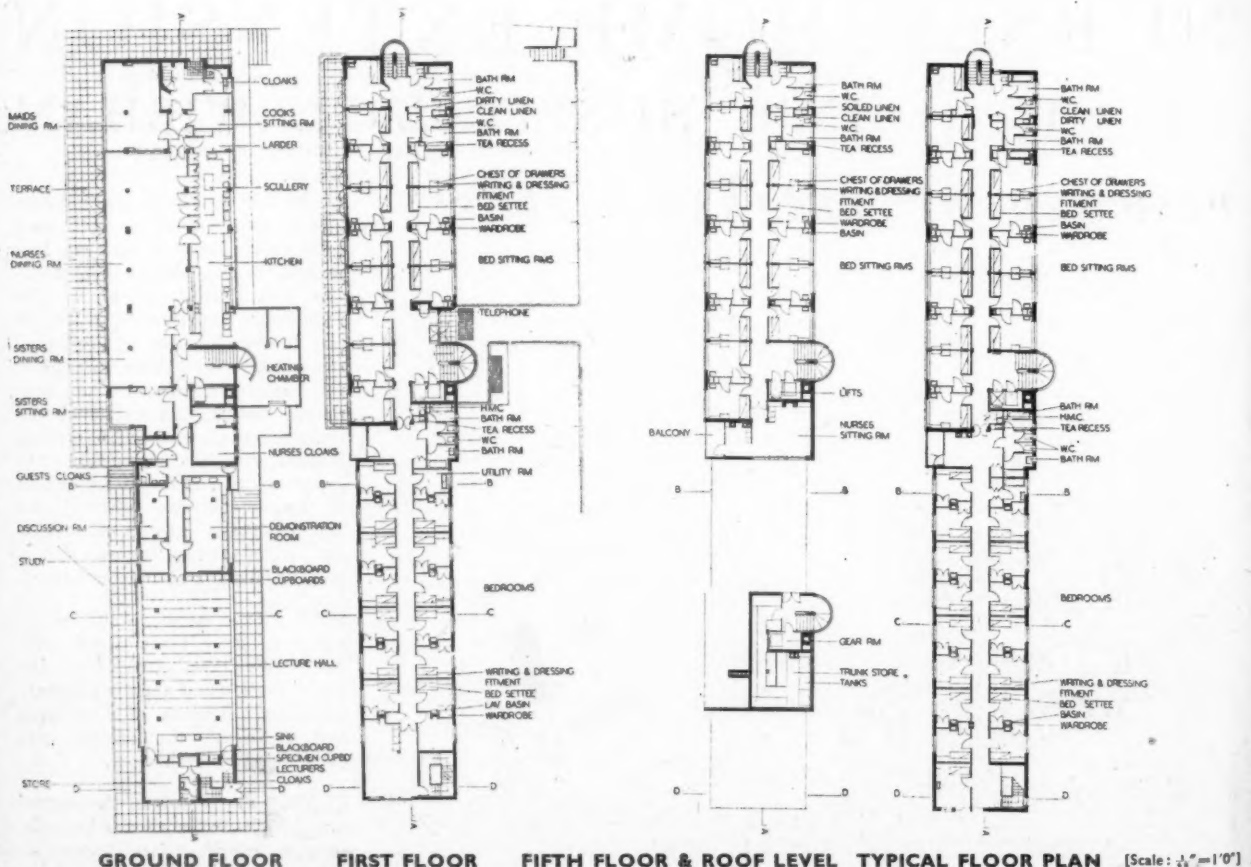
leaving the western side free for dining rooms, overlooking the extensive grounds. All the sitting rooms are placed at the southern extremity, with additional windows (or balconies) on the western. One innovation is the back to

back position of the bedroom lavatory basins, recessed for privacy between the wardrobes in the centre of the room. The plumbing and services (including rain water pipes) are carried down the columns forming the aisle of the lecture

theatre. Double partitioned rooms are entirely insulated from the structure with felt slips to reduce sound conductivity to the minimum.

**CONSTRUCTION.** — Reinforced concrete frame of cantilevered beams upon a double row of columns of near-concentric load. No beams will be visible, being concealed in the wardrobes, or in the double partition. A false ceiling in the corridors at the under level forms a horizontal services duct. In the ceiling over the lecture theatre the beams spanning the short distance between columns will be within the depth of the long span floor slab. External walls are 11-in. brick cavity, machine-made yellow stocks of uniform texture. Floors and roof are of concrete. Internal partitions, breeze block.

**ELEVATIONAL TREATMENT.** — Clients required similar wall materials as in original building. Coupled standard steel windows set the modulus, the steel cill embodying the required permanent ventilation. The escape stair at the southern end will be of pressed steel, with aluminium treads.



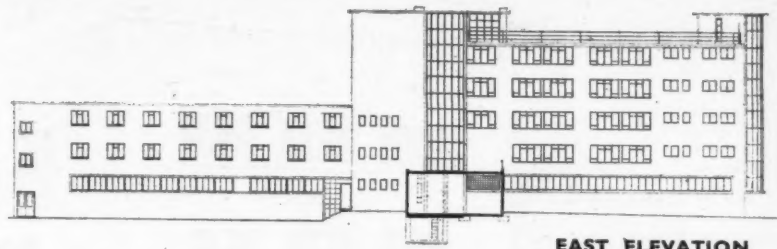
# NURSES' HOME EXTENSION AT LEWISHAM



**INTERNAL FINISH.**—Of necessity, the decorative treatment will be of the utmost simplicity. The ceilings and walls will be distempered. The bathrooms and demonstration rooms are to be enamel painted. Floors will be finished with cork. In bathrooms, etc., floors are of colour asphalt. In the theatre, there will be solid flush doors, "semi-flush" for bedrooms in corridors, bathrooms, etc., and "skeleton" to wardrobes. Built-in furniture to bedrooms will comprise settee, sliding forward from beneath a wall fitment to form a full-width bed with reading light, chest of drawers, dressing-cum-writing table with concealed mirror, and locker, as well as a 4 ft. 6 in. wardrobe. All sitting rooms will have a coal fire, as well as central heating.

**SERVICES.**—Kitchens exist in the original wing, and the heating and hot water system is extended. Radiators in the living rooms, with hot pipes exposed in the wardrobes. Each wing will have its own tea making recess on all floors, clean and soiled linen cupboards, utility rooms for washing clothes, and drying cupboards.

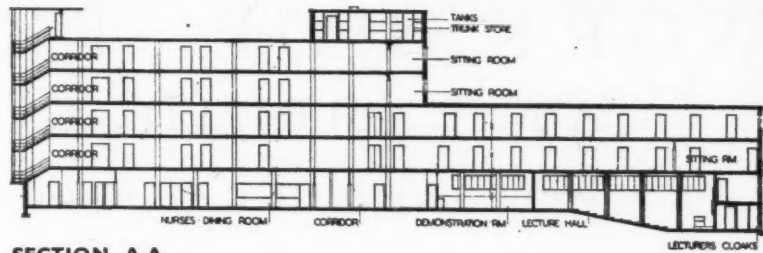
**CONTRACTS.**—Messrs. Thomas & Edge have been appointed contractors.



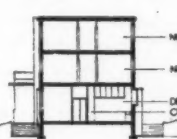
EAST ELEVATION



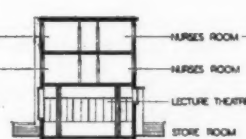
WEST ELEVATION

[Scale:  $\frac{1}{4}$ " = 1'0"]

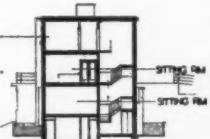
SECTION A-A



SECTION B-B

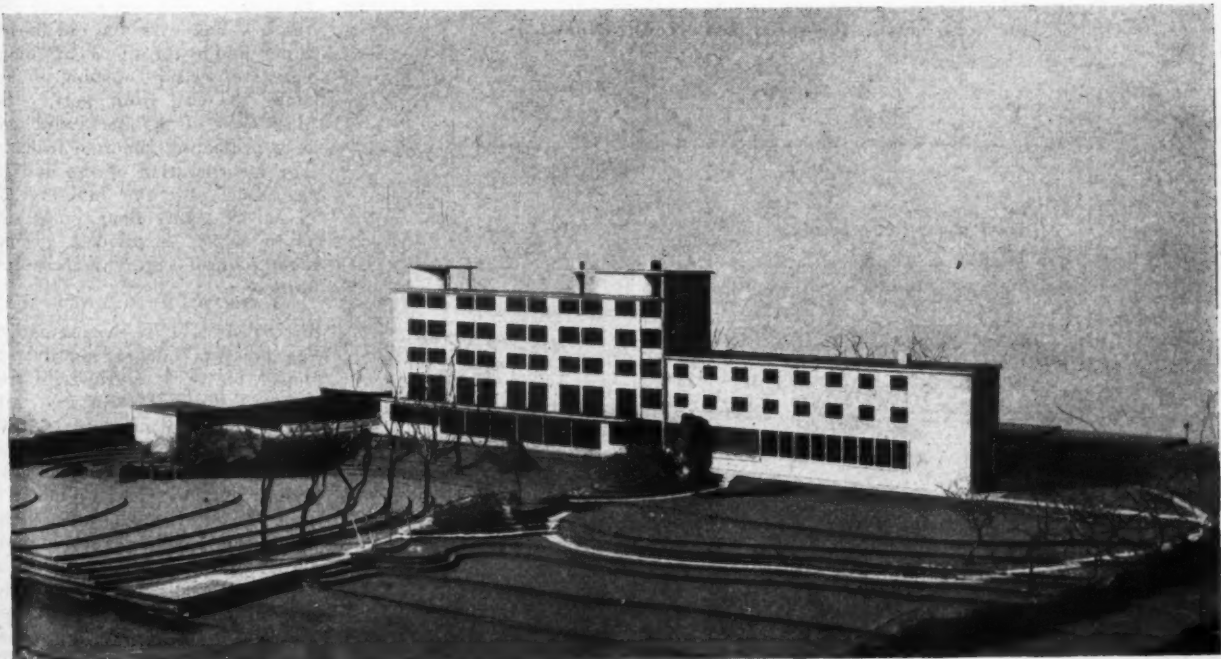


SECTION C-C

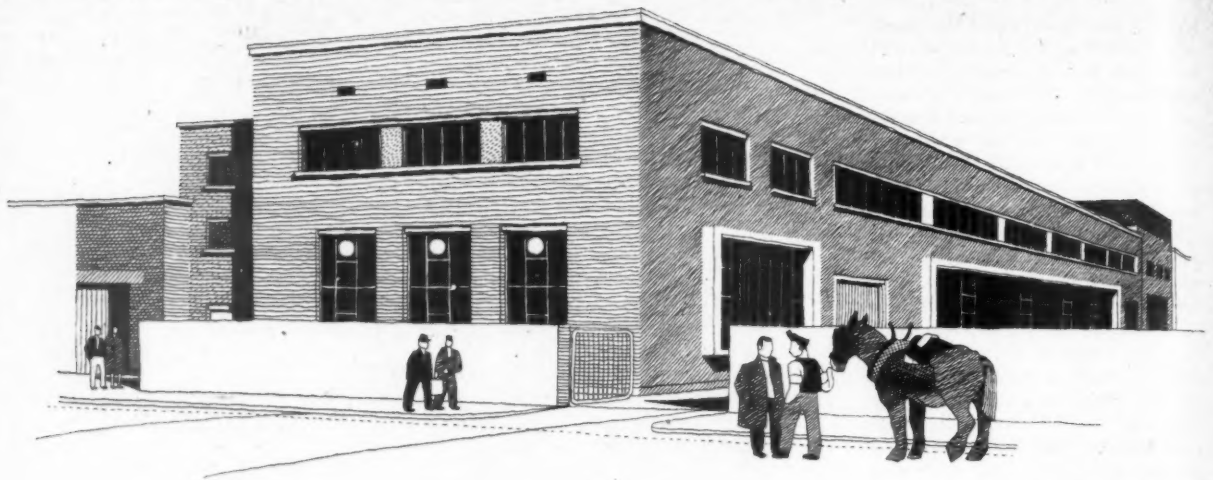


SECTION D-D

*From the south.*



DESIGNED BY BERTRAM CARTER



From Fen Causeway.

# WORKSHOP EXTENSION AT CAMBRIDGE UNIVERSITY DESIGNED BY EASTON & ROBERTSON

In 1930 part only of a new engineering laboratory block was built, and a hydraulics tank was put up, free-standing on six steel stanchions, in the position it would occupy when the whole scheme was completed.

After the war it became urgently necessary to enlarge the faculty buildings. It was decided to complete the project of 1930, but in a different way, namely, to provide new workshops in the space that

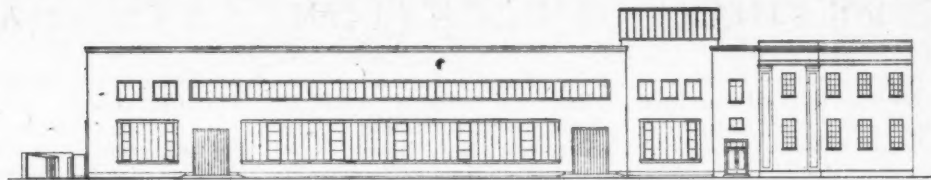
would have been filled by administrative offices in the previous scheme. The problem was to provide the largest possible area of well-lit workshop accommodation, incorporating the hydraulics tank as it stood, and to give good access for workers, students and heavy machinery and stores at different points. Another problem was to provide foundations on bad ground for a building of frame construction.

**PLAN.**—The plan adopted provides two main workshops for machine tools of many kinds where instructional and research prototypes are made. The main requirements are flexibility in the arrangement of machine tools to allow for changes in equipment and grouping whenever new developments take place. The problem of daylighting the main machine shop has been tackled by clerestory lighting over the low link with the old laboratories, and by forming a continuous panel of clear opening lights, along the east front, setting the glass clear of the steel stanchions in a projecting concrete frame. The incorporation of the hydraulics tank into the building has given an extra floor under the tower which is divided up into small rooms for individual research workers.

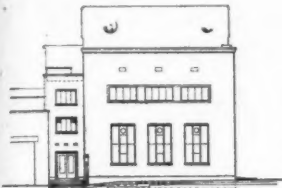
**CONSTRUCTION.**—Foundations are pressure piles to an average depth of 24 ft. with reinforced concrete ground beams cast integrally with the pile caps to carry the walls. The steel frame is uncased to allow for miscellaneous fixings that may be required from time to time. The floors are reinforced concrete cast in situ, the ground floor being in the form of a reinforced raft resting on the ground itself. External walls are 13½ in. solid brickwork, with partitions in 9 in. and 4½ in. fairface brick; the offices are divided up



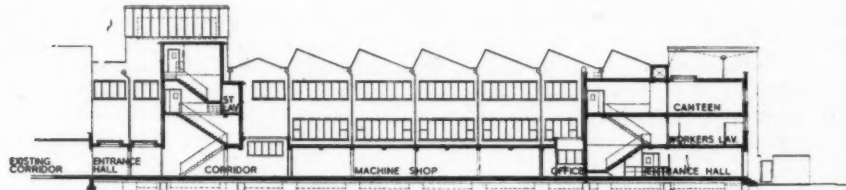
SITE PLAN



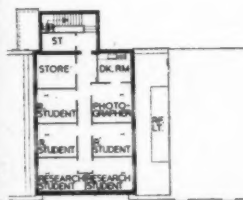
FRONT ELEVATION



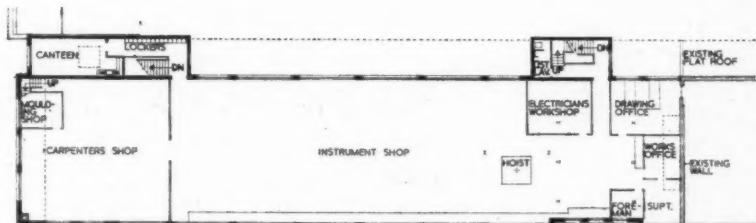
END ELEVATION



SECTION



PLAN OF TOWER

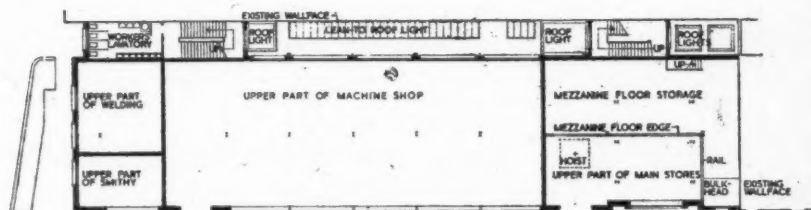


FIRST FLOOR

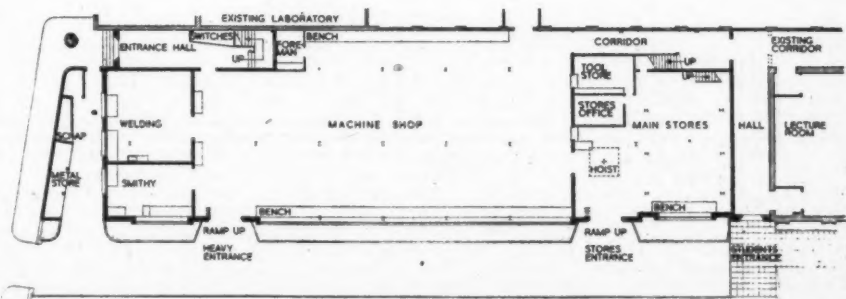
by metal glazed demountable partitions. North light roofs are covered with metal decking on the unglazed slopes. Flat roofs are asphalt on concrete. The patent glazing is in aluminium bars. The walls of the tank casing are aluminium corrugated sheets bolted to the steel framework.

#### ELEVATIONAL TREATMENT.

—The east elevation carries on the line of the existing lecture room block. The restriction of the site makes it impossible to view the long elevation as a whole, so that it has been treated as a street front to be seen in perspective from either end. The materials used externally are hand-made sand faced brick facings with a struck mortar joint. The window heads have a concrete nib supporting the brickwork above which is integral with the beam casing behind, and the eills are precast concrete finished with cement paint. Windows are steel, painted, with opening panels vertically centre hung. The jambs to entrance doors, the steps and the coping are in reconstructed stone.



MEZZANINE



GROUND FLOOR

[Scale:  $\frac{1}{8}'' = 1'-0''$ ]



# WORKSHOP EXTENSION AT CAMBRIDGE

The coping is in two sections—a light Clipsham coloured stone band below a dark Blue Pennant coloured projecting cap. The plinth round the building is in blue-brindle engineering bricks, which also form bull-nosed jambs to the heavy sliding-folding entrance doors on the east elevation. The workers' and students' entrance doors are in English oak, with glazed panels and aluminium furniture.

**INTERNAL FINISHES** are fair face brickwork which will later be painted, the exposed steelwork

being painted a contrasting colour. Floors are hardened granolithic in the shops, wood blocks in the canteen and offices, and quarry tiles in the lavatories. Balustrading to the stairs is in wrought iron with aluminium handrails. Double doors to the shops are steel-faced plywood; other doors flush ply-faced and stained.

**SERVICES.**—(a) *Electricity.* Power for motors is carried in floor ducts down the centre of each shop, with junction boxes from which feeders tee off in the thickness of the floor finish to any

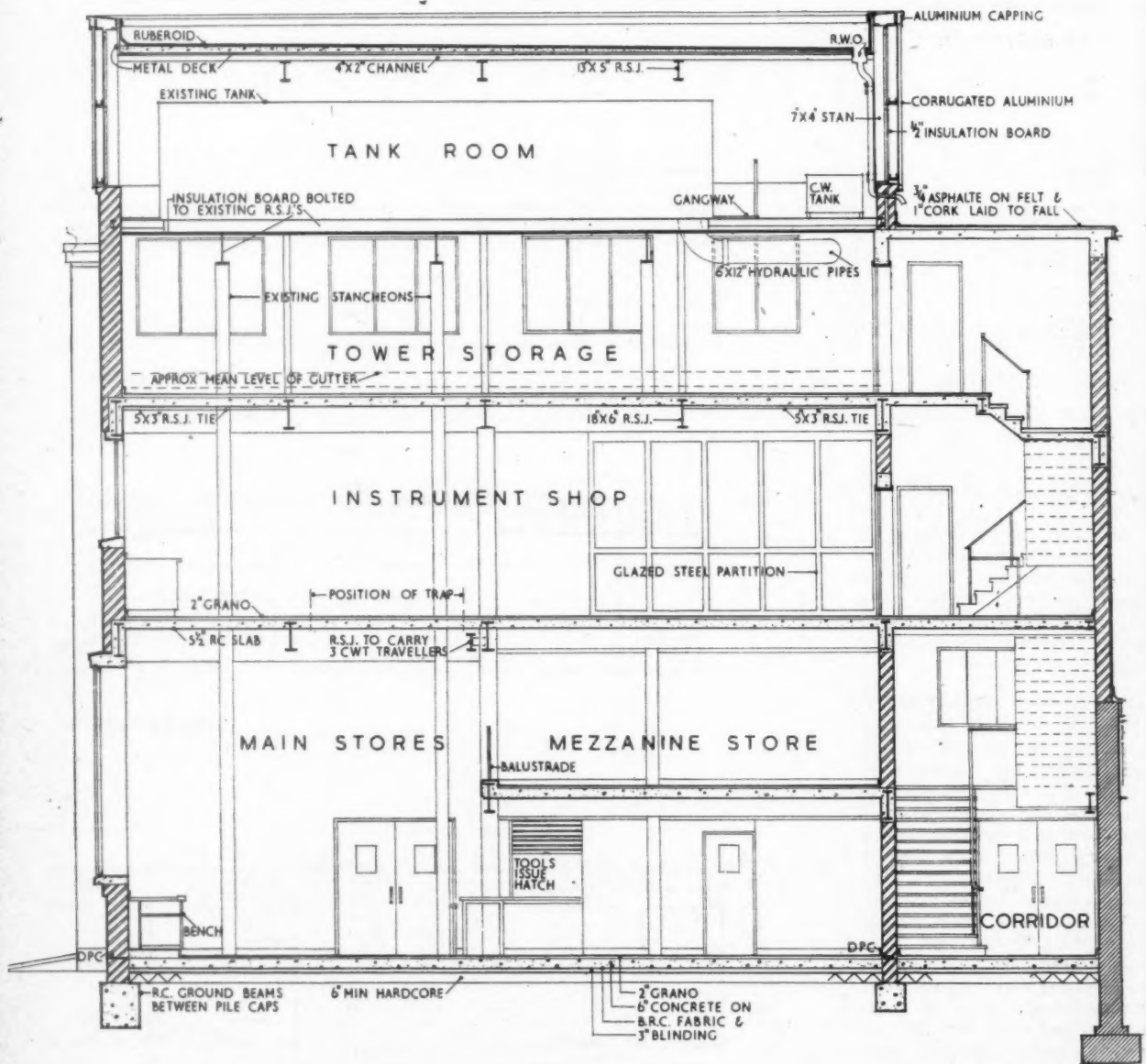
required position. Lighting is by fluorescent tubes.

(b) *Heating* is by low pressure hot water pipes and radiators. Panel heating is provided also in the machine shop ceiling. The boiler is in an existing boiler house.

(c) *Hot Water.*—Gas storage and instantaneous heaters supply the workers' lavatory and staff lavatory.

(d) *Gas.*—Gas points for burners are distributed throughout the shops.

All pipe and conduit runs are exposed for access and pre-planned in appropriate groupings.

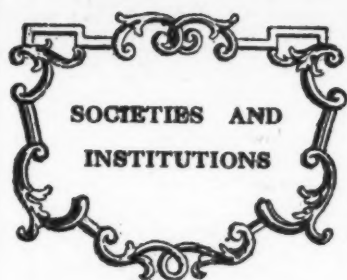


SECTION

[Scale:  $\frac{1}{4}$ " = 1'0"]

DESIGNED BY EASTON & ROBERTSON





*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.*

## RSA

### J. Seymour Lindsay

March 3. At the Royal Society of Arts, 6, John Adam Street, W.C.2. ENGLISH SMITHCRAFT. Mr. H. S. Goodhart-Rendel was in the chair.

**J. Seymour Lindsay:** The subject I present to you to-day is ornamental wrought ironwork. This is the name by which domestic ironwork is known which is of an ornamental character—a somewhat misleading title as it implies that ornament is its chief purpose, whereas in reality it is usefulness. Ironwork when used architecturally without exception performs some definite service.

We have during the last hundred years suffered an ever-quickenening shrinkage of most of our crafts, with the inevitable result that we have arrived at the time when our craftsmen in the traditional sense of the word are becoming extinct. I look upon a craftsman as a man who exerts his skill to produce the best he can and finds nothing too humble to have pains bestowed upon it. Their passing represents a loss to the country, the magnitude of which it is difficult to estimate. They represented a large proportion of the community down to the coming of big industry and acted as an ever-present leaven that worked persistently through the whole country. They maintained a standard of work, the excellence of which is only realized by examining examples of their labours which have remained to us.

Our thoughts to-day are not so much with the past as with the future. Our belief is that the working of iron in the traditional method can again be sought for its usefulness. And by traditional methods I don't mean a slavish copying of traditional designs but rather the technique employed in their production. Our hope of such a revival lies in exciting an interest in the

minds of the general public, who, at the moment, are for the most part unconscious of its evolutionary history or the manner in which it has and can be worked.

The blacksmith is, in fact, a sculptor-modeller working his material in a plastic state, but only plastic when at great heat. Contrast this with modelling in clay or wax where your medium is always consistently plastic and can be handled with impunity, and you will form some idea of the great art which these men exercise in producing even humble things like horse-shoes.

There are three distinct processes connected with this craft: blacksmithing, sheet metal working, and fitting. Blacksmithing is the oldest process by far, going back to pre-history. The sheet metal or white smith, and the fitter, make their entry as a class into the craft when architectural and geometric designs with the complicated building up of Gothic tracery came into favour. These three processes were, and still are, often mastered by a single craftsman.

### TECHNIQUE AND TASTE

When the pinnacle of perfection of any technical rendering has been reached it would seem that a change of taste is foreshadowed. During the fourteenth century an entirely new technique was adopted in the working of iron. This amounted to taking stone or wood carving designs and translating them into wrought iron. The heavy constructional members were forged in the traditional manner, but worked into architectural forms by the use of saw, chisel, file, punch, and drill, more in the manner of locksmithing. Much plate and sheet iron was used, pierced and overlaid to form Gothic tracery of great richness.

Much fine smithing was put into making the vast number of tomb rails, screens and gates that were such a feature of our churches in the fifteenth and sixteenth centuries.

When Inigo Jones installed the iron balustrade in the Queen's House, Greenwich, in 1617-1635, he introduced something quite new in the way of architectural ironwork to this country. It was the result of one of his visits to Italy. The design was not Italian, but in the style and technique prevailing in this country. The ornament is fashioned in iron plate, the welded scrolls and tulips diminishing in thickness towards their extremities. It is this graduation that gives the work distinction which would be quite absent if sheet metal had been used.

### THE RENAISSANCE TRANSITION

Through the Tudors and Stuarts the craft became more and more employed upon the lesser domestic requirements. The lesser smiths had been busy all the time administering to the wants of town and village, but as the craft passed into the twilight of the Gothic tradition these lesser craftsmen were called upon to supply the thousand and one things that the rapidly expanding merchant and yeoman class demanded: latches, casements with fastenings, locks, wall anchors (a Dutch introduction), and innumerable assistants connected with lighting, cooking and the fireplace. Although showing strong Renaissance influence there was still a whiff of the Gothic on many of them. English smithcraft was at a very low ebb during the seventeenth century, and it is quite remarkable that the craft was able to respond so successfully to the great demand that was approaching.

Before we reach this period it may be of interest to regard the efforts of the men who combined artistry with ingenuity in creating the everyday things previously mentioned. The first thing that stands out is that ornament never obstructs usefulness; the purpose of a thing was ever the first consideration.

The manner in which these things were ornamented is of great interest, and many useful hints can be collected by examination. The methods are shaping outline, perforation of flat surfaces, incising, and,

lastly, a very important treatment, one that is singularly neglected to-day, the art of chamfering. To explain briefly, it is filing the edges of a plate so that it assumes a different superficial outline on back and front. This can be subjected to much variation, but it is very easy to grasp the process when confronted by an actual example.

### FRENCH INFLUENCE

The revocation of the Edict of Nantes had a considerable bearing on the revival of wrought ironwork in this country. Refugees fleeing from France included many artists and craftsmen. Holland received a large number, among them Daniel Marrot and Jean Tijon.

These men were highly qualified exponents of the current French taste which decorators and textbooks refer to as Louis XIV. Daniel Marrot was architect to William III; his father, John Marrot, was, judging by his own engravings, an even more gifted designer. Daniel's grandfather was a blacksmith, which may account for Daniel's and John's interest in wrought iron as part of their garden layouts. Of Jean Tijon we know little. He came to this country in the wake of the Dutch King and was at once given orders under royal patronage to begin work at Hampton Court Palace in the new taste. He followed on with work at St. Paul's, Kensington Palace, Marlborough House, and many City churches and buildings.

It has been suggested that Tijon was responsible for the introduction of this new form of metalwork. It is much more likely that Daniel Marrot and others like him who specialised in designing the many things required in decorating and furnishing the great houses were responsible. Their books and catalogues of engraved designs included wrought iron gates, railings, and balustrades. These were circulated amongst their patrons, fostering the desire to be in the fashion and follow the royal example. So we see a wave of French taste sweeping over the country, completely obliterating what remained of the Gothic tradition. There was no evolutionary process of transition; it was a complete victory to the invading style.

Great credit must be given to the English smiths who, brought up in the Tudoresque way, so quickly made themselves masters of the new technique. Work inspired from engraved catalogues assisted the student smith in grasping the new rhythm with its florid beauty and purely underlying scroll work. But it tended to rob the work of the intimate and personal touch which was such an asset in the preceding style.

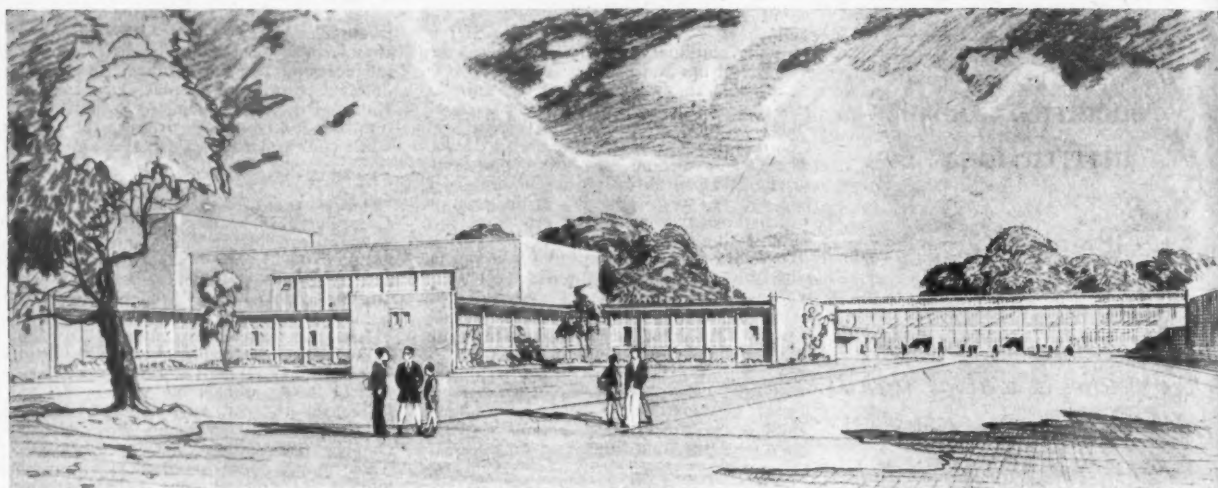
Within a few years English architects and smiths had begun to strip their designs of the rich surface sheet work, both leaves and motifs. By maintaining the purity of the scroll work and introducing a more vigorous handling, a style came into being that was pre-eminently British.

### THE EIGHTEENTH CENTURY

Surface leafwork was discarded by English designers during the second quarter of the eighteenth century. And it is also important to note that the rococo movement that dominated the Continent during the middle of the eighteenth century was ignored by our craftsmen.

Restraint and delicacy characterised English work towards the end of the century. Influenced by Louis XIV-taste, we again produced something of our own which was in time to be covered by that all-embracing term Adam. Chamber's Somerset House for example shows this new influence in 1780. And there is no better example than Holland's balustrade in the Rotunda at Dover House, Whitehall, which dates from 1794.

The early nineteenth century saw the Greek phase becoming more popular. This developed into the English Empire style, which was more suited to cast iron than wrought. And so ends the evolutionary process in blacksmithing expressing a national taste.



Perspective from west.

# SCHOOL AT SIDCUP

BY HUBERT & H. MARTIN LIDBETTER,  
IN COLLABORATION WITH S. H. LOWETH



SITE PLAN

[Scale: 1/1000]

**GENERAL.**—This new modern school for boys for the Kent County Council will be erected at Footscray Place, Sidcup, and is part of the operational III programme of the Kent Education Committee.

When designing the school, the architects rigidly adhered from the outset to a set of given and self-imposed conditions, the most important of which were as follows :

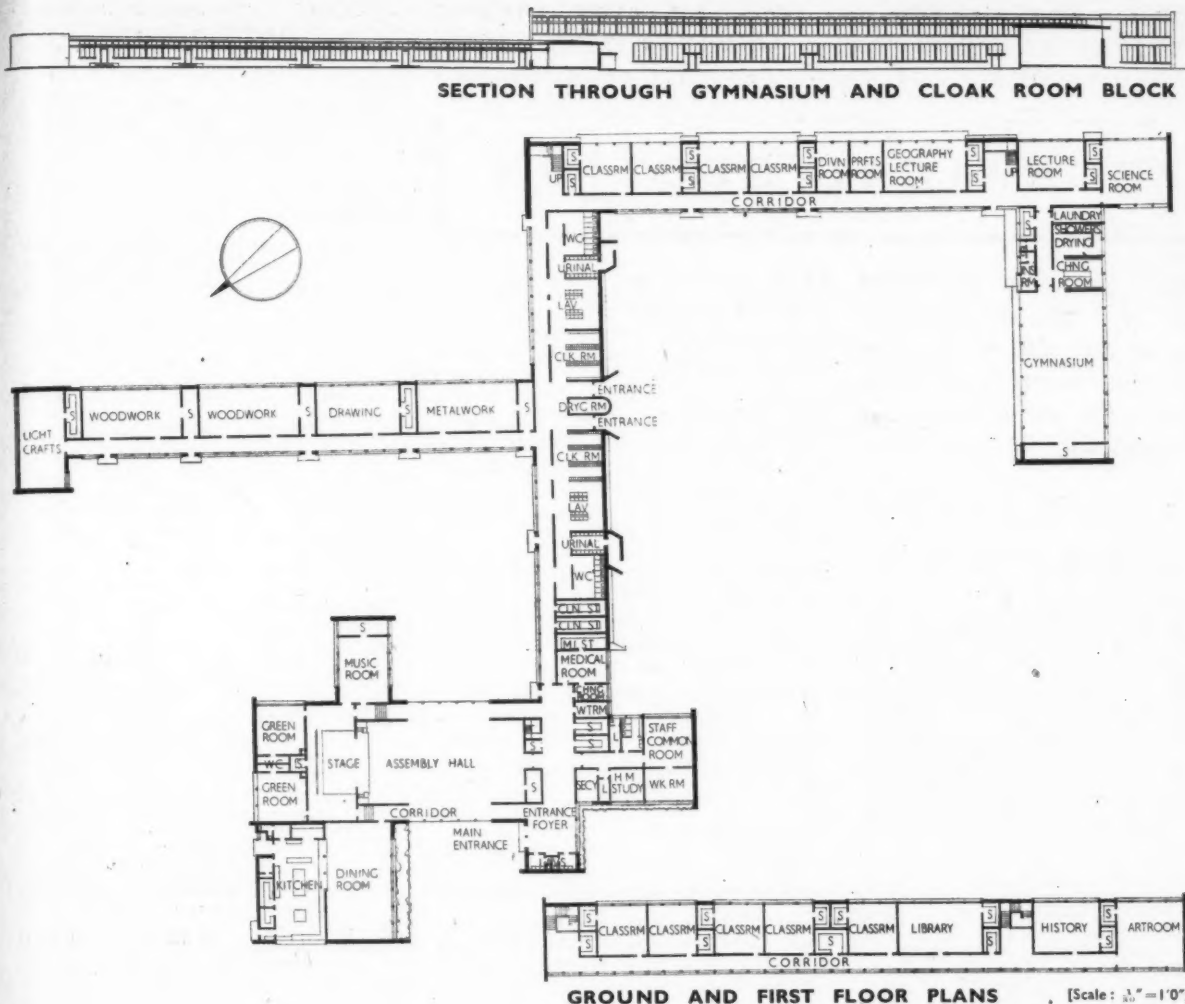
- (1) The classrooms should have an east to south aspect and be isolated from all noisy parts of the school, viz., playgrounds, gymnasium, practical rooms, assembly hall, etc.
- (2) The lavatories and cloakrooms should be centrally placed so as to be readily accessible from all parts of the school and be grouped together so that the exit and entry of boys could be easily supervised.
- (3) The playground should be placed as closely as possible to the lavatories and cloakrooms, and to be directly accessible therefrom.
- (4) The assembly hall and administrative block should be placed near to one another and close to the main entrance of the school.
- (5) At least one of the playgrounds should be directly accessible from the gymnasium.
- (6) In the main, single-storey construction was desirable, but in the interests of economy in length of communications and in cost, two-storey construction could be used for classrooms, special staff and medical rooms.
- (7) As many as possible of the fine trees growing on the site should be preserved.
- (8) The utmost flexibility should be aimed at, both in regard to future extensions and internal rearrangement.
- (9) The plan should be as open as possible without unduly extending the length of communications.

**SITE.**—The site is nearly level and is at the highest point of the estate

of Footscray Place at the top of a steep and thickly wooded slope facing South-East and towards the River Cray nearly half a mile away. There are some fine oak trees near the centre of the site, most of which can be preserved and which will form a pleasant background to the main entrance of the school.

**PLAN.**—The whole plan is set out on a grid of 8 ft. in each direction. This dimension has been chosen because it enables the units of accommodation to conform more closely to given areas than the 8 ft. 3 in. grid more commonly used in the past if, as is obviously advantageous, the same dimension is used in both directions. The classrooms and special rooms are grouped together in a two-storey block facing South East and away from all school activities, so that the maximum amount of quietness and privacy is obtained. The corridors which are planned on the north-west side of this block act as a buffer between the classrooms and the noisy playgrounds.

It was not thought desirable to use an expensive form of construction in order to obtain clerestory lighting on the corridor side of the classrooms on the ground floor, so in order to obtain a reasonably high daylight factor these rooms are to be 12 ft. high instead of the 11 ft. used for the first floor classrooms and single-storey practical rooms.



**CONSTRUCTION.**—The building will be of reinforced concrete stanchion and beam construction with precast slab roof construction to corridors, and *in situ* concrete for all other roofs. External walls will be brick, and the end of each block will have a flank wall of brick placed outside the grid and projecting on both sides and above the level of the roof. This will enable any additions to be carried out without disturbing the existing structure and will form a pleasant architectural foil to the regularity of the long classroom block. Cycle stores will consist of racks and a cantilevered concrete canopy below

clerestory level outside the lavatory and cloakroom block, which will be the most used point for entry and exit for the boys.

In general the floors will be composition, but those to the staff rooms will be wood block, and for the assembly hall and gymnasium, which will not be erected in the first instance, it is hoped to provide hardwood strip flooring. The ceilings in the classrooms will be suspended and of a dry finish. Classroom walls will be plastered, and corridor walls will be fair faced brickwork with a colour wash.

**ERECTION.**—The school is so planned as to be erected in three stages.

The first stage is designed to accommodate 300 to 320 boys, and consists of six classrooms, four practical rooms, medical inspection and waiting rooms, lavatories and cloakrooms which are of sufficient area to provide for the complete school in its final form, staff rooms, stores, canteen, cycle stores, a heating chamber and one playground. The canteen was ori-

ginally intended to be erected in the third stage, when it would be connected to the school by the assembly block, also to be erected in the third stage. As the canteen is now to be erected in the first stage, it is proposed to form a temporary connection by means of an open-sided corridor alongside the site for the future assembly block.

The second stage will consist of an additional four classrooms, lecture, geography, history, science, art, light craft and music rooms, and a library and a greenhouse. Additional staff rooms, and lavatory and cloakroom fittings, and a second playground are also to be included. It will be possible when this stage is completed to accommodate the 400 boys for which the whole scheme is designed.

The third stage will consist of the assembly block which will be used for community purposes, with hall, stage and green rooms, and a projection room, and a gymnasium with showers, changing room, slip store, towel laundry and instructor's room.



INFORMATION CENTRE · INFORMATION SHEETS  
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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.

#### 6.18 planning: social and recreational SWIMMING BATHS

*The "King Alfred," Hove.* T. R. Humble. (J. Institution of Municipal Engineers, Jan. 5, 1948.)

General description of public and private baths, including equipment. Discussion includes useful description of factors which have proved unsatisfactory in practice.

The general description of these swimming and slipper baths is not remarkable, but the paper is of considerable value owing to the frank admission by the author of various factors which have proved unsatisfactory in practice. These include noise from unsatisfactory siting of ozonizer motor alternator, floor treatment details, scum troughs, the need for a chlorinator in addition to the ozone treatment, acoustics, and faults in plan arrangement.

#### 7.11 practice BUILDERS' ACCOUNTS

*Builders' Accounts and Office Supervision.* H. Keen. (Technical Press, Ltd., Feb., 1948. 5s.)

Methods of keeping proper accounts in a builder's office.

Separate sections, each clearly indexed, are devoted to the daybook, timesheets, prime cost book, invoice book, and all the other books, journals and ledgers normally kept in a builder's office.

There are numerous examples of the various rulings and how entries should be made and referenced, and the book has the merit of being readily understandable; at the same time it does not aspire to the higher branches of accountancy and is of most interest to students, clerks, and contractors operating in a small way. The book should be of great value to a small firm whose system of book-keeping needs overhauling.

#### 14.12 materials: concrete CLINKER AGGREGATE

*Clinker Aggregate for Plain and Precast Concrete.* B.S. 1165:1947. (British Standards Institution. 2s.)

Revision of earlier standard to include class of aggregate suitable for use in plain precast units intended for interior work. Minor amendments also made to clarify text.

An important specification in view of the extensive use of clinker aggregate and of its tendency to unsoundness.

#### 16.22 materials: miscellaneous MODIFIED PLYWOOD

*A Development in Plywood for Building.* (Building Digest, Jan., 1948, p. 26.)

Short note on board (Welchboard) formed with extra ply of wood flour waste pressed hot on to an exterior grade plywood with high-grade waterproof resin adhesive. Claimed to form panel suitable for indoor and outdoor use. Wood flour-resin mixture used for repairing defects in veneers, etc. Developed in U.S.A.

#### 17.22 construction: general CONSTRUCTION AND MAINTENANCE

*Construction and Maintenance of Buildings.* J. Otway Cave and R. A. Earthrohl. (London: The Estates Gazette Ltd. 33s., postage 8d.)

Practical problems of construction and maintenance of all parts of buildings, from foundation to roof, including sanitation, plumbing and decorations. Mainly for builders.

The authors have endeavoured to deal with the subject in a practical manner. The book is written in simple language and includes many good illustrations of details. It is only a pity that this valuable work is spoiled by a number of inaccuracies. E.g., it is stated on p. 3 that the slump of "massed" (?) concrete should not exceed 2 in. and for reinforced concrete work 6 in., whereas according to Fig. 3 on p. 4, the slump should be about 4 in. for "mass" work and about 2 in. for reinforced work. It is rather dangerous to suggest, without further explanation, the use of  $\frac{1}{4}$  in. to  $\frac{1}{2}$  in. mild steel bars as reinforcement of lintels (p. 3), the section of the latter being 9 times that of the former. One cannot speak of "tension and compression" loads, but only of tensile and compressive stresses. The definition in the glossary of technical terms of "stress or strain" as "the force which tends to break anything" is inaccurate and misleading. In the description of concrete flat roofs (p. 71) not a word is said of the necessity of thermal insulation, nor is this correctly indicated on the illustration referred to (Fig. 152). A roof built in accordance with this figure would bring flat concrete roofs into disrepute for bad thermal insulation and condensation.

In the example of a floor joist (p. 99) where the load-bearing capacity is worked out for uniformly distributed loading, it is added that "if a concentrated load had to be placed on the floors the safety factor should

be doubled!" This again is misleading. The fact is that half of the uniformly distributed load can be carried as a point load at midspan with the same factor of safety.

Such inaccuracies, picked out at random, are apt to confuse a reader not conversant with the theory of structures.

#### 18.14 construction: theory RESEARCH

*Structural Engineering Research at the Building Research Station.* F. G. Thomas. (The Structural Engineer, Feb., 1948, pp. 81-103.)

Subjects now under investigation at the BRS.

In a lecture at the ISE on February 12, Dr. Thomas reported on some of the recent activities at the BRS.

For over 10 years the Station has conducted investigations into the strength of various types of bridges. Before the last war, many tests were made on cast iron girder bridges and masonry arch bridges, with a view to more accurate assessment of the strength of a very large number of bridges which were supposedly weak in relation to the weight of modern traffic. The work on arch bridges has shown clearly that owing to the strengthening effect of the fill, such bridges have a load-bearing capacity very much higher than would be calculated on the basis of the strength of the arch alone.

Measurements have indicated that a vehicle traversing a bridge at speed may not necessarily cause higher deformations than a vehicle resting stationary on the bridge.

The main research work at the Station, now in hand, in connection with bridges, concerns what the lecturer called "modern" steel and concrete bridge deck systems. In fact, none of the three types under investigation is modern in the true sense of the word: none of them allows the most economical use of steel and concrete.

Of great importance is the investigation of the strength of load-bearing reinforced concrete walls in view of the increasing interest in "box frame" construction. Without experimental data such walls had to be designed on the basis of the rules for columns, which are not properly applicable and lead to uneconomical results.

A considerable number of static and dynamic loading tests have been made on different types of buildings, including framed houses of steel, concrete, or timber, houses built up with load-bearing steel, concrete, or plaster panels, and houses with load-bearing walls of bricks or blocks. One of the most interesting results was the evidence that there was scope for reduction in the cost of load-bearing frames in small dwelling houses by utilizing the inherent stiffness of the completed building and not assuming that the frame alone resists lateral loading.

Tests are also being made on pile foundations on a clay site, since the conventional type of footing for houses is known to be unsatisfactory.

A systematic study has been commenced to determine the efficiency of cavity walls and the strength of brickwork for a wide range of loading conditions.

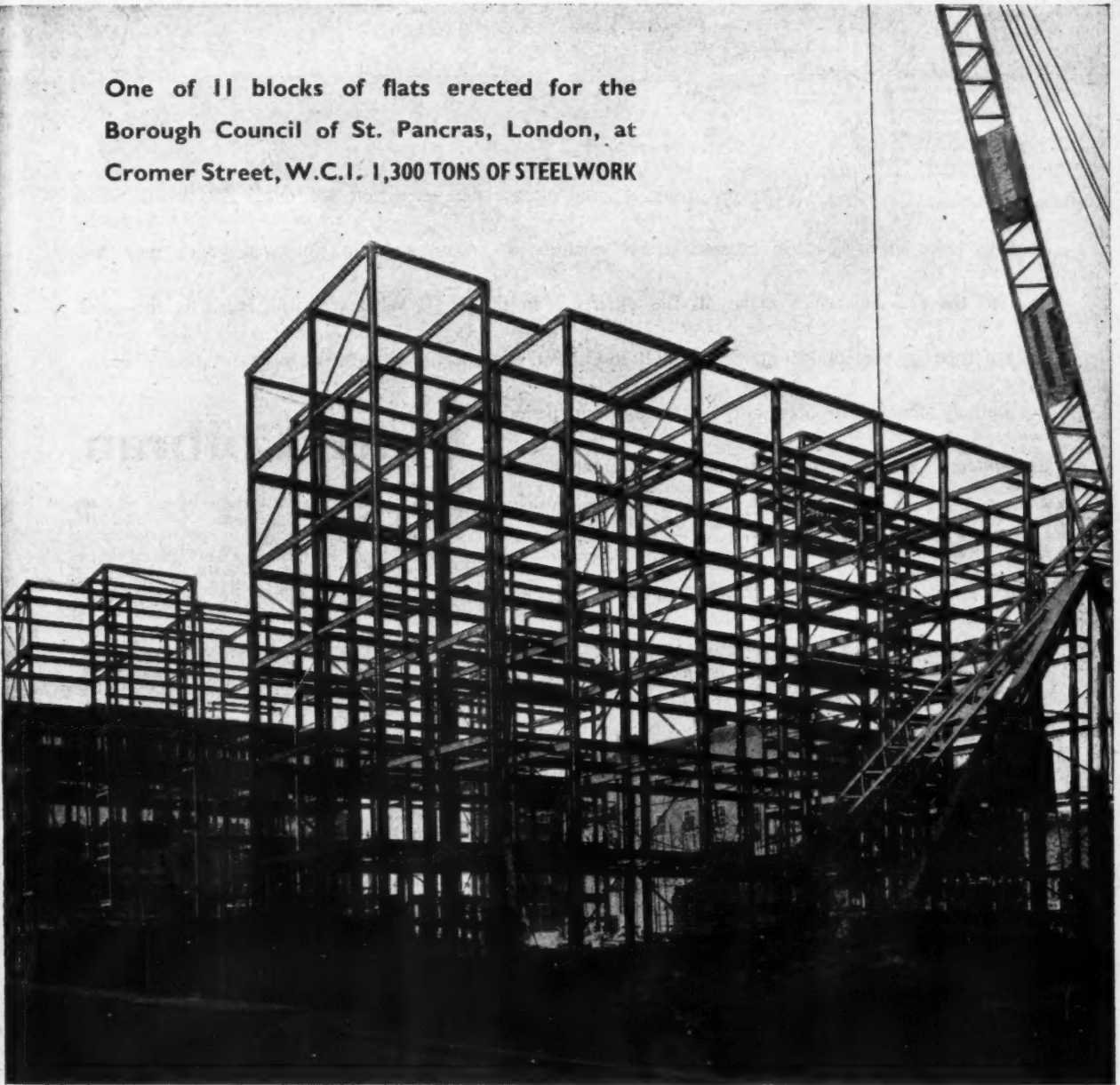
In order to establish reliable data for superimposed design loads, a pilot survey has been made of the actual loadings in a number of buildings. A full investigation may lead to a justification for appreciable reduction in the sizes of the lower stanchions of multi-storey buildings.

#### 19.33 construction: details TIMBER FLOORS AND ROOFS

*Timber: A Traditional Material.* P. O. Reece. Paper presented to the Fourth Congress of the BINC. (Timber Development Association Ltd.)



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



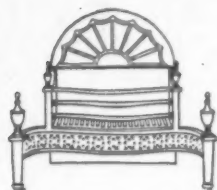
- Architects: Robert Hening, M.B.E.  
Anthony M. Chitty, M.A., F.R.I.B.A., A.M.T.P.I.,  
Town Planning Consultants.
- General Contractors: Stewart & Partners, Ltd.  
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Statistical data on timber supplies and cost. Improvements in floor construction. New type of roof, designed by the TDA and claimed to use less timber and to be cheaper than timber roofs of equal strength constructed on purely traditional lines.

## 20.61 construction: complete structures PREFABRICATED HOUSES IN GERMANY

*The Investigation in Germany of Technical Developments in Prefabricated Housing.* BIOS Final Report No. 603. Item No. 22. (HMSO. 5s. 6d.)

Description of several systems of prefabricated houses in various types of light weight concrete and timber used in Germany during the Nazi regime. Most systems primitive and applied to single storey buildings only.

## 20.62 construction: complete structures PRECAST ENGINE SHEDS

*Engine Sheds for the LMS Railway.* (Concrete and Constructional Engineering, Jan., 1948, pp. 9-19.)

Description of engine sheds of various types in precast concrete.

During the war the LMS Railway reconstructed several engine sheds in precast reinforced concrete. Most of these are straight with a north light roof and have been standardized as far as possible. At the engine shed at Chester, rigid frames, each consisting of two continuous spans of 59 ft., were used. The vertical and horizontal members of the frames were precast separately, and *in situ* joints were formed to provide full continuity.

Roundhouses have also been reconstructed in precast concrete, and new roundhouses of an overall diameter of about 290 ft. were built at Leicester and Carlisle. The erection of the shed at Carlisle, which comprises about 10,000 precast pieces, was carried out in nine months, including a delay of five weeks due to bad weather.

## 25.50 water supply and sanitation ALUMINIUM GUTTERING AND PIPES

*Aluminium Rainwater Goods.* Cast and Extruded. BS 1430:1947. (British Standards Institution. 2s. 6d.)

Materials and sizes of gutters and downpipes and appropriate fittings.

The development of aluminium rainwater goods has been hastened by the shortage of supplies of cast iron, and it is useful to have this early appearance of a BS to guide the manufacture of the new products. Quality is covered mainly by reference to various alloys which themselves are to be covered by BS at present in preparation. Sizes and

thicknesses of pipes, gutters, and all usual fittings are tabulated and illustrated by diagrams. Although of course the point is not made in the BS, it may be remarked that the lightness of aluminium gutters and pipes makes site fixing a very much easier job. An authoritative estimate of durability under various conditions of exposure would be welcome, as no doubt there will be some reluctance to accept them without adequate assurance on this point. It would also be useful to have a considered view as to the possible effects of electrolytic action if contact is made with other metals such as might occur with flashings.

## 25.51 water supply and sanitation SINGLE PIPE SANITATION

*Econa "Single-Pipe" Plumbing System for Housing.* W. E. Wright. (Plumbing Trade Journal, pp. 45-46. Feb., 1948.)

Off-site plumbing system—single-pipe type—details of materials. Copper wastes and steel stacks. Corrosion protection dealt with at some length.

This article, by the managing director of a firm of plumbing contractors, describes in some detail a system worked out for taking advantage of off-site preparation while retaining reasonable adaptability and providing sufficient tolerance to meet site conditions. Its chief interest is the description of the types of material used and the careful attention given to methods adopted to prevent corrosion of the steel stack pipes either directly or due to electrolytic action. A special note is added upon the use of insulating nipples to separate pipes of differing metals.

## 26.24 services and equipment: miscellaneous RING-MAIN WIRING

*Domestic Installations.* J. Crisp. (Electrical Times, Feb. 5, 1948, pp. 149-152.)

Comparison of costs of ring mains and other wiring systems in small houses. Other notes on ring mains. Wiring diagrams.

While controversy on the good and bad features of ring mains wiring continues, more experience is being gained on the application of this system of electric wiring for small houses. This article is mainly concerned with a cost comparison between ring mains, room circuit, and traditional wiring methods. One of the ATPLAR plans is used, and the detailed costs of each method are tabulated. Wiring diagrams of each are given. The author shows the ring mains as being appreciably cheaper than the others, with the traditional wiring as the most expensive. In the text there is also some consideration of other features, with a suggestion for an amendment to the IEE regulations about "diversity" factors applied to ring mains.

The economic aspect of ring mains must clearly be considered in low cost housing, as the author shows prices, excluding profit, of £20 7s., against £23 16s. 4d. and £25 4s. 2d. for the other methods.

*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

### 2936 DILAPIDATIONS

**Q** A client of mine who owns a shop property has asked me to prepare a schedule of dilapidations on the expiry of the lease. I understand that the tenant requires a new lease and intends to sell the business.

I have prepared the schedule, but as it would appear that a licence would not be granted for a great deal of the work necessary, also, because a proportion of the reinstatement is required as a result of war damage, I am not clear how I should safeguard my client's interests. The tenant will, no doubt, excuse himself by stating that a licence cannot be obtained to do the work required.

I have considered the following course:—

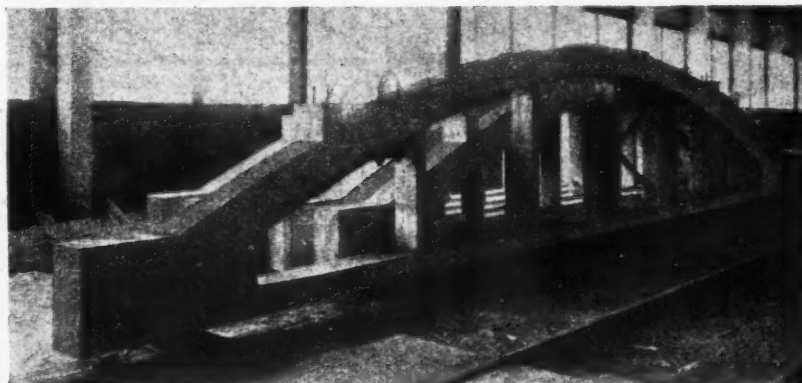
1. To demand a copy of the agreed War Damage Specification (if one exists). This would ensure that the dilapidations on account of war damage would be paid for by the Commission in due course.

2. To have the remainder of the schedule priced and endeavour to obtain settlement by a money payment. In this event it would appear that, in view of the increasing cost, such payment would not be sufficient when the work can be put in hand.

Can you tell me if the above procedure would be correct or advise me as to a better course to adopt?

**A** Your proper course is to serve your dilapidations schedule upon the tenant and to try to obtain agreement in principle. As the tenant has presumably been prevented from fulfilling his obligations, as a result of Government legislation restricting building operations, you cannot, of course, enforce a monetary settlement. At the same time you would be advised to try to obtain a monetary settlement if your client agrees. In the majority of cases this can be achieved, as the tenant is anxious to avoid further liabilities as a result of increases in building costs, and the landlord prefers a cash payment to a settlement which may take place at some uncertain date in the future.

It should not be necessary for you to distinguish between war damage and ordinary dilapidations in your schedule in the first instance, as it is for the tenant to justify war damage, in view of the fact that he was in occupation when the damage occurred. If there is an agreed war damage schedule the matter is simple; if not, the items which the tenant claims to be war damage can be noted as such in your schedule, and the cost of these items can be deducted from the total claim. In due course the settlement can be made, subject to the approval of the War Damage Commission and on the understanding that the onus is upon the tenant for substantiating the extent of war damage. It only remains for you to try to obtain the approval of the War Damage Commission in principle, but if the Commission are unwilling to enter into negotiations you should, at least, deposit a copy of the schedule with them as a record.



Precast bowstring roof girder. See 20.62.



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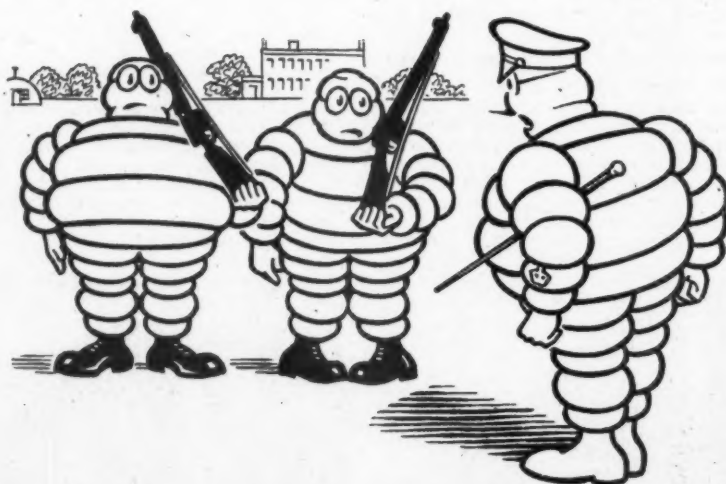
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## THE INDUSTRY

### SPRAYED RENDERINGS

As most architects know, plaster is in extremely short supply, while at the same time there are not really enough skilled plasterers to go round. It is therefore of some interest to discover that Aerocem, Ltd., have introduced a method of applying rendering or plaster mechanically to any material which will normally take a hand rendering, and that this can be done in any generally accepted sand-cement proportion.

In the past, most of the attempts to apply a cement sand mix on paint spraying lines have failed because of the clogging of the feed pipes; the Aerocem process overcomes this difficulty because a frothing agent is employed which makes the mix far more fluid. The technique of application is quite simple. Cement and sand are mixed in the correct proportions and the frothing agent is added to the gauging water and the mix is then aerated by a small revolving propeller on the end of a long shaft which is driven by a standard pneumatic hand drill. When the mixture has been frothed to the required degree it is placed in the pressure pot (see illustration) which is fed with compressed air from any convenient source. The mix is fed to the gun via a pipe from the bottom of the pot, and there is also a supply of secondary air direct to the gun.

So far as output is concerned it is difficult to give any figures, but the rate at which the mix leaves the gun is the equivalent of 120 square yards at  $\frac{1}{4}$  inch thickness per hour. This speed would not of course be achieved on the job, where time would be taken up in refilling the pot and moving the equipment. The manufacturers give a figure of 30 to 40 square yards per man per hour.

The mix can be aerated until it reaches as much as twice its original volume, about 5 or 10 per cent. of this increase being lost during the spraying process, so that any rendering may be applied solid or aerated up to about 90 per cent.

The cement gun, which can be seen in the foreground of the illustration, immediately in front of the aerating propeller, has an adjustable air cap, and this, in conjunction with the variable secondary air, allows the texture to be varied from the deepest rough-casting to the finest sandy finish.

For interiors the finish can be made to look like a plastic paint, or it can be sprayed on to hessian or mesh for film and stage sets. It is also interesting to note that some of the temporary buildings for the Chelsea flower show were built up of hessian on a light framework and then Aerocem sprayed. At the moment the manufacturers are doing complete jobs themselves, but it is intended that the equipment shall be made available for the specialist plastering contractor or builder. (Aerocem, Ltd., Rolands Wharf, 71, Lots Road, Chelsea, London, S.W.10.)

### THERMAL INSULATION

Heat insulation is at the moment a problem of such extreme importance that a rela-

tively new material, marketed under the name of Stillite, seems worth careful investigation. It is a mineral wool product with long resilient fibres which give it great stability and low density. At normal building temperatures it has a thermal conductivity of 0.24, it is non-corrosive to metals, water repellent, and has a covering capacity 30 to 50 per cent. greater than slag wool. For acoustic and sound absorption work it has (N.P.L. figures) an absorption coefficient varying from 0.84 to 0.95 at frequencies between 200 and 8,000 cycles per second.

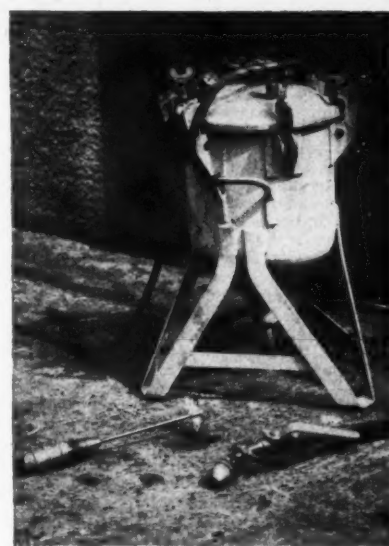
For building purposes it is available in a number of different forms, as a pelleted wool for pouring into cavities or filling the spaces between joists, as a semi rigid acoustic slab, as a felt or quilting, or in sectional forms for pipework, while cylinder jackets are also available. Its resilient qualities ensure that it will not settle under vibration; it will not burn, although it fuses at about 2,600° F. There is not space here to give a full list of its properties and uses, but the manufacturers have produced a series of very full and informative booklets. (Stillite Products, Ltd., Sardinia House, Kingsway, London, W.C.2.)

### ROLLER SHUTTERS

A new booklet has just been published dealing with the Haskins Rolador shutter. In a few pages it shows methods of fixing and operation, specifications for different uses, wicket door details, fastenings and locks, the measurements required for ordering, and the clearances for different heights and widths of door with different methods of operation. Another of the better types of publication, which sticks to the point and leaves out most of the salesmanship. (Haskins (E. Pollard & Co., Ltd.), Gnome House, Blackhorse Lane, Walthamstow, London, E.17.)

### TUBULAR SCAFFOLDING AND FITTINGS

Tubular scaffolding has been on the market long enough to be looked on as virtually a standard method on a job of any size, and it is possible that some of the developments of the last few years may have been overlooked. Messrs. Kwikform have just sent a whole series of leaflets describing their various products, which include trench struts and shores of all types, and some ingenious methods for the



*Aerocem equipment for applying rendering or plaster. A mixture of cement and sand, to which a frothing agent is added, is aerated by the small revolving propeller (seen in the foreground to the left of the cement gun) placed in the pressure pot and fed to the gun through the pipe at the bottom.*

shuttering of concrete walls, floors and beams. They have also standardized a number of useful fittings for the builder, such as castors for converting scaffolding into mobile gantries, ladder clamps and hoisting appliances. The actual appliances used by the builder are not perhaps the immediate concern of the architect, but it is interesting to see that, with the increasing mechanisation of all building processes, it is still possible to rationalise an item of plant which might have been thought to have reached finality. (Kwikform, Ltd., 67, Whitmore Road, Birmingham, 10.)

### A NEW TIMBER PRESERVATIVE

A new preservative for timber has recently been introduced by Messrs. Ward Blenkins-



*Aerocem spray on festooned hessian.*

sop. It uses phenyl mercury as a basis and has added to it a product evolved in the firm's research department, and known as fixtan acid. The fixtan acid has great "anchoring" properties and makes the phenyl mercury fast to washing and weathering. It is sold in powder form, is readily soluble in water (1 lb. to 100 gallons), and is odourless and colourless. It can be applied by brushing, dipping or spraying, and neither the solution nor the treated timber is dangerous to handle. It is claimed that the penetration of the preservative is considerable, and the price of 4d. a gallon compares very favourably with the other colourless preservative on the market, even if the greater penetration consumes more liquid. The manufacturers state that, although their standard product is colourless, they can incorporate a fugitive dye, usually green, which will disappear in from one to four weeks, according to the degree of exposure. This should be of considerable help to architects who wish to make certain that the preservative is properly applied. (Ward, Blenkinsop & Co., Ltd., 6, Henrietta Place, London, W.1.)

## Announcements

Mr. Joseph Walton, an Assistant Managing Director of Thos. W. Ward, Ltd., Albion Works, Sheffield, has been appointed Chairman and Managing Director of the Darlington Railway Plant & Foundry Co., Ltd., and Mr. Phillip T. Ward has been appointed a Director of the Darlington Company.

Mr. G. Laurie Cadell, A.R.I.B.A., is now practising from 9, Pembroke Place, W.2. Telephone: Bayswater 0641.

Mr. Frederic A. Broad, F.R.I.C.S., has retired from the position of Quantity Surveyor and Deputy Borough Architect to the Swan-

sea Corporation and has commenced private practice as a chartered quantity surveyor at 52, Pinewood Road, Swansea, Glam. Telephone No.: Swansea 3229.

## Buildings Illustrated

New Workshop, Engineering Laboratory, University of Cambridge (pages 284-286). Architects: Easton & Robertson. General contractor: Rattee & Kett, Ltd. Sub-contractors: Foundations, piling, Pressure Piling Co., Ltd.; asphalt, Val de Travers Asphalt Paving Co., Ltd.; reinforced concrete, Phillips Floors, Ltd.; bricks, Chesham purple multi-facings, J. Alfred Pratt & Co. (1928), Ltd.; artificial stone, Croft Granite, Brick & Concrete Co., Ltd.; structural steel, Redpath Brown & Co., Ltd.; granolithic paving, Malcolm Macleod & Co., Ltd.; steel roof deck, Ruberoid Co., Ltd.; glass roof lights, Lenscrete, Ltd.; patent roof glazing, British Challenge Glazing Co.; central heating, J. Wontner-Smith, Gray & Co., Ltd.; gasfitting, Cambridge University & Town Gas Light Co.; electric wiring and electric light fixtures, Grierson, Ltd.; electric mains, Cambridge Electric Supply Co., Ltd.; sanitary fittings, Dent & Hellyer, Ltd.; insulation linings, Anderson Construction Co., Ltd.; Surfustal Unimats, Surfustal, Ltd.; door furniture, N. F. Ramsay & Co., Ltd.; casements, Crittall Manufacturing Co., Ltd.; folding gates, Bostwick Gate & Shutter Co., Ltd.; folding doors, Esavian, Ltd.; metal door frames, John Thompson Beacon Windows, Ltd.; plymax doors, Venesta, Ltd.; cranes, Herbert Morris, Ltd.; steel partitions, Roneo, Ltd.; tiling, A. Bleakley & Co.

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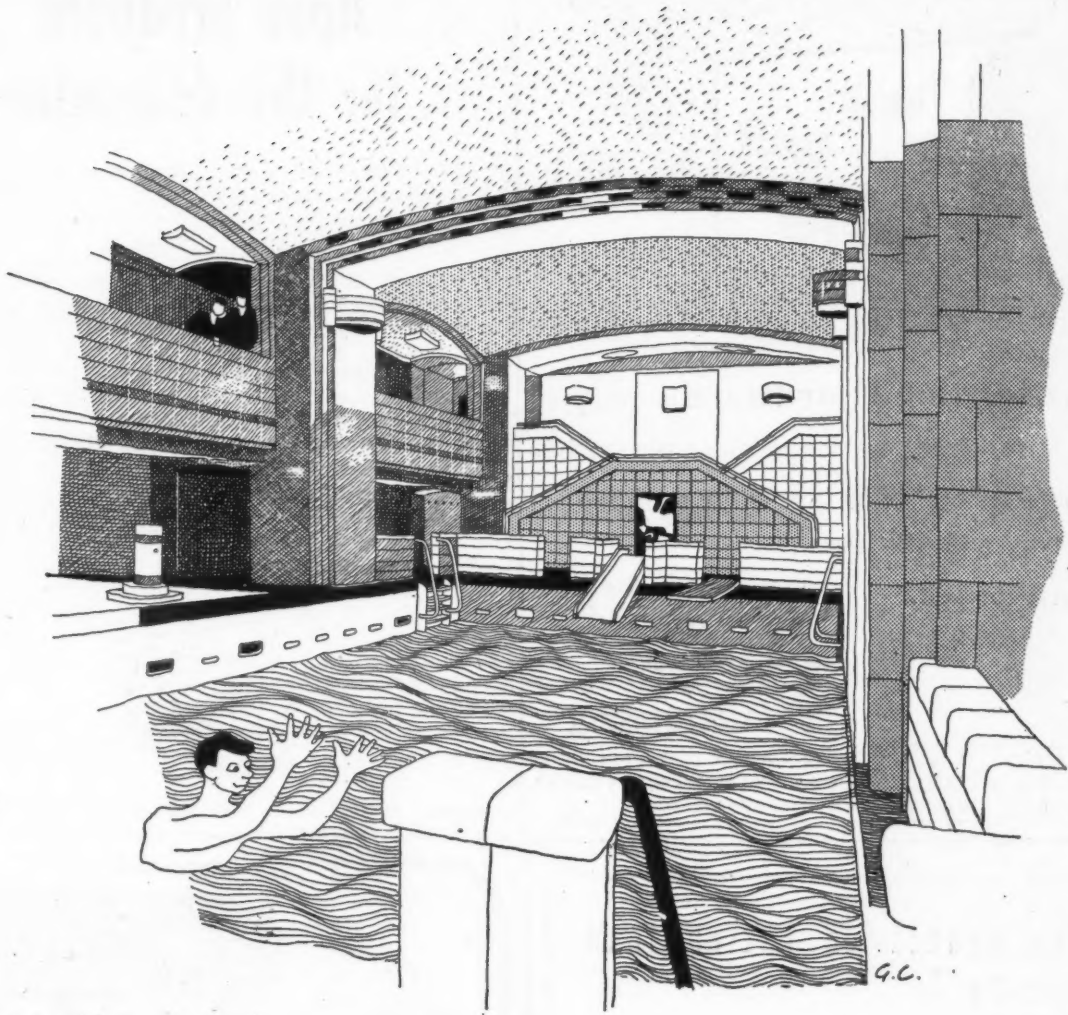
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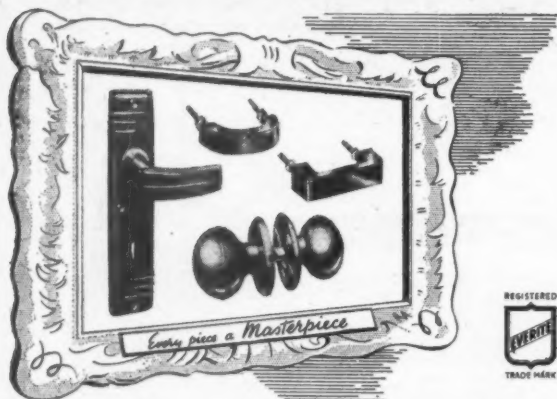


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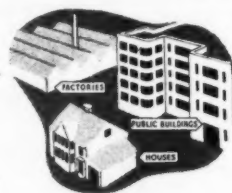
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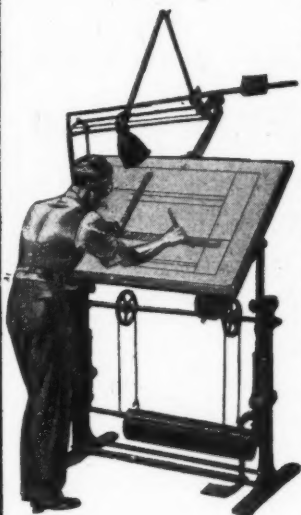
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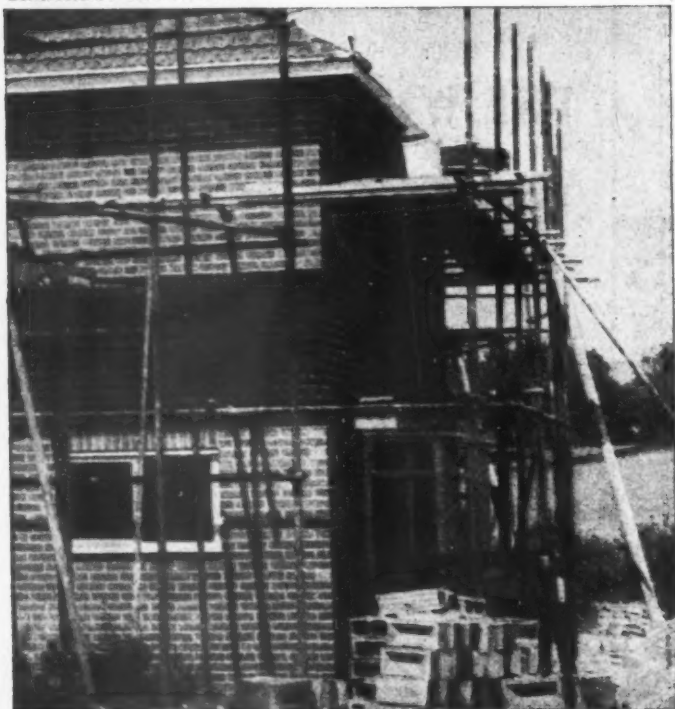
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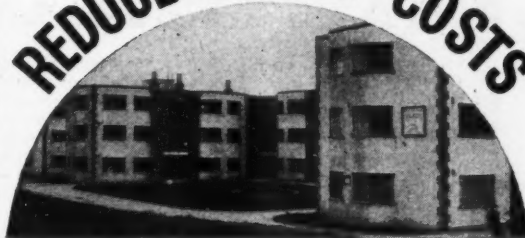
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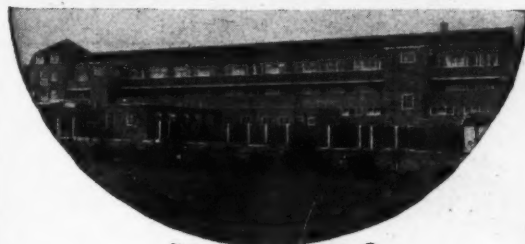
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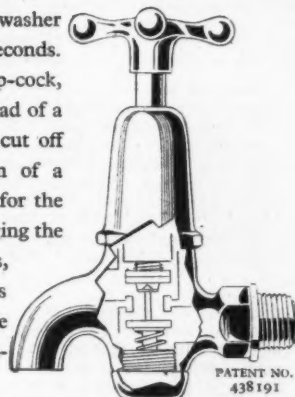
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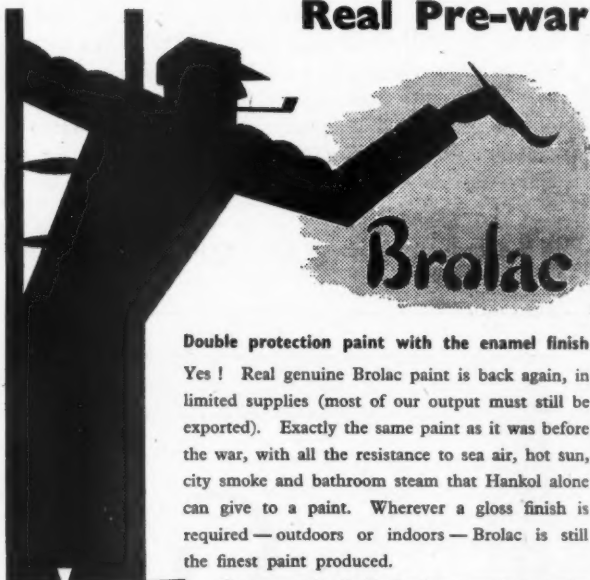
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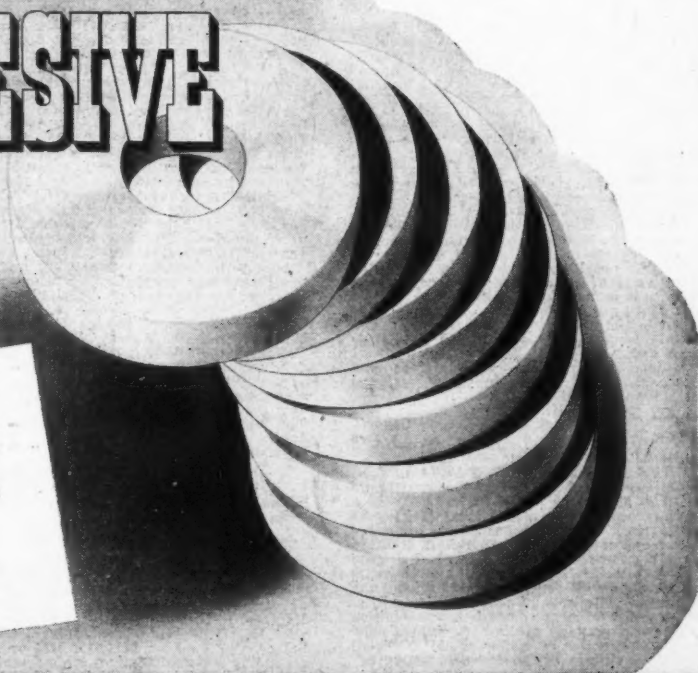
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## CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 3, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

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

## Public and Official Announcements

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

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having a staff vacancies. Address: 75, Euron Place, London, S.W.1. Tel. Sloane 5615. 921

## LONDON COUNTY COUNCIL. VACANCIES FOR PLANNING STAFF IN THE ARCHITECTS' DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN.

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

(a) PLANNING OFFICER, Grade III, £550 to £700 a year.

(b) TECHNICAL ASSISTANT, 55s. a week to £580 a year.

Commencing rate of pay will be according to qualifications and experience. There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

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

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

Application forms may be obtained from the Architect to the Council (P), County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Returnable not later than ten days from this date.

Canvassing disqualifies. (340) 858

## LANCASHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment at headquarters, Preston, of ASSISTANT PLANNING OFFICER (Urban Planning), at a consolidated salary of £1,060 a year, rising by annual increments of £50 to £1,310 a year.

Candidates should preferably possess one or more of the following qualifications:—University Degree in Civil Engineering or Architecture; A.M.T.P.I.; A.M.I.C.E.; A.R.I.B.A.; A.M.I.Mun.E.; P.A.S.I. In addition they must have wide practical experience in the preparation and administration of planning schemes affecting urban areas, and should have a thorough knowledge of the operation of the various Acts and Orders dealing with town and country planning. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

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

Applications, stating age, qualifications and experience, should be received by the undersigned not later than the 3rd April 1948.

R. H. ADCOCK, Clerk of the County Council.

County Offices, Preston. 1056

## NORFOLK COUNTY COUNCIL. COUNTY ARCHITECTS' DEPARTMENT.

Applications are invited for the permanent appointment of ASSISTANT ARCHITECT, at a salary in accordance with National Grade, VI (£595-£660 p.a.). Candidates must be registered architects, and must hold a recognised architectural qualification; they must have had a good general architectural experience, and have a sound knowledge of design, construction and specifications. The appointment will be subject to the Local Government Officers' Superannuation Acts, to a satisfactory medical certificate, and to one month's notice on either side. National Scheme of Conditions of Service will apply.

Applications must state clearly age, qualifications, full details of training, experience, and previous appointments, with dates, salaries, and designations; the names and addresses of three persons to whom reference may be made, must be stated. Applications must be delivered to Mr. C. H. Thurston, L.R.I.B.A., F.R.I.C.S., County Architect, 25, Thorpe Road, Norwich, not later than Thursday, 1st April, 1948.

H. OSWALD BROWN, Clerk of the Council.

County Offices, Thorpe Road, Norwich. 1082

8th March, 1948.

## GLAMORGAN COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments, in the above Department:—

(a) AREA PLANNING OFFICER. Salary of £750, rising by annual increments of £50 to a maximum of £850, plus a cost-of-living bonus amounting to £89 19s. 3d. per annum.

(b) PRINCIPAL PLANNING ASSISTANT AT CARDIFF (Development Plan). Salary in accordance with Grade VIII (Administrative, Professional and Technical), of the National Joint Council's scale of salaries, £585 per annum, rising by annual increments of £25 to a maximum of £760 per annum.

(c) SENIOR PLANNING ASSISTANT AT CARDIFF. Salary in accordance with Grade VI (Administrative, Professional and Technical) of the National Joint Council's scale of salaries, £595 per annum, rising by annual increments (two of £20 and one of £25) to a maximum of £660 per annum.

(d) CHIEF PLANNING ASSISTANTS IN AREA OFFICES. Salary in accordance with Grade V (Administrative, Professional and Technical) of the National Joint Council's scale of salaries, £520 per annum, rising by annual increments (two of £15 and one of £20) to a maximum of £570 per annum.

(e) PLANNING ASSISTANTS AT CARDIFF AND IN AREA OFFICES. Salary in accordance with Grade IV (Administrative, Professional and Technical) of the National Joint Council's scale of salaries, £480 per annum, rising by annual increments of £15 to a maximum of £525 per annum.

(f) PLANNING ASSISTANTS AT CARDIFF AND IN AREA OFFICES. Salary in accordance with Grade II (Administrative, Professional and Technical) of the National Joint Council's scale of salaries, £420 per annum, rising by annual increments of £15 to a maximum of £465 per annum.

(g) PLANNING ASSISTANTS IN AREA OFFICES. Salary in accordance with Grade I (Administrative, Professional and Technical) of the National Joint Council's scale of salaries, £390 per annum, rising by annual increments of £15 to a maximum of £435 per annum.

Area Offices will be situated at Neath, Bridgend and Pontypridd.

The appointments will be subject to the National Scheme of Conditions of Service, the staffing regulations of the County Council from time to time in force; the provisions of the Local Government Superannuation Act, 1937. Appointment (a) will be subject to three calendar months' notice on either side, while the remaining appointments will be subject to one calendar month's notice on either side. The successful candidates will be required to pass a medical examination. Applicants must not be over 45 years of age, but this condition may be relaxed in the case of a person already in the service of the County Council, or a specially suitable candidate employed by another local authority. In the case of ex-Service applicants, the age limit will be raised by the number of years served in H.M. Forces during the recent war.

Area Planning Officers will be required to provide and maintain motor cars, for which an allowance will be made on the appropriate scale.

Applicants for appointments (a) and (b) must be Corporate Members of the Town Planning Institute, and preference will be given to candidates holding in addition other suitable professional qualifications, which must have been obtained by examination.

Applicants for appointments (c) (d), and (e) must be Corporate Members of the Town Planning Institute, or hold other suitable academic or professional qualifications, which must have been obtained by examination.

Applicants for appointments (f) and (g) must be University Graduates, or have passed the Intermediate examination of suitable professional bodies.

Full particulars of the appointments may be obtained from the County Planning Officer, Mr. E. John Powell, M.Inst.C.E., County Hall, Cardiff, to whom applications should be addressed, stating age, qualifications, experience and present salary, accompanied by a copy of a recent testimonial and the names and addresses of two referees. The latest date for receipt of applications is 6th April, 1948. Envelopes should be endorsed "County Planning Appointments."

A. CLIFFORD WALTER, Deputy Clerk of the County Council.

Glamorgan County Hall, Cardiff. 1070

8th March, 1948.

## CITY OF BATH. CITY ENGINEER'S DEPARTMENT.

(1) Applications are invited for the following appointment on the permanent staff of the City Engineer:—

(a) JUNIOR ARCHITECTURAL ASSISTANT. Salary, A.P.T. I or II (£390-£435 or £420-£465), depending on qualifications and experience.

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

(3) Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, should be sent to the City Engineer, Guildhall, Bath, not later than 3rd April, 1948.

J. BASIL OGDEN, Town Clerk.

Guildhall, Bath. 607

16th March, 1948.

## ROYAL INSTITUTE OF BRITISH ARCHITECTS.

The Council invite applications for the full-time appointment of LIBRARIAN to the Institute. The primary requirement is a knowledge of architecture. Experience of library administration will also be considered an advantage. Applicants must be aged between 30 and 45. Minimum salary £750, rising by annual increments of £25 to £1,000, less superannuation contributions of 5 per cent.

Forms of application and further particulars may be obtained from the Secretary, R.I.B.A., 66, Portland Place, W.1. Applications must be submitted not later than 10th April, 1948.

1092

## CITY OF LEEDS. CITY ARCHITECTS' DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT. Consolidated Salary Scale: £565, rising to £760 per annum.

(b) ASSISTANT ARCHITECTS. Consolidated Salary Scale: £595, rising to £710 per annum.

(c) ASSISTANT ARCHITECTS. Consolidated Salary Scale: £536, rising to £660 per annum.

(d) ASSISTANT ARCHITECTS. Consolidated Salary Scale: £520, rising to £650 per annum.

(e) ASSISTANT ARCHITECTS. Consolidated Salary Scale: £480, rising to £525 per annum.

(f) ASSISTANT ARCHITECTS. Consolidated Salary Scale: £450, rising to £525 per annum.

(g) ASSISTANT ARCHITECTS. Consolidated Salary Scale: £450, rising to £495 per annum.

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

(h) ASSISTANT ARCHITECTS. Consolidated Salary Scale: £390, rising to £435 per annum.

The payment of salary increments will be subject to satisfactory service, and normally will be granted with effect from the 1st April following the completion of six months' service.

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 therefore not later than 10 a.m. on Thursday, the 8th April, 1948.

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

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

Priestley House, Quarry Hill, Leeds, 9. 502

13th March, 1948.

## CITY AND COUNTY OF THE CITY OF EXETER.

Applications are invited for the following appointments on the staff of the City Architect's Department:—

(a) ARCHITECTURAL ASSISTANTS. Vacancies on the permanent and temporary staff. Salaries equivalent to A.P.T. Grades I, II, III or IV, i.e., ranging from £330 to £465 per annum, according to qualifications and experience.

Candidates should be experienced in Housing, Educational and general Municipal building work.

(b) STRUCTURAL ENGINEERING ASSISTANT, on the permanent staff. Salary, A.P.T. Grade V, i.e., £460 to £510 per annum.

Candidates should have had experience in both design and execution of steel-framed and reinforced concrete structures.

(c) MAINTENANCE SURVEYOR, on the permanent staff. Salary, A.P.T. Grades IV to V, i.e., £420 to £510 per annum.

Candidates should have a thorough knowledge of building maintenance works and construction, be able to write specifications and reports, be conversant with contract procedure, and be able to check accounts and keep records. They should have sound administrative experience in Local Government work, and preference will be given to those with experience in the maintenance of public buildings, including schools and housing.

Cost-of-living bonus, at present £59 19s. 3d. per annum, is payable in addition to the salaries stated for each of the above appointments.

Housing accommodation will be found for those appointed to some of the above posts.

All the above appointments will be subject to one month's notice on either side.

Permanent appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and successful applicants for these appointments will be required to pass a medical examination.

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

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, salary required (in the case of architectural assistants' posts only), and the earliest possible date when available, together with copies of recent testimonials, should be sent to H. B. Rowe, F.R.I.B.A., A.M.I.Struct.E., City Architect, 2, Southernhay West, Exeter, not later than 12th April, 1948.

C. J. NEWMAN, Town Clerk.

Exeter. 503

3rd March, 1948.



**SURREY COUNTY COUNCIL.**  
**COUNTY ARCHITECT'S DEPARTMENT.**  
 Applications are invited for the following appointment:—  
**ASSISTANT QUANTITY SURVEYOR** (Grade VI) at a commencing salary of £595, rising by annual increments of £20/£25 to a maximum of £660 per annum.

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

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 17th April, 1948.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration. The Council will be unable to provide any housing accommodation, and the successful applicant will be expected to make their own arrangements in this direction.

**DUDDLEY AUKLAND,**  
*Clerk of the Council.*  
 County Hall, Kingston-upon-Thames. 519

**BOROUGH OF BRENTFORD AND CHISWICK.**  
**APPOINTMENT OF TWO TEMPORARY ARCHITECTURAL ASSISTANTS AND ONE TEMPORARY JUNIOR ARCHITECTURAL DRAUGHTSMAN.**

Applications are invited for the under-mentioned temporary appointments in the Borough Engineer and Surveyor's Department:—

(a) Two Temporary Architectural Assistants. Salary in accordance with Grade V of the National Joint Council Scale (£540-£590). Preference will be given to applicants who are Associate Members of the Royal Institute of British Architects (or hold similar qualifications), but consideration will also be given to applications of persons intending shortly to take the Associate Examination. Applicants should have had experience in general architectural work, school and house planning and design, including the preparation of working drawings, specifications and setting out. Subject to six months' satisfactory service, the successful applicants may anticipate being placed on the permanent staff.

(b) Junior Architectural Draughtsman. Salary, £6 16s. 6d. per week. Applicants should be well experienced in the tracing and colouring of architectural and engineering drawings, a working knowledge of building construction and Municipal engineering being an advantage.

Applicants are required to disclose in writing whether to their knowledge they are related to any member or senior officer of the Council. Canvassing, either directly or indirectly, will be a disqualification. The attention of applicants is drawn to the fact that owing to the serious shortage of housing accommodation within the Borough, the Council will be unable to assist the successful applicants in obtaining such accommodation. The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing in each case of a medical examination. The successful applicants will be required to enter into Fidelity Bonds with the Council's Insurers, at the expense of the Council. The Council have agreed (i) to observe any undertaking which an applicant has given to his/her present employing authority to remain in their service for a stipulated period, and (ii) to require any applicant whom it is proposed to appoint to a vacant post to remain in the Council's service for a minimum period of two years. The latter provisions (i.e., duration of service) do not apply to the post of Junior Draughtsman.

Applications, endorsed "Architectural Assistant" or "Junior Architectural Draughtsman," respectively, and stating age, qualifications, experience, present appointment and salary, accompanied by copies of three recent testimonials, should reach the undersigned not later than 12 noon on the 14th April, 1948.

**W. F. J. CHURCH,**  
*Town Clerk.*  
 Town Hall, Chiswick, W.4.  
 March, 1948. 518

**LONDON COUNTY COUNCIL.**  
**VACANCIES FOR QUANTITY SURVEYORS.**  
 Applications are invited for a number of positions as Quantity Surveyor, in the Architect's Department, on salary scale £440 to £580 a year. Commencing rates will be according to qualifications and experience. There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund. Details of work will include:—Measurement of work in construction of Council buildings, preparation of interim and final bills, measurement and adjustment of sub-contractors; preparation of cost statistics, estimates, etc.; interim valuations for payments, measurement of variations and settlement of final accounts.

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

Canvassing disqualifies. (343) 869

**SURREY COUNTY COUNCIL.**  
**APPOINTMENT OF CHIEF QUANTITY SURVEYOR.**

Applications are invited for the appointment of Chief Quantity Surveyor. The salary will be £1,250 per annum, rising by annual increments of £50 to a maximum of £1,400 per annum. The point on the scale at which the successful applicant will commence will depend on qualifications and ability.

Applicants must be Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division), and should have a wide experience in the preparation of approximate estimates and Bills of Quantities, adjustment of accounts, and other works which are incidental to the position of Chief Quantity Surveyor in a Local Government Department. The successful applicant will be expected to possess tact and initiative, and be experienced in the control of staff.

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

Applications, stating age, full details of previous experience, and qualifications, accompanied by copies of three recent testimonials and the names of three referees, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than Saturday, the 10th April, 1948.

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

**DUDDLEY AUKLAND,**  
*Clerk of the Council.*  
 County Hall, Kingston-upon-Thames. 1079

**NEW TOWNS.**  
**CRAWLEY DEVELOPMENT CORPORATION.**

The Crawley Development Corporation invites applications for the following posts:—

(a) **SENIOR ARCHITECT**, within the range £1,000-£1,250 gross.  
 (b) **ARCHITECTS**, within the range £850-£1,000 gross.

(c) **ASSISTANT ARCHITECTS**, within the range £600-£800 gross.

(d) **JUNIOR ASSISTANT ARCHITECT**, within the range £350-£550 gross.

The commencing salary will be determined by the qualifications and experience of the applicants.

Contributory superannuation (with the choice of entering a fund under the Local Government Superannuation Act, 1937) will be provided.

These appointments are required to fill vacancies in the first planning and design units employed upon developing areas of the town under the direction of the Chief Architect, Mr. A. G. Sheppard Fidler, M.A., B.Arch., Dip.C.D., A.R.I.B.A., A.M.T.P.I., R.S.

Applicants for appointment (a) should have had a wide general experience in architecture and planning, supported by organising ability and experience in the management of building contracts. For appointments (b) and (c) town planning experience is not essential, but applicants should have had first-class experience in design of housing, industrial buildings, public buildings, etc. Applicants for appointment (d) should be familiar with details in the above class of work, and should have attained the R.I.B.A. Intermediate examination standard.

The appointments will be to serve the Corporation at Crawley, but officers may have to work at the London office for a short period. Applications should be made in writing by 7th April, 1948, to the Chief Architect, Crawley Development Corporation, 13, Grosvenor Square, W.1.

The letter of application should give the following information:—

(a) Name and address, age, place of birth, married or single; (b) present post and salary; (c) post now applied for and salary required; (d) notice required to terminate present appointment; (e) education; (f) qualifications; (g) particulars of experience; (h) names and addresses of three persons to whom reference may be made concerning the applicant's professional ability.

**C. A. C. TURNER,**  
*Chief Executive Officer.*  
 1064

**BINGLEY URBAN DISTRICT COUNCIL.**  
**APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for permanent appointment of Architectural Assistant. Salary, Grade IV, £480 per annum, rising by three annual increments of £15 to £525.

Candidates should have had considerable training and experience in housing design, development and general architectural work. Preference will be given to candidates who have passed the examinations of the Royal Institute of British Architects.

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

Applications, stating age, qualifications, training and experience, and details of past and present appointments, accompanied by copies of three recent testimonials, should be forwarded, endorsed "Architectural Assistant," to the undersigned before 9th April, 1948.

**P. M. DUNWELL,**  
*Clerk of the Council.*  
 Town Hall, Bingley.  
 23rd March, 1948. 506

**DAVENTRY RURAL DISTRICT COUNCIL.**  
**ARCHITECTURAL ASSISTANT.**

The above Council invite applications for the appointment of Architectural Assistant in the Surveyor's Department. The appointment is of a temporary nature, but is expected to last several years. Preference will be given to applicants who are Members of the R.I.B.A.

The appointment will be in accordance with the National Scheme of Conditions of Service and graded under the Administrative, Professional and Technical Division, Grade V (Salary, £460-£510 per annum plus bonus). Travelling allowance will be paid according to the scale approved by the National Joint Council.

Applications, on the forms to be provided, should be received by the undersigned not later than 10th April, 1948.

Candidates must disclose in writing whether to their knowledge they are related to any member or Senior Officer of the Council, and canvassing, either directly or indirectly, will disqualify.

**G. B. SAINT,**  
*Clerk to the Council.*  
 44, High Street, Daventry.  
 13th March, 1948. 1095

**CITY OF STOKE-ON-TRENT.**  
**CITY ARCHITECT'S OFFICE.**

Applications are invited for the following appointment on the Establishment Staff of the City Architect's Department:—

**ONE ASSISTANT QUANTITY SURVEYOR.** Salary, A.P.T. Division, Grade VI, £595-£660.

The selected applicant will be required to pass a medical examination, and the appointment will be subject to the following:—

(1) One calendar month's notice on either side. (2) The provisions of the Local Government Superannuation Act, 1937.

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

Applicants must be members of the Royal Institution of Chartered Surveyors (Quantities), and must be competent in all branches of quantity surveying practice.

The successful applicant will be assisted in obtaining housing accommodation if required.

Applications, giving date of birth, particulars of education and training, qualifications, experience, present and previous appointments, with copies of two recent testimonials and names and addresses of two persons to whom reference may be made, should be received by J. R. Piggett, F.R.I.B.A., City Architect, City Architect's Department, Kingsway, Stoke-on-Trent, not later than 16th April, 1948.

**HARRY TAYLOR,**  
*Town Clerk.*  
 Town Hall, Stoke-on-Trent. 501

**CROWN AGENTS FOR THE COLONIES.**

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

**DRAUGHTSMAN SURVEYOR** required by Jamaica Government Railway for three years, with possibility of permanency. Salary, £550-£750, according to experience. Free passages.

Candidates should have good railway experience and be able to design and prepare specifications and supervise actual construction of buildings and railway engineering works. They should also be competent railway surveyors. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/18574/3D on both letter and envelope. 514

**COUNTY BOROUGH OF BIRKENHEAD.**  
**APPOINTMENT OF SENIOR ASSISTANT ARCHITECT FOR EDUCATIONAL BUILDINGS.**

Applications are invited for the above appointment. Salary in accordance with Grade A.P.T., V, of the National Scale (£320-£370 consolidated salary).

Candidates should be qualified by examination, and should be Associates of the Royal Institute of British Architects or have an equivalent qualification, and must have had considerable experience.

(a) Design of Schools and other Educational Buildings.  
 (b) Alterations and adaptations to Schools, etc.  
 (c) Repair and maintenance of School premises.  
 (d) Preparation of Specifications, Quantities, and estimated costs.

A sound knowledge of the Building Regulations of the 1945 Education Act is essential.

The Council cannot provide any assistance in securing housing accommodation for the successful candidate.

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

Applications must be made in the prescribed manner, particulars of which can be obtained from Mr. B. Robinson, M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Birkenhead, and must be submitted in a plain envelope endorsed "Senior Assistant Architect," and delivered to me not later than the date prescribed on the particulars to be supplied to applicants.

**E. W. TAME,**  
*Town Clerk.*  
 Town Hall, Birkenhead.  
 15th March, 1948. 508

# COUNTY BOROUGH OF OLDHAM. APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments in my department:—

(a) ONE SENIOR ARCHITECTURAL ASSISTANT (First Class). The salary will be at the rate of £520 to £570 per annum, being Grade V of the National Scale of Salaries.

(b) ONE SENIOR ARCHITECTURAL ASSISTANT (Second Class). The salary will be at the rate of £480 to £525 per annum, being Grade IV of the National Scale of Salaries.

Candidates for (a) should hold a recognised architectural qualification, and a Town Planning qualification would be an advantage.

They should also have had comprehensive experience in design and construction.

Candidates for (b) must be neat and capable draughtsmen, competent to prepare working drawings, take out quantities, and prepare estimates. They should possess a recognised architectural qualification.

The appointments will be subject to the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. Conditions relating to the appointments can be obtained from the undersigned.

Applications, stating age and previous appointments, in addition to qualifications and experience, and copies of three recent testimonials, must reach the undersigned not later than Saturday, the 10th April, 1948, in envelopes endorsed in accordance with (a) or (b).

A. L. HOBSON,

Borough Engineer and Surveyor.

Municipal Buildings, 75, Union Street, Oldham.  
18th March, 1948. 515

## CITY OF COVENTRY.

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

(a) ONE ASSISTANT ARCHITECT (Education Section).

Salary grade, A.P.T., Va, commencing at £550 p.a. and rising to £610 p.a. Candidates should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

(b) ONE ASSISTANT ARCHITECT.

Salary grade, A.P.T., III, commencing at £450 p.a. and rising to £495 p.a.

(c) ONE SENIOR ASSISTANT QUANTITY SURVEYOR.

Salary grade, A.P.T., Va, commencing at £550 p.a., and rising to £610 p.a. Candidates should

be Professional Associates of the Royal Institution of Chartered Surveyors (Quantities Division). Salary increments are subject to satisfactory service.

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

Applications must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Monday, 12th April, 1948.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON,

City Architect.

14, Warwick Row, Coventry.  
26th March, 1948. 516

## Architectural Appointments Vacant

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

ARCHITECTURAL or SURVEYING ASSISTANTS required by North-Eastern Brewery; help given with housing accommodation; permanency for right men, with entry into pension scheme. State age, experience, married or single, when free, and salary required, to Architect, Box 1080.

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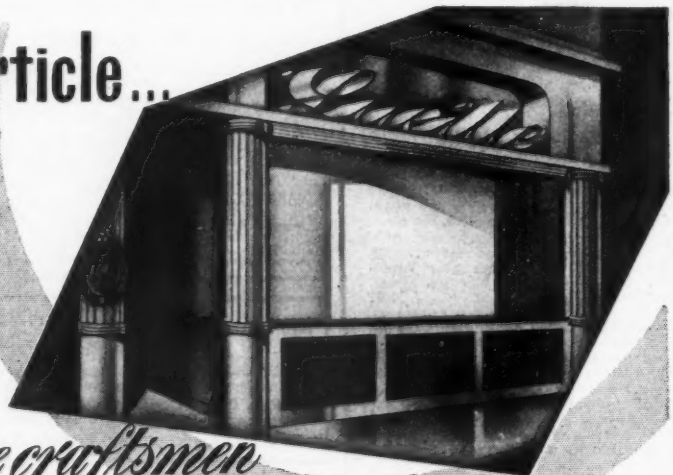
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# Alphabetical Index to Advertisers

Allied Guilds.....	liix	Gaze, W. H. & Sons, Ltd. ....	liii	Odoni, Alfred A., & Co., Ltd. ....	PAGE
Allied Paints & Chemicals, Ltd. ....	xli	General Accessories .....	i	Oliver, Wm., & Sons, Ltd. ....	li
Anderson Construction Co., Ltd. ....	xvii	General Cable Manufacturing Co., Ltd. ....	li	Paragon Glazing Co., Ltd. ....	liix
Anderson, D., & Son, Ltd. ....	—	Gray, J. W., & Sons, Ltd. ....	lii	Paul, W. H., Ltd. ....	xlix
Associated Metal Works (Glasgow), Ltd. ....	—	Hall, John, & Sons .....	lii	Peglers, Ltd. ....	xvii
Banister, Walton & Co., Ltd. ....	xxi	Hamilton Photo Print Service, Ltd. ....	lii	Pel, Ltd. ....	liii
Barraclete, Ltd. ....	—	Harvey, G. A., & Co. (London), Ltd. ....	lii	Poles, Ltd. ....	xviii
Bath Cabinet Makers & Artcraft, Ltd. ....	xv	Hellwell & Co., Ltd. ....	xxviii	Pritchett & Gold & E.P.S. Co., Ltd. ....	iv
Baylis Kenton Installations, Ltd. ....	—	Henderson, P. C., Ltd. ....	—	Prodorite, Ltd. ....	—
Blundell, Spence & Co., Ltd. ....	lii	Higgs & Hill, Ltd. ....	—	Pyrotenax, Ltd. ....	—
Booth, James, & Co., Ltd. ....	—	Hillier, L. W. ....	lii	Ronuk, Ltd. ....	—
Booth, John, & Sons (Bolton), Ltd. ....	—	Holoplast, Ltd. ....	ix	Ruberoid, Ltd. ....	xli
Boulton & Paul, Ltd. ....	xli	Huntley & Sparks, Ltd. ....	liiii	Sadd, John, & Sons, Ltd. ....	xx
Box, C. W. ....	liix	Hurseal, Ltd. ....	—	Sadler, Thos., & Sons, Co., Ltd. ....	—
Braithwaite & Co., Engineers, Ltd. ....	—	Imperial Chemical Industries .....	—	Sankey, J. H., & Son, Ltd. ....	xxiv
Bratt Colbran, Ltd. ....	xlii	Insulate Products Corporation, Ltd. ....	—	Sankey, Joseph, & Sons, Ltd. ....	xvii
Briggs, William, & Sons, Ltd. ....	vii	International Correspondence Schools, Ltd. ....	—	Scaffolding (Great Britain), Ltd. ....	xxx
British Aluminium Co., Ltd. ....	v	Jenkins, Robert, & Co., Ltd. ....	lii	Sealcrete Products, Ltd. ....	—
British Gas Council .....	xiv	Jicwood, Ltd. ....	lii	Service Electric Co., Ltd. ....	li
British Insulated Callender's Cables, Ltd. ....	—	Johnston Bros. (Contractors), Ltd. ....	lii	Shaffer, James, Ltd. ....	lii
British Ironfounders' Association .....	—	Jones, Saml., & Co., Ltd. ....	lii	Sharman, R. W., Ltd. ....	lii
British Mouldex Rubber Co., Ltd. ....	ii	Key Engineering Co., Ltd. ....	lii	Shires & Co. ....	xviii
British National Electric, Ltd. ....	xliii	Lamont, James H., & Co., Ltd. ....	—	Smith, Henry (Constructional Engineers), Ltd. ....	lii
British Thomson-Houston Co., Ltd., The .....	xxxviii	Leaderflush, Ltd. ....	—	Smith & Rodger, Ltd. ....	lii
Broadcast Relay Service, Ltd. ....	—	Lead Industries Development Council... ..	—	Southern Lime Association, The .....	xviii
Bull Motors (E. R. & F. Turner), Ltd. ....	—	Lightfoot Refrigeration Co., Ltd. ....	—	Stamford Trading Co., Ltd. ....	xliii
Cable Makers' Association .....	—	London Brick Co., Ltd. ....	—	Stelcon (Industrial Floors), Ltd. ....	iv
"Calor Gas" (Distributing) Co., Ltd. ....	lii	Lysaght, John, Ltd. ....	—	Sterling Textiles .....	xlii
Carlisle Electric Manufacturing Co., Ltd. ....	lii	Magnet Joinery, Ltd. ....	—	Stobart & Son, Ltd. ....	—
Carlton Metal Mouldings Co., Ltd. ....	lii	Mallinson, William, & Sons, Ltd. ....	—	Styles (Contractors), Ltd. ....	xlii
Carter & Co., Ltd. ....	xli	Marley Tile Co., Ltd. ....	—	Sundeala Board Co., Ltd. ....	—
Celcon, Ltd. ....	xli	Mavitta Drafting Machines, Ltd. ....	—	Temple Varnish Co., Ltd. ....	—
Cement Marketing Co., Ltd. ....	—	Maxwell, Andrew .....	—	Tenest Fibre Board Co., Ltd. ....	—
Clark & Fenn, Ltd. ....	lii	McCall & Co. (Sheffield), Ltd. ....	—	Thompson Beacon Windows, John, Ltd. ....	xxxii
Clark, James, & Eaton, Ltd. ....	lii	McCarthy & Sons, Ltd., M. ....	—	Thorp, John B. ....	—
Copper Development Association .....	—	McKechie Bros., Ltd. ....	—	Thorn Electrical Industries, Ltd. ....	xvi
C.S.A. Industries, Ltd. ....	xxv	Merchant Adventurers, Ltd. ....	—	Thornborough & Sons (Manchester), Ltd. ....	lii
Denny, Mott & Dickson, Ltd. ....	xi	Metallic Seamless Tube Co., Ltd. ....	—	Tilyard Tiles, Ltd. ....	lii
Durable Asphalt Co., Ltd. ....	xxx	Metropolitan-Vickers Electric Co., Ltd. ....	—	Travis & Arnold, Ltd. ....	xxvi
Eagle Range & Grate Co., Ltd. ....	xxvi	Michelin Tyres Co., Ltd. ....	—	Trussed Concrete Steel Co., Ltd., The ..	xxix
Ecko-Ensign Electric, Ltd. ....	vii	Mills Scaffolding Co., Ltd. ....	—	Turners Asbestos Cement Co., Ltd. ....	—
Ellison, George, Ltd. ....	lii	Midland Joinery Works, Ltd. ....	—	United Steel Companies, Ltd. ....	xii
English Joinery Manufacturers' Assoc. ....	—	Midland Woodworking Co., Ltd. ....	—	Val de Travers Asphalt Paving Co., Ltd. ....	—
Evered & Co. ....	xlii	M.K. Electric, Ltd. ....	—	Versil, Ltd. ....	—
Ferrocon Engineering Co., Ltd. ....	lii	Monk Metal Windows, Ltd. ....	—	Vulcan Products, Ltd. ....	xi
Foyles .....	lii	National Federation of Clay Industries ..	—	Ware, W. C., & Sons, Ltd. ....	xxxi
Freeman, Joseph, Sons & Co., Ltd. ....	—	National Savings Committee .....	—	Wellington Tube Works, Ltd. ....	—
French, Thomas, & Sons, Ltd. ....	vi	Neuchatel Asphalt Co., Ltd. ....	—	Wheeler, F. H., & Co., Ltd. ....	li
Garn Green & Rustick Slate Quarry, The ..	lii	Newalls Insulations Co., Ltd. ....	—	Wright, Anderson & Co., Ltd. ....	—
Gaskell & Chambers, Ltd. ....	xxviii	Nobles & Hoare, Ltd. ....	—		

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PAGE  
lxi  
lix

xlx  
xlvii  
liii  
xxviii

iv

xlvi

xx

xxiv  
xxvii  
xxx

li  
lix  
xlvii

lii  
lii  
xlviii  
xxvii  
iv  
xlvi

xlx

xxii

xvi  
lxi  
lix  
xxvi  
xxix

xii

xi  
xxxx  
li

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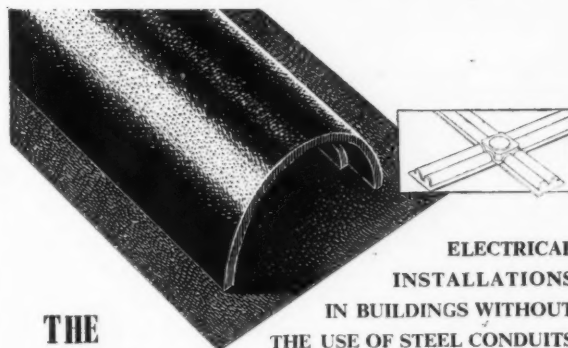
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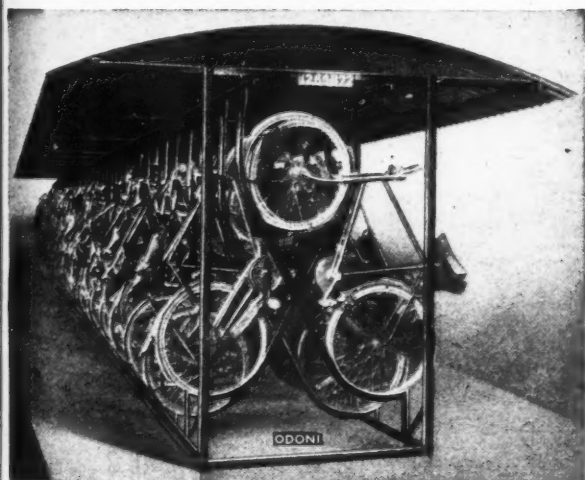
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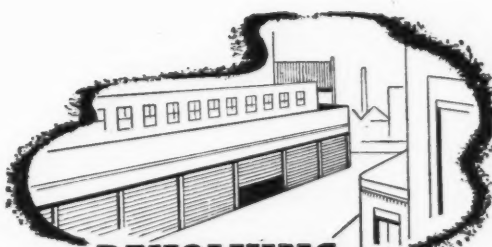
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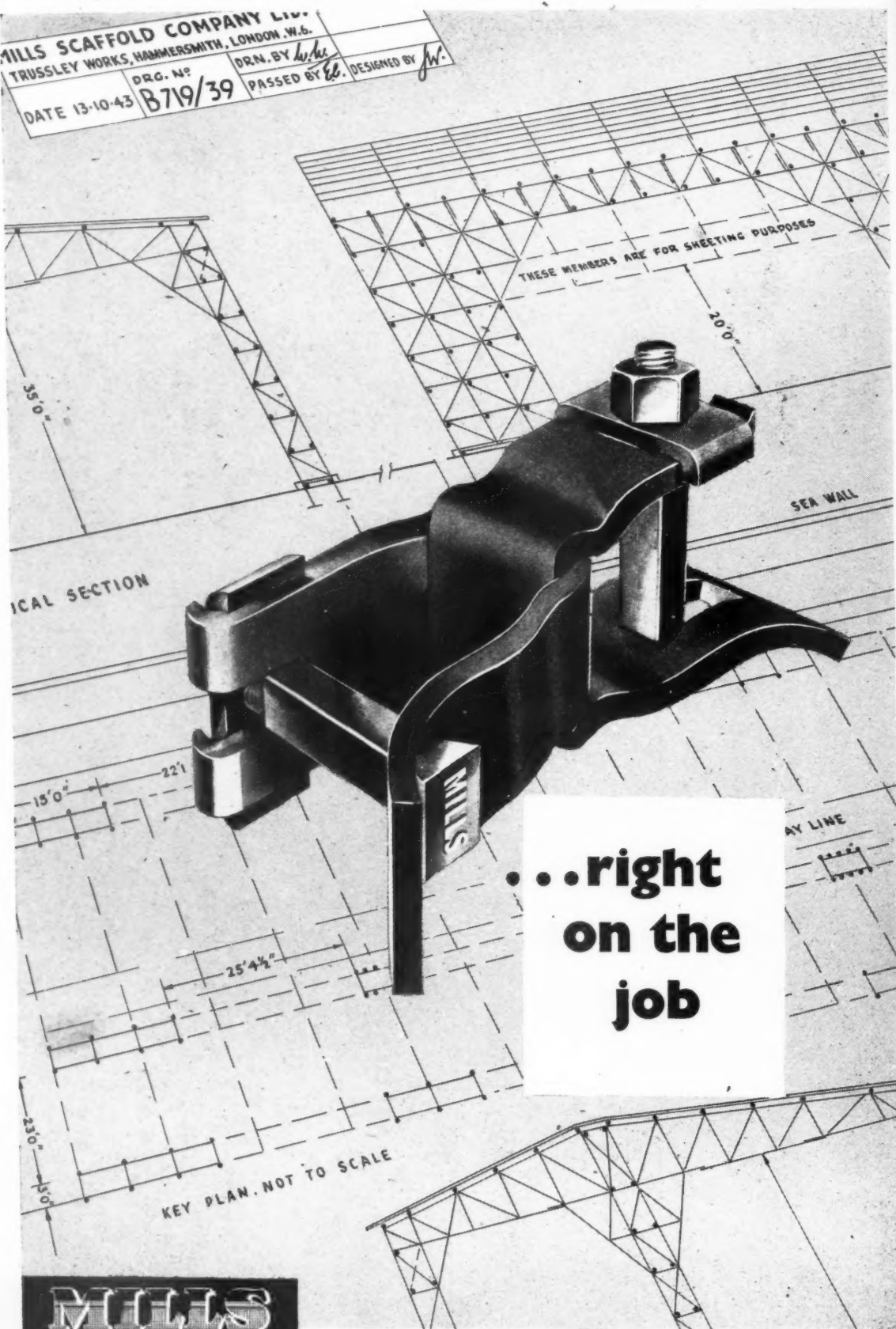
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