

# THE ARCHITECTS' JOURNAL



## standard contents

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

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Architectural Appointments  
Wanted and Vacant

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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
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.	
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. 6, Burlington Gardens, W.1.	Regent 1446
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR. 98, Gower Street, W.C.1.	Euston 6272/3
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C.	Chancery 5313
SIA	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.	
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 8815
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988



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YOU A YEAR FROM NOW?

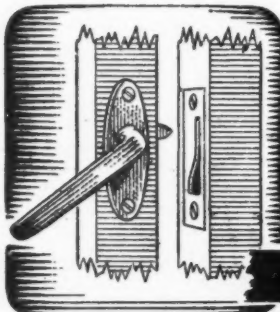
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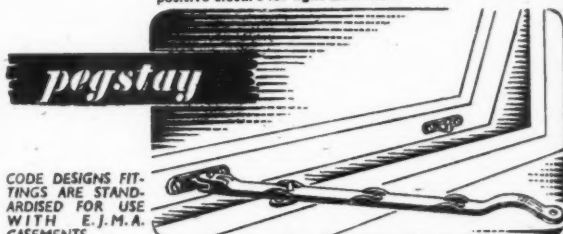
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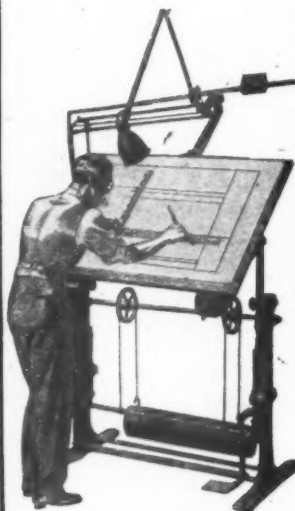
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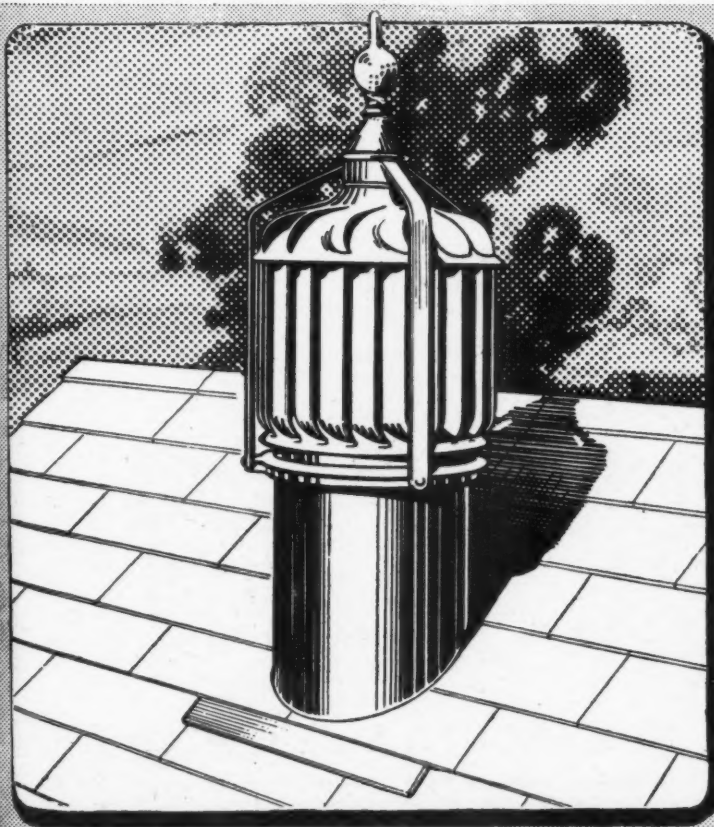
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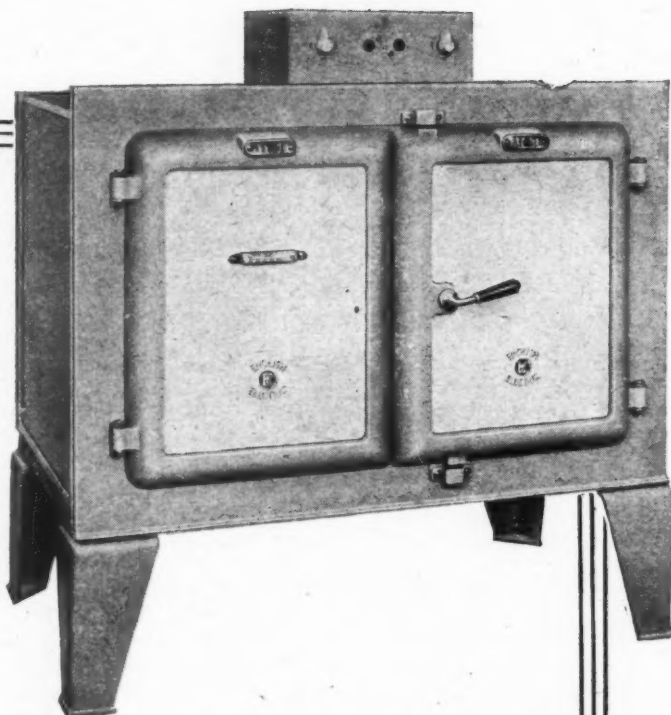
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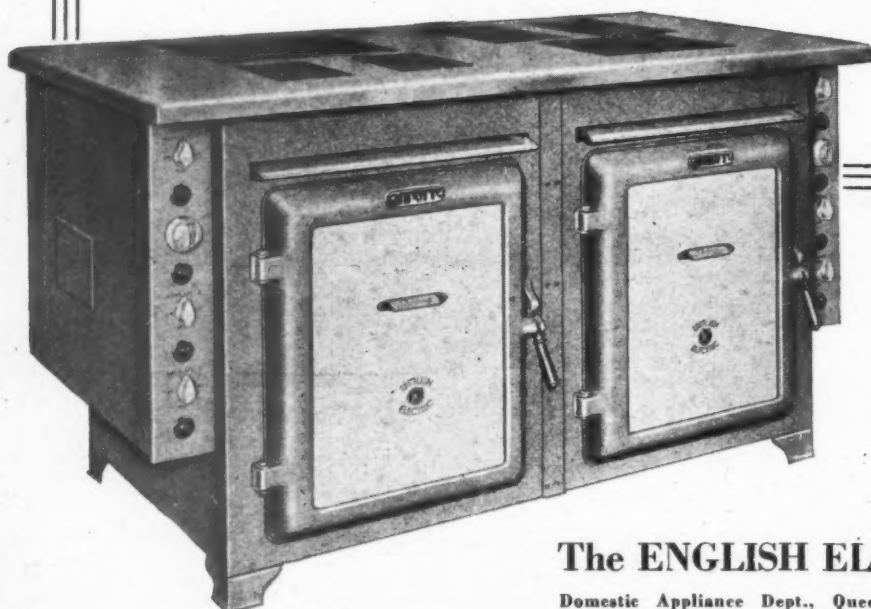
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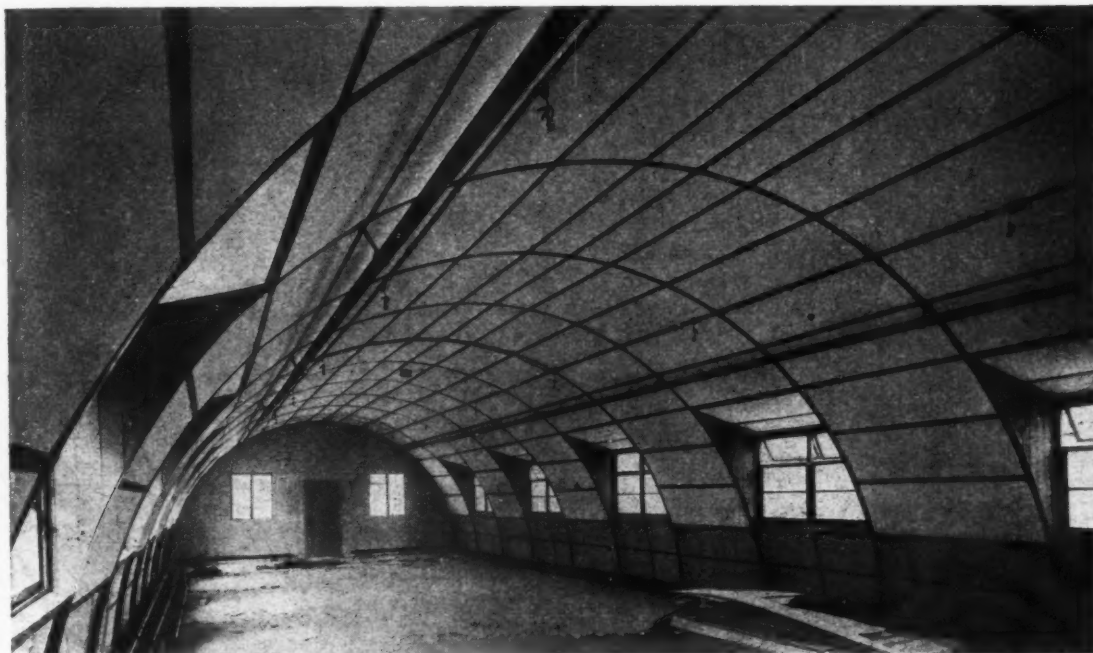


**The ENGLISH ELECTRIC Co. Ltd**

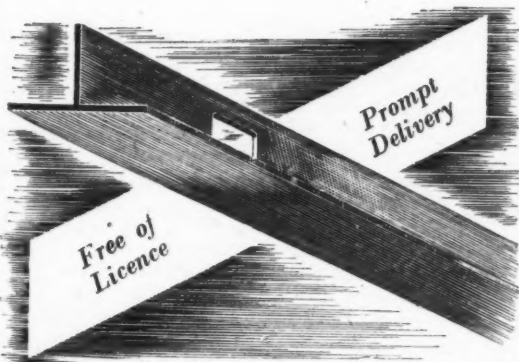
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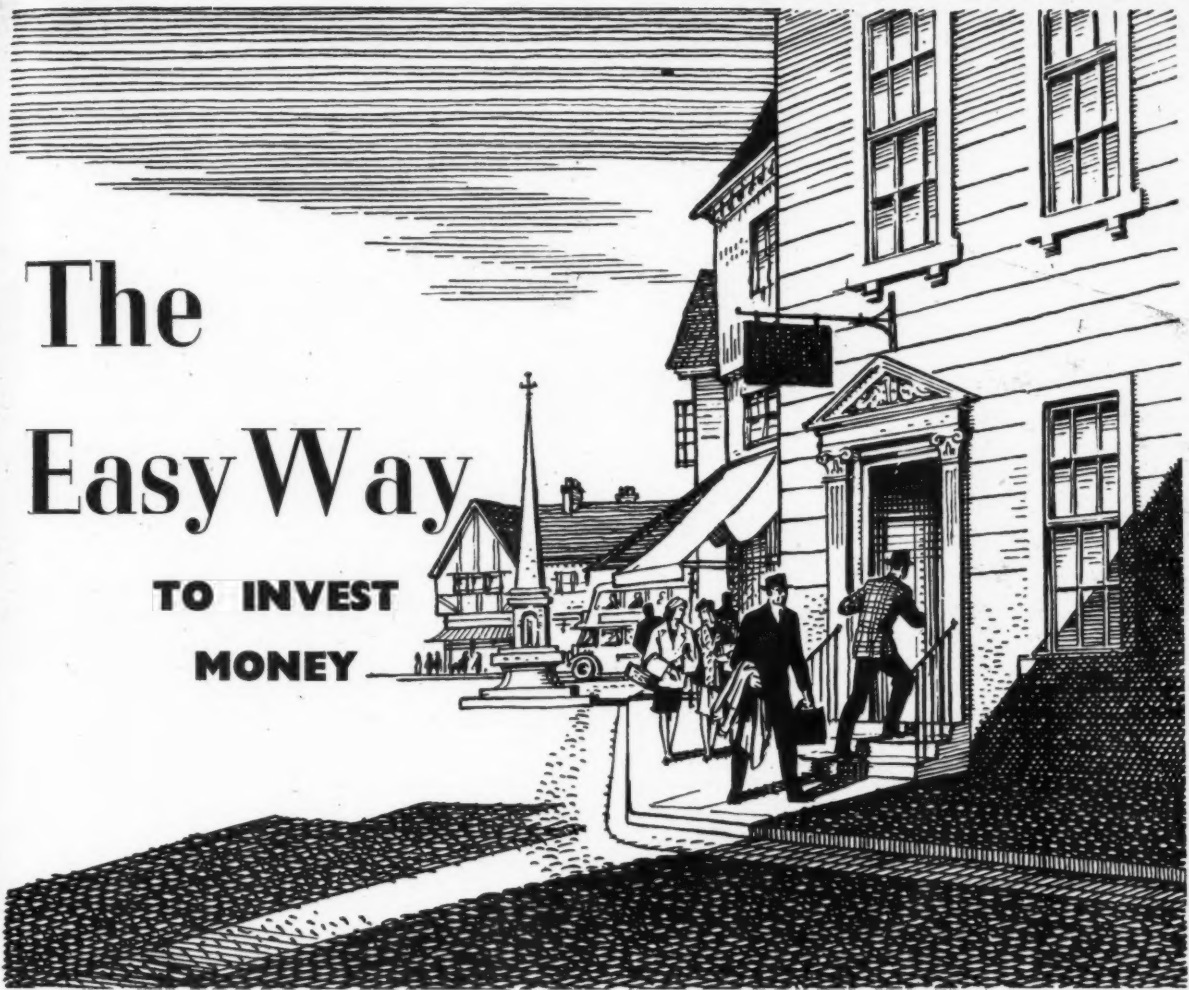
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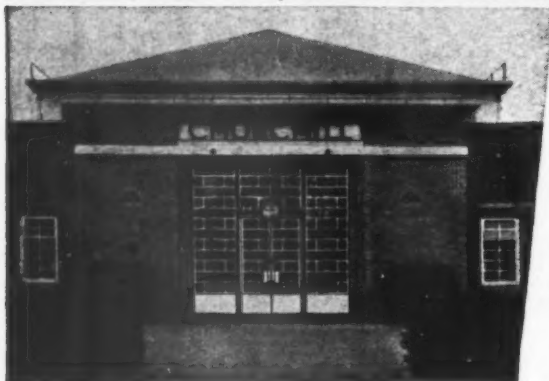


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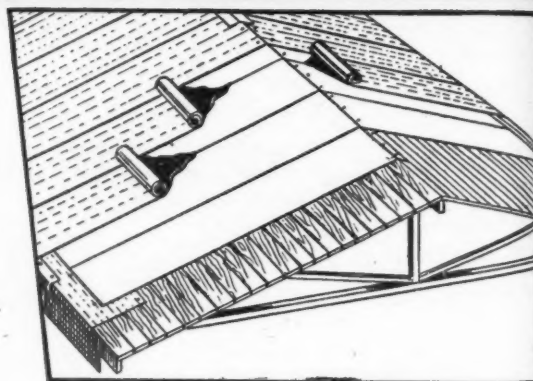
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THE ARCHITECTS' JOURNAL  
for January 29, 1948

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## THE MERCHANT ADVENTURERS

For six hundred years the merchants of Venice and Genoa held a monopoly of the great seaborne trade of the Mediterranean. English merchants took little part in the business of the world until the coastwise traffic with the Netherlands and Germany in wool, cloth and corn had so far increased in the 14th century as to make association desirable. Out of these circumstances the chartered companies of Merchant Venturers came into being.

In Great Britain the early charters were granted first to foreigners and in particular to branches of the Hanseatic League. The last foreign company was, however, closed down by Elizabeth in 1598.

The Gild Companies of mercers, grocers and drapers, whatever their names might signify, had long been importers and exporters. They owned stout English ships which were well equipped for expeditions, and these "merchantmen" brought them great profits. Combination of these interests became essential, as in addition to the hazards of the elements, they had to fight pirates, to resist privateers and to run the gauntlet of the ships of rival ports and countries.

The early history of the Merchant Venturers company is obscure and although their first known charter is dated 1407, there may have been earlier ones. They were an

offshoot of the Mercers Company and rapidly rose to great power and wealth. At the height of their prosperity they employed nearly 50,000 persons on the Continent. The merchants of York, Norwich, Exeter, Devizes and many other places lent their substance to these London ventures. Other towns, notably Bristol, had their own independent and no less successful companies trading in English and foreign vessels.

The Society of Merchant Adventurers of Bristol were the pioneers of the Atlantic trade and many of their expeditions had as their object the discovery and development of new territories.

They did much to combat and suppress piracy on the high seas and during the reign of Henry VIII it is recorded that they spent in a short time the then large sum of £500 in these attempts.

Almost all the Mayors and Aldermen of London in the 15th century were members of the various merchant companies and the wealth, and therefore the power, of the land became more and more vested in them.

As a result of their vision and enterprise as free men the foundations of Britain's seafaring prosperity were well and truly laid. Equally as important were their struggles with sovereign power during which they hammered out the English political system.



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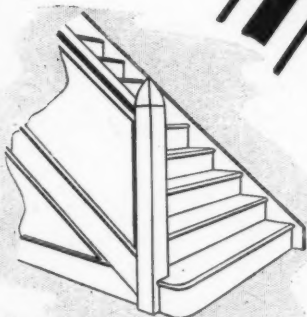
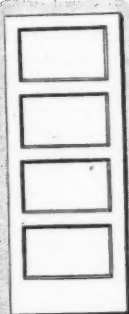
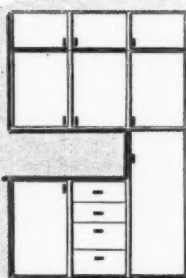
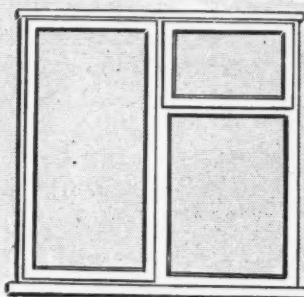




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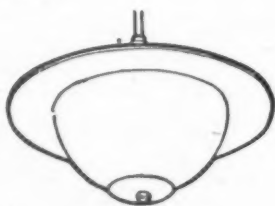
*Overhead Radiant Heaters are suitable for a wide range of sites: churches, public halls, factories, workshops, schools, restaurants, shops, stores, offices, etc. Consult your local gas undertaking or write to us for technical advice on installation layout.*

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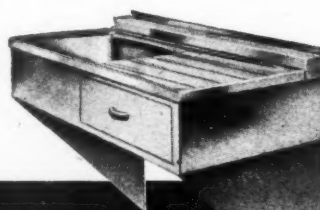
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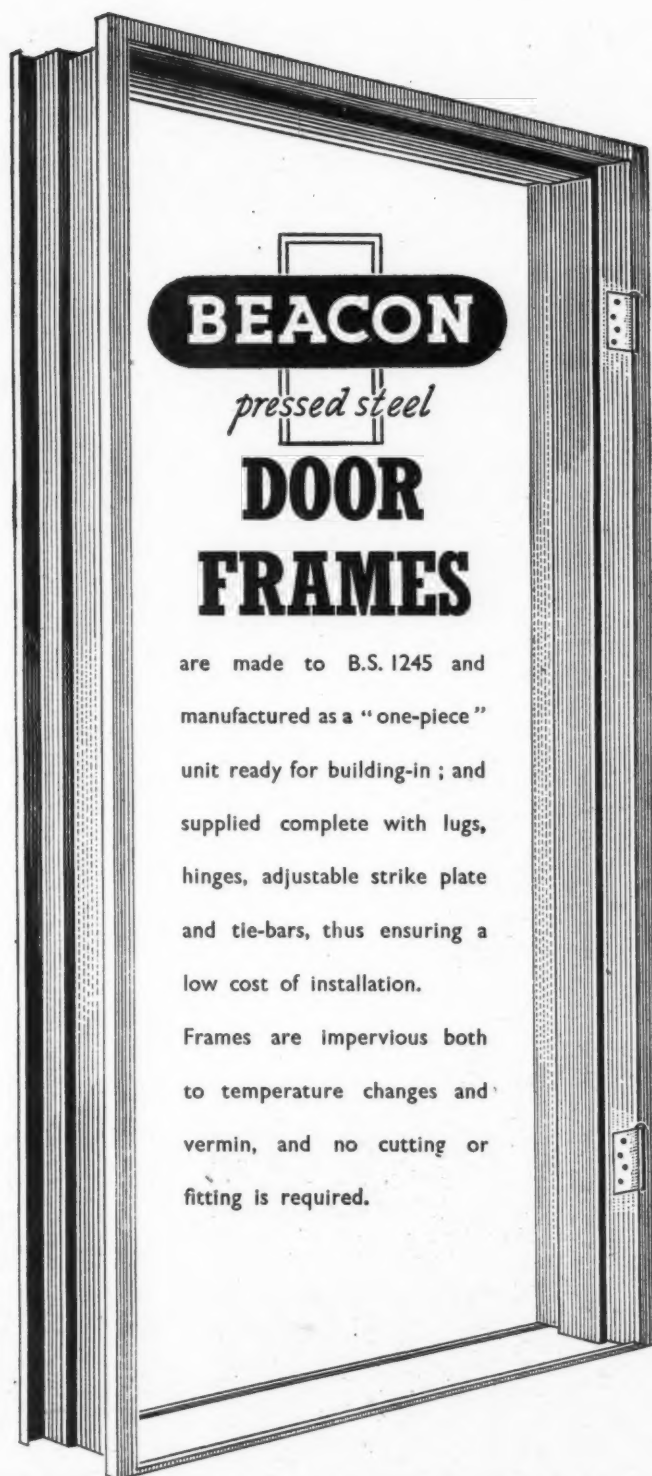
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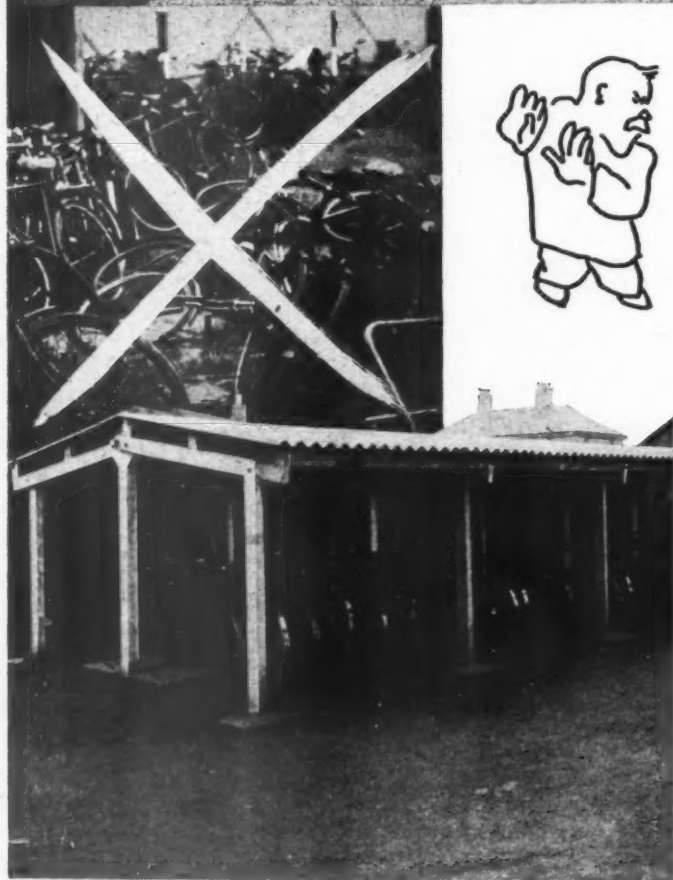
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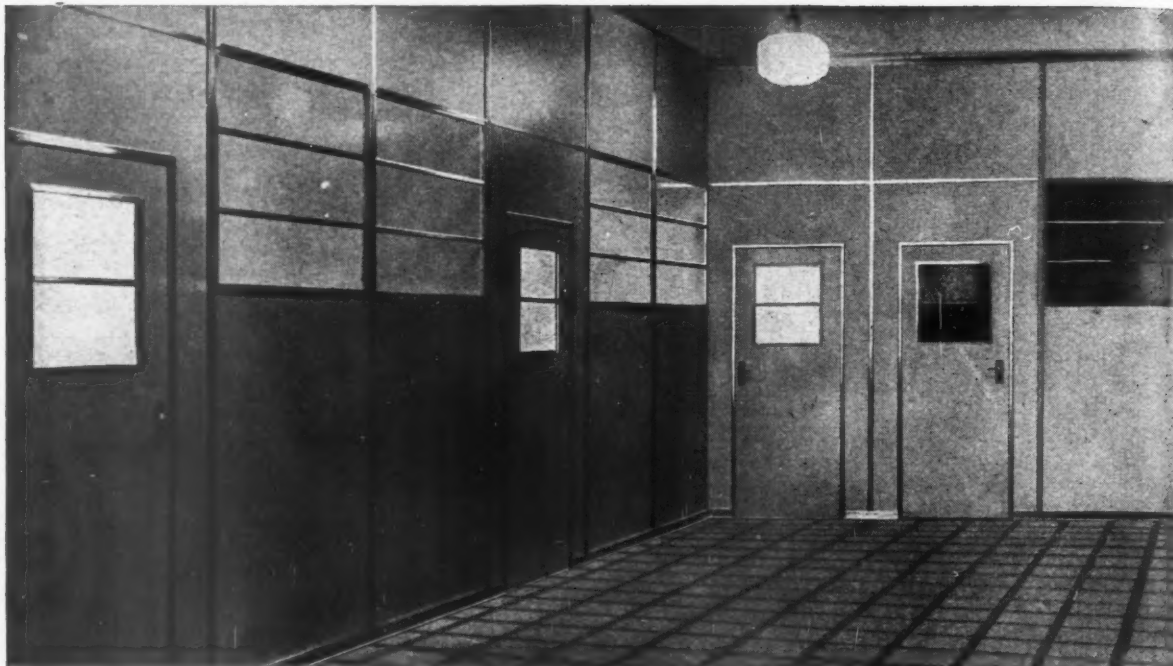
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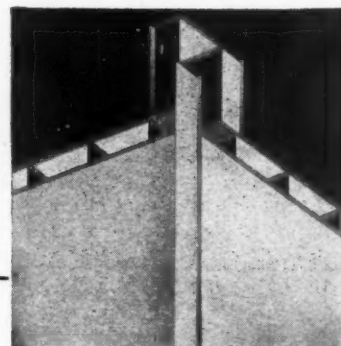
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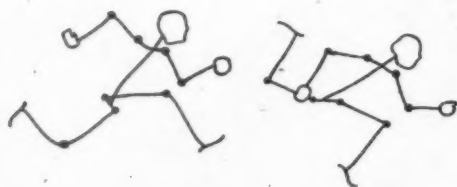
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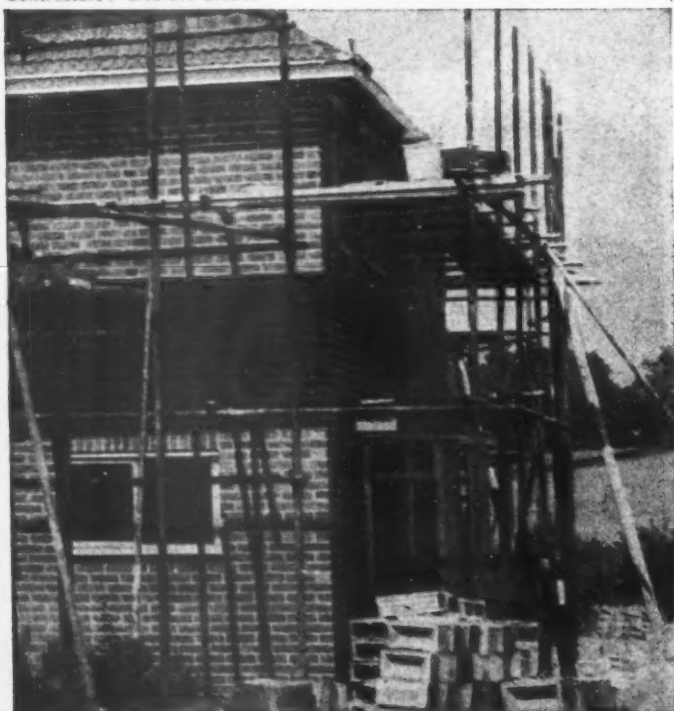
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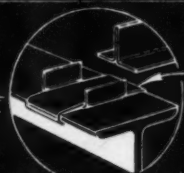
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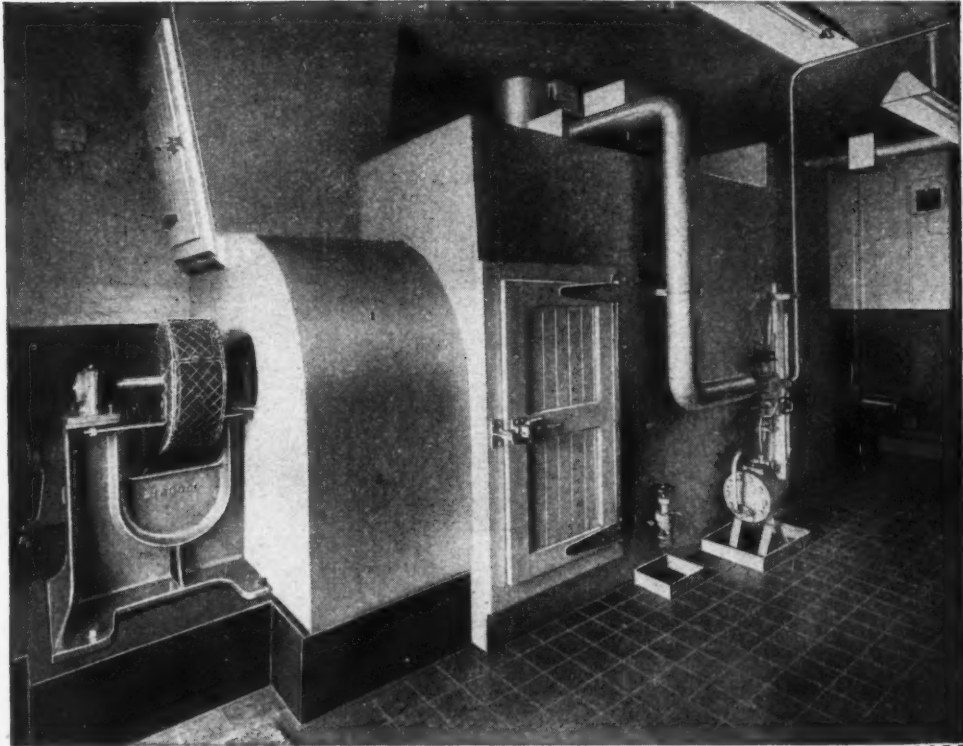
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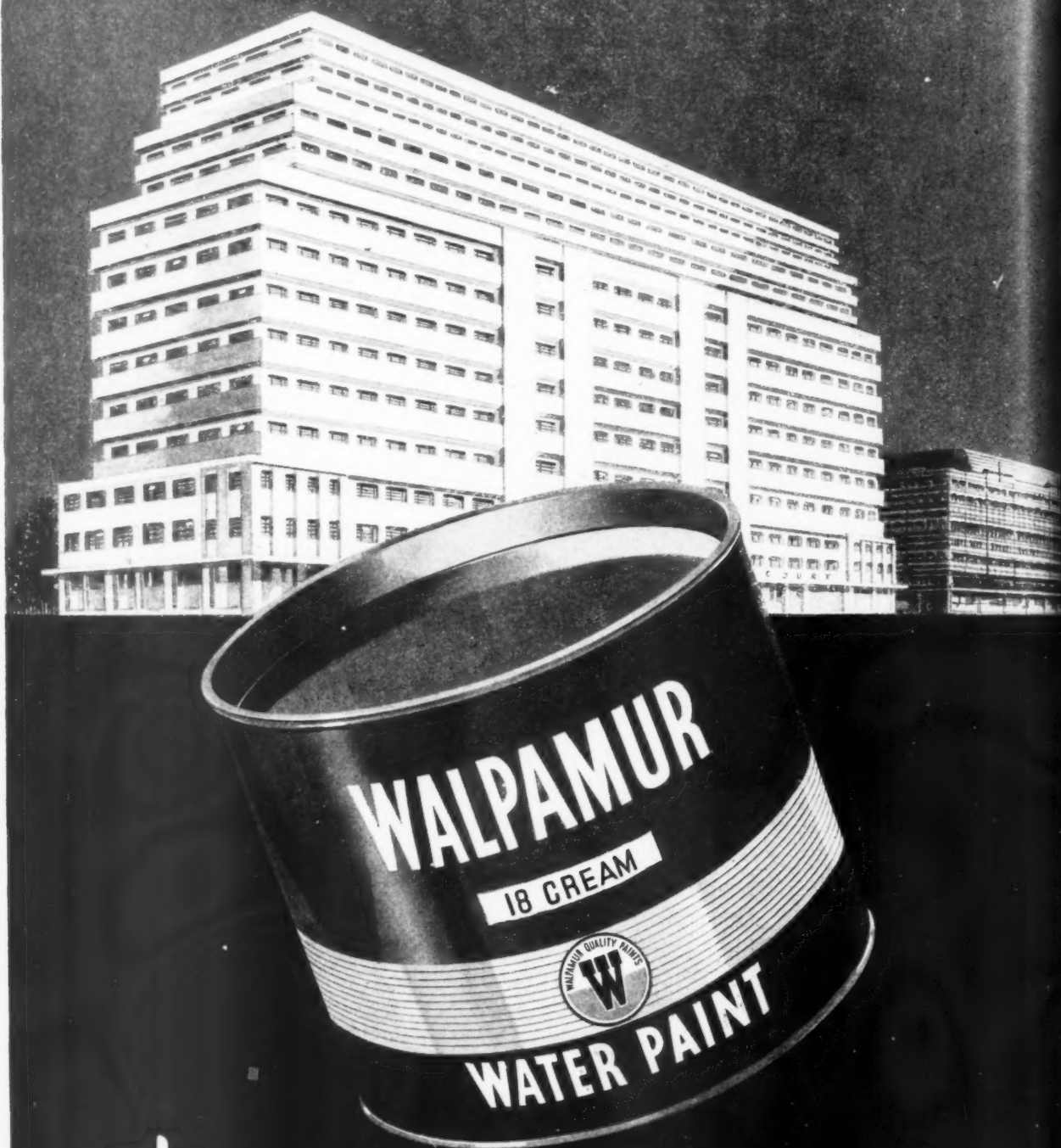
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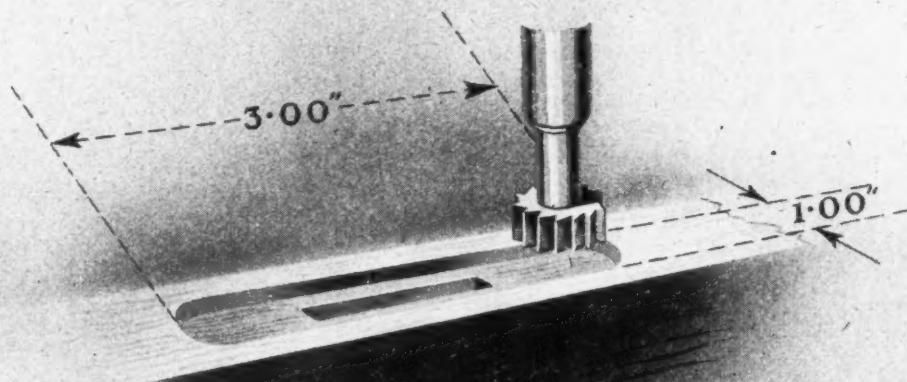
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## Some facts about the **"GYPROC"** 2-inch Solid Partition

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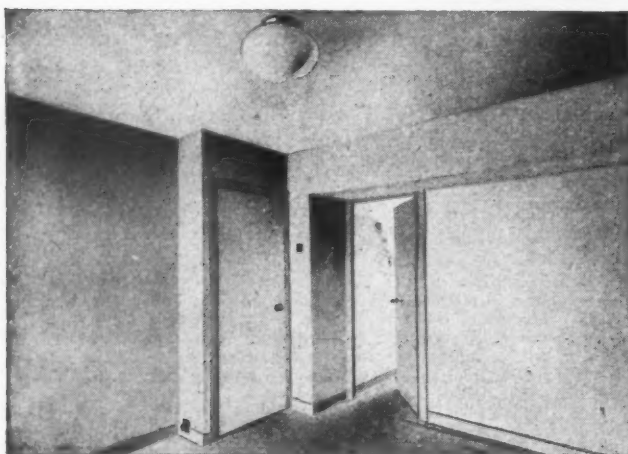
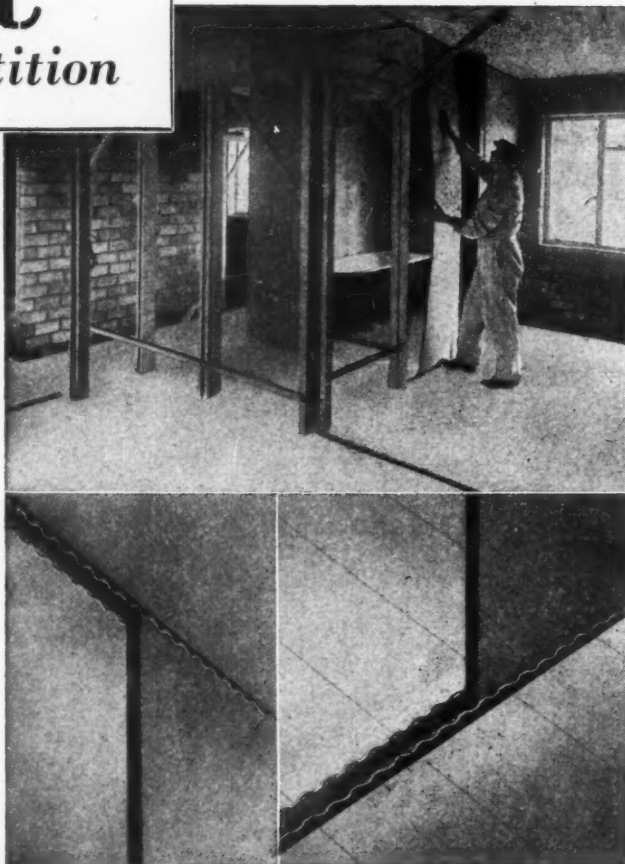
1 No timber is used for the construction of the actual partition. The metal looped box channel ceiling and floor grounds are laid out to correspond with the line of the partitions. The GYPROC planks are easily fixed between these grounds and securely fixed with vertical joint clips.

2 Detail at ceiling, showing looped box channel.

3 Detail at floor, showing looped box channel.

4 View of finished partitions.

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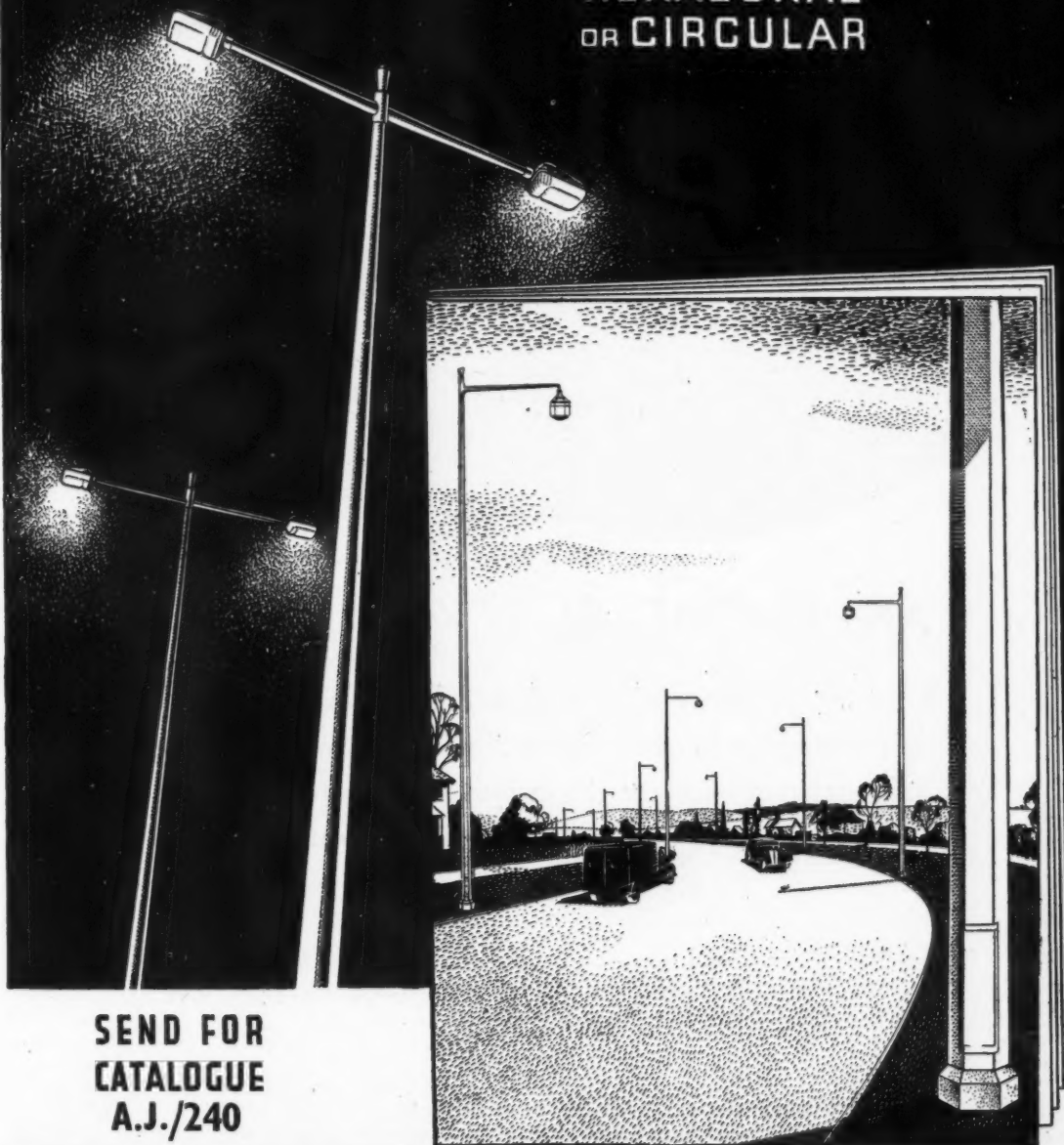
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LONDON LANDMARKS FROM THE AIR



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



## DIARY FOR JANUARY FEBRUARY AND MARCH

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.

**BIRMINGHAM.** *Architects' Dance.* At the Botanical Gardens. (Sponsor, Birmingham and Five Counties Architectural Association.) 8 p.m.-1 a.m. FEB. 3

**LONDON.** *Exhibition of Soviet Architecture.* At the RIBA, 66, Portland Place, W.1. (Sponsor, the Society for Cultural Relations with the USSR.) MAR. 3

*NFTBE Annual General Meeting.* At the Liverpool Victoria Building, Southampton Row, W.C.1. (Sponsor, NFTBE.) 10.30 a.m. JAN. 29

Edward Newnham. *The Internal Planning of the Home.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) Buffet lunch, 12.45-1.15. Lecture, 1.15 p.m. JAN. 29

Exhibition. *Publicity Parade.* At Gas Industry House, 1, Grosvenor Place, S.W.1. (Sponsor, BGC.) UNTIL JAN. 31

Arthur Capewell. *Practical Aspects of the Town and Country Planning Act, 1947.* At the Institution of Civil Engineers, Great George Street, S.W.1. (Sponsor, RICS.) 5.30 p.m. FEB. 2

H. C. Goddard. *Effect of Services on Planning and Design.* At the RIBA, 66, Portland Place, W.1. (Sponsor, ASB.) 6 p.m. FEB. 3

Miss D. M. Elliott. *National Institute of House Workers.* At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch, 12.45 p.m.-1.15 p.m., 2s. 6d. Talk, 1.15 p.m.-2.15 p.m. FEB. 3

Dr. F. H. Gravely. *The Temple Architecture of the Tamil Country.* At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, the Courtauld Institute.) 5.30 p.m. FEB. 3

W. Tatton-Brown. *Planning Developments Abroad—France.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. FEB. 4

F. D. Silvester. *Wood Construction.* At the Hammersmith School of Building. (Sponsor, TDA.) 8 p.m. FEB. 4

*Exhibition of West Indian Scenes and Building.* At the RIBA, 66 Portland Place, W.1. (Sponsor, RIBA.) UNTIL FEB. 7

*RIBA. Presentation of Medals and Prizes.* Professor Lionel B. Budden. *Address to Students.* At 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. FEB. 10

MOH Exhibition. *Housing Design and Layout.* Much of the material displayed at

the Building Trades Exhibition at Olympia by MOH will be on view, including the plan for high density development. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, MOH.) UNTIL FEB. 14

*Exhibition of Art, Chiefly from the Dominions of India and Pakistan.* At the Royal Academy Galleries, Piccadilly. An exhibition of sculpture, painting, textiles, jewellery, furniture. 10-7. Sundays 2-7. Admission 1s. 6d. UNTIL FEB. 29

*Building Contractors' Plant. The Problems Associated with Its Use.* A course of lecture discussions. Feb. 4, W. Barker, *The Plant Manager's View* (i). Feb. 11, A. G. Raven, *The General Foreman's View* (i). Feb. 18, Howard V. Lobb, *The Architect's View*. Feb. 25, Norman E. Wates, *The Contractor's View* (ii). March 3, H. E. Hodgson, *The Plant Manager's View* (ii). March 10, A. G. Buck, *The General Foreman's View* (ii). At the LCC Brixton School of Building, Ferndale Road, S.W.4. 7.0 p.m. Wednesday evenings. UNTIL MAR. 10

**MANCHESTER.** P. O. Reece. *Timber as an Engineering Material.* At the Institution of Constructional Engineers. (Sponsor, TDA.) 7 p.m. FEB. 13

**OXFORD.** R. T. Walters. *Recent Developments in the Design of Timber Structures.* Oxfordshire Society of Architects. (Sponsor, TDA.) 7 p.m. FEB. 12

### COMPETITIONS

*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.

*Royal National Eisteddfod of Wales Architectural Competitions, 1948.* Competition 192 for a county college. Competition 193 for a neighbourhood unit layout. Assessors: C. F. Bates and T. Alwyn Lloyd. Premiums: £50 in each case. Conditions and entry forms from Rev. W. J. Samuel, General Secretary, 38, Dunraven Place, Bridgend. Entries to be submitted between June 5 and 14. JUNE 5-14

## NEWS

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31.C1 Gas Cooker :  
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*Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.*

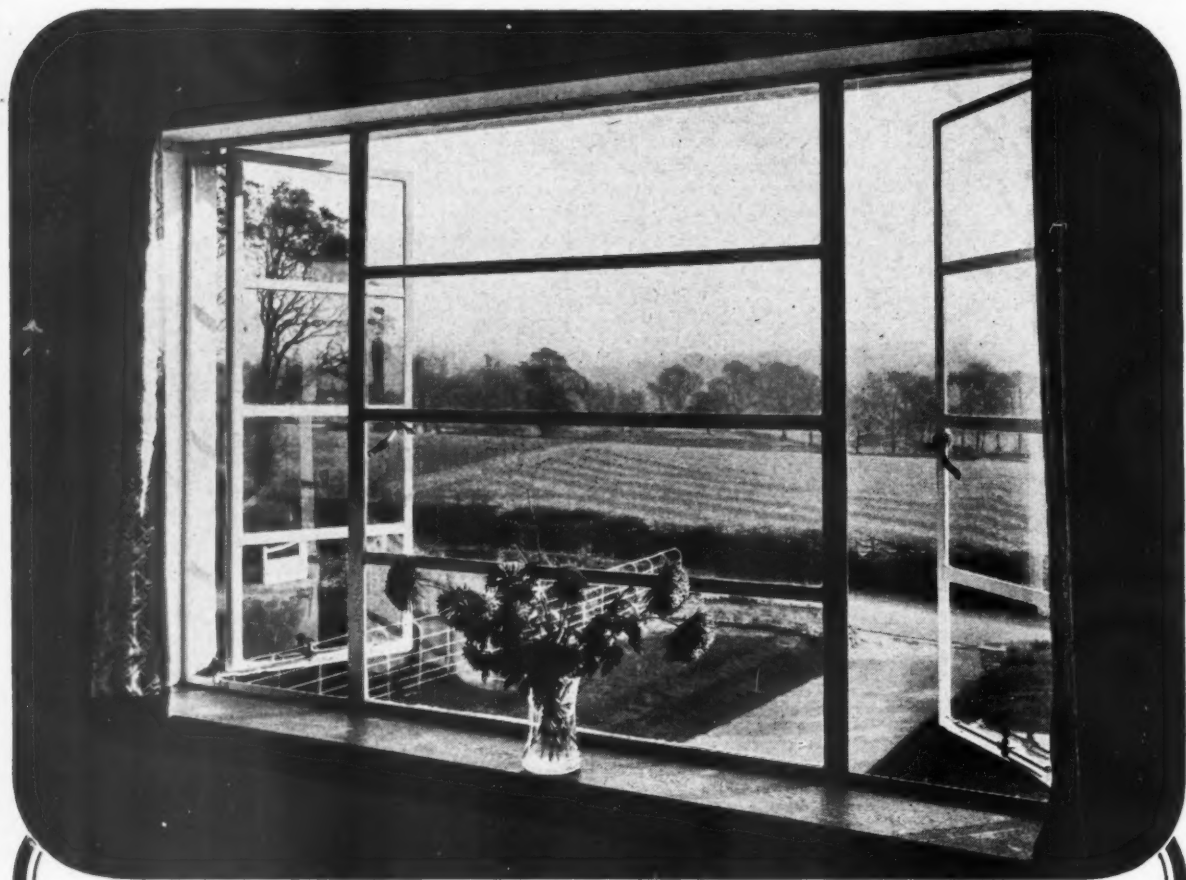
★ means spare a second for this, it will probably be worth it.

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

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

### The Organising Committee for the XIV OLYMPIAD which is to be held in London this year are arranging an ART COMPETITION AND EXHIBITION.

The competition includes architectural designs and town planning, but entries will be limited to designs for sports grounds and to buildings intended for use in connection with sport only. Entries should preferably be in the form of models, but drawings and photographs may also be submitted. All works must be sent in by May, 1948, in order that the British exhibits may be selected for the International Competition in June. The National Architecture Committee consists of Sir Percy Thomas, O.B.E., Chairman, R. H. Mathews and Professor Holford. The representatives on the International Committee are Jan Wils of Holland, Howard Crane of USA and Sir Percy Thomas. The exhibition will be held at the Victoria and Albert Museum.



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## From AN ARCHITECT'S Commonplace Book

THE EVERY DAY ART [From *Architecture: an Art for all Men*, by Talbot Hamlin (Columbia University Press.) (Oxford University Press, London. Geoffrey Cumberlege).] Architecture, then, is an art, and any art must give us pleasure, or else it is bad art, or we are abnormally blind. To architecture as an art and the joy it brings we are in general too callous. It is the constant proximity of architecture during our entire conscious existence that has blinded us in this way. We forget that it is an art of here and now, because it is with us every day, and because we have to have houses to live in we are too apt to think of them solely as abiding places. Therefore we think of architecture as some vague, learned thing dealing with French cathedrals or Italian palaces or Greek temples . . . and this fallacious doctrine has strengthened in us until our eyes are dulled and our minds are atrophied to all the beauty that is being created around us today, and we lose all the fine deep pleasure that we might otherwise experience from our ordinary surroundings.

**A MEMORIAL to 54 members and staff of the Junior Carlton Club who died on active service during the war was unveiled at the club by Lord Exeter on January 20.**

The memorial consists of a tablet of statuary marble 6 ft. wide and 8 ft. high with the names of the fallen on Ashburton marble. There is a metal gilded statue of St. George about 18 in. high, and at the foot of the statue is a carved crest of Prince of Wales feathers surrounded by a wreath, also gilded. The figure of St. George was modelled by Mr. Hermon Cawthra, the marble work was carried out by J. Whitehead and Sons, Limited, and the architect was Mr. T. M. Wilson, of Sir Guy Dawber, R.A., Wilson and Fox, architects.

**The Minister of Health has refused to confirm the compulsory purchase order sought by the Corporation of London for a site for housing in the Bridgewater Square area.**

The scheme has been rejected because of the heavy expenditure of labour which would be incurred in the undertaking, particularly in connection with the site preparation, and because the scheme would not solve the City's rehousing problem. The scheme was to rehouse 955 persons in 275 flats on a site of four acres bounded by Golden Lane, Fann Street, and Barbican. The cost was estimated at about £1m.

★★

**A review of the TEMPORARY HOUSING PROGRAMME discloses that the estimated cost of providing 156,667 houses is now £215,905,000, compared with an estimate of £184,669,470 for 158,480 houses in October, 1945.**

The largest increase over the original estimate is for aluminium houses which accounts for £87,745,000 of the total cost. The figure of 156,667 houses represents the number now allocated to local authorities and is regarded as final. The number completed in 1945 was 9,376, and in 1946 a further 86,134 made a total completed of 95,510. This number rose to 139,106 by the end of 1947. At the present rate of deliveries the last aluminium house should be available for occupation by May, 1948, and work on the other types should be practically finished during January in England and Wales and in the summer in Scotland.

The net increase in the cost of the alu-

minium house over the 1945 estimate is £245, the latest estimate being £1,610 a house. The major portion of this increase is attributed to an under-estimate of the cost of materials and fittings, and to setbacks which lead to the peak production being reached later than had been anticipated with a consequent rise in overhead charges. The average increase of £270 in the cost of a house due to these factors was offset in part by transport costs, which proved substantially lower than estimated.

In a detailed comparison of the estimates of October, 1945, and December, 1947, for the other types of temporary houses, the estimates for the Arcon house show an increase of £124, for the Uni-Seco £111, the Tarran £139, the Spooner £87, and the Universal £83. The 1945 estimates were based on current prices, and no attempt was made to predict the future trend of price levels. An analysis of costs reveals an overall increase for site works and erection of all these types of £40, largely due to increases in wage rates and the prices of building materials. Distribution and transport account for the largest increase, amounting to £83 a house.

The original estimate was based on the assumptions that the temporary housing programme would be completed by the end of 1946, and that storage would be needed for stock representing not more than three weeks' supply. Both these assumptions proved erroneous. Local authorities were not able to acquire and develop sites in time, and unbalanced production of component parts up to the autumn of 1946 brought about an accumulation of stocks which had to be stored. This necessitated taking over a number of airfields and add-

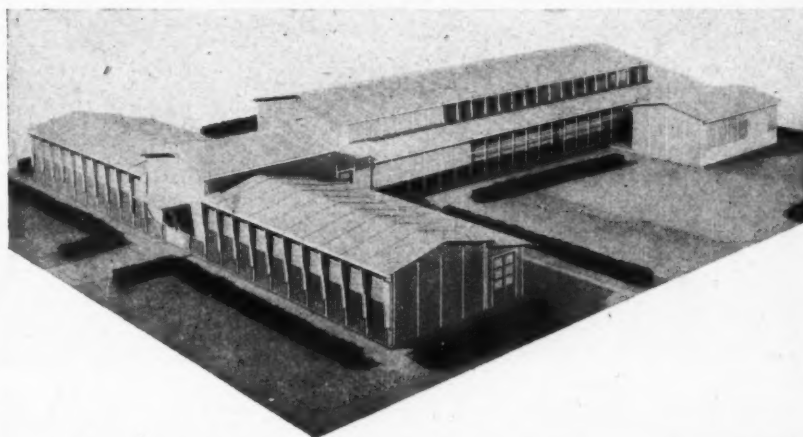
ing 1m. ft. of covered storage to the 1,700,000 ft. provided. There were also increases in the wage rates of the men employed at the distribution centres.

**The Imperial Chemical Industries Limited have invented a NEW DYE.**

Called Alcian Blue, the dye will colour material a bright turquoise blue which will not fade through washing or sunlight. The dye is one of the exhibits shown at the Colour, Design and Style Centre of the Cotton Board in Manchester.

**The Cementation Company, Limited, of Bentley, Doncaster, has received a contract from Manchester City Corporation to build a 10-MILE TUNNEL forming part of an aqueduct from the Lake District to Manchester.**

It will take six years to complete, and the cost is estimated at between £2m. and £3m. The tunnel will be built under Bowland Forest and form part of the Haweswater aqueduct, which was started before the war. It is expected that the whole 70-mile water system will carry eventually 18m. gallons of extra water a day to Manchester.



A unit-built aluminium school, a model of which is shown above, has been produced by the Bristol Aeroplane Company (Housing) Ltd. An exhibition showing the method of construction, sample wall units, roof trusses and all details can be seen at the Central Hall Westminster, until the end of the week. The attempt has been made to produce maximum flexibility of design and planning with an economical number of unit-types.





### *The New House of Commons*

The model of the new House of Commons is now available for inspection by M.P.s. Mr. C. J. Greenaway, the Superintendent of Works to the House of Commons, is seen in the picture arranging the Speaker's Chair. The building is expected to reach completion early in 1950. The steel skeleton is already erected. It is the only work of monumental architecture now in progress in the United Kingdom

and will cost nearly £1½ million. Sir Giles Gilbert Scott, O.M., R.A., is the architect in association with his brother Adrian Gilbert Scott. The style of the new Chamber is a modification of the neo-Gothic manner that has become traditional to the Palace of Westminster. A sound amplification system is to be installed and a new system of heating and ventilation to ensure "warm feet and cool heads."



### *The RIBA GOLFING SOCIETY has been revived.*

Arrangements are being made for the holding of four meetings during the coming year at venues within reasonable rail access of the centre of London, as well as fixtures with other societies. The annual subscription is 10s., and the following officers have been elected for 1948:—*President:* Sir Giles Gilbert Scott, R.A. (P.P.). *Committee:* Captain John Grey (F), Messrs. W. R. F. Fisher (F), H. St. John Harrison (F). *Hon. Treasurer:* R. B. Selby (F), 19, Berkeley Street, W.1. *Hon. Secretary:* E. H. Firmin (A), 111, Park Street, W.1.

### *The Council of Industrial Design has arranged three DESIGN WEEKS to be held in 1948.*

The CID, in co-operation with the FBI, the Association of Chambers of Commerce, and with the full support of the Civic Authorities, has planned Design Weeks to be held in Cardiff from April 12-17, in Manchester from June 21-26, and in Birmingham from October 11-16. The programmes will vary according to the character of the industrial region in which it is being held. One feature will be a series of open forums for architectural associations.

★★★

### *THE KING, on the recommendation of the RIBA, has awarded the ROYAL GOLD MEDAL for 1948 to M. AUGUSTE PERRET.*

Born in 1874, the son of a builder, M. Perret studied for four years at the Beaux Arts in Paris. His first well-known building, an apartment house in Rue Franklin, Paris, built in 1903, established his reputation as an architect-engineer with the first use of an exposed reinforced concrete frame. An early exponent of flexible planning and precision in reinforced concrete construction, M. Perret is one of the forerunners of contemporary design. His buildings include a garage in the rue de Ponthieu, the Champs Elysées Theatre, the docks at Casablanca, and the churches at Le Raincy and elsewhere which exerted such influence upon contemporary church building. On April 6 M. Perret will come to London to receive the Royal Gold Medal from Sir Launcelot Keay, President of the RIBA.



*Awarded the Royal Gold Medal: M. Auguste Perret. See news item.*

## CENTRAL AREAS

ON the wider boundaries of town and country planning, MOTCP is forced in the days of its youth to go gently; for example, in those regional fields where physical planners have still to make their case to the economic planners and geographers, sociologists and population experts, the Ministry has to point out how labyrinthine are the problems and slender their knowledge.

But in the narrowed fields that are unquestionably MOTCP's own, the way ahead is clearer, and the need is for competence and vigour; moreover, its uninspired handling of New Towns has increased this need. In a handbook\* just published, the Ministry provides a tonic for its many would-be friends and a shake-up for town planners everywhere. It has tackled the oldest and toughest town planning problem with determination and courage.

The significance of this handbook should be stressed. Before it appeared, the technical officers of MOTCP—and, indeed, all town planners—were in a tight place. The Government had said to them in effect "Well, now, before the war you said you could do nothing because of the lack of this and that in the way of planning powers and finance. Here are the powers and here (subject to the Treasury's little ways) is the money. And now . . . what?" That was the challenge the technical officers of MOTCP have taken up. They had to fulfil all the platitudes: to be responsible, convincing, lucid, if necessary bold and brief, to concentrate on the main points and show what worthwhile improvements could be obtained by what sensible stages. It is our opinion that they have largely succeeded.

*Central Areas* contains no padding, no jargon and no flourishes. It begins with a description of the main stages in the growth of the average British town, and this is followed by discussion of how much accommodation will be needed for each use and how it should be distributed, by consideration of the layout of main streets, detailed layout and programming. The gentle introduction and carefully-simple White Paper prose do not long conceal that a quite new doctrine is being preached. The measurement of all floor-space in a central area by uses in order to draw up an Accommodation Budget, and the distribution of proposed floor-space in the way best calculated to meet all planning requirements, are two central and revolutionary proposals, at once realistic and positive. Parallel to the density control proposals—since it is also concerned with building bulk—is the Daylight Code. One presumes that the Code is something between a given recommendation and a courageous piece of kite-flying, and its publication in this manner is probably, at the moment, the best way to prepare for a big improvement in daylighting control. The Code proposes, in brief, the removal of height, coverage and setback and other controls that impose a "rigid envelope" on a building and the substitution of a flexible

\* The Ministry of Town and Country Planning. *The Redevelopment of Central Areas*. HMSO 12s. 6d.

control, which will permit considerable variations in the block form of a building on a given site.

The handbook is bound to come under heavy fire. Before the war the absence of power to carry out a plan tempted planners to put forward redevelopment proposals which were more flattering to civic pride than closely related to probable needs and easy stage-by-stage execution, and post-war reconstruction plans have tended to be of the same kind. Power is sobering and MOTCP now realises that planners have power and must show themselves responsible. *Central Areas* is, therefore, realistic in what it advocates, firm as to methods, and slightly statistical in its explanations. All three qualities are likely to have their detractors. Moreover, when 150 odd planning authorities get to work and 1,001 practical problems are faced in different central areas, defects in the handbook's recommendations are bound to be discovered. But MOTCP need not worry much on either count. *Central Areas* is an advisory handbook and in all the big things it has got hold of the right end of the stick.



*The Architects' Journal*

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

Phone: Whitehall 0611

N O T E S

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T O P I C S

#### TUBBS' THUMPING SUCCESS

Ralph Tubbs, this year's critic of the RIBA Prizes and Studentships, opened his address with what he called disarmingly "a departure from precedent."

\*

The greater part of the work submitted, he said, sharpening his dagger,

is either commonplace or dead, and the blame—here he gave his weapon a twist—lies not with the Institute but with the competitors, and even more with those who were not competitors but should have been.

\*

This was well said, and though Mr. Tubbs later softened his blow with a heavy pad of philosophical wadding, nobody could say that his attack was not well aimed and very well deserved. The RIBA prizewinners should be the best students in the country. This is not the case today, and it is many years since it has been so. Plenty of excuses have been put forward for the lack of interest in official prizes of this kind. It is true that the lack of a sound and vigorous contemporary architecture is discouraging, that some of the programmes lack reality (though this is being remedied), that the educational set-up, so far as architects are concerned, is uncertain and confused. But the main reason, I think, is distrust of official institutions and fear of being associated with "the old men" and "reactionary ideas." This distrust is, naturally enough, endemic in youth and affects even adults sometimes, and it will take more than Mr. Tubbs' goading, I fear, to persuade young architects that the way to enliven institutions like the RIBA—or the RA—is not to moan about their lifelessness, nor to refuse to join them, but to put some personal effort into supporting their activities.

May Astragal suggest one change in procedure that might stimulate students to greater interest: that the name of the critic should be announced before the year's competitions start?

#### GENERAL POST AMONG PLANNERS

Our planners are on the move again. Maxwell Fry (back from Venezuela) has left for the Gold Coast, and in three weeks' time he will meet his partner, Jane Drew, in Nigeria to view the site for the new University they are to design at Ibadan and to discuss requirements with the educational authorities. Anthony Chitty is back from Milan and Venice and is toying with the possibilities of Belgrade, Grey Wornum is off to the West Indies, Thornton White has left London for Paris, Cairo, Madagascar and Mauritius, to return from there to South Africa, while Professor Holford, abrim with orange-juice, has flown in from Pretoria, where he has spent three weeks consulting with the local authorities over planning proposals for the city centre. He tells me he is much impressed with the possibilities of the Union capital, which, within a lifetime, has grown from a hot little tin-roofed dorp into a city with 150,000 inhabitants, 300 square miles, and not a single zoning control.

\*

He has returned in time to support Sir Walter Monckton and the City of London engineer at the first public enquiry, which opened this week to hear the numerous objections against the declaratory area outlined in his City plan.

#### MAKING THE MALTESE CROSS

Other planning objections are reported from Malta, where Mr. Minto—the architect Minister of Works to the newly-constituted Government of Malta—recently announced that the fine Hubbard-Harrison plan, originally sponsored by the Colonial Office, is now to be regarded as "obsolete." This decision has been looked on in some quarters merely as an exuberant display of the island's new independence, but a more likely reason is our unfortunate architectural record in that island.

\*

For the best part of a century Malta has been a part of our Empire.

and to-day it bears almost as many scars from British vandalism as it does from German bombs. A new architectural columnist, who writes in *The Tribune* under the name of John Wren—how admirable, by the way, that at last a weekly paper considers architecture a worthy subject for regular comment—reminds us that many of the splendid Baroque buildings in Malta have for years been at the mercy of well-meaning garrison engineers, who have ripped out staircases, defaced coats of arms, and replaced stone by concrete without even recording details of the architectural features they have destroyed. Nobody could object to war-time safeguards carried out in urgency, but had we taken in the past more care of the ancient buildings in our trust, our ideas for the future might have been treated with less suspicion.

#### A NEW WESTMINSTER PLAN

It is bad luck for the Westminster City Council that the plan prepared for them by their City Engineer in consultation with W. R. Davidge should appear this week, just after the publication of MOTCP's handbook on how to set about replanning central areas, with its emphasis on use-surveys of accommodation and on the necessity of thinking in three-dimensions. The handbook's masterly exposition of the basis of urban planning makes the Westminster effort look distinctly pre-war; its approach is a two-dimensional one (in contrast, also, with *The Architectural Review's* Westminster Precinct plan) and puts the planner primarily in the position of a traffic engineer.

The Westminster Plan claims that its purpose is to offer Westminster's comments on the Abercrombie-Forshaw County of London Plan, but some of its proposals (such as its new road through Pimlico) run contrary to it, others (like the proposal to run a motor-road down the Duke of York's steps) represent radical departures from it, and still others (like the replanning suggested for Parliament Square) strike at least one reader as progress in exactly the wrong direction.

#### LETHABY: A LOSS AND A GAIN

It was with something of a shock that I learned that the volume entitled *Architecture*, by W. R. Lethaby, in the Home University Library, has been withdrawn and another with the same title substituted. Lethaby is at last beginning to receive some of the credit which is his due, and certainly his book is a classic statement of the architect's view of his art. The substitution is all the more regrettable as even the BBC has noticed the existence of Lethaby's work as an architect. For listeners who heard Brandon Jones's talk on the Third Programme, the picture on this page shows Melsetter House, by Lethaby, to which he referred.

Incidentally, the dawning interest in architecture on the part of the BBC indicated by some recent broadcasts is very welcome. Even Television has been used to present what is essentially a visual art. There is still, however, plenty of room for more radio time on architecture and architects.

ASTRAGAL.



Melsetter House in the Orkneys, built by W. R. Lethaby in 1898. See Astragal.

## LETTERS

C. W. Gibson

Georg Treuland

W. H. Scanlan

### Sir Charles Reilly and LCC Housing

SIR.—Professor Sir Charles Reilly's annual article in the *Architects' Journal* has become an institution. The "Schoolmaster," as Sir Charles calls himself, must have outlets for praise and prejudice and, whatever place we occupy in the class, we enjoy his comment—even if some of it is not meant to be taken seriously.

I say this because in this year's article, appearing in the *Journal* for January 15, he declares: "One cannot criticise . . . fairly without much more knowledge." That fairness is denied to the LCC's Director of Housing and Valuer. He alone is chosen for acrimony (D— in the Schoolmaster's vocabulary; all the others in the class are given A or A+); but the choice is quite unfair. For the Professor has his facts all wrong. The "long cliffs of artificial stone" of which he complains were designed before Mr. Walker became Director. They were, in fact, designed under the direction of the then Architect to the LCC, of whose "power for good" the Professor so rightly speaks elsewhere in his article. Only the improvements of which Sir Charles speaks (heated drying rooms and children's play rooms), though "obvious," have been incorporated in the design since Mr. Walker assumed responsibility.

Equally awry are Professor Reilly's other comments; for not only does the scheme of development at Minerva Estate provide for a separate community centre building, but the covered rooms adjoining the children's roof play spaces will be, indeed have been, used in the interim for community purposes.

Lastly, I fear that Sir Charles is equally misinformed about the LCC's methods of rent collection.

C. W. GIBSON

Chairman, LCC Housing Committee  
London

### Correspondent Wanted

SIR.—Because I study architecture I wish to know if it is possible to get any journals with illustrations about art and architecture. In the Germany of today it is impossible to get material for study. I would like, if possible, to correspond with some young man about art and architecture.

GEORG TREULAND.

Amern-Dilkraht, Genend 25, Bez. Düsseldorf, Nord-Rheinprovinz, Britische Zone, Germany.

### The Nation Needs Architects

SIR.—Many experienced members of the architectural profession view with deep concern the position of the private architect in the light of limitations imposed upon new building and the effect which statutory enactments have on general development.

Should present conditions persist for another two or three years many of our private architects may be compelled to close



their offices—the reduction of staff is already proceeding.

From a national standpoint the state of affairs may well be calamitous when a general resumption of building becomes possible, as the services of the private architect will be an essential element in the successful accomplishment of planning and development schemes.

If, at that time, it is found that a high proportion of architectural offices have disappeared under the stress of present conditions or are seriously understaffed, these schemes will be delayed to the grave detriment of our national recovery.

It is imperative that steps be taken immediately to assist private architects over the present difficult period so as to maintain them and their offices in a state of efficiency against the day when their services will be required.

The need for action is, perhaps, the most urgent in the case of younger architects who had qualified immediately prior to the war and whose practices, as a result of service with the Forces, are in ruins. These are the men whose creative genius will ultimately be needed in the rebuilding and development of our country. In some way their training and experience must be consolidated so that their services are available when required.

Again, there are thousands of students, many ex-Servicemen, in receipt of Government grants, who will, within the next few years, be seeking posts as Assistants to obtain the practical training which is so vital to the profession.

It would be unfortunate should they find that service in a Government department or local authority offers the only channel of employment—with all the limitations that implies. Experience in the office of a private practitioner, where there is a closer relationship with the principles and the work, is essential.

This letter is prompted by a desire to further the general interests of the profession as a whole. A solution must be found now.

It may lie in a close co-operation between the private architect and the official architectural department, but, whatever steps are taken, it is important that everything possible should be done to keep alive the inspiration which the private architect brings to the life of the profession.

W. H. SCANLAN, President,  
Institute of Registered Architects.  
London.

## The Outlook for New Building Work other than Housing

[By Ian Bowen]

Housing activity naturally attracts most of the Parliamentary limelight; but from many points of view the reduction in other building activity is of even greater immediate consequence. There can be few industries, or interests, that are not affected by the changes in programme announced in the White Paper on *Capital Investment in 1948*.

Apart from the many industries with schemes of expansion that must now be slowed down or pigeon-holed, there are the indirect effects of a reduced expenditure on such common services as road and telephone services. It is, indeed, quite extraordinary how calmly the news has been received that the telephone "waiting list," at present 400,000, will steadily grow, and that 20,000 men (about one-quarter of the present total) engaged on road repairs will be released. That these policies, with their unpleasant repercussions on both the business and domestic life of the country, should not have aroused more immediate vocal opposition is perhaps due more to the fact that their ill-effects will be dispersed than to any great apprehension of the world crisis by telephone- and road-users.

### THE FACTORY PROGRAMME

The Government, in addition to announcing cuts, has been publishing more information about programmes, particularly in the form of tables incorporated in the Monthly Digest of Statistics.

Table 79 of the November issue, for instance, gave figures of the value of licences issued by the Ministry of Works (each quarter from the beginning of 1945) classified under several headings. The largest item for this period was for "factories, etc.," a term which included factories, industrial and commercial premises, warehouses and storage depôts, and which also included licensed repairs as well as new work. From January, 1945, to September, 1947, the total value of work licensed under this heading was no less than £161 millions. This works out, at the average rate for 21 months, as enough work to keep over 120,000 men continuously in employment.

The rate of licensing such new work was very rapidly on the increase up to the end of June, 1947 (a month in which the almost fantastic total of £23 millions was so licensed—the June quarter averaging over £15 millions a month). Moreover, the increasing rate of *intended* building is perhaps suggested even more strongly by the figures given in another table, which gives the value of new factory buildings approved by Panel A of the Board of Trade. These (over the same period—January, 1945, to September, 1947) already amounted to £186 millions, and it is difficult to reconcile them with the totals for licences except on the assumption that Panel A approvals ran ahead of licensing. The Panel's figures, therefore, gave a foretaste of the even bigger programmes to come.

But the whole position has now been changed as a result of the economic crisis. New factories and extensions under the aegis of either the Board of Trade, the Ministry of Supply, or the Ministry of Food were employing some 116,500 builders and civil engineers in June, 1947. It is now intended to reduce that figure to 106,000.

A cut of a little under 10 per cent, does not on the face of it seem so disastrous. But the cut must be considered against the background of the *intended expansion* on this type of development. A six months' holiday period for new industrial buildings and extensions was to be started—and presumably now has been started—and it must, on the above figures, mean a severe curtailment of building plans.

### THE NEW TOWNS

The Government programme distinguishes two types of New Towns. The first type, which so far includes Stevenage, Crawley, Hemel Hempstead and Harlow, consists of towns which are intended to take industry and population from overcrowded large cities "as an alternative to their continuous unplanned expansion." Only preparatory work on these towns is to proceed in 1948

—i.e., work on the provision of water, sewerage, and road and rail transport. This is to enable houses and factories to begin in 1949.

The second type of New Towns, of which Aycliffe, Easington and East Kilbride are examples, are intended to provide for immediate industrial needs (or for mining areas). These are to proceed "within the limits of the housing programme."

As the Capital Investment White Paper points out, in any case, even on the first type of New Towns, very little labour could have been usefully employed in 1948.

Thus the sum total of the reduction in planned activity on New Towns is not very much. It is not even summarised in a figure. On this particular front there is no retreat from long-term planning, nor has even the timing of the programme been seriously changed.

### EDUCATION

Indeed, it becomes clear as one studies the new Government programme item by item, that many programmes are not so much cut as reduced to rather more practicable proportions. In the case of Education, for instance, the labour employed at June, 1947, in Great Britain amounted to 16,071; by June, 1948, is to have a ceiling of 23,400. This may represent a "cut" on some previous more ambitious figure, and, in fact, many universities and schools will have to go slow on the recruitment of their labour forces. But they could not *all* have gone fast simultaneously in any event.

From the architect's point of view the deferment of several whole categories of schemes is more important. Major proposals for community centres, adult education centres and youth clubs have been postponed. On the other hand, in view of the "pressing need" for additional facilities for technical education, a programme, to cover essential requirements up to the end of 1951, is being worked out. As it is not always easy to distinguish adult education of certain kinds from technical education, the publication of this programme must be awaited with interest.

Education may one day become for Britain an important invisible export. At a time when the paper shortage is gravely hampering the export of British publications—and even their production for the home market—it is the more welcome that, despite the economic storm, the Government is willing to see an expansion of 40 per cent. (in 1948 compared with 1947) in building activity for educational purposes. This should prove to be a sound investment. There are limits, however, to the spoken word, and some day drastic action to secure paper for educational books will have to be taken. Buildings alone do not produce scholars.

### FUTURE PROSPECTS

Housing is apparently threatened in the new investment plan, although there has been some political double-talk on this item which leaves the position slightly obscure. Factories and industrial buildings have suffered a quite definite reduction. The Post Office and roads have suffered.

But the rest of the programme—the New Towns, Education and the Health Services—show only a token reduction against any realistic estimate for 1948. The current year must therefore be reckoned as one of exceptionally high activity in these directions. Strings attached to the Marshall plan, a further rise in the price of imported materials or a collapse of our export markets are all hazards which may upset the present intentions of the Government. Meanwhile, there is hay to be made while the sun still shines on a part of the field.



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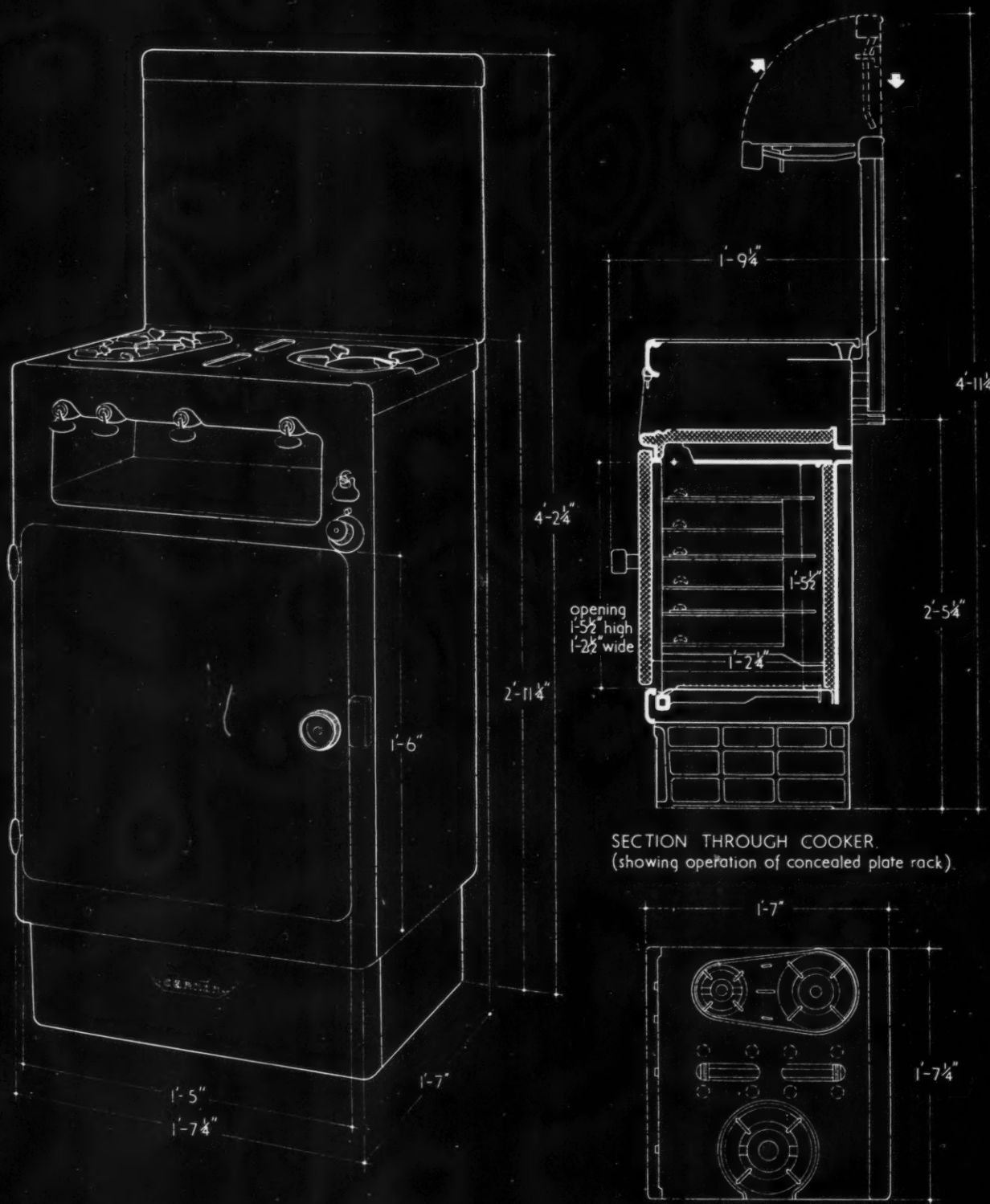
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PERSPECTIVE SKETCH OF COOKER

PLAN OF HOT-PLATE

### 31.C1 GAS COOKER: No. K.509

This Sheet describes the K.509 gas cooker. A perspective view illustrating the general appearance of the cooker, together with a section, and a plan of the hot-plate is given on the face of this Sheet. Apart from the lighter connection—which is removable—the cooker is free from projections on the sides and can therefore be built in to a kitchen unit.

#### Construction

**Concealed plate rack :** This is of mild steel and folds away into two vertical light-alloy channels which are non-rusting and provide an easy movement.

**Hot-plate :** The surround is made of cast iron covered with a light-coloured acid-resisting vitreous enamel. In normal use the surround does not reach a temperature high enough to carbonise spilled particles of food and is therefore easily cleaned. It is a single casting with two inserts (one round, the other pear shaped) as shown on the plan view on the face of this Sheet. The surround is removable for cleaning of the underside. There are three boiling burners ; large high-speed, medium and simmering. Each is enamelled with high acid-resisting black vitreous enamel. The griller burner is vitreous enamelled and is fitted with heat-resisting steel frets.

**Oven :** The side-linings are of acid-resisting vitreous enamel on cast iron with embossed shelf positions. The burners are fitted at the sides.

**Plinth :** The sides are cast, and the front of sheet steel. The front is removable for cleaning or to enable the space below the oven to be used for storage.

#### Fittings

**Tap controls :** These are of the drop-lever safety type and are chromium plated. Each is provided with a micro-jet adjustment by means of which the correct gas rate for each burner can be set ; the adjustment can then be locked.

**Thermostat :** This is front-reading and is of the bi-metal type (invar steel in drawn brass tube). It lies parallel to, and just above, the oven door opening.

**Lighter connection :** This is fitted to the left-hand side of the main body as standard to all cookers, but the projecting portion is easily removable.

#### Finish

The general finish of the cooker is green and cream acid resisting enamel: it can also be supplied finished in grey mottle acid resisting enamel. The plate rack has a dull chromium plate finish.

*Compiled from information supplied by :*

#### Cannon Iron Foundries, Ltd.

Head Office : Deepfields, Bilston, Staffs.

Telephone : Bilston 41241-5.

Telegrams : Cannon, Bilston.

London Office : 4, Park Lane, Piccadilly, W.1.

Telephone : Regent 4861.

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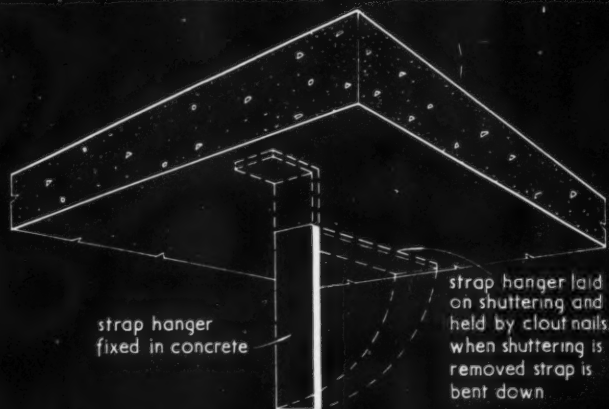
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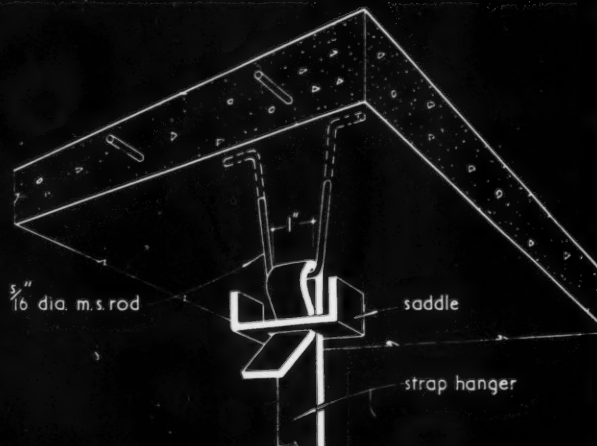








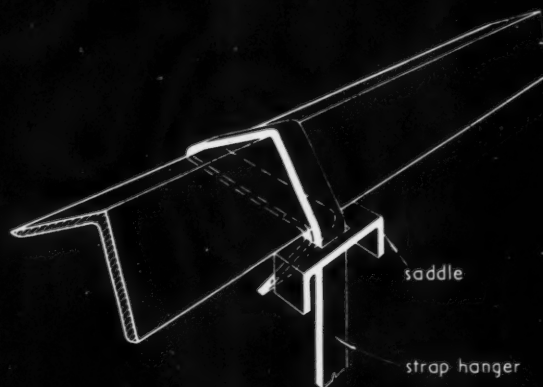
SUSPENSION FROM CONCRETE.



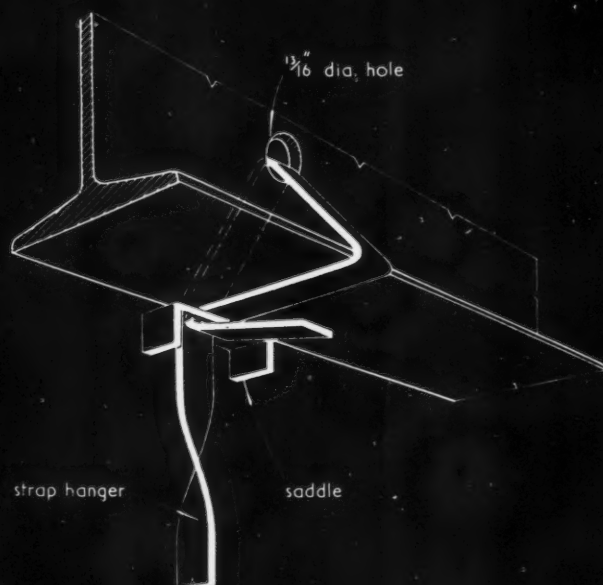
SUSPENSION FROM CONCRETE.



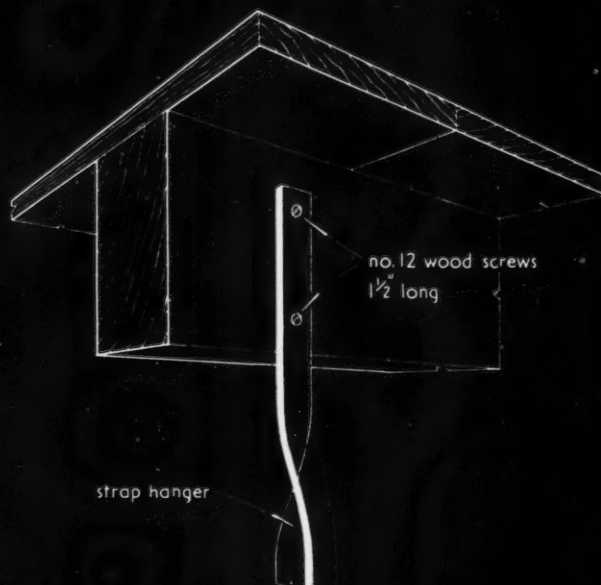
SUSPENSION FROM BOTTOM FLANGE OF R.S.J.



SUSPENSION FROM STEEL ROOF PURLIN.



SUSPENSION FROM R.S.J.



SUSPENSION FROM WOOD JOIST.

## 26.J3 METHODS OF SUSPENSION FOR ·GYPROC· SUSPENDED CEILING SYSTEMS

This Sheet summarises methods of attaching strap hangers suitable for suspension of ·Gyproc· suspended ceiling systems to structural floor or roof members. See Sheets 21.G1 ·Gypstele· Partitions, 22.F1 ·Plaxstele· Suspended Ceilings and 27.B9 ·Acoustele· Suspended Ceilings. Spacing of strap hangers for ·Acoustele· and ·Gypstele· Ceilings is at 5 ft. 6 in. by 5 ft. 6 in. centres and for ·Plaxstele· 3 ft. by 5 ft. The methods referred to below are illustrated on the face of this Sheet.

### Concrete

*Cast in situ* : The strap hanger is bent, as shown, laid on the shuttering and held by clout nails. When the shuttering is removed the strap hanger is bent down.

*Alternative suspension* : This is effected by casting a shaped mild steel rod into the slab with its lower end emerging from the lower surface of the concrete. The strap hanger is hooked over the rod and secured by a metal saddle.

### Steel

*Rolled steel joist* : The strap hanger is fixed by means of a metal clip shaped to suit the profile of the bottom flange and bolted to the top of the strap hanger.

Alternatively, the joist web is drilled and the strap hanger threaded through and secured on a corner of the lower flange of the R.S.J. by a metal saddle.

*Angle purlin* : The strap hanger is bent round the purlin and secured by a metal saddle.

### Timber

*Joist* : The strap hanger is holed and screwed to the side of the joist.

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, Jermyn Street, London,  
S.W.1.

Telephone : Whitehall 9821-5.

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

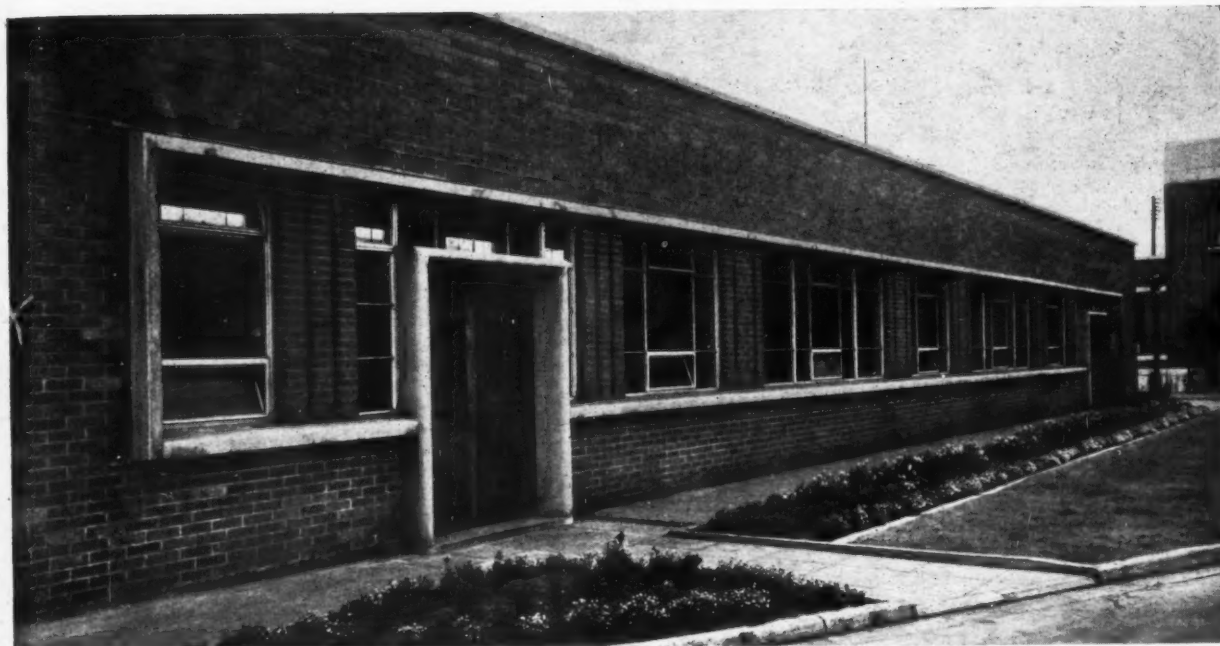
Telephone : Govan 614-6.

Telegrams : Gyproc, Glasgow.

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# CANTEEN FOR A CARDIFF FACTORY

DESIGNED BY CLIFFORD TEE AND GALE

**GENERAL.**—A canteen for work-people and office staff and a labour office and clocking station. The factory is that of Messrs. Guest, Keen and Nettlefold, Ltd.

**SITE.**—Triangular in shape and hemmed in by existing roads, buildings and railway lines. The usable area was only just sufficient to give the accommodation required, and, after tests, was cal-

culated to take a load of only 7 cwt. per sq. ft.

**PLAN.**—The dining rooms face on to an existing lawn. Between the workpeople's and staff's dining rooms a screen was provided at the request of the clients.

**CONSTRUCTION.**—There are reinforced-concrete barrel vaults over the dining rooms and the kitchen,

the thickness of the shell concrete being only 2½ in.; reinforced-concrete flats over the ancillary buildings; and 11-in. cavity brick walls, all on reinforced-concrete raft. The barrel vault roof is felted and internally, insulation board forms a permanent shutter.

## ELEVATIONAL TREATMENT.

—Cattybrook brick facings; with surrounds to windows and doors in rendered concrete, Cotswold stone dust being incorporated in the mix to give texture and colour. Windows are galvanized steel.

**INTERNAL FINISH.**— Dining room brickwork is unplastered, relieved by dove-tailed bricks and projecting headers; the screen between the two dining rooms is arranged with a removable lower section; and the flooring is wood block. The manager's dining room is plastered and has a wood block floor; the kitchen walls and floor are tiled; ceilings are insulation board distempered; and roof lighting is by circular dome lights.

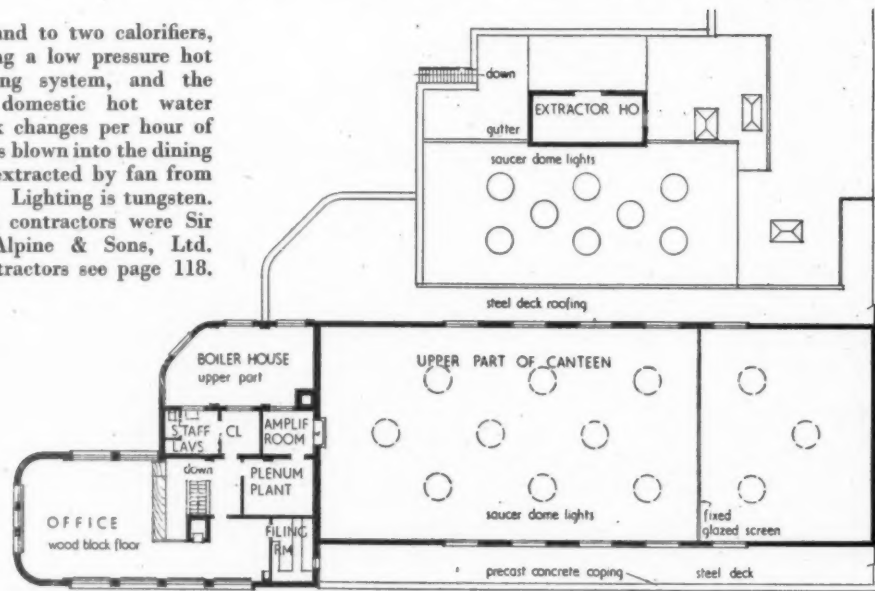
**SERVICES.**—Steam, generated in an automatic stoker fed boiler, is delivered direct to the cooking



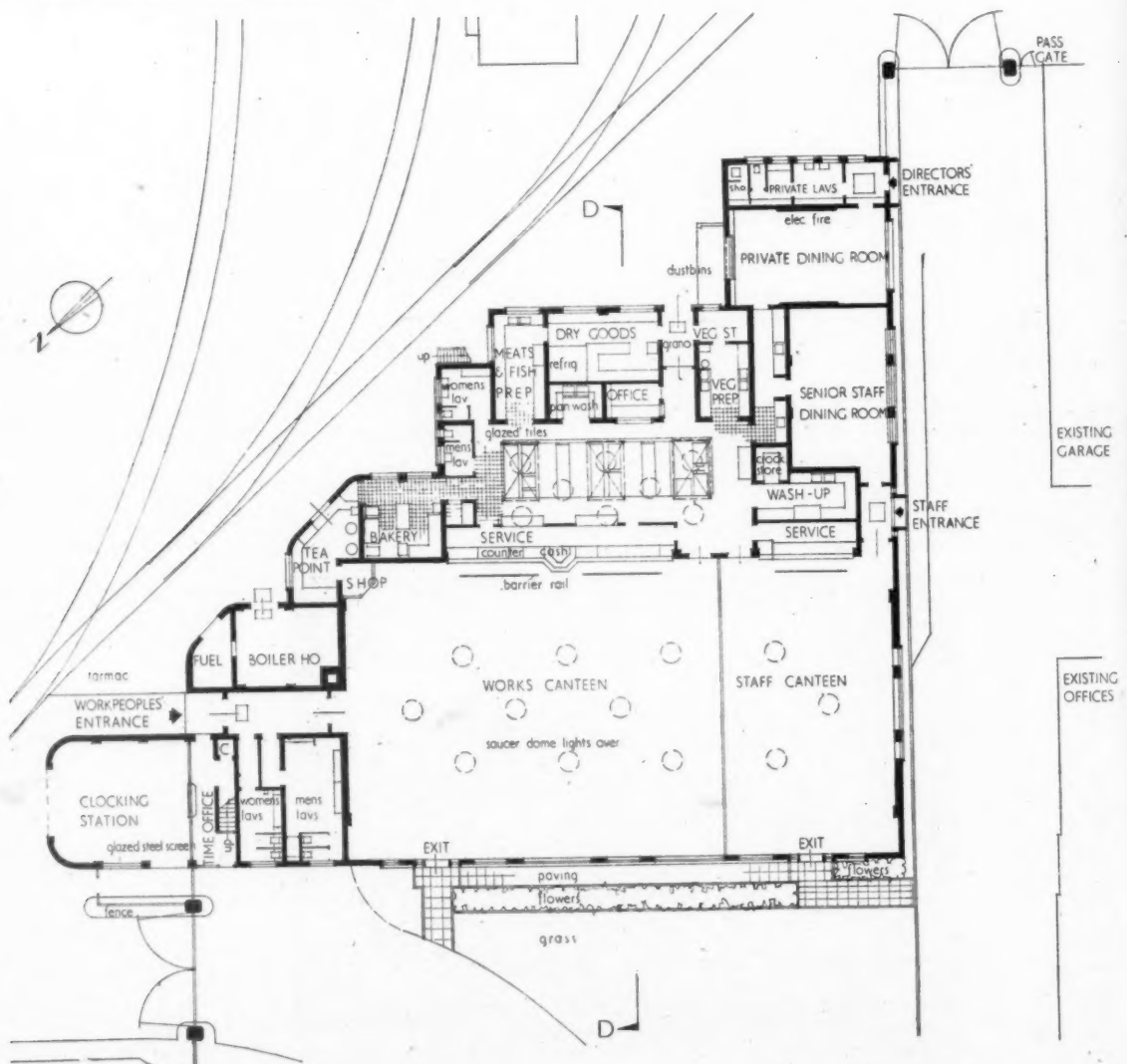
Top, west elevation. Bottom, the interior of the canteen.

## C A N T E E N F O R A C A R D I F F

equipment and to two calorifiers, one operating a low pressure hot water heating system, and the other the domestic hot water system. Six changes per hour of warmed air is blown into the dining rooms and extracted by fan from the kitchen. Lighting is tungsten. The general contractors were Sir Robert McAlpine & Sons, Ltd. For sub-contractors see page 118.



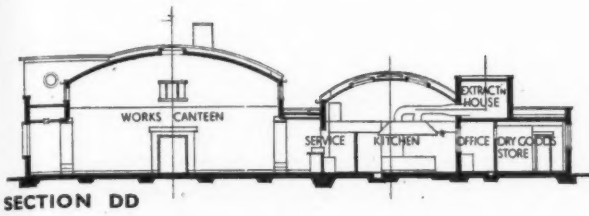
FIRST FLOOR AND ROOF PLAN



GROUND FLOOR PLAN

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

# F F A C T O R Y

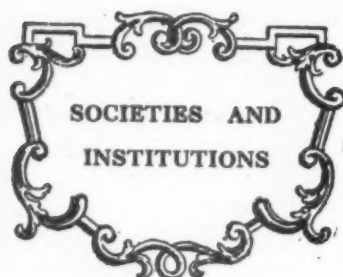


*Below, left, the kitchen, showing the dome lights in the barrel vault roof; right, south elevation; and directors' dining room (the furniture is temporary). Bottom, another view of the works canteen and barrel vault roof.*



DESIGNED BY CLIFFORD TEE AND GALE





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

## TCPA

### Robert Nott

January 7. At the Planning Centre, 28, King Street, W.C.2. PLANNING DEVELOPMENTS IN GERMANY. Sir Eric MacFadyen was in the chair.

**Robert Nott:** While a great deal of planning has been done in Germany, much of it imaginative and bold, it is unrealistic to talk of planning without saying something of the background, not only of those developments, but of all developments in Germany. That background is one of immense physical destruction and of political uncertainty.

Berlin is the most damaged of the cities, but it does not appear as badly damaged as towns like Essen and Dortmund, which, as they are much smaller, have received proportionately more damage. One-quarter of the whole of Berlin has been destroyed. The pre-war population was 4½ million, so that this represents the destruction of homes and working-places for over a million people. Virtually no new building has been started. In the British sector of Berlin, for example, total repairs was one-third of the lightly damaged houses, and those, owing to shortage of material, have been repaired very indifferently. In this sector 35 prefabricated houses have been built and 500 Nissen huts. This is a very small contribution to the replacement of over a quarter-million destroyed and damaged houses. Not only is there little rebuilding, but also very little clearance of debris. Even in streets as im-

portant as the Wilhelmstrasse and the Friedrichstrasse the streets and pavements have not been completely cleared, although it is possible to go down these streets in a car. The Hohestrassé of Cologne, the local Piccadilly, is still impassable by motor-car.

With regard to the political background, it requires no imagination to realise that the breakdown of the Four-Power Conference represents the deferment of hundreds of minor decisions, which makes it almost impossible to implement any project in Germany to-day, or even to plan with the assurance that the general lines of one's plan will fall in with whatever policy is dictated by the occupying Power. This is particularly true in Berlin, where the city has been divided into four sectors, each administered by a separate Power. These sectors are merely geographical areas marked by notice boards, and the city carries on its life as a unity.

#### THE ZEHLENDORFER PLAN

On May 10, 1945, only two days after VE-Day, a group of planners sat down to re-plan their city. The centre of Berlin was still a smoking ruin, and so they moved out to one of the suburbs. They chose Zehlendorf, in the American sector, and they gave the name of this suburb to their plan. As a text they took the phrase "within the bounds of possibility." The plan has four objects:

- (i) To preserve what is left of Berlin.
- (ii) To solve the traffic problem as the crux of the whole matter.
- (iii) So to draw the plan that it could be implemented stage by stage, and that each stage should be a separate entity.
- (iv) In view of the time lag which must inevitably occur, to make the plan elastic and capable of modification.

Berlin began as a village which grew up at the crossing of roads east/west and north/south across Europe. Of these two roads the planners say the east/west is the more important and they have made it the axis of their plan. The plan has five parts:

- (i) To cut out five existing railway termini and build a central railway belt east/west across the city, with stations at Charlottenburg, Zoo, Friedrichstrasse and Schlesischerbahnhof. Parallel to this to build a motor road across the city to link up these stations with the Autobahn system leading to all parts of Germany. Parallel to these two runs the Spree, which is to be partially canalised.
- (ii) To build a motor road north/south across the city to cross the east/west road at the Brandenburger Tor.
- (iii) To build two roads south of the Tier Garten to connect the two shopping areas of Kurfürstendamm and the Leipzigerstrasse.
- (iv) To provide two outer ring roads as well as the Autobahn Ring, although this plan provides no ring road round the inner city, as do the other plans.
- (v) To provide additional green spaces by the clearance of bombed sites, to be within 15 minutes' walk of any dwelling.

#### THE HERMSDORFER PLAN

This was named after the suburb of Hermsdorf, in which it was prepared, and which is in the French sector.

The plan is principally concerned with moving both industry and population out from the centre of the city. The plan provides for the building of one vast railway station at the north-west corner of the inner city to provide for the whole needs of the city, the area around the station to be given up to official and semi-official buildings, such as General Post Office, the markets, hotels, and an exhibition park. This station is to be connected with the Autobahn system by motor roads, including a ring road around the inner city and one outer ring. The plan provides for an indus-

trial area in the form of a belt of factories and industrial buildings with a diameter of seven miles around the city. The factory ring is to be flanked on the inside and on the outside by a ring road, and on the outside by a double railway line, at basement level, to facilitate the loading and unloading of goods. The population within this ring is to be reduced from a pre-war population of 2½ million to 1 million, and accommodation for these is to be found by the building of four concentric rings of "neighbourhood units" (*wohnstadtzellen*). These rings are to comprise in all 200 "neighbourhood units," with 800,000 homes for 3 million people. The majority of these homes are to be five-roomed single-family homes, but 10 per cent. are to be six- and eight-roomed dwellings. Outside this area again existing industrial areas such as around Siemensdorf will remain, and these areas will be connected by a ring railway. Outside this again is to be an area for garden villages, with market gardens and small holdings.

#### THE NEW PLAN

This plan, which has been prepared by the present City Architect, Herr Bonatz, is frankly a bringing-together of previous plans, and the author acknowledges this. He quotes the text of the Zehlendorfer plan: "within the bounds of possibility." He suggests that it is absurd to move Berlin from its present site, as has been suggested, both in respect of Berlin and in respect of other severely damaged German cities. He starts his planning from the three main streets, Unter den Linden, Friedrichstrasse and the Leipzigerstrasse, and to these streets he drives through a parallel street on either side. Around this area, the inner city, he then builds a ring road, as in the Hermsdorf plan, which virtually makes the inner city a close free from all through traffic. The railway system he leaves more or less as it is, but provides for three ring roads around the outside of the city, the outermost to be only a second-class road. He is concerned with open spaces and what he calls *stadtdlandschaft* (translated "urban landscaping"). He leaves many open spaces in the residential districts and the outer districts, and also he allows these open spaces to penetrate into the built-up area, so that you have a broken edge, rather than a solid perimeter of buildings, as in the London parks. He uses also the quadrangle and the square, grassed and planted, in his rebuilding schemes for the inner city. One interesting scheme is the roofing over of parts of certain of the main streets to form pedestrian shopping precincts (loftly Burlington Arcades as wide as Piccadilly).

The plan is not revolutionary, but it is a plan which is possible of implementation, and it is put forward as such.

#### THE RUHR

Coal is more important than even the rebuilding of the Krupp Works, and therefore the principal problem of the Ruhr is the rebuilding of miners' homes. There were in the Ruhr in 1939 1½ million dwellings, of which 990,000 were damaged. Such as have been repaired have been repaired very indifferently, and, to quote my informant, "These dwellings, with toilsomely repaired roofs, with windows only partly glazed, otherwise provided with timber, having no gutters and so on, are not accommodation to be striven after." They are very realistic in the Ruhr and have reduced their needs for rebuilding, not to millions of bricks and tons of cement, but to the tons of coal needed to make them. Here again political uncertainty must inevitably defer any large-scale replanning. Is the Ruhr to be internationally controlled, and, if so, by what Powers? What industries, if any, are to be demolished? Is Krupp Works to be rebuilt, and, if so, in its entirety or in part? Until problems such as these are solved no replanning is possible.





# TERRACE HOUSING

## AT COX GREEN, MAIDENHEAD

### DESIGNED BY BRIAN PEAKE

**GENERAL.**—This terrace of four houses was completed in January, 1947, for the key workers of British Filters Limited, whose works are nearby.

**SITE.**—The original intention of the client was to build four detached houses, but the possibilities of terrace treatment together with

the fact that a future bye-pass road would bisect the site, decided in favour of a terrace of four. The houses are placed at the northern end of the site to give a good southern aspect and view. A row of trees protects the north side.

**PLAN.**—Each house is approximately 900 sq. ft. in floor area

and consists of living room, kitchen, utility room, three bedrooms and separate W.C. Flower beds, porches, dividing walls, sheds and some built-in cupboards had to be omitted for reasons of economy.

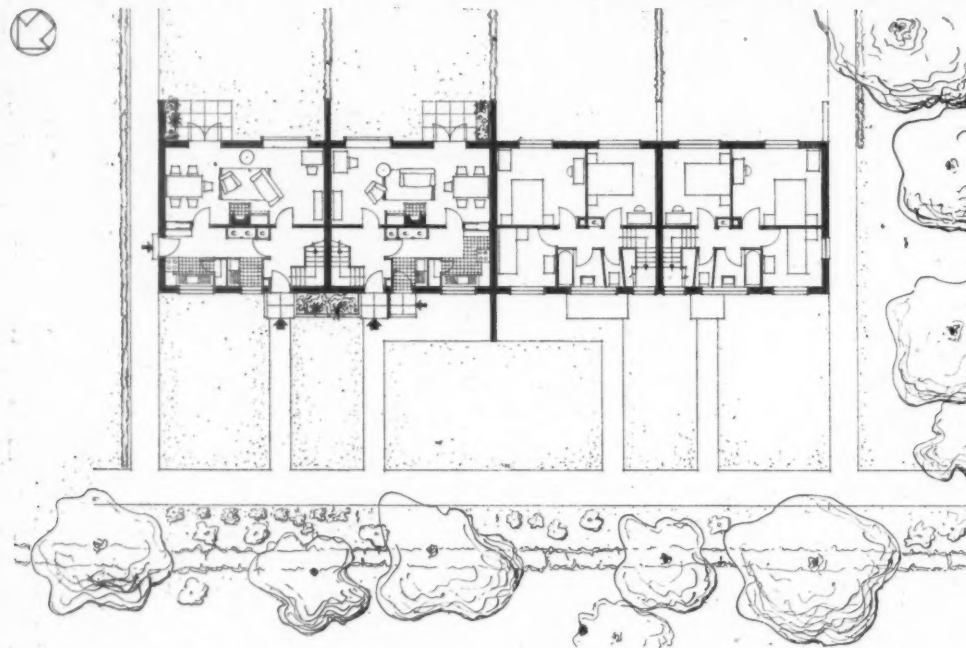
**CONSTRUCTION.**—In order to come within the licence cost, materials and finishes were kept as simple as possible. The original design was with precast concrete first floor construction, but to decrease costs normal timber floor construction had to be introduced.  $5\frac{1}{2}$  standards of timber were used for all purposes in the four houses. Normal 11-in. cavity walls are used with a solid ground floor and light timber roof trusses. There are standard metal windows throughout with their external reveals rendered and painted. Partitions are in coke breeze or brick.

**INTERNAL FINISH.**—The ground floor is finished with patent pitch mastic flooring except for portions of the kitchen and utility room, which are tiled with quarry



Left, hall and stairs with wreathed metal balustrading; right, living room; top, view from west.

# HOUSING AT COX GREEN, MAIDENHEAD



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

tiles. Walls are plastered, with some tiling in the bathroom and kitchen. The staircase is in timber with a wreathed metal hand-rail and uprights.

**SERVICES.**—The electrical installation consists of a patent pre-

fabricated system, water heating is by back boiler with electrical immersion heating for summer use. The plumbing and vertical drainage is run internally in ducts.

The general contractors were Messrs. J. M. Jones and Son. For sub-contractors see page 118.

*The southern aspect. The gardens have still to be made and porches and dividing walls added.*



DESIGNED BY BRIAN PEAKE

# CURRENT MARKET PRICES OF MATERIALS

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

Rates of Wages last rose on October 20, 1947, and are now as follows:—

## LONDON DISTRICT

Within 12 miles radius .. .. .

From 12-15 „ „ .. .. .

## LIVERPOOL and DISTRICT

## GRADE CLASSIFICATIONS

	A	A <sup>1</sup>	A <sup>2</sup>	A <sup>3</sup>
Craftsmen..	2s. 9d.	2s. 8½d.	2s. 8d.	2s. 7½d.
Labourers..	2s. 2½d.	2s. 2d.	2s. 1¾d.	2s. 1½d.

Craftsmen.	Labourers.
2s. 10½d.	2s. 3½d.
2s. 10d.	2s. 3½d.
2s. 10½d.	2s. 3½d.

*T. Davis*

F.S.I., F.I.Arb.

Prices vary according to quality and the quantity ordered.

Those given below are average market prices and include delivery in the London area, except where otherwise stated, but do not include overhead charges and profit for the General Contractor.

## CONCRETOR

### Cements

\* In non-returnable paper bags charged at 11/- net per ton or 7d. each net per bag in lots of less than 1 ton.

\* In non-returnable jute sacks charged at 11/- net per ton or 7d. each net per sack in lots of less than 1 ton.

\* In returnable jute sacks charged at the rate of 35/6 per net ton of cement or 1/9½ net per sack in lots of less than 1 ton. Credit on return at 1/6 net per sack.

\* In returnable cotton sacks charged at the rate of 66/8 net per ton or 3/4 each sack in lots of less than 1 ton. Credit on return at 3/- net per sack.

† Supplied in paper bags and/or non-returnable jute sacks—9/- per ton extra in 1-ton lots or more, 6d. net each bag or sack in lots of less than 1 ton.

	6 tons and over	In 80-ton/freights F.A.S. Safe Wharf in River Thames London Area.
* Portland to B.S. 12 .. .. .	60/6	57/-
* Rapid hardening to B.S. 12 .. .. .	66/6	63/-
† Aquacrete water repellent .. .. .	92/-	
† "417" cement (quick setting) extra rapid hardening .. .. .	82/-	
† Colorcrete, red, buff and khaki .. .. .	102/-	
Colorcrete, other shades. .. .. .	182/-	to 405/- (paper bags free)
Snowcrete.... .. .		(Minimum 1-ton lots) 233/- (paper bags free)
	1-9 cwt.	10-19 cwt.
Ciment Fondu to B.S. 915 delivered London area .. .. .	per cwt. 16/8	15/- per ton 242/4

### Aggregate and Sands (Full Loads)

2" Unscreened ballast to B.S. 822, Table 5 .. .. .	per yard cube	14/5
† (Down) Washed, crushed and graded shingle to B.S. 822, Table 2 .. .. .	per yard cube	14/5
† (Down) Ditto .. .. .	per yard cube	15/5
2" Broken brick .. .. .	per yard cube	14/6
† Ditto .. .. .	per yard cube	16/-
Washed pan breeze .. .. .	per yard cube	10/6
† Sharp washed sand to B.S. 822, Table 3 .. .. .	per yard cube	16/4
White Silver Sand for white cement (one ton lots)—		
Fine .. .. .	per yard cube	66/-
Coarse .. .. .	per yard cube	48/9
(For Sands for Bricklaying and Plastering, see respective trades)		

### Pavings

Brick hardcore .. .. .	per yard cube	6/6
Concrete ditto .. .. .	per yard cube	6/6
Clean furnace clinker and boiler ashes.... .. .	per yard cube	3/6
2" coarse gravel for paths .. .. .	per yard cube	17/6
† fine ditto .. .. .	per yard cube	20/-
Clean granite chippings to B.S. 1201, Table 4 (in 5-ton loads) .. .. .	per ton	41/7
Ditto (in 5-ton loads) (Immediate delivery) .. .. .	per ton	44/7

### Reinforcement

Home trade maximum basis price for mild steel rods to B.S. 785, ½" diameter and upwards, ex mills delivered to station or siding .. .. . per ton £19 6 6

N.B.—Prices for bricks do not include recent increases authorised by MOW, notification of which was received after going to press.

## CONCRETOR—(continued)

### Reinforcement—continued

#### Extras for:—

Under ⅜" to ⅞" diameter .. .. .	per ton	15 0
Ditto ⅞" and over ⅞" diameter .. .. .	per ton	£1 2 6
⅞" and over ⅞" diameter .. .. .	per ton	£1 10 0
⅞" and over ⅞" diameter .. .. .	per ton	£1 17 6
⅞" and over ⅞" diameter .. .. .	per ton	£2 5 0
⅞" and over ⅞" diameter .. .. .	per ton	£2 12 6
⅞" and over ⅞" diameter .. .. .	per ton	£3 0 0
Under ¼" to ⅞" diameter .. .. .	per ton	£4 10 0
Lengths over 40 ft. to 45 ft. .. .. .	per ton	15 0
" 45 ft. to 50 ft. .. .. .	per ton	£1 2 6
" 50 ft. (as 50 ft. plus per ft.) .. .. .	per ton	2 6

### Fabric Reinforcement

	16.35 lb.	9.32 lb.	5.67 lb.	1.83 lb.
Steel wire mesh fabric to B.S. 1221, Part A per yd. super. 5/6½	3/2½	1/11½	1/0½	
	10.76 lb.	7.32 lb.	5.17 lb.	1.58 lb.
Steel wire mesh fabric to B.S. 1221, Part B per yd. super. 3/8½d.	2/6½	1/9½	-1/1½	

### Sundries

Retarding liquid, in 5-gallon drums (for exposing aggregate) .. .. .	per gallon	25/-	
Ditto (for obtaining a bond) .. .. .	per gallon	15/7½	
			Ex Warehouse, Southwark Bridge. Drums chargeable and credited, if returned.

## BRICKLAYER (See note below)

### Common Bricks

Common stocks .. .. .	per 1,000	106/3
Rough stocks .. .. .	per 1,000	115/3
Mild stocks .. .. .	per 1,000	151/6
Sand limes .. .. .	per 1,000	67/11
† Phorpres pressed Flettons .. .. .	per 1,000	73/-
† Phorpres keyed Flettons .. .. .	per 1,000	75/-

### Facing Bricks

Best white sand limes .. .. .	per 1,000	120/-
Ditto in red, blue, gray, ivory and buff .. .. .	per 1,000	140/-
† Phorpres rustic Flettons .. .. .	per 1,000	93/-
Stocks, firsts .. .. .	per 1,000	181/6
Stocks, seconds .. .. .	per 1,000	171/6
Sandfaced, hand made reds .. .. .	per 1,000	226/6
Red rubbers (9½") .. .. .	per 100	51/6
† White facings .. .. .	per 1,000	100/-
Coloured facings (creams, buffs, browns and terra-cotta) .. .. .	per 1,000	120/6
† Dunbricks (concrete), greys or commons .. .. .	per 1,000	127/6
† Dunbricks (concrete) various colours .. .. .	per 1,000	147/6
† Southwater pressed sandfaced reds .. .. .	per 1,000	177/6
† Dorking pressed sandfaced multicoloured facings .. .. .	per 1,000	156/-

### Engineering Bricks

† Lingfield engineering wirecuts .. .. .	per 1,000	120/-
† Southwater engineering No. 1 (first quality red pressed) .. .. .	per 1,000	197/6
† Southwater engineering No. 2 (second quality red pressed) .. .. .	per 1,000	172/6
2½" White Engineering bricks to B.S. 187 .. .. .	per 1,000	120/-
* Blue pressed bricks to B.S. 1301 .. .. .	per 1,000	160/-
* Plus 100% plusage, 5 per cent. builders cash discount, 6d. per 1,000 levy.		
† At Kings Cross (Maiden Lane) Stn. For delivery in W.C. district add 15/- per 1,000.		
† Plus 6d. per 1,000 levy—prices ex works—Haulage extra.		

### Firebricks

Firebricks, best Stourbridge, 2½" .. .. .	per 1,000	53/6
Ditto, 3" .. .. .	per 1,000	64/6



## BRICKLAYER—(continued)

Glazed Bricks		Best quality		Seconds	
		£	s. d.	£	s. d.
White, Ivory or Brown, 9" × 2½" × 4½" :—					
Headers	per 1,000	39	10 0	37	10 0
Stretchers	per 1,000	40	0 0	38	0 0
Buff or Cream ditto :—					
Headers	per 1,000	41	10 0	39	10 0
Stretchers	per 1,000	42	0 0	40	0 0
Limes and Sands					
1 ton lots.					
Lime, greystone, to B.S. 890	per ton	84/9			
Lime, chalk, ditto	per ton	84/9			
*Lime, hydrated, ditto	per ton	89/6			
*Lime, blue lia	per cwt.	7/6 (small quantities)			
Washed pit sand to B.S. 1200	per yard cube	16/4			
(For cements, see "Concretor.")					
* Including paper bags.					
Hire of jute sacks charged at 1/6 and credited at 1/6. If left charged at 1/9.					

## Sundries

10 s.w. gauge galvanized butterfly type wall ties to B.S. 1243						per 1,000	82/6
12 s.w. gauge ditto						per 1,000	70/6
Wall ties, self coloured, 8" × 1 1/2" × 1 1/2", to B.S. 1243						per cwt.	55/3
Wall ties, galvanized, 8" × 1 1/2" × 1 1/2", to B.S. 1243						per cwt.	75/3
Damp proof course slates :						Welsh	Portuguese
Size 14" × 9"		per 100	48/9	39/6			
" 14" × 4 1/2"		per 100	24/-	17/9			
Hessian based bitumen damp course to B.S. 743						per yard super	4/3
Airbricks :						9" × 3" 9" × 6" 9" × 9" 14" × 9"	
Red and buff terra-cotta		each	1/-	2/-	5/4	13/10	
Black cast-iron School Board pattern airbricks		each	9" × 3" 1/8	9" × 6" 2/11	9" × 9" 4/3	12" × 9" 5/3	
Galvanized ditto		each	2/6	4/6	6/3	8/-	
Black hit-and-miss cast-iron ventilators						each	3/- 4/3 7/3 —
Galvanized ditto						each	4/6 6/3 10/9 —
Buff terra-cotta chimney pots		1' 0" each	1' 6" 5/1	2' 0" 6/1	2' 6" 8/9	3' 6" 11/8	5' 0" 26/8 45/6
Fireclay (loose) per ton						112/-	
Wall reinforcement supplied in standard rolls containing 25 yards lineal						12" wide black japanned	per roll 2/11
						12" wide black japanned	per roll 3/7 1/2
† Greater widths pro rata, 2 1/2% price carriage paid on order of £7.						Discounts for quantities.	

## Partitions, etc.

	2"	2½"	3"	4"
Clinker	per yard super	3/6	4/-	4/6
Hollow block to B.S. 1190	per yard super	3/1	3/4	4/-
Plaster	per yard super	6/6	7/3	8/5
Moler	per yard super	8/3	8/6	8/9
11" Wood Wool slabs	per yard super	from	4/2 to	4/10
12½" Wood Wool slabs	per yard super	from	6/7 to	7/6½
13" Wood Wool slabs	per yard super	from	8/6 to	9/8½
† Prices according to quantity ordered. 2½% cash discount.				

## PAVIOR

Red quarry tiles, 6" × 6" × ½", to B.S. 1286	per yard super	9/9
Ditto 6" × 6" × ½", to B.S. 1286	per yard super	8/8
Buff quarry tiles 6" × 6" × ½", to B.S. 1286	per yard super	10/11
Ditto 6" × 6" × ½", to B.S. 1286	per yard super	9/9
Hard red paving bricks, 2"	per 1,000	277/3
Ditto 1½"	per 1,000	259/3

## DRAINLAYER

## Clay Land Drain Pipes to B.S. 1196

	2"	3"	4"	6"
Pipes in 12" lengths	per 1,000	99/6	138/6	179/-
(Delivered in full loads Central London Area.)				

## Salt Glazed Stoneware Pipes and Fittings

		Standard List +	
		Orders for 2 tons and over	Orders under 2 tons less than 100 pieces
Seconds Quality	35% less 15%	55% less 15%	65% less 15%
Best Quality	35%	55%	65%
British Standard Quality	42½%	62½%	72½%
Tested Quality	60%	80%	90%
British Standard Tested	67½%	87½%	97½%

## Cast Iron Drain Pipes and Fittings

Socket and spigot pipes to B.S. 437 :—		Weight per 9 ft.				
		Size	9 ft.	6 ft.	4 ft.	3 ft.
1	1 8	4" per yard	10/1	11/2	18/-	13/7
1	1 17	4" per yard	10/6	11/6	18/5	14/1
2	0 1	6" per yard	15/7	18/6	29/9	23/9
3	3 21	9" per yard	28/2	36/11	64/-	48/10

## DRAINLAYER—(continued)

## Cast-Iron Drain Pipes and Fittings—continued

	2 ft.	18 ins.	12 ins.	9 ins.
1 1 8	4" per yard	11/2	—	—
1 1 17	4" per yard	11/5	—	—
2 0 1	6" per yard	17/11	—	—
3 3 21	9" per yard	—	—	—
Tonnage Allowances :—				
Orders up to 2 tons nett.				
*Bends (short radius) as Fig. No. 1	each	4" 6/3	6" 13/-	9" 40/-
*Single junctions as Fig. No. 18	each	11/-	21/3	69/-
*Intercepting traps as Fig. No. 33	each	30/-	50/-	123/-
*Gulleys ordinary trapped "P"	each	14/6	—	—
*Extra for vertical back inlet 4	each	4/3	—	—
Grease gully trap	each	209/9	—	—
*H.M.O.W. large socket gully trap with 9" gully top and heavy grating and one back inlet	each	37/6	—	—
* These prices are subject to 59% plusage.				

## Channels in Brown Glazed Ware.

Standard list + same discounts as "Best" quality salt-glazed Stone-ware pipes.

## White Glazed Channels

Orders under 20 pieces. Standard list + 37½%.

## Concrete Pipes, etc.

Concrete pipes to B.S. 556		12"	24"	48"
With O.G. joints	per foot run	3/7	10/6	36/-
Bends	each	10/9	31/6	108/-
Junctions	each	30/-	60/-	—
Double junctions	each	—	—	—
Concrete pipes to B.S. 556				
With spigot and socket joints	per foot run	3/11	11/6	39/6
Bends	each	11/9	34/6	118/6
Junctions	each	30/-	60/-	—
Double junctions	each	—	—	—
Concrete road gully to B.S. 556				
18" diameter and 42" deep	each	59/-	—	—
Precast concrete manholes to B.S. 539				
Precast concrete manhole chamber rings	per foot run	12/8	36/-	81/6
6" precast concrete cover slabs	—	32/6	61/6	—

## Manhole covers and frames

## To B.S. 497

	Size of load	Unit price	
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A	35 tons	115/-	
C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade B.	5 tons	65/-	
	Size of load	Single seal Flat type	Double seal Flat type
C.I. coated manhole cover and frame, 18" x 18" to B.S. 497, Grade C	1 ton	25/6	34/-
Ditto galvanised ditto	1 ton	36/6	49/9
Ditto coated manhole cover and frame, 24" x 18" to B.S. 497, Grade C	1 ton	30/-	38/-
Ditto galvanised ditto	1 ton	43/6	56/-
Ditto coated manhole cover and frame, 24" x 24" to B.S. 497, Grade C	1 ton	41/-	55/6
Ditto galvanised ditto	1 ton	62/-	83/6

## MASON

## Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.

Blocks scrapped, random sizes	per foot cube	8/6
Add for blocks to dimension sizes	per foot cube	1/- (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long)	per foot cube	9/6
Templates with sawn beds, sawn one edge	per foot cube	11/-
Templates with sawn beds, sawn two edges	per foot cube	13/-
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads)	—	38/7

## Artificial Stone to B.S. 1217

6" × 3" Copings and sills	per foot run	2/9½
6" × 6" Copings and sills	per foot run	4/3½
9" × 3" Copings and sills	per foot run	3/4½
9" × 6" Copings and sills	per foot run	6/2
12" × 3" Copings and sills	per foot run	4/3½
12" × 6" Copings and sills	per foot run	7/4½
Cornices according to detail, per foot cube (from)	—	13/6½



## MASON—(continued)

Bath Stone in random blocks			
Monk's Park	per foot cube	5/4	
St. Aldhelms Box Ground	per foot cube	5/10	
Delivered on rail at South Lambeth station.			

Portland Stone in random blocks, average 20 feet			
Whitbed	per foot cube	6/14	
Delivered on rail at Nine Elms Station.			

## SLATER, TILER AND ROOFER

Best Bangor Slates to B.S. 680

		£	s.	d.
24" x 12"	per 1,000 actual	96	0	0
20" x 10"	per 1,000 actual	61	15	0
Prices include for delivery to site in lots of 1,000 and upwards.				

## Tiles

Basic for Hand-made sandfaced 10½" x 6½" red roofing tiles			
	per 1,000	180/-	
*Machine-made sandfaced best red tiles with continuous ribs, 10½" x 6½"	per 1,000	142/6	
*Delivery London area in loads of 5,000 and over	per 1,000	18/6	
Berkshire hand-made red Pantiles, 14½" x 10"	per 100	67/-	
Berkshire hand-made Dun coloured Pantiles, 14½" x 10"	per 100	77/-	
Concrete Tiles			
Plain tiles, 10½" x 6½"	per 1,000	90/- to 95/-	
Interlocking tiles, 15" x 9"	per 1,000	£14 10s.	
Double Roman tiles	per 1,000	£30	

## Asbestos-cement

*6" corrugated sheets, grey	per yard super	3/5
*Standard 3" corrugated sheets, grey	per yard super	3/14
* Prices are for minimum two-ton loads, and are subject to 5% trade discount and 2½% cash discount.		

Wire slate nails (galvanized)	per cwt.	1½" x 15 gauge	80/-
	Up to 5,000 sq. ft.	5,000 to 15,000 sq. ft.	

½" Insulating board (per sq. ft.)	3/4	3/24
	15,000 to 50,000 sq. ft.	Over 50,000 sq. ft.

½" Insulating board (per sq. ft.)	3/0	2/10
	Up to 5,000 sq. ft.	5,000 to 10,000 sq. ft.

½" Hardboard (per sq. ft.)	5½d.	5½d.
¾" Hardboard (per sq. ft.)	7½d.	7½d.
	10,000 to 30,000 sq. ft.	Over 30,000 sq. ft.

½" Hardboard (per sq. ft.)	5½d.	4½d.
¾" Hardboard (per sq. ft.)	7½d.	6½d.

## Laminated Wallboard

½" Thickness (standard):			
1 bundle up to 2,500 sq. ft.	per foot super	-2½d.	
2,500 sq. ft. to 5,000 sq. ft.	per foot super	-2½d.	
5,000 sq. ft. and over	per foot super	-2½d.	

## Asbestos-cement and Asbestos Products

½" Semi compressed flat building sheets, grey	per yard super	1/7
½" Ditto	per yard super	2/3
* Prices are for orders of two tons and over and are subject to 5% trade discount and 2½% cash discount.		
½" Asbestos wall board (in sheets 8' 0" x 4' 0")	per yard super	3/9
½" Ditto	per yard super	5/-
½" Asbestos wood (in sheets 8' 0" x 4' 0")	per yard super	2/6
* Prices are for orders of 2 tons and over and are subject to 2½% cash discount.		

		25-75 yards	150-300 yards	Over 600 yards
½" Fireproof plaster board	per yard super	2/6	2/2	1/10
½" Ditto	per yard super	2/4	2/0	1/8
2" Paper Faced Linen Taper, per 100 yard roll				5/-
Joint filler	per lb.	—	—	-4

## Sundries

Slates or sarking felt to B.S. 747	per yard run	1/14
Roofing felt (1-ply bitumen) to B.S. 747, Part I	per yard sup.	1/6
Bituminous hair felt to B.S. 747, Part II	per roll	76/-
All rolls 25 yards long by 32" wide.		
"Sisalcraft" standard grade	per yard sup.	-6
"Sisalcraft" subsoil grade	per yard sup.	-3
"Cabots" quilts (Ex Works):—		
Triple ply ½" thick	2/2 per yard super	
Double ply ½" thick	1/11 " "	
Single ply ½" thick	1/8 " "	
All rolls 28 yds. long by 36" wide. Quantities less than complete roll 2d. extra per yard.		

## SLATER, TILER AND ROOFER—(continued)

## Sundries—continued

"Fibreglass" sound deadening quilt	per yard super	
	Up to 500 yds.	Over 500 yds.
Light grade	1/11	1/10
Medium grade	2/4	2/3
In rolls 27 yards long by 36" wide.		
"Fibreglass" bitumen bonded mats		
in standard rolls	per yard super	1/4
In rolls 10, 12½, 15 yards long by 33", 36", 42", 45", 48" wide.		
Slagwool (loose in 1" thickness)	per yard super	1/4

## CARPENTER AND JOINER

Home Grown Timber Prices. See Statutory Rules and Orders, 1947, No. 94.

Imported Softwood Prices. See Statutory Rules and Orders, 1947, No. 731.

Imported Hardwood Prices. See Statutory Rules and Orders, 1947, No. 1525.

These may be obtained on application to H.M. Stationery Office, York House, Kingsway, W.C.2.

## Standard Panelled and Glazed Wood Doors

Type 4	size 2' 0" x 6' 6" x 1½"	each	36/9
	size 2' 6" x 6' 6" x 1½"	each	39/-
Type 2 x G	size 2' 6" x 6' 6" x 2"	each	43/-
	size 2' 9" x 6' 6" x 2"	each	45/9
Type 4 x G	size 2' 6" x 6' 6" x 2"	each	52/-
	size 2' 9" x 6' 6" x 2"	each	56/3

In lots of from 1 to 11 inclusive.

## Standard E.J.M.A. Wood Windows

INP 26	size 2' 6" x 1' 5½"	each	25/2
IV 36	size 3' 6" x 7' 10"	each	113/2
IV 40	size 4' 0" x 2' 2½"	each	32/10
3T 46	size 4' 6" x 5' 11½"	each	116/2
4T 50	size 5' 0" x 7' 10"	each	139/-

## Standard E.J.M.A. Kitchen Units

No. 1	size 3' 0" x 3' 6" x 1' 7"	each	169/-
No. 2	size 3' 0" x 3' 6" x 1' 7"	each	126/11
No. 4	size 3' 0" x 1' 9" x 1' 7"	each	131/5
No. 5	size 3' 10" x 1' 9" x 1' 7"	each	95/2
No. 7	size 6' 6" x 1' 9" x 1' 7"	each	158/2

## Corkboard

Orders under Orders over 20,000 sq. ft. 20,000 sq. ft.

1" thick per foot super		9½d.	9d.
Cut steel clasp nails to B.S. 1202	1" per cwt.	51/3	
Cut steel floor brads to B.S. 1202	2" per cwt.	43/6	
Bright oval wire nails to B.S. 1202	1" per cwt.	49/9	
Galvanized wire staples with slice cut points, 1" x 12 gauge	per cwt.	63/-	

## STEEL AND IRONWORKER

Basis price for rolled steel joists sections, 5" x		£	s.	d.
4½" to 16" x 6" in 10-ft. to 50-ft. lengths	ex mills per ton	17	8	0
Ditto of 9" x 7" sections	ex mills per ton	17	13	0
Ditto of 4" x 3" sections	ex mills per ton	18	8	0
Ditto of 5" x 2½" sections	ex mills per ton	18	3	0
Ditto of 10" x 8" sections	ex mills per ton	17	18	0
Ditto of 12" x 8", 14" x 8", 16" x 18" x 6", 18" x 7", 18" x 8", 20" x 6½", and 20" x 7½" sections	ex mills per ton	17	18	0
Ditto 22" x 7" sections	ex mills per ton	18	3	0
Ditto 3" x 1½" sections	ex mills per ton	20	18	0
Ditto 3" x 3" sections	ex mills per ton	18	13	0
Ditto 4" x 1½" sections	ex mills per ton	19	18	0
Ditto 5" x 3" sections	ex mills per ton	17	18	0
Ditto 24" x 7½" sections	ex mills per ton	18	8	0
Ditto of solid steel columns	ex mills per ton	18	8	0
Ditto of angles	ex mills per ton	17	8	0
Ditto of tees	ex mills per ton	18	8	0

All delivered to Station or Siding.

## PLASTERER

## Plaster and Cement

		1-ton loads	6-ton loads
Thistle (browning) to B.S. 1191, Class B	per ton	96/3	86/3
Gypstone to B.S. 1191, Class B	per ton	70/6	
Paristone (haired) to B.S. 1191, Class B	per ton	73/-	ex Works, Kent.
Ditto (unhaired)	per ton	70/6	
Glastone to B.S. 1191, Class C	per ton	73/-	
Sirapite (coarse) to B.S. 1191, Class C	per ton	96/3	86/3
Ditto (fine) to B.S. 1191, Class C	per ton	104/3	98/6
Keene's Pink to B.S. 1191, Class D	per ton	155/6	
Keene's White to B.S. 1191, Class D	per ton	161/9	
Cullamix (Tyrolean Finish), 1-ton lots and upwards	per ton from	154/6 to 188/-	

## PLASTERER—(continued)

Sundries			
Sharp washed sands to B.S. 1198	per yard cube	16/4	
Cow Hair	per cwt.	84/6	
Goat Hair	per cwt.	102/6	
Expanded metal lathing, 9' 0" × 2' 0" × $\frac{3}{8}$ " mesh × 26 gauge	per sheet	4/7	
	25-75 yards	150-300 yards	Over 600 yards
$\frac{3}{4}$ " Plasterboard (plaster lath)	per yard super	2/1 $\frac{1}{4}$	1/9 $\frac{1}{4}$ 1/7 $\frac{1}{4}$
$1\frac{1}{4}$ " Galvanized nails	per cwt.	63/4	
Hessian Scrim cloth in 100-yard rolls, $3\frac{1}{2}$ " wide	per roll	7/6	

## Wall Tiles

The following prices are subject to 75 per cent. addition:

Standard quality.		
White, glazed 6" × 6" × $\frac{3}{8}$ "	per yard super	8/6
Cream "	per yard super	9/-
Angle beads ( $1\frac{1}{4}$ " wide)	per yard run	1/1
Rounded edge tiles (white glazed)	per yard run	1/8
" (cream glazed)	per yard run	1/9
Coloured enamelled bright glazed, 6" × 6" × $\frac{3}{8}$ "	per yard super	14/3
Angle beads ( $1\frac{1}{4}$ " wide)	per yard run	1/2
Rounded edge tiles	per yard run	2/9
Eggshell matt enamelled, 6" × 6" × $\frac{3}{8}$ "	per yard super	15/-
Angle beads ( $1\frac{1}{4}$ " wide)	per yard run	1/4
Rounded edge tiles	per yard run	2/10

## PLUMBER

## Lead

$3\frac{1}{2}$ lb. and upwards milled sheet lead in quantities of 5 cwt. to 1 ton in sheets to B.S. 1178	per cwt.	109/6
Lead ternary alloy, No. 2 quality extra over sheet lead or lead pipe	per cwt.	16/-
Allowance for old lead delivered to merchant or manufacturer	per cwt.	81/3

## Cast Iron Goods

Percentage Adjustment.  
on List No. 3100 A.B.  
1/2/40

Rainwater Goods (painted or unpainted)	Plus 70%
Soil goods (coated or uncoated)	Plus 70%

## Mild Steel Rainwater Goods

	Standard List +
Gutters	83 $\frac{1}{2}$ %
Pipes and Fittings	93 $\frac{1}{2}$ %

## Asbestos-Cement Rainwater Goods

The following prices are subject to 12 $\frac{1}{2}$ % trade discount and 2 $\frac{1}{2}$ % cash discount.

Orders over £30 are subject to 17 $\frac{1}{2}$ % trade discount and 2 $\frac{1}{2}$ % cash discount.

## Rainwater Pipes.

Prices are for 6' 0" lengths, but 10' 0" lengths are available in 2", 2 $\frac{1}{2}$ ", 3" and 4" diameters at same prices. Short lengths up to 2' 0" are charged as 1 yard. From 2' 0" to 4' 0" charged as 1 $\frac{1}{2}$  yards. From 4' 0" to 6' 0" charged as 2 yards. Over 6' 0" charged as 10' 0".

## Round Pipes.

2"	per yard run	2/3 $\frac{1}{2}$
2 $\frac{1}{2}$ "	per yard run	2/6 $\frac{1}{2}$
3"	per yard run	3/1
4"	per yard run	4/2 $\frac{1}{2}$
5"	per yard run	7/1 $\frac{1}{2}$
6"	per yard run	8/10 $\frac{1}{2}$

## Gutters.

Short lengths of gutter up to 2' 0" charged as 1 yard; from 2' 0" to 4' 0" as 1 $\frac{1}{2}$  yards, and over 4' 0" as 2 yards.

Half round gutters	3"	4"	4 $\frac{1}{2}$ "	5"	6"	8"
per yard run	1/7 $\frac{1}{2}$	1/11 $\frac{1}{2}$	2/- $\frac{1}{2}$	2/4 $\frac{1}{2}$	3/3 $\frac{1}{2}$	4/1
Ogee gutters per yard run	—	2/4 $\frac{1}{2}$	2/6 $\frac{1}{2}$	3/1	3/9	4/10 $\frac{1}{2}$

## INTERNAL PLUMBER

Lead pipe in coils, 5 cwt. and upwards, to B.S. 602	per cwt.	110/9
Lead soil pipe	per cwt.	113/9
Add if ribbon marked	per cwt.	-/3
Plumber's solder	per cwt.	290/-
Tinman's solder	per cwt.	357/-
Drawn lead traps with brass screw eye, 6 lb., to B.S. 504	1" 1 $\frac{1}{2}$ " 1 $\frac{1}{2}$ " 2"	
S. trap	each	4/3 5/- 6/- 8/11
P. trap	each	3/9 4/1 5/2 7/2
Extra for 3" deep seal "S" trap	each	1/1 1/3 1/5 1/9
Extra for 3" deep seal "P" trap	each	-/9 -/11 -/11 1/3

## INTERNAL PLUMBER—(continued)

Screwed and Socketed Steel Tubes and Fittings for Gas, Water and Steam, etc.

Fittings and flanges and tubes ordered in long random lengths are subject to the following trade discounts:—

Tubes:	$\frac{1}{4}$ " to 3"
Class A	48%
" B	41 $\frac{1}{2}$ %
Galvanized Class A	29 $\frac{1}{2}$ %
" B	24%

Fittings:	
Lightweight	24 $\frac{1}{2}$ %
Heavyweight	17%

Flanges:	
Lightweight (Table D)	13 $\frac{1}{2}$ %
Heavyweight (Table E)	Plus 2 $\frac{1}{2}$ %

## COPPERSMITH AND ZINC WORKER

## Copper

Hot rolled copper sheeting in 5-cwt. lots (4' × 2' sheets), to B.S. 899	16 wire gauge	per lb.	1/9 $\frac{1}{2}$
Ditto	24 wire gauge	per lb.	1/11 $\frac{1}{2}$
Copper wire, 10, 12 and 14 gauge (over 2 cwt.)		per lb.	1/10 $\frac{1}{2}$
Copper nails		per lb.	2/-

## GLAZIER

Sheet Glass, cut to size (ordinary glazing quality), to B.S. 952, Section A.  
For quantities exceeding 500 ft. super.

24 oz.	per foot super	5 $\frac{1}{2}$ d.
26 oz.	per foot super	6 $\frac{1}{2}$ d.
32 oz.	per foot super	8 $\frac{1}{2}$ d.

Polished Plate glass, ordinary substance, approximately  $\frac{1}{8}$ " to B.S. 952, Section A.

In plates not exceeding:	Glazing quality	Selected glazing	Silvering quality
2 ft. super	2/5	2/7	3/1
3 ft. super	2/9	3/2	3/10
5 ft. super	3/-	3/8	4/5
*45 ft. super	3/8	4/-	5/6
*100 ft. super	4/5	5/7	7/2

\* Extra sizes, i.e., plates exceeding 100 ft. super or 160 in. long, or 100 in. wide, at higher prices.

$\frac{1}{8}$ " figured rolled and cathedral, to B.S. 952, Section B—untinted	7 $\frac{1}{2}$ d.	per foot super
" tinted	10 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " rolled plate, to B.S. 952, Section B	6 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " or $\frac{1}{4}$ " rolled plate, " "	7 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " or $\frac{1}{4}$ " rough cast, " "	7 $\frac{1}{2}$ d.	per foot super
Prismatic, to B.S. 952, Section D	1/2 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " wired cast, " "	9 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " Georgian wired cast, " "	10 $\frac{1}{2}$ d.	per foot super
$\frac{1}{8}$ " polished wired, " "	3/6d.	per foot super
$\frac{1}{8}$ " wired arctic, " "	1/8d.	per foot super

Hollow glass blocks, to B.S. 952, Section D:—

P.B.2. 5 $\frac{1}{2}$ " × 5 $\frac{1}{2}$ " × 3 $\frac{1}{2}$ "	2/6 each
P.B.3. 7 $\frac{1}{2}$ " × 7 $\frac{1}{2}$ " × 3 $\frac{1}{2}$ "	3/6 each
P.B.32. 7 $\frac{1}{2}$ " × 7 $\frac{1}{2}$ " × 3 $\frac{1}{2}$ "	3/6 each

Radiussed corner bricks to match up with:—

P.B.2	4/6 each
P.B.3 or 32	6/- each

## PAINTER

Snowcem paint (in free air-tight metal containers)	per cwt.	56/-
White ceiling distemper	per cwt.	29/-
Washable distemper	per cwt. from	82/-
Ready mixed white lead paint (best), semi-gloss, per 32 lb.	per gallon	42/-
Aluminium paint (best quality)	per gallon	32/-
White enamel	per gallon	—
White enamel paint	per gallon	46/-
Stiff white lead (genuine English stack process, 1 ton lots, 1 cwt. kegs)	per cwt.	142/-
Liquid driers, best Terebene	per gallon	20/-
Linseed oil, raw (5-gallon drums)	per gallon	22/6
" " boiled (5-gallon drums)	per gallon	22/8
Knotting	per gallon	28/-
Oil stain (scumble)	per lb.	4/6
Varnish (outside quality), copal oak	per gallon	32/-
" " general oak	per gallon	26/-
" " egg shell flatting	per gallon	32/6
Turpentine, genuine American, 5-gallon lots	per gallon	—
" substitute	per gallon	3/6
Cresote, 5-gallon lots	per gallon	2/-
Linseed Oil Putty	per cwt.	60/9
Ferramastic (14 lb. kegs)	per cwt.	76/9
Size, in 1 S, best quality	per lb.	2/4

## Perfect listening here... without a radio set

AT ARLINGTON HOUSE, PICCADILLY, a perfect radio reception is laid on in every flat by private wire. Residents do not require a radio set at all, so there is no tuning to do! They have only to turn the programme switch to enjoy crystal-clear listening—without a trace of fading, distortion or interference.

This perfect listening service is the result of close co-operation between architect and radio engineer, when plans for building Arlington House were being drawn up. It was decided then that Rediffusion should be installed in all flats.

Rediffusion engineers arranged to relay B.B.C. programmes to Arlington House by private wire, and the architect included the internal wiring in his general design, and selected loudspeakers that suited his plans for interior decoration. Rediffusion loudspeakers can be supplied in a wide range of models. There are panels for wall or ceiling mounting, as well as special units for built-in furniture, which were chosen for Arlington House.

Architects who are interested in further details of this Rediffusion Service, should contact our London Office during the early stages of planning, to ensure the fullest co-operation of Rediffusion engineers.

## REDIFFUSION

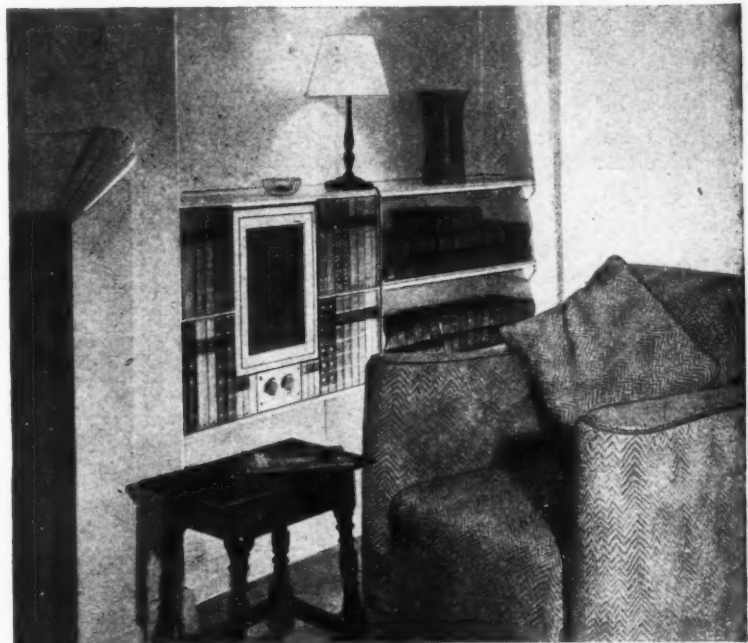
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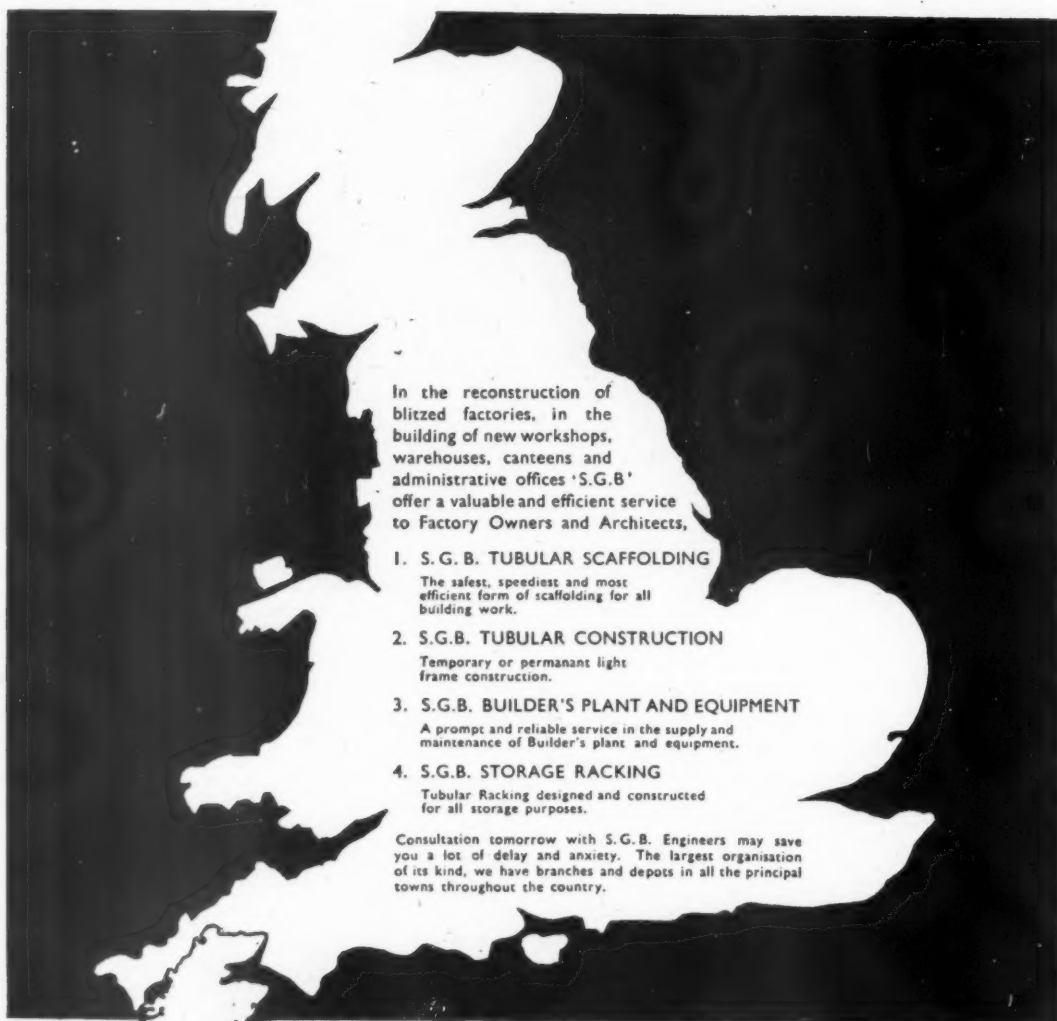


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INFORMATION CENTRE · INFORMATION SHEETS  
QUESTIONS AND ANSWERS · CURRENT TECHNIQUE  
THE INDUSTRY · PRICES · TECHNICAL ARTICLES

## 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.

#### 3.8 planning: regional and national

##### REGIONAL PLANNING: SCOTLAND

*A Highland County Plans.* County of Ross and Cromarty. (The North Star, Dingwall, 1947.)

Description of planning problems and programme in Ross-shire. Two maps.

Population decline in eastern and western districts and measures to arrest it by means

of providing better housing and social facilities, by improving water supplies, and by suggesting an area near Invergordon as suitable new town site in order to create nucleus of non-agricultural employment within eastern area. Proposed afforestation schemes for western area. Development of Island of Lewis. Table showing population trends in West Ross-shire.

#### 10.26 design: building types

##### HOUSING RESEARCH: USA

*Health Goals for Housing: Programme of the Committee on the Hygiene of Housing, American Public Health Association.* C. E. A. Winslow. (American Journal of Public Health, June, 1947, pp. 653-662.)

Interesting article presenting detailed research programme in connection with provision of healthful housing in America. Some proposals well suited to international application. Bibliography of Association's publications.

Division of research programme into following five study aspects:—(1) Establishment of objective standard for measuring quality of existing houses by means of employing inspection and appraisal method based on system of scores with results expressed in form of quantitative penalty scores and of specific basic deficiencies. (2) Formulation of broadly conceived but specific standards of performance for new houses, covering neighbourhood environment, standards of occupancy, construction and equipment. (3) Investigations and proposed improvements in relation to housing regulations and their enforcement by public health departments and other official bodies. (4) Stimulation of public's interest and co-operation in order to bring about eventual application of proposed standards and improvements. (5) Investigations into obvious gaps in fundamental housing research, with particular reference to specific topics requiring closer examination.

#### 12.10 materials: metals

##### COPPER

*Non-Ferrous Metals in Building.* 1. Copper. (Building Digest, November, 1947, pp. 335-342.)

First of a series of articles about non-ferrous metals in building: arguments in favour of copper for water pipes, gas, sanitation and underground, for panel heating, for roofing, flashings and damp proof courses, and for wall ties and other miscellaneous uses, including architectural metal work.

Some such review as this about the use of non-ferrous metals might have been of great value at the present time, but it would serve its purpose better if it were rather more critical and more factual, with more reliable technical data. Claims made for such a recent and as yet unproved development such as is embodied in the Broderick roof should, one feels, be qualified.

Nevertheless, the article provides a summary of all the possible uses to which copper has been or is likely to be put in building, and is useful as such.

#### 20.51 complete structures

##### HANGARS

*Aerodrome Development in India.* E. H. Booth. (J. Institution of Civil Engineers, December, 1947, pp. 154-160.)

Application of pre-stressed concrete shell structures instead of stereotyped steel-framed structures reduced the amount of steel required to about one-third and offered many other advantages. New cantilever type developed, at present under construction at four international airports.

#### 24.58 lighting

##### SHOP LIGHTING

*The Possibilities of Store Lighting.* Louis Skidmore. (Illumination [USA], Vol. 6, No. 1, p. 8.)

Fluorescent and incandescent light combined; examples of different shops. Quite useful, illus. 7 photographs.

The chief point in this article is the direct assertion that for shops, incandescent and fluorescent lighting combined would be better than either alone. The colour quality is good, even for complexion and food, and a restaurant is described which has direct incandescent downwards and fluorescent on the walls, which are described, with diffusing glass louvres to screen windows while allowing ventilation, and with an egg-crate ceiling.

The view is expressed that daylight is too difficult to control to be worth the attempt.

#### 26.19 services and equipment

##### GAS METERING

*Gas Metering and Consumers Control.* BS C. of P. 331.102: 1947. (British Standards Institution, 2s.)

Deals with provision, siting and fixing of meters, controls, governors and connections and arrangements for by-passes to them. Section on positioning of meters of some importance to architects.

*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

#### 2927 DRY ROT: DISEASE

**Q** A client of mine has asked me whether there is any connection between dry rot and human diseases. She has taken a house which has a certain amount of dry rot in it, and is worried whether, after the replacement of the affected timber, her family is likely to suffer any ill effects. Can you tell me if there is any such connection? I have heard of this before, but have not traced any authoritative views on the subject.

**A** According to Forest Products Research Leaflet No. 6, "Dry rot is not associated with any human disease, but where a house is badly attacked the air is necessarily damp, and for that reason the house may be unhealthy to live in."

### INFORMATION CENTRE INDEX

An alphabetical index covering items published during the twelve months ended December 31, 1947, is being prepared. Readers who wish to have a copy—it is free of charge—should write to the Technical Editor, or complete the form below and post it to THE ARCHITECTS' JOURNAL, not later than February 19, 1948.

Please send me the Information Centre Index for 1947:—

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

## THE INDUSTRY

### THE CATERING EXHIBITION

Now that almost every factory has to have a canteen by law, and with luncheons being provided at schools, it would seem that almost every architect should be familiar with the plant now available for large-scale cooking. In the years before the war a great deal of this equipment, though doubtless quite efficient from the point of view of cooking and fuel efficiency, was very poorly designed so far as appearance went, some of the detail work being particularly bad. Since the last catering exhibition, held in 1937, there has been a good deal of tidying up, and although many of the counter type tea and coffee urns still suffer from straggling pipe-work, many of the larger pieces of cooking equipment look extremely good. In a quick tour of the exhibition it was possible to see many large gas or electric ovens and cookers of really good appearance, and whose efficiency can be taken for granted.

Benham's general purpose oven is illustrated here. This is made in both gas and electric models, either as a single unit on a stand, or in the two-decker version, shown here. The units can, of course, be arranged side by side to form a continuous unit in a large kitchen. The ovens shown here are 22 inches wide by 24 deep by 22 high, and another model, 30 inches wide, looks much the same, but has double doors. The same firm also showed a handsome-looking gas grill, finished mainly in stainless steel, and intended for use in grilling where the customer likes to see what goes on, and a large gas cooker fitted with the patent Aeromatic burner which cannot strike back.

Radiation had a large display which included their new Confecter pastry oven, a large-scale job which will cook up to 700 cakes at once, and a cafeteria counter suite with a stainless steel top and figured walnut front. This counter can, of course, be made to any plan.

Incidentally, it was most noticeable that manufacturers are thinking a great deal about the self-service type of counter with rails for the customers' trays along the front. Wartime staff shortages made this type of service almost standard practice in the lower-price restaurants, and it is almost universal in factory canteens where the cost of the meals does not allow of table service.

The quick frosting of foods also seems likely to develop quite considerably when supplies become easier. Already popular in America, where large quick-freeze lockers at a central refrigerating plant can be rented by the householder and used for storage, the idea seems to be interesting the catering trade here. The main point of the process is that the fruit or vegetables are frozen immediately after they are picked, and this is done at a temperature of about minus 30° Fahrenheit. The success of the process depends on the speed of the freeze, for slow freezing apparently forms the juices into large ice crystals which expand and break the walls of the cells, allowing the juice to escape when the frost thaws out. The rapid freeze produces smaller crystals, and the

cell walls are said to remain intact, so that the flavour is preserved. Quick-frozen foods, fish, meat, fruit or vegetables, will keep for three to six days at the temperature of the ordinary domestic refrigerator, and this temperature will probably be adequate for restaurants which are within reach of the various distribution centres. For the remoter hotels, however, it seems likely that storage space which can be kept at about zero Fahrenheit or less will become a standard requirement.

Among the smaller items of equipment one noticed an electric volatiliser known as the Aerovap (1, Old Burlington Street, W.1), which uses cakes of a DDT compound and is lethal to all winged visitors. The unit is fixed to the wall and will give protection to a volume of up to 5,000 cubic feet, a larger unit being made for greater areas. When the appliance is first installed the manufacturers suggest that it should be left on for a week or ten days, after which it should only be necessary to use it at night and week-ends. Current consumption is less than 60 watts. Refills of insecticide are supplied in solid form in cups which can be quickly changed, each cup holding enough for about six weeks' continuous operation. The heat disperses the insecticide in extremely fine particles, known as aerosols, and the whole process seems much simpler than spraying. Anything which will prevent mirrors and light fittings from getting flyblown seems well worth a trial. At the moment the Aerovap is obtainable on a yearly rental basis, which includes maintenance and a supply of insecticide.

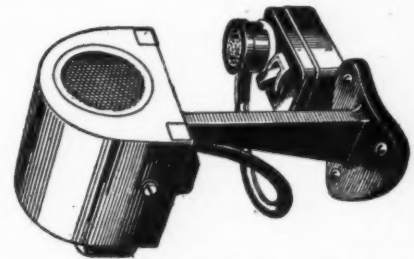
The whole problem of pest destruction seems of considerable importance in the catering industries, at any rate if one may judge by the number of specialist firms who claim to be able to deal with anything from *cimex lectularius* upwards (or downwards) on a contract basis. One enterprising firm had a full display of all the horrors with which they can cope, including the sort of problems to be met in the Far East. These seem to vary from beetles the size of large mice, with such lovely iridescent carapaces that it seems a shame to kill them, to furry tarantulas which look as though they would submit to nothing less lethal than a twelve-bore.

### CEMENT RENDERINGS

The Cement Marketing Company point out that their Tyrolean surface can be rubbed down after application to produce a texture resembling a normal scraped finish. This is done by leaving the normal Tyrolean finish for 24 hours and then lightly rubbing down the high spots with a carborundum stone. The 24-hour waiting period should be regarded as a minimum and applies only under the most favourable conditions. The rubbing should not be done if the surface is damp.



*Benham two-unit oven, made for gas or electricity.*



*Aerovap volatiliser. It uses DDT compound and is lethal to all winged visitors.*

The chief advantages of the process are that the work of applying and finishing can be done by semi-skilled labour and that any mild blemishes are obliterated by the rubbing. It is also suggested that quoins or string courses could be rubbed to give a contrast with the rest of the building, while it is possible to do two-colour work by spraying Snowcem in a contrasting colour on the Tyrolean surface before rubbing down. The latter idea might also have possibilities for the interior decoration of cinemas or restaurants as an alternative to the usual plastic paint. (The Cement Marketing Co., Ltd., 192, Ashley Gardens, London, S.W.1.)



*New World counter suite (foreground) on the Radiation stand at the Catering Exhibition.*



The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to *The Architects' Journal*, 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

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## Announcements

The Wellington Tube Works Ltd. have issued a folder giving the standard dimensions and weights of steel tubes, British Standard Specification No. 1387. The folder can be obtained from the firm at Great Bridge, Tipton, Staffordshire.

In *Our First Fifty Years, the Story of Venesta Ltd.*, 1898-1948, published by the firm on the occasion of their Golden Jubilee, it is revealed that Plymax, the firm's metal-coated plywood, was introduced by accident. On one occasion, when loading the press, a face veneer was inadvertently omitted, and this caused the glue-covered centre ply to adhere to the steel platen. Fortunately, an observant manager noticed this and, profiting by the mistake, was soon able to repeat intentionally what had been done by accident. By modifying the adhesives the firm were before long able to stick most metals to plywood. During the war period just past, the firm were once again busily engaged in making plywood for aircraft requirements, and much of it went into the building of the famous Mosquitos. The firm have never employed more than fifteen hundred persons at one time in this country, yet 325 have served them for twenty-five years and more, and of these 172 are still with them. This is a record of which they are rightly proud.

Mr. N. Fort, DIP. ARCH., A.R.I.B.A., of 38, Wormhill Terrace, Hatfield, Washington, Co. Durham (tel. Washington 32), at present engaged wholly in town planning, would be pleased to receive trade catalogues and information sheets, together with prices, delivery and details of permits, etc., required, particularly with regard to housing.

Mr. Rawson F. Stagg has been appointed Assistant Managing Director of Ketton Portland Cement Co. Ltd.

## Buildings Illustrated

New Canteen at Castle Works and Rolling Mills, Cardiff, for Messrs. Guest, Keen & Nettlefolds, Ltd. (pages 105-107). Architects: Clifford Tee & Gale. General contractor: Sir Robert McAlpine & Sons, Ltd. Quantity surveyors: Reuben Holbrow & Partners. Sub-Contractors: Barrel Vault Roofs designed by Barrel Vault Roofs (Designs), Ltd., reinforcement by Twistee Reinforcement, Ltd. Cattybrook 2½ in. commons and facings, bricks; John Lysaghts, Ltd., structural steel; Ruberoid Co., Ltd., steel decking, special roofings and roofing felt; Haywards, Ltd., domelights; Granwood Flooring Co., wood-block flooring; G. Vignali & Sons, Terrazzo; Venetian Flooring Co., cork tiling; Carter & Co., tiling to kitchen; Geo. Lillington & Co., Ltd., waterproofing materials; Rosser & Russell, Ltd., central heating, electric heating and ventilation; Halifax Boiler Co., Ltd., boilers; Metropolitan-Vickers Electrical Co., Ltd., electric light fixtures; Beaven & Sons, Ltd., plumbing; W. Farrer & Sons, sanitary fittings; James Gibbons, Ltd., door furniture; Henry Hope & Sons, casements; Bayliss, Jones & Bayliss, metalwork; Arthur Hurler & Sons, flush doors; Carter & Co., Ltd. tiling; Reynolds Woodware, Ltd., furniture.

Terrace Housing at Cox Green, Maidenhead. (Pages 109-110). Architect: Brian Peake, A.R.I.B.A.; general contractor, J. M. Jones & Son; Ragusa asphalt floors; rustic sandfaced bricks; Turner Asbestos Co., roofing felt; Chance & Co., glass; Fulham grates; Hartley & Co., octopus system electric wiring; Froyds Yannedis door furniture; Ideal Casement Co., casements.

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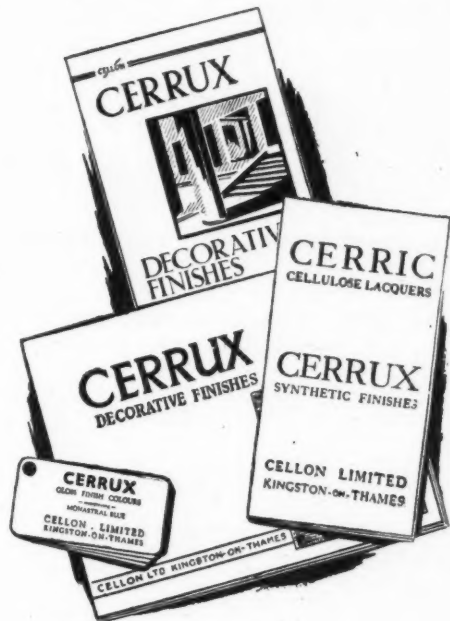
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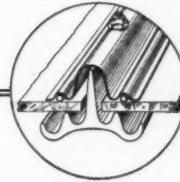
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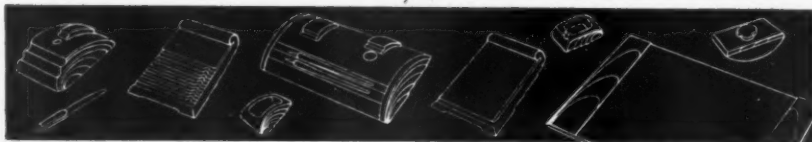
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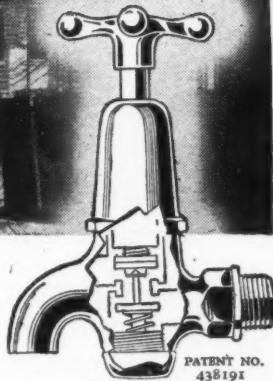
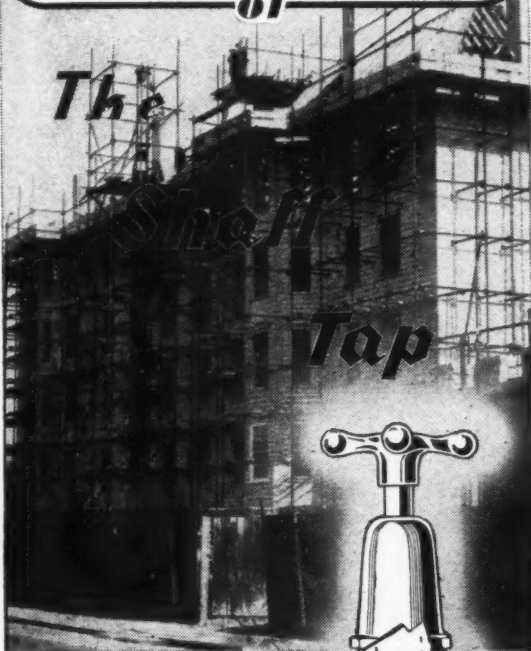
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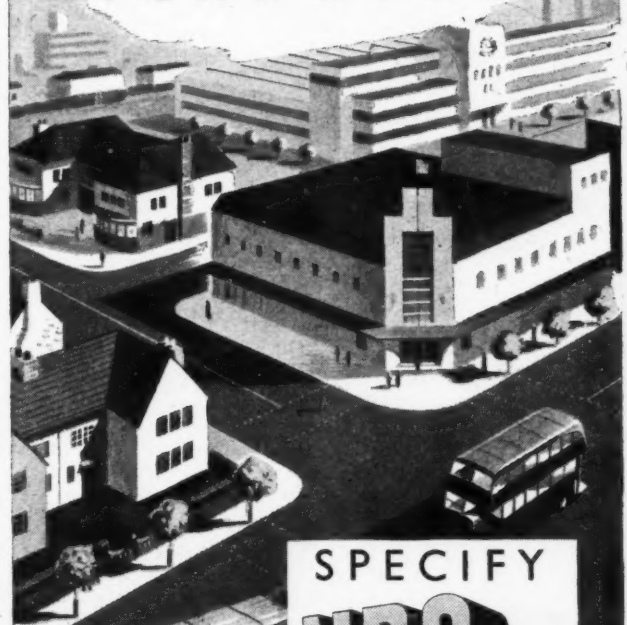
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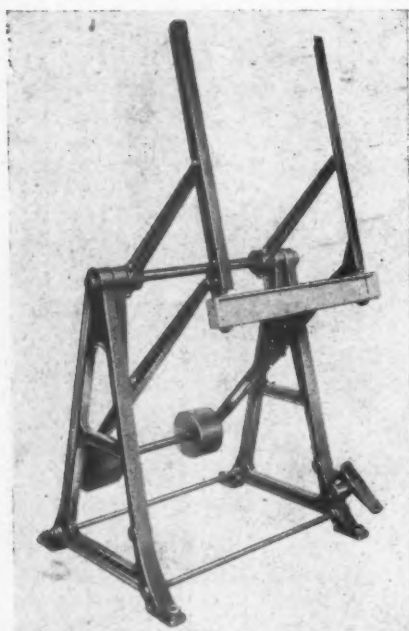
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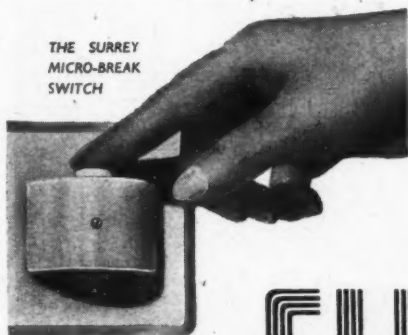
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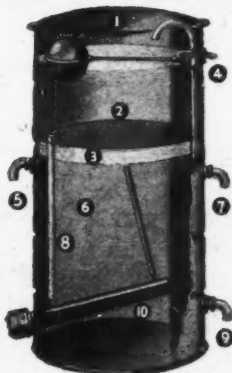
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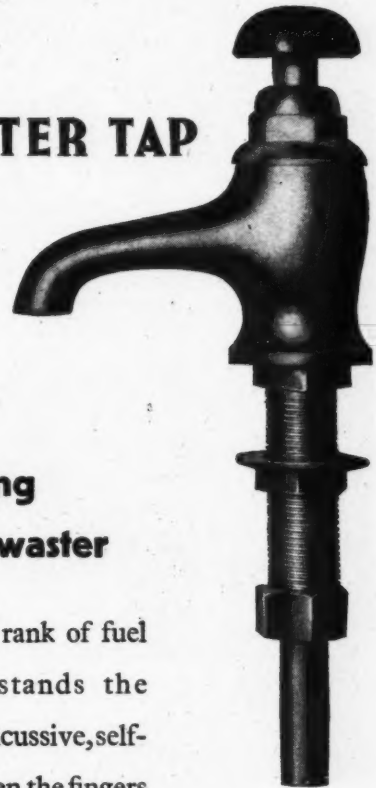
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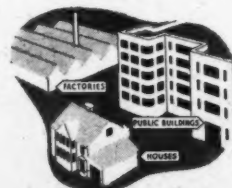
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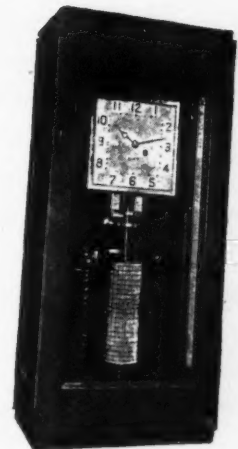
**L**AST night in Room 6 of the Victoria and Albert Museum, London. The tapestry is one of the £1,000,000 "Lady of the Unicorn." It is in a collection from Paris for exhibition on Friday. Beside it a man pushes a button. . . .

He is one of 15 ex-Service guards who patrol at night. At points in the galleries he pushes these buttons which connect with a tell-tale clock in the control room, and for each push a cylinder.

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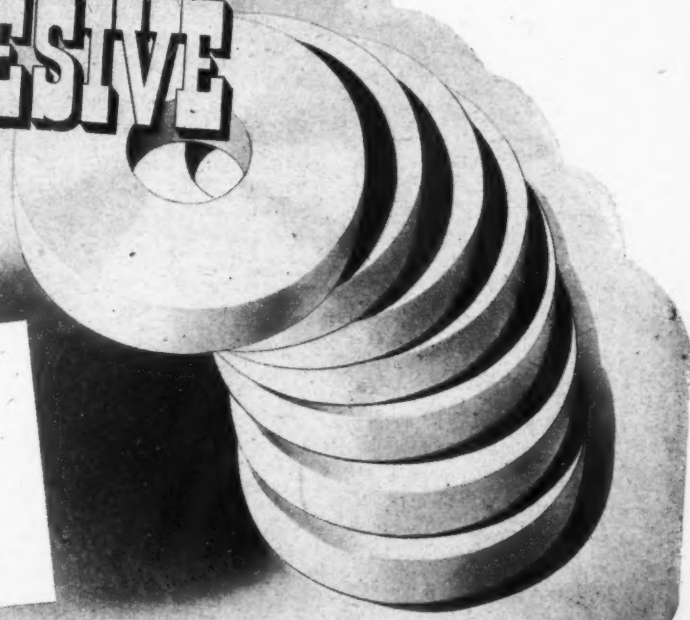
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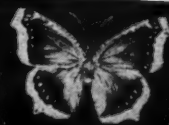
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Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

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

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**THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS** maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having vacant vacancies. Address: 75, Batson Place, London, S.W.1. Tel. Sloane 5615. 901

#### CUMBERLAND COUNTY COUNCIL.

Applications are invited for the appointment of a **CLERK OF WORKS**, to supervise the erection of a new Secondary School at Wigton.

The inclusive wage will be £9 2s. per week.

Applicants should have good practical knowledge of all trades and experience in the erection of steel frame buildings, and should be able to measure up work.

The appointment will be temporary, and will be subject to four weeks' notice on either side.

Applications, stating age, present employment, qualifications and experience, together with copies of three recent testimonials, should be delivered to John H. Houghan, F.R.I.B.A., County Architect, 4, Alfred Street North, Carlisle, not later than Wednesday, 4th February, 1948.

G. N. C. SWIFT, Clerk of the County Council.

7th January, 1948 763

#### COUNTY BOROUGH OF CROYDON.

##### ARCHITECTS' SECTIONS.

Applications are invited for the following appointments from candidates, preferably with Local Government experience:—

##### BOROUGH ENGINEER'S DEPARTMENT:

Experienced in general architectural work, and especially in Housing.

(a) **TWO ARCHITECTURAL ASSISTANTS.** Salary, Grade A.P.T., IV (£440×£15—£485 per annum, plus bonus, £59 16s. per annum (men)).

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##### EDUCATION DEPARTMENT:

Experienced in preparing schedules, specifications, and in estimating and quantities.

##### SURVEYING ASSISTANT.

Salary, Grade A.P.T., II (£440×£15—£485 per annum, plus bonus).

The appointments are permanent, and superannuable, subject to medical examination.

Application forms, to be obtained from the respective Departments, Katharine Street, Croydon, to be returned there not later than Thursday, 12th February, 1948.

Canvassing will disqualify.

E. TABERNER, Town Clerk.

Town Hall, Croydon, January, 1948. 791

#### CIVIL SERVICE COMMISSION, DUBLIN.

##### POSITIONS VACANT.

Application forms and particulars of the undermentioned Architectural posts (established), in the Department of Health, Dublin, may be obtained from the Secretary, Civil Service Commission, 45, Upper O'Connell Street, Dublin.

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Salary scales: Man, £1,110—£25—£1,230 a year; woman, £990—£25—£1,110 a year.

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Salary scales: Man, £880—£25—£1,050 a year; woman, £730—£25—£920 a year.

Essential qualifications for both posts: University degree in Architecture or equivalent qualification, and for the post of Deputy Chief Architectural Adviser at least eight years, and for the post of Senior Architectural Inspector at least five years' high class experience, in a responsible position, of architectural work, including experience in the design and construction of important buildings and services connected therewith and in the selection and layout of sites, together with experience in the repair and maintenance of buildings and the checking and adjustment of Builders' Accounts.

##### ARCHITECTURAL INSPECTOR.

Salary scales: Man, £730—£20—£880; woman, £575—£15—£730.

Essential qualifications: University degree in Architecture or equivalent qualification, and practical experience of architectural work, including experience in the design and construction of buildings, the preparation of designs and contract drawings from sketches or instructions, and the supervision of building contracts.

Age limits for two senior posts a maximum of 45 years; and for third post 27-40 years on the 1st January, 1948. Extensions of the upper limit granted in certain cases.

Latest time for accepting completed application forms: 5 p.m. on 4th March, 1948. 807

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

Applications are invited for the following appointments:—

(a) **ASSISTANT ARCHITECT** (Grade VI), £535-£600.

(b) **TWO ARCHITECTURAL ASSISTANTS** (Grade III), £390-£435.

Form of application, together with full particulars, may be obtained from F. A. C. Maunder, County Architect, County Offices, Aylesbury, and must be returned to him by 9th February, 1948.

GUY R. CROUCH, Clerk of the County Council.

County Hall, Aylesbury, 12th January, 1948. 771

#### COUNTY OF LEICESTER.

##### APPOINTMENT OF COUNTY ARCHITECT.

Applications are invited from qualified Architects for the appointment of full-time County Architect to the County Council of Leicester.

The salary will be £1,500 per annum, plus cost-of-living bonus in accordance with the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services. A travelling allowance will be paid in accordance with the Council's scale for the time being in force.

Applicants must have a good knowledge and experience of School Architecture.

The appointment will be terminable by three months' notice in writing on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and the selected candidate will be required to pass a medical examination before the appointment is confirmed.

Application should be made on a form to be obtained from me. Full terms of the appointment will be furnished with the application form.

Applications must reach me in an envelope endorsed "County Architect" by the 31st March, 1948.

Canvassing will disqualify.

JOHN A. CHATTERTON, Clerk of the County Council.

County Offices, Grey Friars, Leicester. 808

#### CROWN AGENTS FOR THE COLONIES.

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

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required by Gold Coast Government, Public Works Department, for 18 to 24 months, with prospect of permanency. Commencing salary and overseas pay up to £1,050 a year, rising to £1,200. Outfit allowance £60. Free passages. Candidates must be proficient in taking off, abstracting and preparing bills of quantities for general building work (including reinforced concrete). Apply at once by letter, stating age, whether married or single, and full particulars and qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/12810 on both letter and envelope. 806

#### COUNTY BOROUGH OF SWANSEA.

##### APPOINTMENT OF DEPUTY BOROUGH ARCHITECT.

Applications are invited for the post of Deputy Borough Architect. The salary is £750 per annum, rising by annual increments of £50 to £850 per annum.

A cost-of-living bonus will be payable as determined by the Council (the present rate is £69.16s. a year).

Applicants must be Registered Architects and Fellows or Associates of the Royal Institution of British Architects, and possess wide and thorough experience in the service of a Local Authority. They should also be under 45 years of age unless in Local Government service.

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

The appointment may be terminated by three months' notice by either party.

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

Applications, accompanied by copies of three recent testimonials, must be delivered to the undersigned not later than Saturday, 14th February, 1948.

Canvassing, directly or indirectly, will disqualify.

T. B. BOWEN, Town Clerk.

The Guildhall, Swansea, 22nd January, 1948. 795

#### DUNDEE COLLEGE OF ART SCHOOL OF ARCHITECTURE.

The Governors of the Dundee Institute of Art and Technology invite applications for the position of **SENIOR LECTURER AND STUDIO INSTRUCTOR**.

Applicants should be members of the R.I.B.A. and should preferably be holders of a degree or diploma of a recognised School of Architecture. Special experience in Constructional Subjects will be an additional qualification.

Salary scale: Men, £600 by £25 to £750; women, £460 by £20 to £500, with placing according to qualifications and experience.

Applications should be lodged as soon as possible, and should be on the prescribed form, copies of which, with full particulars, may be obtained from the Clerk and Treasurer.

Bell Street, Dundee. 17th January, 1948. 798

#### COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

##### COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the West Riding County Architect's Department:—

##### SENIOR ASSISTANT COUNTY ARCHITECTS.

Candidates must have had professional and administrative experience, preferably in Local Government or Central Government Service, and be Members of the Royal Institute of British Architects. Salary, £800×£50—£1,000.

##### SENIOR ASSISTANT ARCHITECTS, who are

Members of the Royal Institute of British Architects, and have had a thorough training in architecture and experience in the carrying out of modern building works. Salary, £535×£25—£590.

##### ASSISTANT ARCHITECTS.

Candidates should be Associates of the R.I.B.A., and must have had a thorough training and experience in architectural work. Salary, £390×£15—£510.

Cost-of-living bonus, at present £59 16s. per annum (males) and £48 2s. per annum (females) is payable in connection with the appointments, which are subject to the provisions of the Local Government Superannuation Act, 1937, and successful candidates will be required to pass a medical examination.

Details of the above appointments and forms of application may be obtained on application to the County Architect, County Hall, Wakefield.

Applications must reach me, the undersigned, not later than Monday, the 16th February, 1948.

HUBERT BENNETT, F.R.I.B.A., County Architect.

County Hall, Wakefield 810

#### COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

##### COUNTY ARCHITECT'S DEPARTMENT.

##### APPOINTMENT OF DEPUTY COUNTY ARCHITECT.

The County Council of the West Riding of Yorkshire invites applications for the position of Deputy County Architect, at a salary of £1,200×£50—£1,500, plus cost-of-living bonus, at present £59 16s. per annum. Applicants should be members of the R.I.B.A.

Applicants must have had professional and administrative experience, preferably in Local Government or Central Government Service. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the Standing Orders of the County Council, which include requirements to pass a medical examination and to devote whole time to the duties of the appointment. The appointment will be terminable by three calendar months' notice on either side.

Applications on forms to be obtained from this office, and accompanied by copies of three recent testimonials, must be addressed to me (endorsed "Deputy County Architect"), and should be received on or before Monday, the 16th February, 1948.

Canvassing of members of the County Council, either directly or indirectly, will be a disqualification.

HUBERT BENNETT, F.R.I.B.A., County Architect.

County Hall, Wakefield. 809

#### GOVERNMENT OF IRAQ.

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

##### ARCHITECTURAL DRAUGHTSMAN

required by Iraqi State Railways, for three years in first instance. Salary, I.D.60 a month, plus cost-of-living allowance of up to I.D.12 a month (I.D. = £1). Free passages. Provident Fund. Candidates must have had training and experience as Architectural Draughtsmen, with preferably some knowledge also of civil engineering draughtsmanship. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/12654 on both letter and envelope. 811

#### METROPOLITAN BOROUGH OF PADDINGTON.

##### HOUSING DEPARTMENT.

##### APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Junior Architectural Assistant, on the permanent establishment of the Council.

The salary will be within Miscellaneous Division (Grade II) and A.P.T. Division (Grade I) of the National Joint Council's Scheme of Conditions of Service, viz., £315, rising by annual increments of £15 to £375 per annum, appropriate to the successful candidate's qualifications and experience, plus London "weighting" (£20 per annum), and cost-of-living bonus.

Applicants must have passed or be about to sit for the Intermediate examination of the Royal Institute of British Architects, be used to preparing working and detail drawings, and be good draughtsmen.

Forms of application and conditions of appointment can be obtained from me on receipt of a stamped, addressed, foolscap envelope.

Applications, accompanied by copies of three recent testimonials, must be received by me not later than Saturday, 14th February, 1948.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY, Town Clerk.

Town Hall, Paddington, London, W.2. 17th January, 1948. 805



## GOVERNMENT OF IRAQ.

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

QUANTITY SURVEYOR required by Iraqi State Railways for three years in first instance. Salary, I.D. 90 a month, plus cost-of-living allowance I.D. 24 (Iraqi Dinar 1 = £1). Free passages. Provident Fund. Candidates should be experienced Quantity Surveyors, and be competent to undertake all operations up to final preparation of Bills of Quantities. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/17612 on both letter and envelope. 814

## CROWN AGENTS FOR THE COLONIES.

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

QUANTITY SURVEYOR required by Malayan Union Government, Public Works Department, for three years, with possibility of permanency. Commencing salary according to experience, in scale \$4,800 to \$9,600 a year, plus cost-of-living allowance up to \$1,920 a year. Children's allowance \$50 a month for first child and \$35 for second. (Malayan dollar equals 2s. 4d.). Outfit allowance £60. Free passages. Candidates age 25-30 should be Chartered Quantity Surveyors, and have had two years' experience, after pupillage, in all aspects of the work. 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/18275 on both letter and envelope. 813

## CROWN AGENTS FOR THE COLONIES.

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

QUANTITY SURVEYOR required by Government of Nigeria, Public Works Department, for two tours of 18-24 months in first instance. Salary and expatriation pay up to £970, according to qualifications and experience in scale, rising to £1,175 a year. Outfit allowance £60. Free passages. Candidates should be Chartered Quantity Surveyors, and have had good experience of practical Quantity Surveying. 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/17564 on both letter and envelope. 815

## CITY OF GLOUCESTER.

APPOINTMENT OF PLANNING ASSISTANT.  
The Corporation of Gloucester invite applications for the appointment of Planning Assistant, in the City Surveyor and Water Engineer's Department.

The appointment will be subject to the terms and conditions of service of the National Joint Council, in Grade IV, A.P.T. Division (£420-£465), with cost-of-living bonus of £59 16s. per annum, and to the Local Government Superannuation Act, 1937.

Candidates should preferably possess one or more of the following qualifications: Corporate Member of Town Planning Institute; Corporate Member of Royal Institute of British Architects (with diploma in Town Planning); Corporate Member of Institution of Municipal Engineers (with diploma in Town Planning), and should have had considerable experience in the preparation and administration of planning schemes, with a thorough knowledge of the Acts and Orders dealing with Town Planning.

Applications, stating age, qualifications, and full particulars of experience, accompanied by copies of three recent testimonials, should be received by the undersigned not later than 12 noon on Wednesday, 11th February, 1948.

L. O. NEED.

Town Clerk.

Guildhall, Gloucester. 820  
22nd January, 1948.

## BOROUGH OF MAIDENHEAD.

APPOINTMENT OF ASSISTANT ARCHITECT.  
Applications are invited for the appointment of Assistant Architect, in the Borough Engineer and Surveyor's Department. Salary in accordance with Grade IV (£420-£465), plus bonus (£59 16s.) of the National Scheme of Conditions of Service.

Applicants should have had considerable experience in the design and construction of buildings, and must be capable of taking off quantities and preparing contract documents. Preference will be given to candidates who have passed a recognised professional examination, preferably of the R.I.B.A. or the R.I.C.S.

The appointment will be subject to the National Scheme of Conditions of Service; to the Local Government Superannuation Act, and will be determinable by one month's notice on either side.

Applications, stating age, previous appointments, qualifications, and experience, together with copies of three recent testimonials, are to be delivered to the Borough Engineer and Surveyor, Mr. C. T. Read, A.M.I.C.E., P.R.I.C.S., endorsed "Assistant Architect," not later than 17th February, 1948.

The Council may be in a position to offer housing accommodation to the person appointed if he should be married.

J. A. BAIRD.

Town Clerk.

Guildhall, Maidenhead. 816

## SOUTH DEVON REGIONAL PLANNING

## COMMITTEE.

## APPOINTMENT OF SENIOR PLANNING

Applications are invited for the appointment of Senior Planning Assistant, at a salary in accordance with Grade IV of the A.P.T. Division of the National Salaries Scale (£420-£465 per annum), with a cost-of-living bonus (at present £59 16s. per annum) in addition. The person appointed will be required to provide a car, for which an allowance will be made. In the transfer of planning functions to the Devon County Council under the Town and Country Planning Act, 1947, this appointment will be included.

Applicants must be fully conversant with the Town and Country Planning Acts, Orders and Circulars, and have had experience in the preparation of Schemes and in particular the control of Interim Development.

Preference will be given to candidates who hold a recognised professional qualification.

The appointment is subject to one month's notice on either side, to the terms and conditions of service of the National Joint Council, and to the successful candidate contributing to the County Council's Superannuation Scheme. The selected candidate will be required to pass a medical examination before the appointment is confirmed. The person appointed will be required to carry out such duties as may from time to time be assigned to him by the Committee or the Planning Officer, and to reside within five miles of Torquay.

Applications, stating date of birth, full details of qualifications and experience, particulars of present and past appointments, and accompanied by copies of two testimonials, to be sent to the Planning Officer, Castle Circus House, Torquay, not later than the 21st February, 1948.

JOHN E. KNAPMAN.

Secretary.

Castle Circus House, Torquay.

30th January, 1948. 826

## EXTENDED PERIOD OF ADVERTISEMENT.

## SKIPTON URBAN DISTRICT COUNCIL.

## ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, at a salary in accordance with Grade III of the National Scales (£390-£435), plus bonus, at present £59 16s.

Although the appointment is not within the permanent establishment, it is anticipated that its duration will not be less than two years.

Applications on a form to be obtained from the undersigned, and giving the names and addresses of three persons to whom reference can be made, should be sent, in an envelope endorsed Architectural Assistant, so as to be received by the undersigned not later than 14th February, 1948.

K. B. ROBINSON, B.Sc. (Eng.).

A.M.Inst.C.E.

Engineer and Surveyor.

Town Hall, Skipton.

23rd January, 1948. 822

## CITY OF PORTSMOUTH.

## CITY PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the appointment of PLANNING ASSISTANT (Grade III), in the Department of the City Planning Officer.

Applicants should have a knowledge of the technique of Town and Country Planning, and must be competent draughtsmen.

The salary is Grade III of the National Scale, viz., £390-£435 per annum, plus cost-of-living bonus.

Applications, stating age, qualifications and experience, together with the names of three referees, must be delivered to the undersigned not later than the 14th February, 1948.

Canvassing will disqualify.

V. BLANCHARD.

Town Clerk.

City Council Chambers, Southsea.

21st January, 1948. 825

## MONMOUTHSHIRE COUNTY COUNCIL.

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

(a) PERMANENT PRINCIPAL ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade VIII of the Administrative, Professional and Technical Division of the National Joint Council's Scheme.

(b) SIX PERMANENT ARCHITECTURAL ASSISTANTS, at a salary in accordance with Grade V of the Administrative, Professional, and Technical Division of the Scheme.

(c) ONE PERMANENT ASSISTANT QUANTITY SURVEYOR, at a salary in accordance with Grade V of the Administrative, Professional, and Technical Division of the Scheme.

(d) TWO PERMANENT ASSISTANT QUANTITY SURVEYORS, at a salary in accordance with Grade IV of the Administrative, Professional, and Technical Division of the Scheme.

In addition to the above salaries, a cost-of-living bonus, at present £59 16s. per annum, will be paid.

Forms of application, particulars of the post and conditions of service, can be obtained from the undersigned. Applications, together with copies of three recent testimonials, must be delivered to Mr. Colin L. Jones, F.R.I.B.A., County Architect, Queen's Hill, Newport, Mon., not later than Friday, 13th February, 1948.

VERNON LAWRENCE.

Clerk of the Council.

County Hall, Newport, Mon. 824

## MIDDLESBROUGH EDUCATION COMMITTEE.

## ARCHITECTS' DEPARTMENT.

(Education Architect: T. N. MITCHELL, B.Arch., A.R.I.B.A.).

Applications are invited for:—

(a) ASSISTANT ARCHITECT. Grade V (£460-£510).

Experience in the design and construction of modern buildings, including schools, desirable; should be A.R.I.B.A.; University degree or diploma an advantage.

(b) ASSISTANT ARCHITECT. Grade I-II (£330-£405).

Good general experience required, and should have Intermediate R.I.B.A.

(c) ASSISTANT INSPECTOR OF SCHOOL BUILDINGS. Grade I (£330-£375).

Must have a thorough knowledge of building construction and maintenance, be capable of preparing reports, specifications and estimates for works of repair and maintenance, and be experienced in supervision of this work.

The appointments are permanent, superannuable, subject to the National Conditions of Service, and plus cost-of-living bonus, £60 per annum.

Housing accommodation is available, if necessary, for appointment (a).

Forms of application and terms of appointment can be obtained from the Director of Education, Woodlands Road, Middlesbrough, to whom they should be returned within 14 days of the insertion of this advertisement.

Canvassing, directly or indirectly, will disqualify.

E. C. PARR,

Town Clerk.

Town Clerk's Office, Municipal Buildings,

Middlesbrough.

January, 1948. 821

## Partnerships and Financial

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

CHARTERED CIVIL ENGINEER (33) desires appointment with established Architect in London or Home Counties area, with a future view to Partnership, at present in own small practice in London; over 10 years' experience in office and constructional work, in a responsible position, also experience in dilapidations, surveys, etc.; ample initiative and good connections. Apply Box 751.

PARTNERSHIP offered in long established West Country practice, rural area, to young energetic Architect; some capital; particulars in confidence. Apply Box 797.

## Architectural Appointments Vacant

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SEELY & PAGET, F./L.R.I.B.A., require fully qualified ASSISTANT; must be experienced working drawings and specifications, with sound knowledge of all normal methods of construction; licensed work now in hand includes many important Ecclesiastical commissions. Apply by letter, giving usual details, to 41, Cloth Fair, E.C.1. 648

COMPETENT qualified ARCHITECTURAL ASSISTANT required, to work under Chief Assistant in extensive Norfolk practice; must be car driver and single for preference; salary £400 to £500 per annum, according to ability. Apply Box 776.

SENIOR ASSISTANT wanted in busy practice in county town; expert in all matters concerning Housing important; own car, or able to drive; partnership would be considered. Also JUNIOR ASSISTANT; must be good draughtsman. Box 777.

APPLICATIONS are invited for SENIOR ASSISTANT ARCHITECT, in London Architect's Dept.; commercial and industrial work; salary £550 to £650, according to capabilities; qualified applicants preferred; replies should state training, experience, and previous positions held; permanent appointment; contributory pension scheme after period of satisfactory service. Box 779.

ASSISTANT ARCHITECT in Architect's dept. of London company; applicants should have the ability to control drawing office staff and take charge in the absence of the architect; industrial and commercial experience an advantage. Applicants should state, in confidence, age, training, experience, war service, salary required, and position now held, to Box 780.

SENIOR ASSISTANT and competent DRAUGHTSMAN required immediately for industrial and domestic work. Particulars of experience and salary required to Nightingale & Ambrose, F./R.I.B.A., 27, John Adam Street, W.C.2. 767

SENIOR ASSISTANT required, with interest in contemporary design; office near Hampton Court (4 hr. Waterloo). Apply Eric Lyons & Townsend, Mill House, Bridge Road, East Molesey. 784

**ARCHITECTURAL ASSISTANT**, for London office, with experience of exhibition stand construction, designing and detailing. Box 792.

**ASSISTANT** required by Interior and Exhibition Designer; imagination more important than practical experience; ability to produce lively sketch perspectives an advantage; salary according to age and ability. Box 812.

**JUNIOR ARCHITECTURAL ASSISTANT** wanted for busy general practice (10 miles from London); must be capable tracer, with good knowledge of construction details; assistance with educational expenses given to successful applicant if studying for a recognised technical examination; entry into staff superannuation scheme if desired. Apply by letter, stating age, experience, and salary required, to Tooley & Foster, Chartered Architects, Midland Bank Chambers, Buckhurst Hill, Essex. 801

**ARCHITECTURAL ASSISTANT** wanted in Cambridge office; salary according to ability, up to £350 per annum. Full details to Box 800.

**KEEN JUNIOR ASSISTANT** required for Architect's country practice in Oxfordshire; must be capable of doing working drawings from Architect's rough sketches, surveying and levelling, must be neat and accurate; salary according to age and experience. Box 819.

**ARCHITECTURAL ASSISTANT** required at Head Office; salary, £400-£500 per annum, according to experience. Write, giving full details, to Messrs. George Wimpey & Co., Ltd., Tilehouse Lane, Denham, near Uxbridge, Middx. 818

**ARCHITECTURAL ASSISTANT** required in North-West London office. Write, stating age, experience, and salary required. Box 823.

### Architectural Appointments Wanted

**A.R.I.B.A. (27)**, married, requires position as Assistant in South Africa; experience includes surveys, specifications, design and construction. Box 24.

**PROSPECTIVE ARCHITECTURAL STUDENT** desires temporary employment with Architect (in or near London) until commencement of studies in September; age 21; ex-R.A.F.; knowledge of tracing, colouring, typing, and general office work. G. A. Trinder, 35, Hunters Grove, Romford, Essex. 88

### Other Appointments Vacant

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**AN ESTIMATING and COSTING SURVEYOR or ENGINEER** is required by old-established Civil Engineering and Building Contractors in the Essex/London area, engaged mainly on factory construction, extension and maintenance; experience is required in estimating for Civil Engineering, as well as building work, but management of the contracts is not one of the duties; salary about £900, depending on experience and ability; the appointment is pensionable, and assistance will be given, if required, in obtaining a house. Applicants should write, giving details of their age, education, qualifications and experience, to Box 2044, c/o Charles Barker & Sons, Ltd., 31, Budget Row, London, E.C.4. 720

**SECRETARY/SHORTHAND-TYPIST** for Staff Architect to large London company; salary £325 p.a. Reply, giving experience and appointments held, to Box 785.

**ASSISTANT QUANTITY SURVEYOR**; able to take-off and bill sub trades and measure up work; salary up to £325 per annum, according to qualifications (plus war bonus of £84 10s.), with good prospects of promotion; successful candidate will be required to pass a medical examination for entry into compulsory Superannuation Scheme. Applications, stating age, qualifications, and experience, to be addressed to C.W.S., Ltd., Architect's Department, 1, Balloon Street, Manchester, 4. 762

**ESTIMATOR and SURVEYOR**—Building and contracting Firm in North have vacancy for experienced Estimator and qualified Quantity Surveyor; only first-class man need apply, stating age, experience, enclosing copies of two references; remuneration would be on salary and commission basis; excellent prospects.—Box 785.

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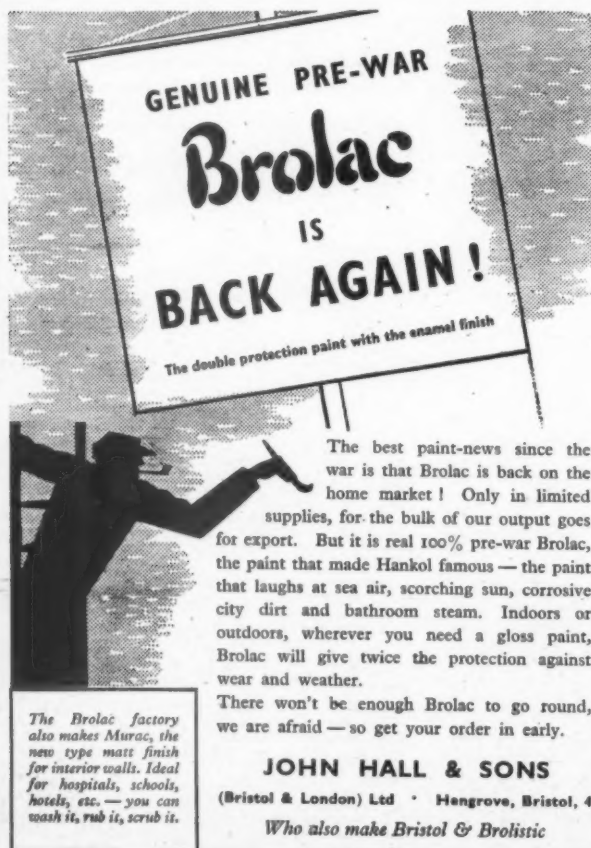
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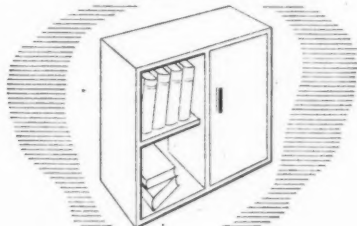
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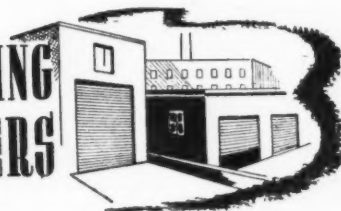
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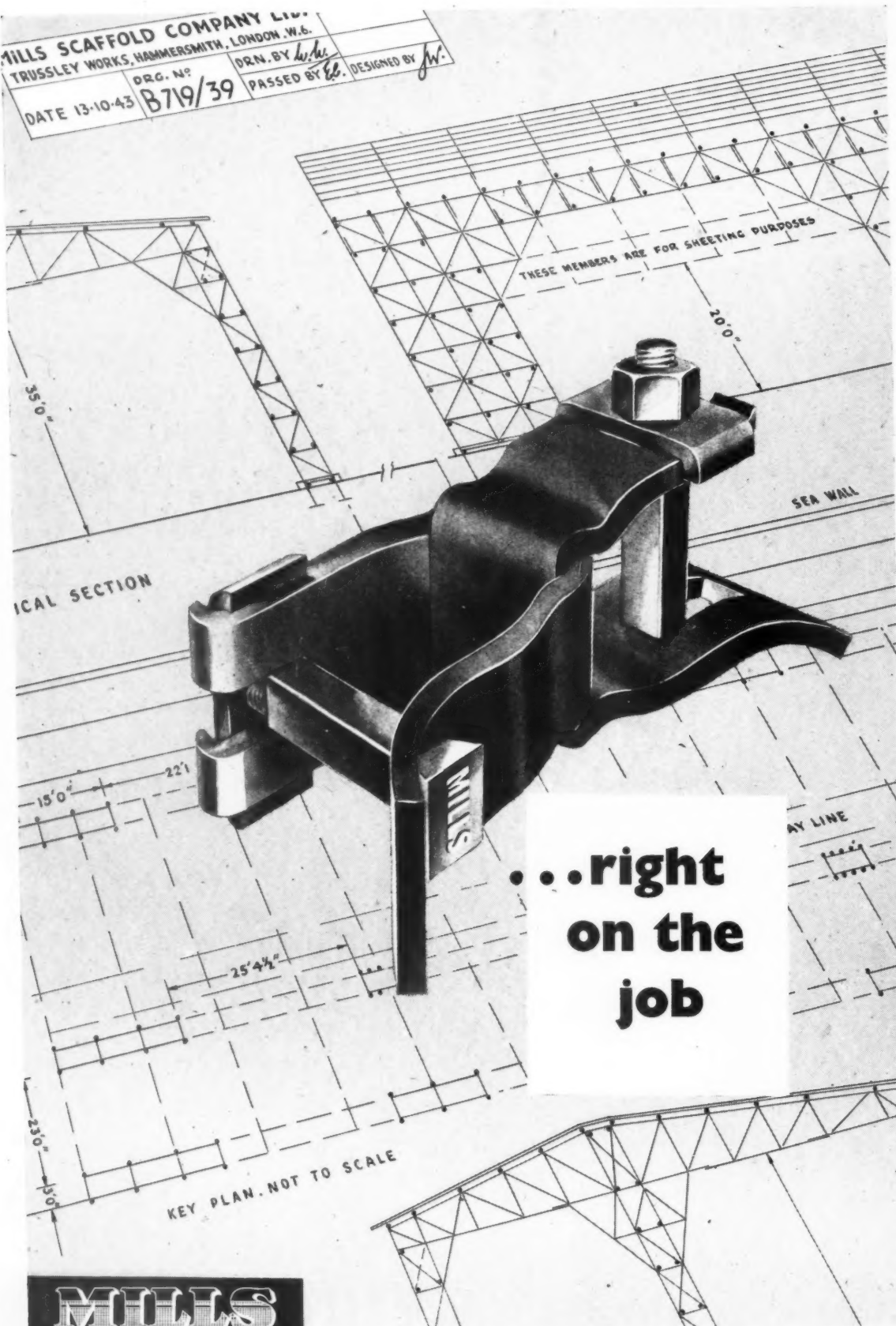
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