

STACK

The Architects' JOURNAL for November 13, 1947

THE ARCHITECTS' JOURNAL

DEC - 31 1947



standard contents

every issue does not necessarily contain
all these contents, but they are
the regular features which
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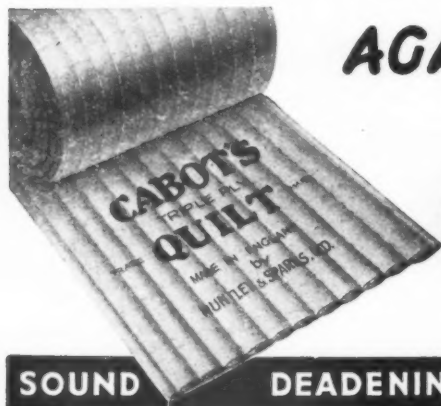
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to H one week, I to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Welbeck 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1. Euston 2158-9	
ArchSA	Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 14.	Ardwick 3480
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761 Welbeck 5721
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Reliance 7611, Ext. 1706
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Mayfair 8641/6
BC	Building Centre. 9, Conduit Street, W.1.	Regent 3613
BCCF	British Colour Council. 28, Sackville Street, W.1.	Perivale 6869
BCIRA	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Redditch 716
BDA	British Cast Iron Research Association. Alvechurch, Birmingham.	Abbey 5422-3
BDA	British Door Association. 25, Victoria Street, S.W.1.	Temple Bar 9434
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Sloane 4554
BGC	British Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 8266
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford	Garston 2246
BSA	British Steelwork Association. Eggington House, Buckingham Gate, S.W.1.	Victoria 7301-2-3 Mayfair 0515
BSA	Building Societies Association. 14, Park Street, W.1.	Abbey 3333
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A. Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Regent 3074
CIAM	Congrès Internationaux d'Architecture Moderne. Doldental, 7, Zurich, Switzerland	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 7070
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUJC	Coal Utilization Joint Council. 54, Victoria Street, S.W.1.	Victoria 9851
DIA	Design and Industries Association. 9, Conduit Street, W.1.	Mayfair 5432
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EC	Electricity Commission. Savoy Court, Strand, W.C.2.	Temple Bar 7565
EJMA	English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Whitehall 9606
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association. Stapleford Road, Trowell, Nottingham.	Ilkeston 623/4/5
FLD	Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837 Sloane 2844
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881



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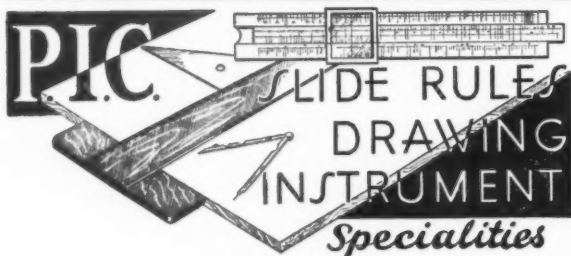
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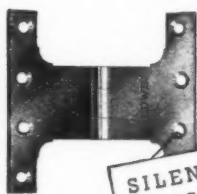
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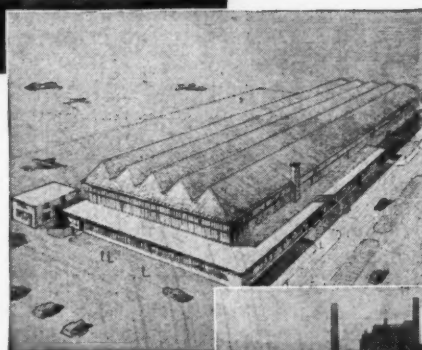
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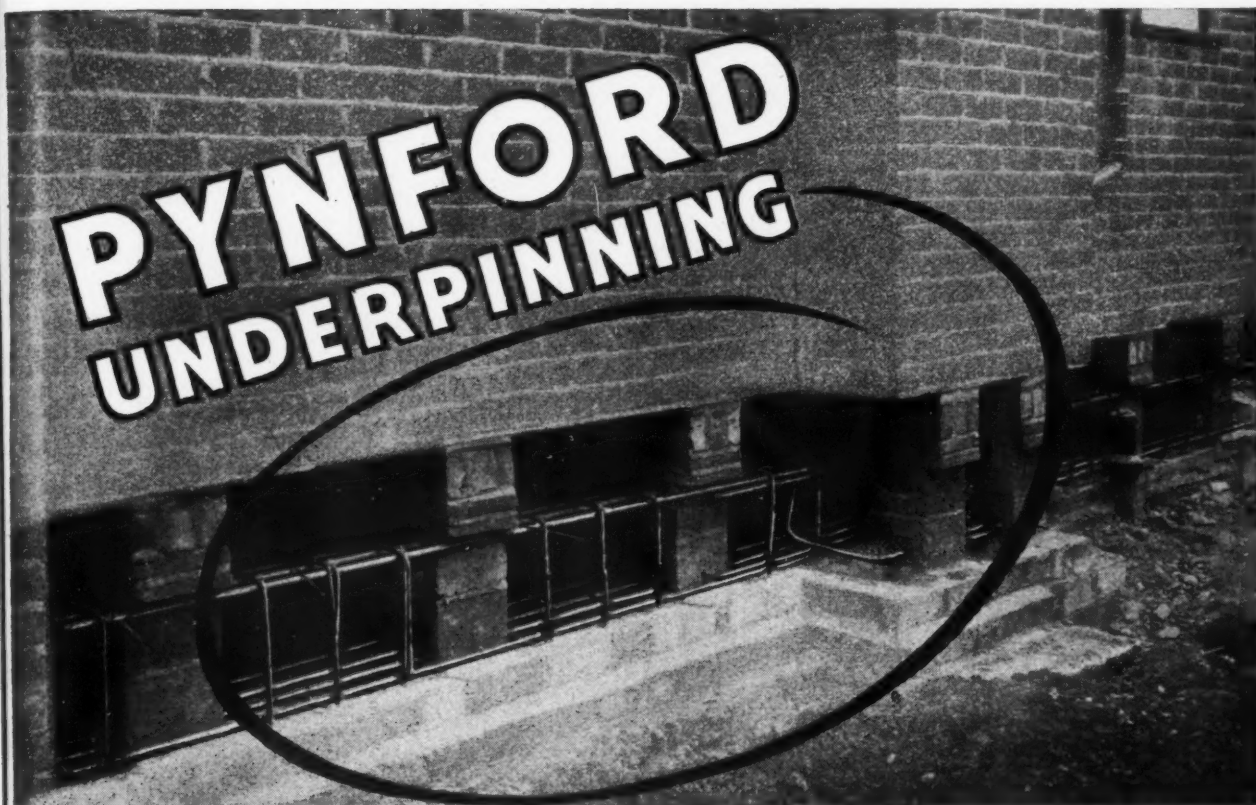
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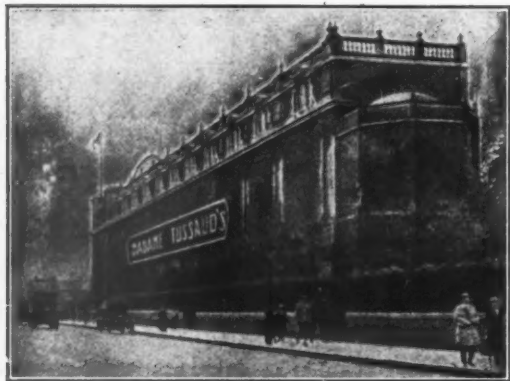
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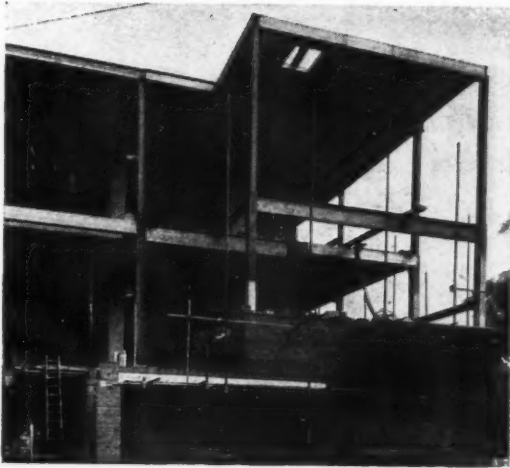
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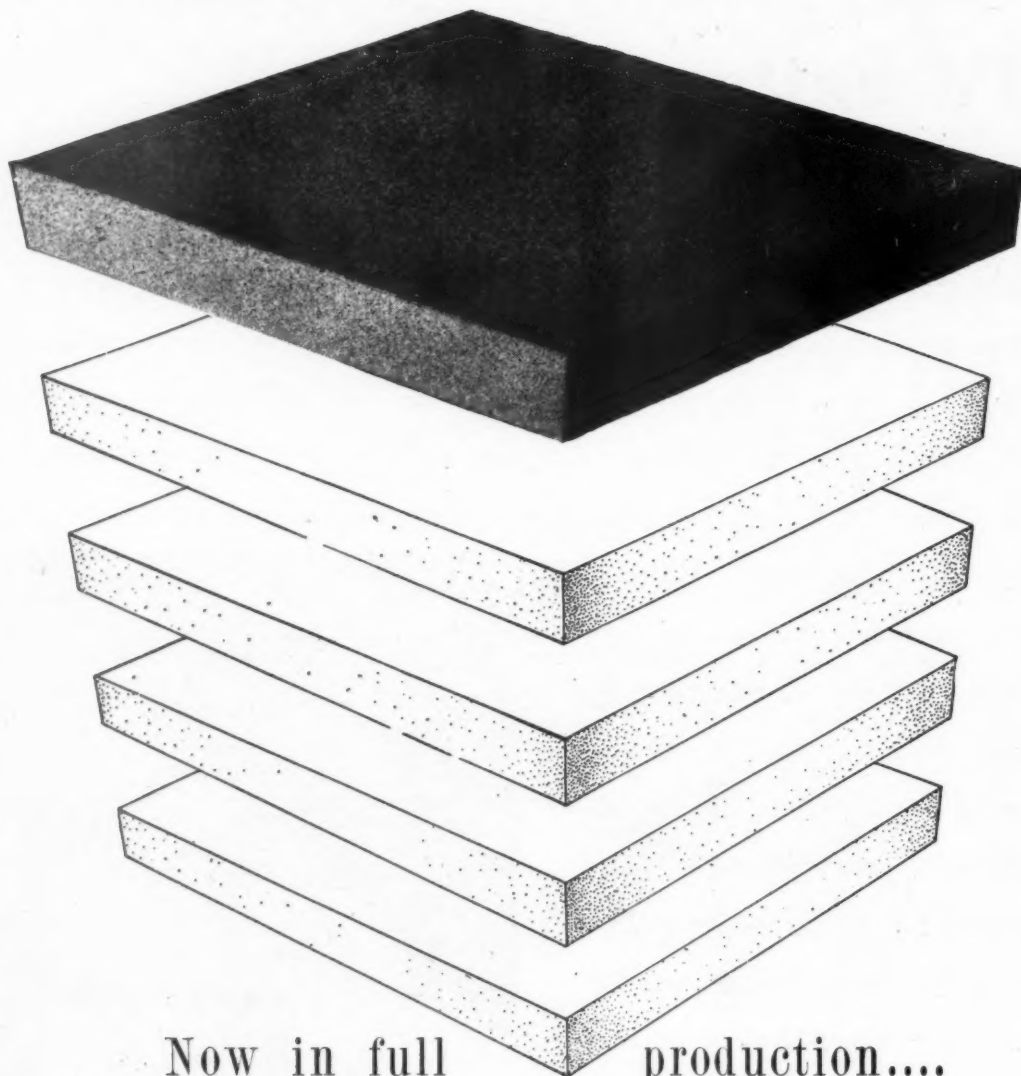


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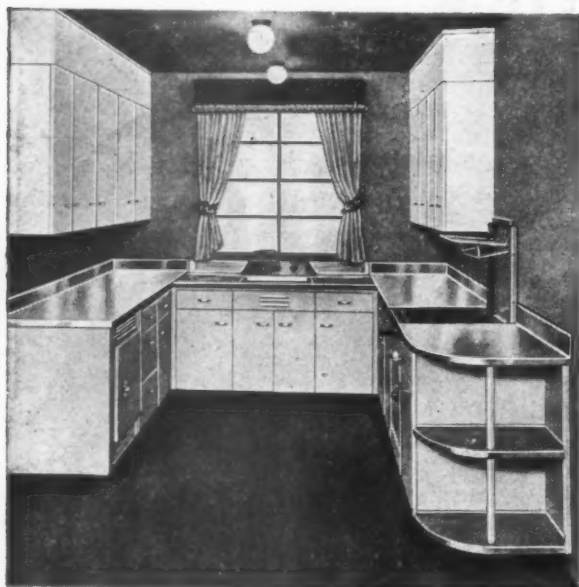
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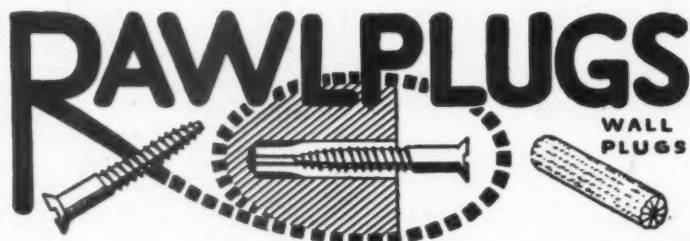


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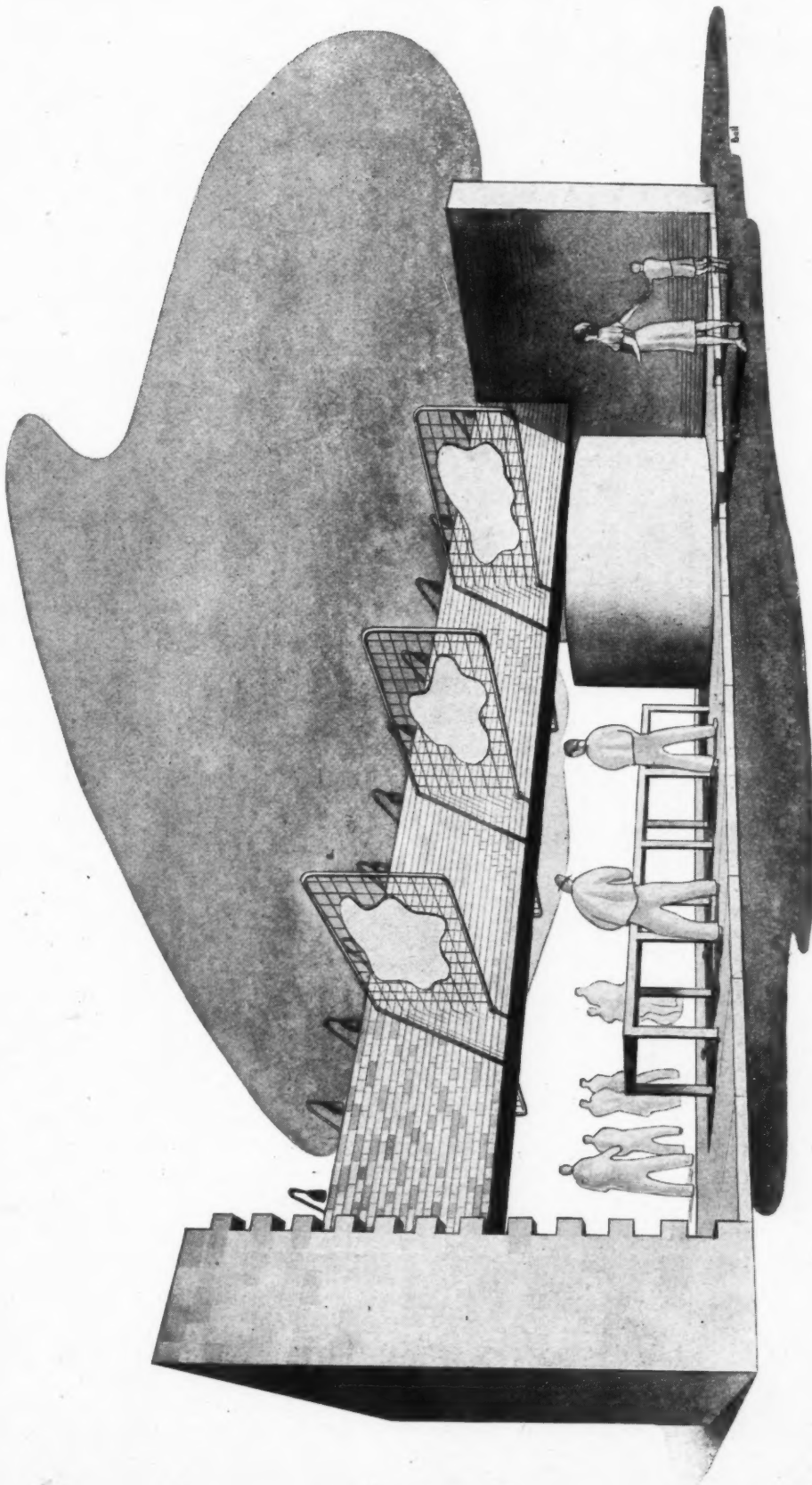
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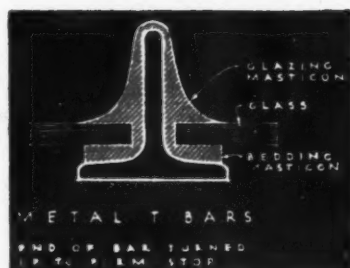
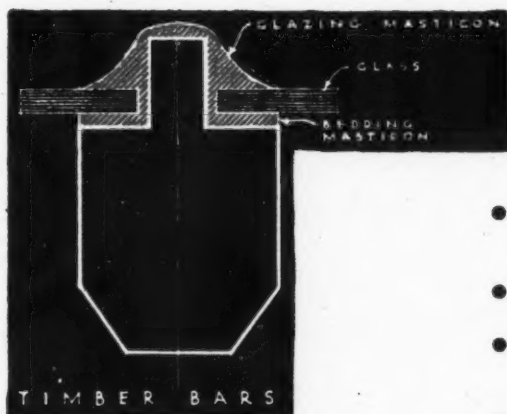
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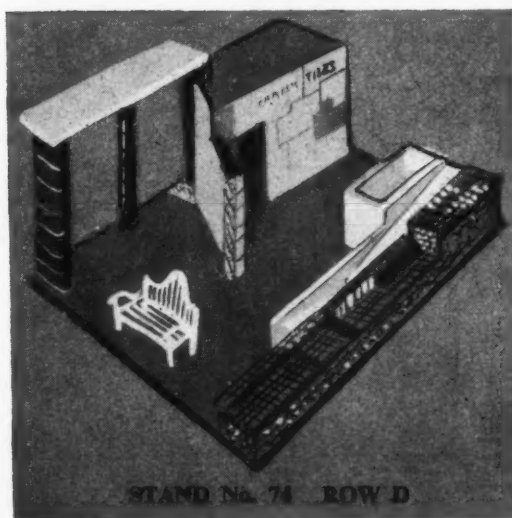
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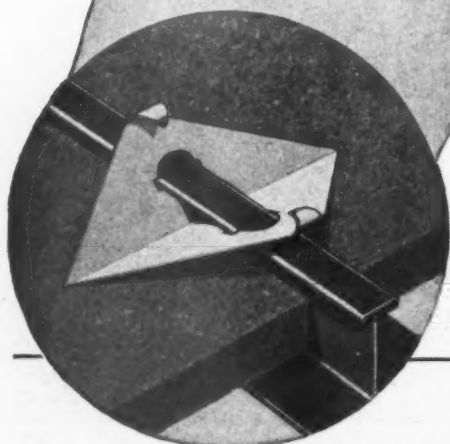


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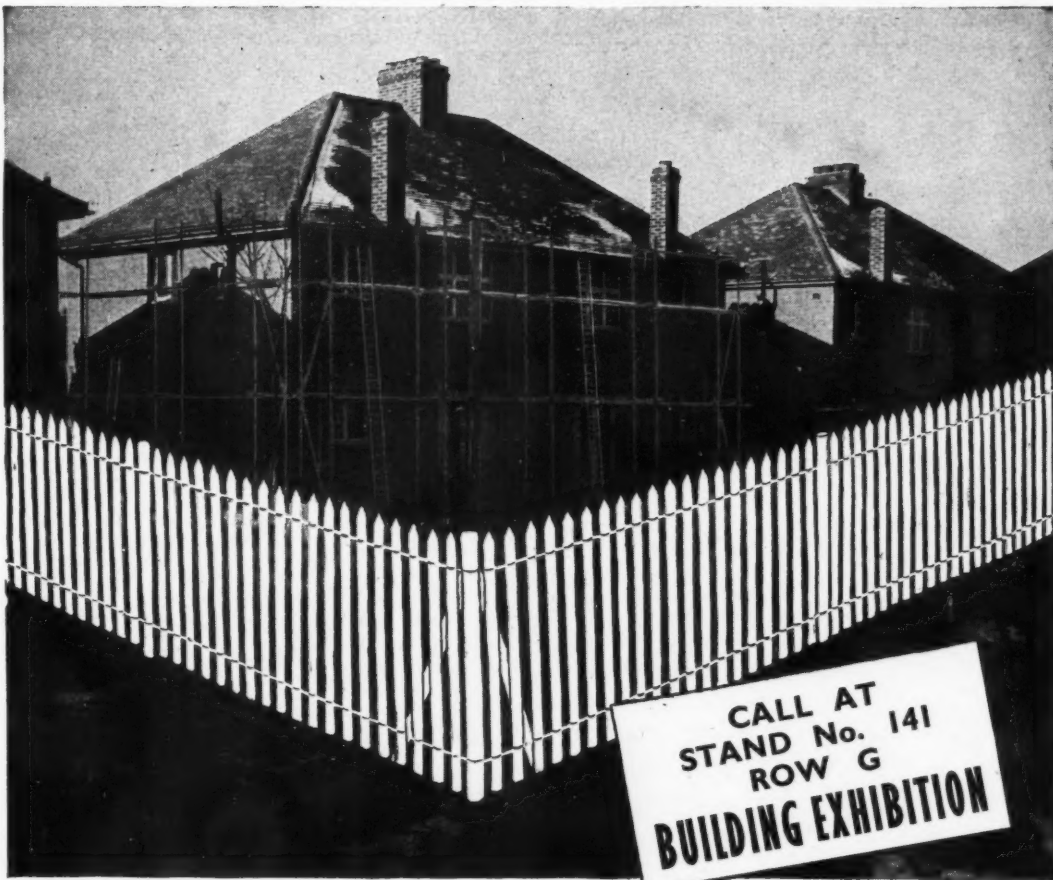
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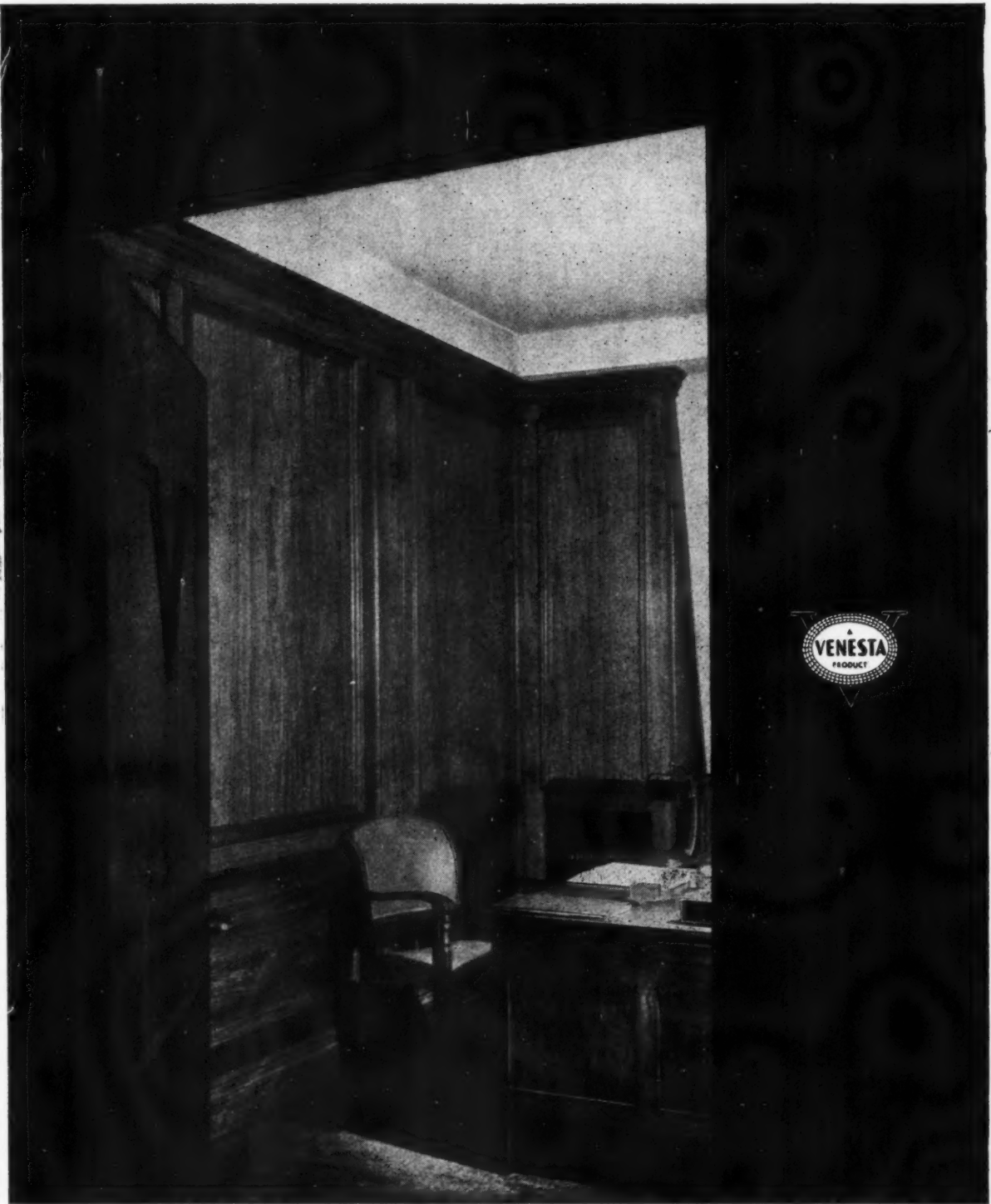
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1947

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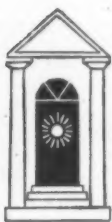
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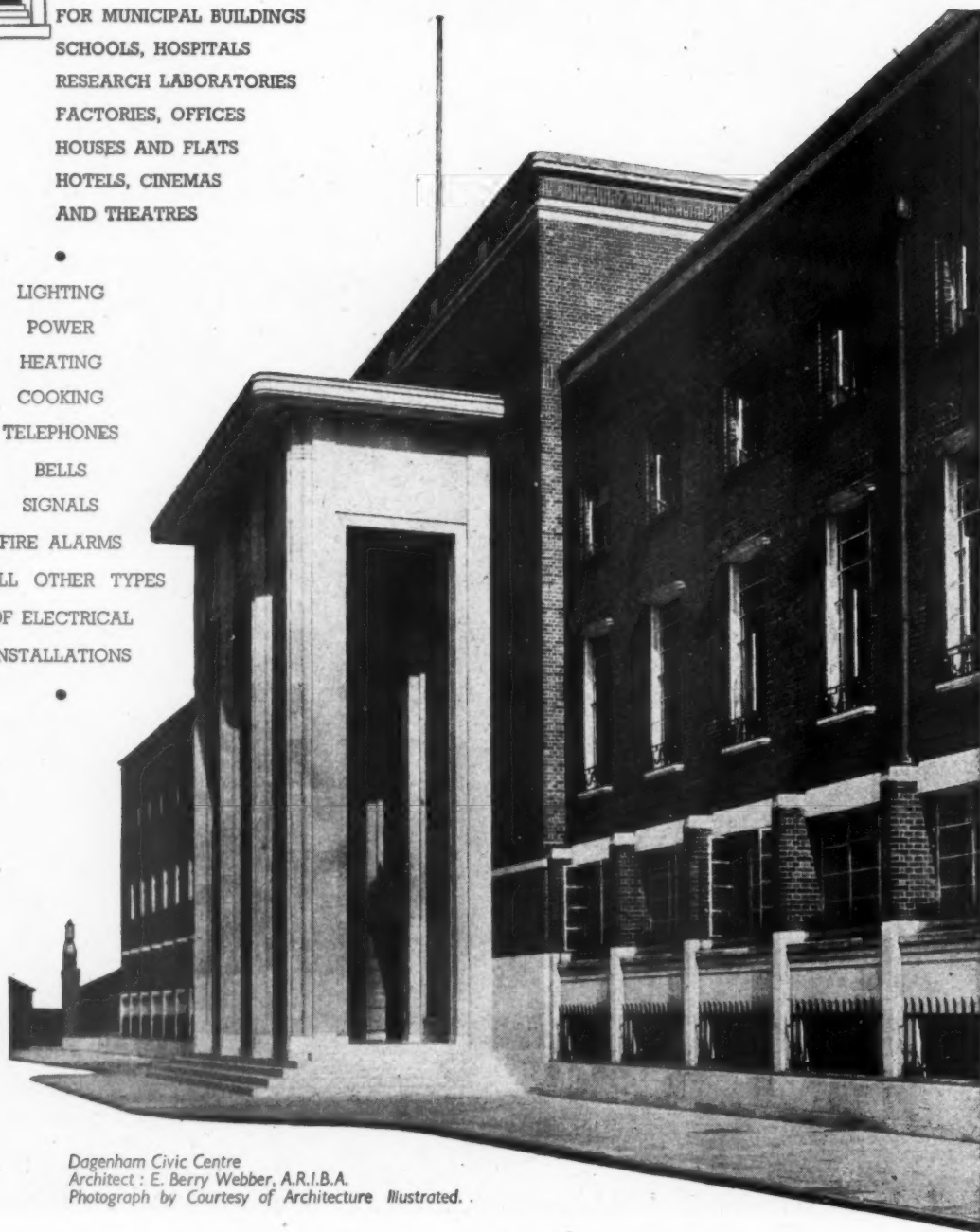
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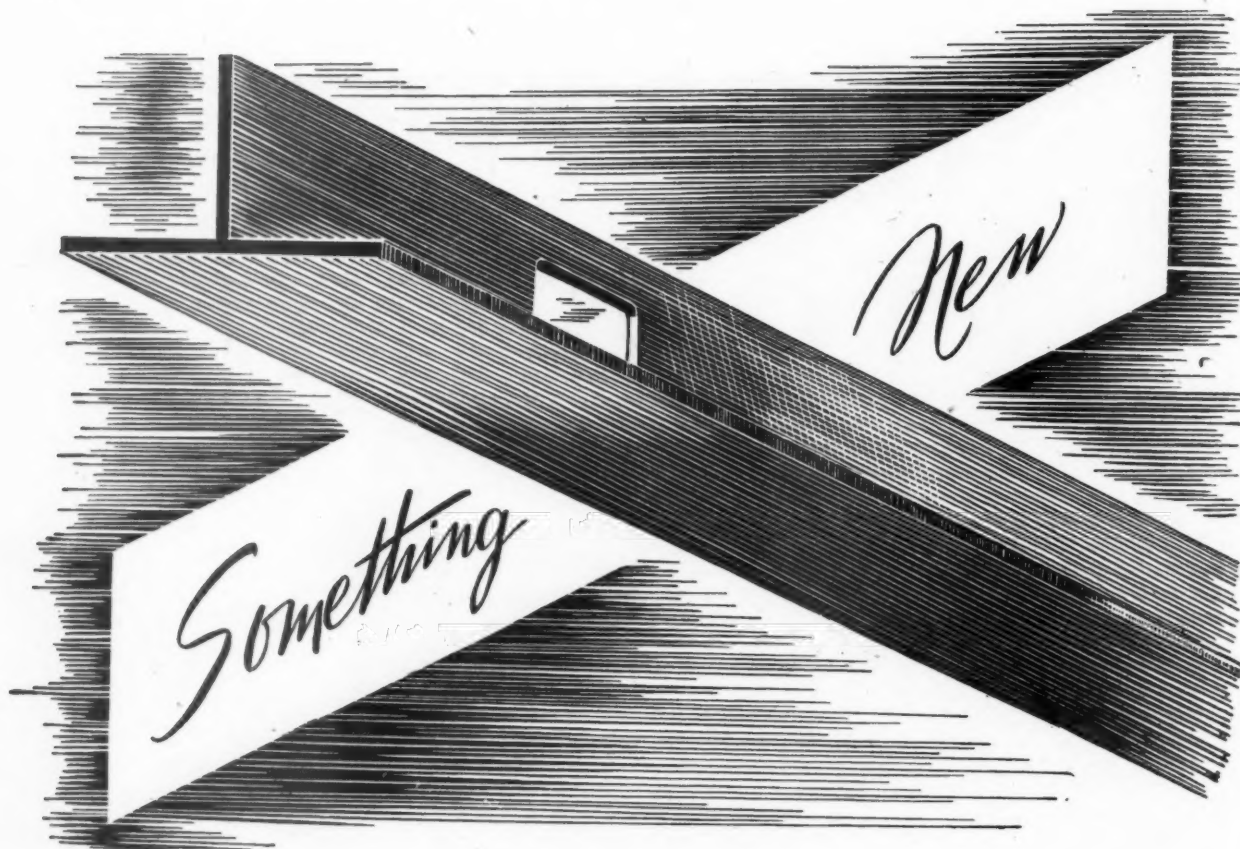
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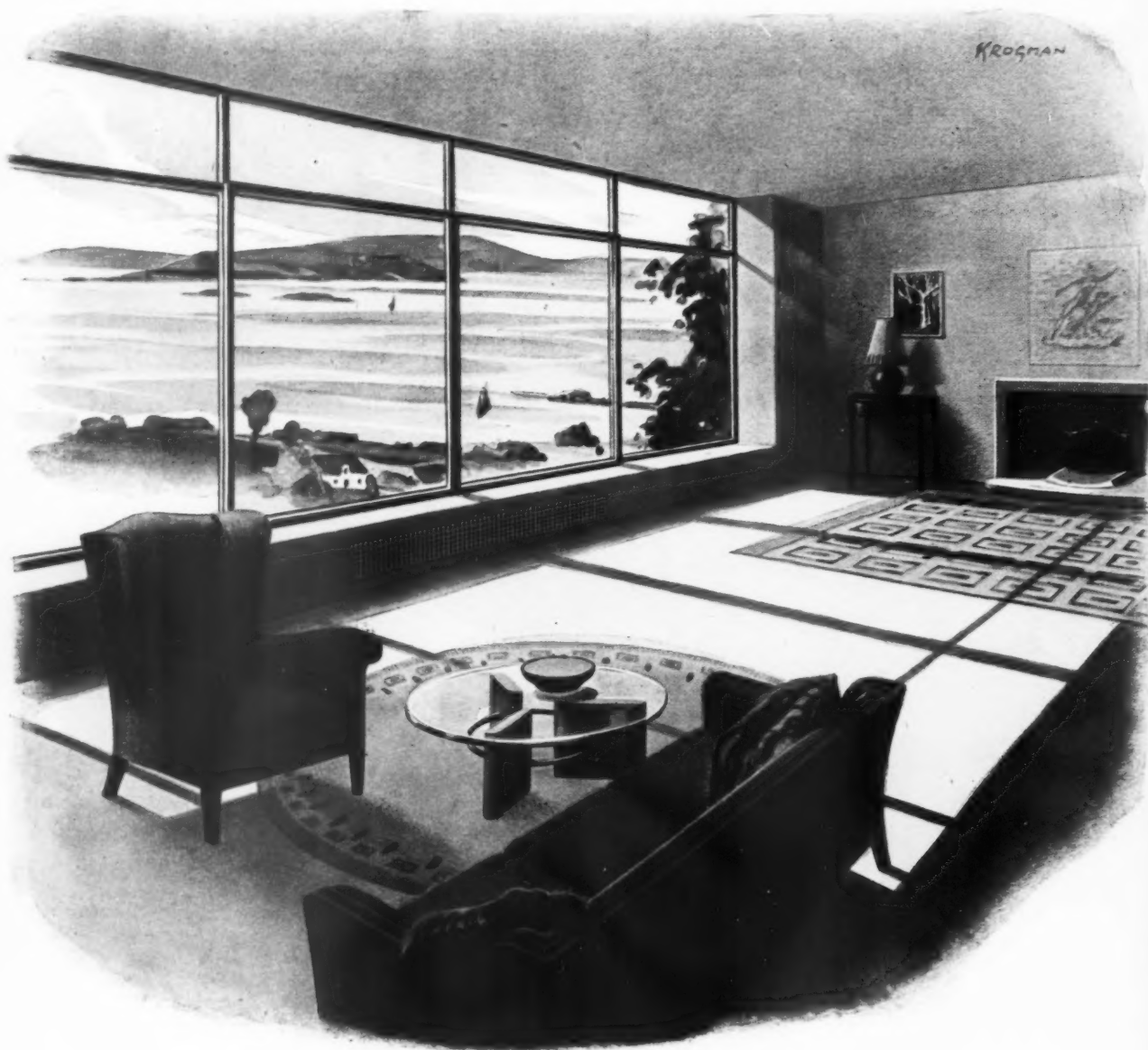
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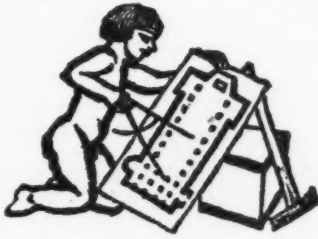
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DIARY FOR NOVEMBER DECEMBER AND JANUARY

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.

FOLKESTONE. *Fourth Building Congress.* At Leas Cliff Hall, Folkestone. (Sponsor, BINC.) Admission 1 guinea. Nov. 18 and 19

HENLEY. *Ideas on Design in the Home.* At the Wessex Electricity Showrooms. Guide lecturer: Miss Kapp. (Sponsor, ACCB.) Nov. 18-22

LONDON. *Woman's Fair Exhibition.* At Dorland Hall, Regent Street, S.W.1. (Sponsor, "Woman.") UNTIL Nov. 22

Exhibition of Members' Sketches. At the Architectural Association, 36, Bedford Square, W.C.1. (Sponsor, AA.) UNTIL Nov. 21

Inland Waterways Exhibition. At Heal's, 196, Tottenham Court Road, W.1. (Sponsor, Inland Waterways Association.) UNTIL Nov. 22

Town Planning Institute General Meeting. The President, Mr. J. R. Howard Roberts to deliver his Presidential Address. In the Assembly Room at the Central Hall, Westminster, S.W.1. 5.30 p.m. Nov. 13

Dr. O. Bondy. *Recent Trends in Structural Welding.* At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6 p.m. Nov. 13

John Summerson. *Medieval London.* At the Highgate Literary and Scientific Institution, South Grove, N.6. (Sponsor, DIA.) 8 p.m. Nov. 13

C. Grenfell Baines and Tom Mellor. *Substitute Materials and their Influence on Design.* At 66, Portland Place, W.1. (Sponsor, RIBA Architectural Science Board.) 6 p.m. Nov. 18

Ashley Havinden. *The Effect of Advertising on Commercial Design.* At the Royal Society of Arts, John Adam Street, W.C.2. (Sponsor, RSA.) 4.30 p.m. Nov. 17

Twenty-Second Building Exhibition, at Olympia. (Sponsors, H. Greville Montgomery, A.R.I.B.A. (HON.) and Hugh R. C. Montgomery, M.C.) Nov. 19-DEC. 4

H. Edward Newman. *The Internal Planning of the Home.* At the Planning Centre, 28, King Street, Covent Garden, W.C.2. (Sponsor, TCPA.) Buffet lunch, 12.45 p.m. Talk, 1.15 p.m. Nov. 20

James Gardner. *Exhibition Display.* At the Royal Society of Arts, John Adam Street, W.C.2. (Sponsor, RSA.) 4.30 p.m. Nov. 24

Dr. Nikolaus Pevsner. *The Picturesque in Architecture.* At 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. Nov. 25

R. A. Cordingley, Professor of Architecture, Manchester University. *Originality in Italian Renaissance Architecture.* At the Royal Society of Arts, John Adam Street, W.C.2. (Sponsor, RSA.) 2.30 p.m. Nov. 26

E. J. Smith, President of the NFBTE, *Present-day Problems of the Builder.* At 12, Great George Street, S.W.1. (Sponsor, RICS.) 5.30 p.m. Nov. 26

T.U.C. Memorial Building Competition. Site: Great Russell Street. Assessor: Sir Percy Thomas. Premiums: £2,000, £1,000, £500. Conditions and plan of site from General Secretary, Trades Union Congress, Transport House, Smith Square, S.W.1, on payment of deposit, two guineas, to be refunded on receipt of a design or return of the Conditions within one month after the receipt of Answers to Questions. Last day for Questions, December 1. Last day for receiving designs, May 31, 1948. DEC. 1

AA Centenary Celebrations. December 17. Reception, 11.30 a.m. Opening of the Exhibition illustrating the history and activities of the AA during the past 100 years. Speakers include Sir Ernest Pooley, Chairman of the Arts Council of Great Britain. At 36, Bedford Square. 2.30 p.m. *President's Reception and Dance.* At 66, Portland Place. 8 p.m. Tickets, 2 guineas. AA students, 1 guinea. Dec. 18. *Commemorative Service.* At St. George's Church, Bloomsbury. 11 a.m. *Conference.* At 36, Bedford Square. 2.45 p.m. *Entertainment of Delegates by British Council.* 5.30 p.m. *Gala performance of Student's Pantomime.* At 66, Portland Place. 8 p.m. Dec. 19 *Organised tours for Delegates.* London and Home Counties. Morning and afternoon. *Dinner in honour of Delegates.* Given by the President and Council. At 36, Bedford Square. 7.30 p.m. DEC. 17-19

MAIDSTONE. E. H. B. Boulton. *Timber—its Properties, Defects, Preservation and Uses.* At Maidstone Technical Institute, Tonbridge Road. (Sponsor, South-Eastern Society of Architects, Tonbridge Wells Chapter, Maidstone Group.) 7 p.m. Nov. 19

MANCHESTER. *Exhibition of Designs and Textiles.* By the SIA. At the Colour, Design and Style Centre of the Cotton Board, 19, York Street. Exhibits include printed and woven furnishing fabrics and designs on paper. (Sponsor, Cotton Board.) UNTIL Nov. 29

N E W S

THURSDAY, November 13, 1947
No. 2753 Vol. 106

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The Industry. By Philip Scholberg 439

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.

Sir Miles Thomas, vice-chairman of the Nuffield organisation, disclosing details of schemes for industrial developments in Africa, spoke of building a DAM WALL ACROSS THE ZAMBESI.

A plan for the production of sero-chrome steel, in which John Brown and Firth Brown, of Sheffield, and the Northern and Southern Rhodesian Governments were interested, he said, involved building a 300-ft. dam wall across the Zambezi. This would make possible the development of 750,000 kilowatts of electrical energy and, at the same time, would hold 53,000,000 acre feet of water in check—sufficient to irrigate and bring into production tens of thousands of acres of hitherto bare veld.

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THE STREETS OF ST. PETERSBURGH. [From Russia Illustrated, by Linney Gilbert.] These streets are in general wide, and very regular, running in straight lines, but intersecting each other at different angles; thus varying the tiresome monotony of some of the streets in the continental cities, and of the modern towns in the United States. There are six or eight of the streets which are about 6,062 feet long; and there are two or three even longer, the principal of which is called the Nevskoi Prospekt, and another called the Great Perspective in the Vassileiostrow, one of which is 14,350 feet and the other 10,220 feet in length. The name of Perspective (prospekt) is applied to several of the streets in St. Petersburg, not because they all look towards one great object (the Admiralty) as it is generally supposed, but from their analogy to those extensive avenues which lead to the country residences of the great in Italy, and are called Vista, or Prospettiva. They have large and broad foot-paths (introduced by the Emperor Alexander, who probably took the hint from his visit to London in 1814), and at the end of every street there is a sentry box for a policeman.

★★

The Council of the University of Liverpool has appointed Mr. Gordon Stephenson, Chief Planning Officer (Planning Technique) in the Ministry of Town and Country Planning, to the LEVER CHAIR of CIVIC DESIGN.

Mr. Stephenson, who is 39 years of age, received his education at the Liverpool Institute, and the Liverpool School of Architecture. He was awarded the degree of B.A.R.C.H., with Honours in Architectural Design, Class I, in 1930. In the same year, he was a finalist in the competitions for the Tite Prize, the Victory Scholarship and the Rome Scholarship. From 1932, he worked for a short time with Sir Lancelot Keay, Director of Housing, Liverpool, and later he was appointed Lecturer and Studio Instructor at the Liverpool School of Architecture, a post which he held until 1936, when he was awarded a Commonwealth Fellowship at the Massachusetts Institute of Technology, USA. At this Institute he carried out research work in housing and town and country planning, and was awarded the degree of Master in City Planning. On returning to this country in 1939, he was appointed Studio Master at the Architectural Association School of Architecture, and conducted a limited amount of private practice. In 1942 he was appointed to a post in the Ministry of Works (Reconstruction Group). His work with the Ministry has included research in planning technique and planning standards relating to the new planning system; assisting Sir Patrick Abercrombie in the preparation of the Greater London Plan; the preparation of manuals on planning technique; technical advice in the department and to local authorities; and preparation of the plan for the first New Town at Stevenage.

★

PRINCESS ELIZABETH, who became President of the Royal Society of Arts this year, took the chair at the opening meeting of the society's 194th session.

After replying to an address of welcome by the Chairman of the Council, Sir Harry Lindsay, the Princess declared open again the society's lecture-hall, now restored to its former beauty after having suffered severe damage from a German bomb in 1941, and presented diplomas and silver medals awarded by the society. Speaking of the society's work in the field of industrial design, she said the spacious days were gone; it might well be long years before we could again afford to devote such leisure and energy as did our forefathers to things purely decorative. But we should be defeatist

and unimaginative indeed if we concluded that, because nearly everything we produced to-day must be severely practical, it must also be without taste or beauty. A nation whose level of good sense in art was once reflected in the furniture of Chippendale and Hepplewhite, and in the domestic architecture of the eighteenth and early nineteenth centuries, could not rest content with slavish imitations of foreign styles or with a simple faith in the virtues of streamlining. The awards presented by the Princess included the diploma of Royal Designer for Industry to Mr. James Gardner (exhibition design), Mr. Robert Yorke Goodden (general industrial design), and Mr. Ashley Havinden (commercial art). Honorary awards of the diploma were also made to Professor S. E. Rasmussen (Denmark) and to Professor Alvar Aalto (Finland), who was represented by the Finnish Minister.

The text has been published of the RIVER BOARDS BILL empowering the Minister of Health and the Minister of Agriculture and Fisheries to establish river boards with functions that cover land drainage, fisheries, and river pollution.

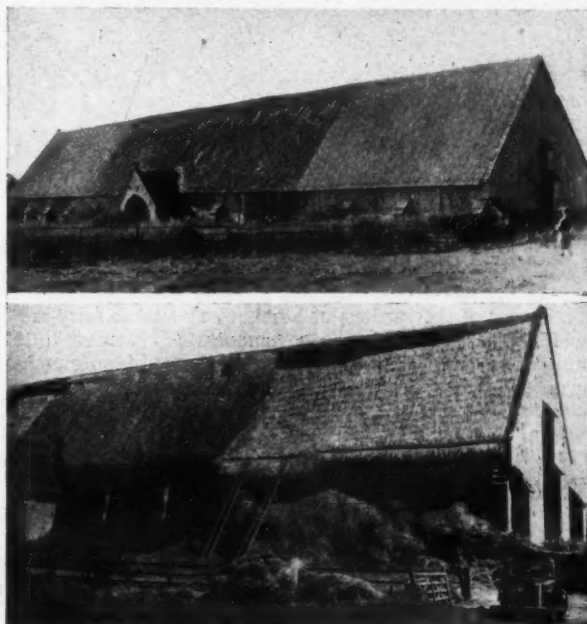
The Bill applies to the whole of England and Wales, except the Thames and Lee catchment areas and the administrative county of London. Scotland is not affected by the Bill except in relation to Border rivers and the Solway Firth.

★

Speaking at Welwyn on his proposal to set up a Development Corporation for Welwyn Garden City and Hatfield, Mr. Silkin, Minister of Town and Country Planning, said that in spite of the crisis the NEW TOWNS POLICY will go on.

No priority would be given to new towns over any other form of housing, but much preparatory work would be allowed to continue. Of Welwyn Garden City Mr. Silkin said that under development by the private company the ratepayers were being called on to provide services for an additional job at their own expense. The Development Corporation will be empowered to provide finance so that no unfair burden is placed on existing ratepayers. When the corporation is wound up the local authority will acquire its assets—land and buildings. See Astragal's comment and AJ last week.

The roof of the huge tithe barn at Tisbury in Wiltshire has recently been rethatched. The barn which is 188 feet long, probably ranks among the six greatest in England. Originally it was part of the 15th Century Place House which was the Grange of the Abbess of Shaftesbury. All that remains of Place House today are the two gate houses and the barn. Top, a general view of the barn; bottom, rethatching in progress. The car contrasted with the barn markedly indicates its immense scale.





Just for Fun

In a corner of the gardens of Stockholm's superb fairy-tale town-hall lies, carved in the pavement, this charming little fountain by Tore Munthe. It represents Poseidon clutching in his hands the rich sea food of his realm. Water bubbles from his ripe lips and courses over his well-fed

features. For the love of the pagan gods, may the world's abundance soon be enjoyed again, so that through its release we may once again enrich our buildings, as Ostberg's masterpiece was enriched, just for fantasy and fun. The photograph was taken by Eric de Maré.

The most comprehensive exhibition of WORKS BY VAN GOGH ever to visit this country will be opened at the Tate Gallery on December 10.

This exhibition, which has been organised by the Arts Council of Great Britain, will contain about 100 paintings and nearly 80

drawings, including watercolours. In the main the pictures come from two famous collections—the Kröller-Müller Museum (by permission of the Dutch Government) and the private collection of Vincent W. Van Gogh, the artist's nephew. A number of famous and important pictures already in this country will be added to the exhibition, notably seven from the Tate Gallery. The

Louvre, Paris, and the Courtauld Institute are also lending important portraits, and the National Gallery of Scotland has contributed a fine landscape. After remaining open for five weeks in London, the exhibition goes to Birmingham Art Gallery from January 24 to February 14, and will then be on view in the Glasgow Art Gallery from February 21 to March 14.

Details of the work of RESTORING THE FABRIC OF CANTERBURY CATHEDRAL were given at the annual meeting of the Friends of Canterbury Cathedral.

The Archdeacon of Canterbury said the work that had been done so far to the warriors' chapel was transforming it in appearance. The exterior of the great cloisters was decaying rapidly and £500 was required for each of the 36 bays. For regular structural repair work to the whole fabric £125,000 was needed. See also A.J., July 10.

The Minister of Town and Country Planning has granted Dover Town Council their application for a DECLARATORY ORDER TO FACILITATE TOWN PLANNING for 150 acres of the town.

The area includes the sea front and the main shopping centre. Originally the corporation had applied for 250 acres of the central valley of the town to be included in the order.

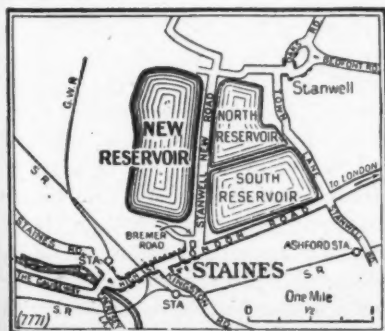
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The War Office has asked the Ministry of Town and Country Planning to advise on the reception likely to be given a proposal to establish a SMALL-ARMS RANGE IN DOVEDALE.

The regional office of the Ministry has approached local interests, and already the strongest opposition has been expressed. The authorities seek to buy 570 acres stretching northwards along either side of the Dale.

The King has opened the Metropolitan Water Board's NEW RESERVOIR AT STAINES.

This new reservoir lies immediately to the west of the two original reservoirs at Staines, and will be served by the same intake, pumping station, and aqueducts. Its capacity is 4,466,000,000 gallons. From north to south it is 2,037 yards long, and its width varies from 722 to 962 yards. The area of the water surface is 350 acres. The distance round the top of the bank is more than 3½ miles, and the average depth of water will be 52 ft. Over 6,250,000 cubic yards of material were excavated and removed in making the concrete-faced embankment. The engineer for the construction of the reservoir was Sir Jonathan Davidson.



LAND CLASSIFICATION

OFFICIAL action has followed but slowly behind the oft repeated demands for a national development plan. There is as yet no machinery for developing our national economy on a sound regional basis. The new responsibilities of the county planning authorities are no substitute for a plan for agricultural as well as industrial and urban development. The first steps have, however, been taken in the new Town and Country Planning Act, and those responsible for preparing proposals will need the data upon which to base them.

It is true that the Soil Survey, over which the Ministry of Agriculture maintains a fatherly eye, has evolved new principles of classification which permit of mapping in the field, and will eventually provide basic information on the physical quality of the land. This scheme will, however, not be completed for years and the need for a sound knowledge is urgent.

The Western Midland Group on Post-War Reconstruction and Planning as well as the Bristol Reconstruction Research Group, have now published the results of surveys they have made in an attempt to solve the problem of assessing the qualities of rural land. The West Midland Group, with the help of soil scientists, have devised a system of classification based on the physical factors of soil and site. The same scheme was adopted at Bristol.

These surveys have found it difficult to restrict themselves to the Major Categories 1, 2 and 3 (Good, Medium and Poor quality land), and have in their mapping shown considerable areas having an intermixture of two categories "which could not be mapped in detail without considerable labour." This inability or unwillingness to map in detail greatly reduces the value of the data provided and, in fact, the National Atlas maps, published to a much smaller scale by the Ordnance Survey, have been able to include much more detail. It also seems odd that though both surveys have been assisted by the same soil surveyor, there should be disagreement there about the nature of the land along common county borders.

It is greatly to be regretted that the system of classification could not have been reconsidered as it is clear that the categories used mask very real differences in quality. For example, Major Category II, Medium Quality land, includes such varied areas as part of the well-known strip of market-gardening land on the Upper Greensand east of Westbury, the water meadows of the Wiltshire Avon, the lowlands of much of the Severn estuary, much of the intensively cultivated market gardening area of the Vale of Evesham, parts of the Cotswold plateau at over 1,000 feet, and the rich fattening pastures of East Worcestershire and the majority of the richest grasslands in Somerset. The mapping scheme adopted does not allow the indication of the character of the land as well as its quality.

The scheme rejects consideration of the historical and economic

factors which it admits play such an important part in determining the value of our land. These factors were taken into account in Professor Stamp's scheme, now officially adopted by the Planning Branch of the Ministry of Agriculture. No one disputes that our all too limited areas of market garden land produce very heavy crops of fruit and vegetables, but planners will become impatient while experts argue that, because the special qualities which many of these market garden soils possess are largely due to the cumulative effect of good cultivation and management, they can only be ranked as medium quality.

Interesting though the work of the two groups is, it is no substitute for the short-term version of the work of the Soil Survey. This most valuable work still remains to be done.



The Architects' Journal

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1
Phone: Whitehall 0611

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

WELWYN'S FUTURE

Last week I congratulated MOTCP on its decision to issue occasional bulletins setting out the principles which governed appeal decisions. This week one cannot congratulate it on its explanation of why the Minister wants to set up a Development Corporation for Welwyn and Hatfield. In fact, in so far as any reasons have been given, they seem unconvincing.

Probably every architect and planner in the country has sometimes poked fun at Welwyn Garden City, yet I think there must be very few who have not an admiration for what Welwyn stands for and what has been done there. And when one reads, for instance, in Osborn's *Great Belt Cities*, of the company's difficulties, of how they stuck to their beliefs and inched their way along with a minimum of money, one's admiration becomes very great.

One would therefore have thought that Mr. Silkin would have determined to

keep Welwyn under its existing management as a yardstick by which to measure the progress and methods of his own new towns, and would have found ways to provide money for its proper development without interfering with existing control, thus ensuring competition on level terms. But this is not to be; Welwyn and Hatfield are to come under a Development Corporation. There may be something in the Minister's point that the development of Welwyn and Hatfield should be considered as one problem. On the other hand, it has been suggested in *The Times* that a main reason for the proposed change is the Minister's view that no private company, however public spirited, should be able to control the development of a town. To sacrifice the Welwyn Company to this principle would seem very odd.

HONOURING SIR CHARLES REILLY . . .

You will have read in last week's AJ the letter appealing for subscriptions to the proposed Reilly scholarship. Some of you may not have seen the letter to *The Times* which launched the appeal and was signed by such distinguished varieties as Augustus John, Patrick Abercrombie, Julian Huxley and Diana Wynyard—proof, if this were needed, that Sir Charles has other interests besides architecture. His principal occupation, however, happily enough, remains the same—the Honorary Chairmanship of Liverpool Unlimited, perhaps the most powerful, unbreakable and beneficial cartel operating in this country to-day. Few people realise to what extent they are affected by the highly trained executives of this Trust. Central and local government offices, old cities and new towns, both in England and the

Empire, to-day spread and flourish beneath those skilful pencils whose first faltering strokes were originally guided by Sir Charles. Needless to say, the Reilly scholarship has the enthusiastic support of the AJ—which has at times vicariously experienced the glow of being treated as a member of the cartel—and we wish it all prosperity. How fortunate that the appeal is launched during Sir Charles' lifetime and thus can benefit, however indirectly, from his driving energy and enthusiasm.

. . . AND SIR EDWIN LUTYENS

No such happy fortune, alas, accompanies the equally deserving appeal for the Lutyens Memorial Fund. Every year since Sir Edwin died we become more and more conscious that not only have we lost a man of genius—a veritable peak in the range of England's great architects—but that we have also lost for good or ill, the economic and social set-up which made his achievements possible, so that his particular form of genius can never again be paralleled.

In case you missed the original announcement, the Lutyens Memorial is taking the form of a four-volume study of his life and work by Christopher Hussey, A. S. G. Butler and George Stewart. From what I have seen of this work it promises to be in every way worthy of the man whose work it commemorates. Subscribers to the Fund will receive a discount of 25 per cent. upon the cost of the books, and donations will be welcomed by Viscount Esher at 13, Mansfield Street, London, W.1.

MR. JOHN SUMMERSON, EX D.D.

The Sixth Annual Report of the NBR records a year of increasingly valuable work [somewhat restricted by lack of funds] and reveals the sad news that Mr. John Summerson, to whose initial energy and knowledge the NBR owes so much of its success, has been compelled, by pressure of work, to resign from his post as Deputy Director. Mr. Summerson, as we all know, hear and see, is a busy man. He lectures, he writes, he reviews books. He broadcasts on Gilbert and Sullivan, looks after a museum, and audits the RIBA accounts. All the same, we are very sorry to see him leave an institution of which he had become himself a

distinguished monument, and are only comforted by the knowledge that he is being succeeded by the best possible choice for the post, Mr. Cecil Farthing, the NBR's indefatigable librarian.

WHERE DO WE GO, VERMEER?

Everybody likes to see an expert confounded, and most of us enjoyed the recent trial of Van Meegeren, the Dutch picture-forgery, all the more for its glowing background of red faces provided by the deceived art-historians, critics and dealers. Newbolt's "Red Glare on Skiddaw" was nothing to the hot glow of embarrassment which linked Bond Street to the Rue de la Betie. You remember the story of how Van Meegeren, a skilful but second-rate painter, decided to achieve wealth by forgery. His first "Vermeer," painted in 1936, was bought by the Rotterdam Museum for £62,000. During the war he painted five "Vermeers" and two "de Hoochs." The sale of a "Vermeer" to Goering, however, proved to be his undoing and started a chain of inquiry which led to confession and arrest. At first he was not believed, but to prove his story he painted another "Vermeer" in the presence of witnesses. It took him two months, including the fake cracks, and he must have been comforted by the fact that the verdict of "guilty" which followed this display was as much a tribute to his skill as a condemnation of his fraudulence.

AUBREY BEARDSLEY

The announcement that the LCC is to erect a memorial tablet at 114, Cambridge Street, S.W., to commemorate the residence there of Aubrey Beardsley, is admirable if unexpected. Local authorities have the reputation of being as conventional in taste as they are nervous of indelicacy, and since to many people—and surely to most councillors—the name of Beardsley is synonymous with a faintly tittering and certainly un-English attitude to sex, it is surprising that the LCC has decided to admit him to that company of Men of Distinction whose mark of honour is not a glass of Lord Calvert Whiskey but a tin blue plaque.

Although Beardsley was once called by Whistler "a very great artist" [and burst into tears at the tribute], he is

remembered mostly for his brilliant book decorations [in which the Beardsley woman, a degraded version of the equally famous and equally goitre-necked Burne-Jones woman, made frequent appearances], and also for his faithful illustrations of the "ennui of sin."

As an artist he was sterile and over literary, but as an epitome of his period (the 'nineties) he is unrivalled—challenging, decadent, mannered and perverse. It is amusing to remember that for a short time between his career as a child musical prodigy and a fashionable illustrator, he worked in an architect's office. Had he proceeded in this profession, would he, I wonder, have become another Horta, and No. 114, Cambridge Street another 22, Rue de Turin? (See AJ last week.)

JAM TOMORROW?

In his introduction to an extremely catholic collection of photographs of contemporary British sculpture,* Mr. Eric Newton writes: "We have left the functional period behind us; our eyes, starved by years of austerity, begin to hunger for the richer surfaces and the more complex rhythms that only the sculptor can provide." Obviously there exist very real and exciting possibilities in an active collaboration between the contemporary architect with his highly developed sense of spatial relationships and the sculptor—equally concerned with three dimensional expression; but how long will it be before we have the opportunity of exploring such possibilities? In the meantime, the sculptor must, we suppose, continue to work for the collector, the garden, or at worst the mantelpiece, keeping his fingers crossed and hoping that when the time comes for the big carving he won't have become so obsessed with mantelpiece scale that he has forgotten the bold, steady statements which we have come to expect of the best contemporary work.

By the way, Mr. Tiranti, when next you produce one of your admirable little books, can't you somehow manage to arrange the titles on the same pages as the illustrations? I know things are difficult, but it is terribly irritating continually to have to turn back to an index to see who has done which.

ASTRAGAL

* *British Sculpture, 1944-1946*: John Tiranti Ltd., 6s.



LETTERS

M. Hartland Thomas,
M.A., F.R.I.B.A.

A. G. Stanwell

E. A. Down, F.R.I.C.S., F.F.A.S.

Roger Balkwill

The New Library of Information Sheets

SIR,—I am very glad to join in the chorus of congratulation upon the reappearance of the Information Sheets.

I am sure you will forgive me if I make one or two comments of criticism.

One of the chief advantages of the Information Sheets is that they put advertisers under a healthy discipline of providing information.

A striking example of what architects are up against in getting information out of manufacturers occurred the other day when we were enquiring about a method of acid-proof floor finish. The manufacturers supplied the usual descriptive literature which told us nothing except that they had a floor finish that they thought was good.

By chance we obtained full information upon their process, including drawings and performance figures from a BIOS Report of one of the investigations in Germany. This particular material was of German origin, so that the German end of it was open to investigation.

There is still much too much quite unnecessary secrecy in British industry. Supposedly valuable trade secrets are jealously guarded, whereas an open interchange of ideas would show many people that their secrets are no secrets really and that important improvements in their products could be made.

I hope you will be able to guide the policy of the Information Sheets back to the original spirit of the Burnet, Tait & Lorne book and provide critical or at least comparative information instead of single sponsored products at a time.

For instance, you show one aluminium patent glazing bar. What would be of value at the present time would be to show the whole range of different types drawn to the same scale on a single page and let architects make their own selection in particular cases.

Perhaps you will find this difficult in the arrangements for sponsoring the sheets.

In this respect I feel that the Library

degenerated somewhat from the original idea into thinly disguised advertisement pages, although the advantage of the single format was maintained.

For instance: In the sheet on isometric projection which is "compiled from information supplied by" a pencil company, it would be interesting to know what was the information upon isometric projection that it was necessary to go to a pencil company to obtain.

Another point: You have a different system for subject indexing the Information Sheets to that which you have launched for the Information Centre.

As you are so undecided yourself, we are not changing our system of subject indexing but are cutting out the Information Sheets and filing them according to our own arrangements.

I must add that in spite of my somewhat critical comments we do welcome the re-appearance of the Information Sheets and are certain that we shall find them very helpful.

London

M. HARTLAND THOMAS

The Editor of the Library of Information Sheets replies:—Mr. Hartland Thomas's observations on unnecessary secrecy in British industry will be appreciated, no doubt, by many architects, but his later remarks—more directly relevant to Information Sheets—demand comment if misunderstanding is to be avoided.

For easy comparison Mr. Hartland Thomas would like to see, for instance, a range of glazing bars on one sheet. Our method is to illustrate a range on a number of sheets which, though published separately, when filed in accordance with our classification system, come together into one group, making comparison easy. When the Library is more fully developed the advantages of this system will be more apparent.

The main difficulties in grouping products (by a number of different manufacturers) on one sheet are:

1. The impracticability of providing sufficient explanatory data on a single sheet to make comparisons fully effective, and of use to anyone other than students.

2. The impossibility of arranging things so that at any one time a comprehensive sheet can be produced which would not be subject to constant amendment owing to the introduction of new products.

Apologies of "thinly disguised advertisement pages," we have never sought to disguise the fact that Information Sheets which deal with a manufacturer's products are sponsored by the manufacturer in question. The point is that Information Sheets produce those facts about a manufacturer's products which an architect wants, and in the way he wants them. The policy of the Library, as clearly stated in our issue for October 3, 1947, is to include both information on manufacturers' products and more general material. The reason why a large proportion of the sheets being published at the moment deal with specific products is that we believe that this is the data most needed in up-to-date form at this time. Text-book information which will ultimately form a large section in the Library is, unlike manufacturers' data, already available in published form elsewhere.

In remarking that he would like to know "what was the information upon isometric projection that it was necessary to go to a pencil company to obtain," Mr. Hartland Thomas seems to have overlooked the note on the face of these Draughtsmanship Sheets where acknowledgment for compilation is made to L. A. Lee, L.L.O.B., and H. N. Hoskins, A.R.I.B.A. The position here is that the Eagle Pencil Company have made available the funds necessary to enable these two independent specialists to prepare a valuable series of sheets for the Library.

With regard to classification, the degree of control which is possible in the case of the

Information Sheet Library makes a far more detailed system possible than is applicable to the Information Centre, and it was felt entirely undesirable to lower the standard of the former for the sole object of obtaining uniformity.

An accurate picture of Library policy can only be obtained from a study of the Leaders and general explanatory matter published in the Journal at the time the new series was introduced. General conclusions formed from the few sheets published so far are liable to be extremely misleading.

War Memorial Competitions

SIR.—May I strongly endorse the feelings of Mr. Gilbert Stoddard on the above question?

The Melbourne Shrine of Remembrance Competition was advertised some months ago in the excellent form of a thesis. It was as if the Government of Victoria had inspired the reflection: "Before rushing into the expenditure of £60,000 to make this, the greatest of all memorials, a yet bigger 'white elephant,' encourage architects far and near, who have been through the war, to give us their ideas in suggestion form and see how few inert memorials of stone emerge."

Whether a really useful and practical scheme will result remains to be seen, but at least the idea was sane and reasonable.

Mr. Stoddard hits this hoary question of the independent artist refusing to glorify war, neatly on its Martian nose.

A far more interesting and less frequent memorial has yet to be given to peace, and had the Liverpool Corporation adopted the Melbourne form of competition where there was at least some opportunity of urging a more vital consistency to their proud noble words, "This monument enshrined in the hearts of men," instead of contradicting it by devising the type of non-intelligent "idol" that the worshippers of Baal would have clamoured for, more interest would have been aroused.

Liverpool is a keen and alive city and I happen to know that a large proportion of that drama-minded community would willingly help in the building of a memorial theatre.

True, they will have to wait now in any case, but the fact remains, the less glorifiers and the more debunkers of war's supposed glamour, so very much the better.

Beckenham.

A. G. STANWELL

To Professional Services

SIR.—The *Architects' Journal* performs a service to architects and public alike in calling attention to the serious consequences which must result if the proper practice of architecture is prejudiced by grossly inadequate remuneration.

The case with regard to fees for local authorities' work is even more serious than reported. The scale fees, instead of working out at 2½ per cent. for normal housing work, are often less than 1½ per cent., as the following typical case—based on current priced work—will show.

Taking a 30-house scheme at an average price of £1,350 per house and £4,500 for site works, the contract price would be £45,000. The fees arising on this under headings A, B, and C of the RIBA Scale adopted by the Ministry of Health are £672 15s., or 1.495 per cent.

Work on such a scheme will ordinarily extend over a period of more than two years, involving complete architectural responsibility from selection of sites, designing of lay-out and houses, to the finished job complete with roads, sewers, and lay-out of recreation or other amenity ground.

Such economy in drawing office work as results from a repetition of some of the

units tends to be more than counterbalanced by the frequency with which fresh plans must be produced in the process of co-ordinating the views of the many advisory and/or controlling authorities, and by changing policy and conditions. Regular attendance at housing committees, council meetings, and frequent sub-committees is usually involved, as also relatively heavy accounting and other abnormal office work in connection with Ministry of Health requirements and varying labour and other costs—maybe without the assistance of a quantity surveyor.

Some of these factors, the present cost of building and an architect's present overhead costs were not in mind when the scale was drawn up, and for this reason alone it is demonstrably unrelated to the value and scope of the services rendered.

For smaller schemes the fees show a slightly higher percentage, but the sum receivable cannot normally even cover overhead expenses, leaving the architect's time in respect of preparation of site plan, lay-out, design of houses, and supervision virtually unremunerated.

For instance, in the case of two houses costing with site works, say, £3,000, the scale fees under A, B, and C are £52 10s., or 1.75 per cent.

Perhaps now that there is a clearer picture of costs, and considerable experience has been gained of the operation of this scale and of the work involved, it would be opportune for a conference of local authority architects to consider bringing forward their agreed views.

Bournemouth

E. A. DOWN

For International Documentalists

SIR.—I should like to call attention to the work of "the Permanent International Secretariat of the Documentation Centres" which has its H.Q. in Brussels.

At an international conference held recently in Paris (unattended by G.B., who was apparently too preoccupied with her own affairs to send a representative) it was shown that the means of supplying information on building subjects varies in the different countries from an annually published collected catalogue of products, as in Switzerland, to a comprehensive service where information on a given subject is looked up by technical "documentalists" in a highly classified and cross-referenced filing system, collated and eventually supplied to the enquirer complete with photocopies of the appropriate maps, plans, diagrams, etc., drawn from sources with which the documentalists are in touch both in the country and abroad.

After lengthy deliberation it was decided that some international standardisation of international services and systems should be adopted; that all products, manufacturing firms, techniques, etc., concerned with the building industry should be documented on a standard format with similar, if not rigidly identical classification systems, so that information produced in all countries would be interchangeable and could be filed together by each user according to his needs.

Admittedly these days—when international exchange of actual materials is a comparative rarity—such interchange of documentation may seem of rather academic interest. However, I am sufficiently sanguine in my view of world affairs to think that, bearing in mind the inevitable long time-lag that would be involved in starting such a scheme, the idea is worth considering now.

The obvious corollary—the adoption here of the metric system—I am far from being sufficiently sanguine to think of in an even mildly wishful manner.

London

ROGER BALKWILL

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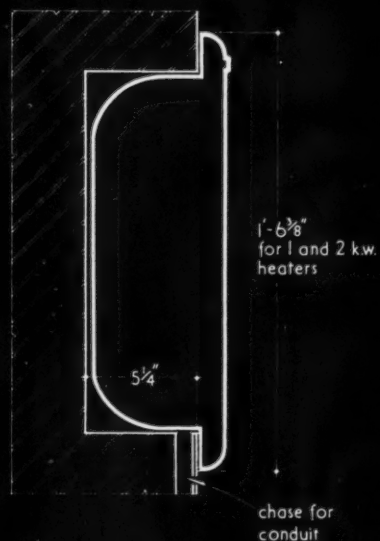
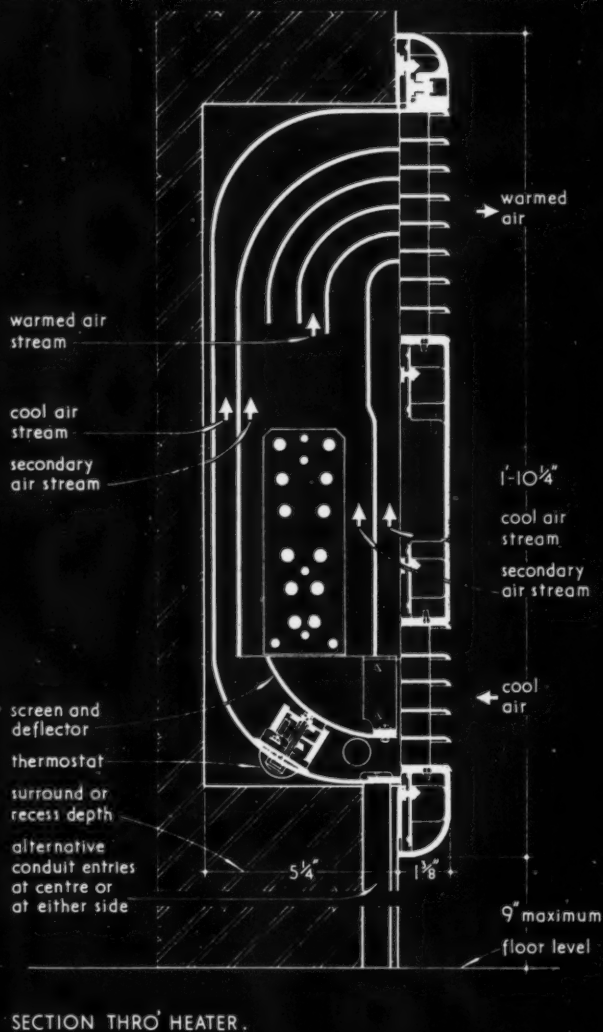
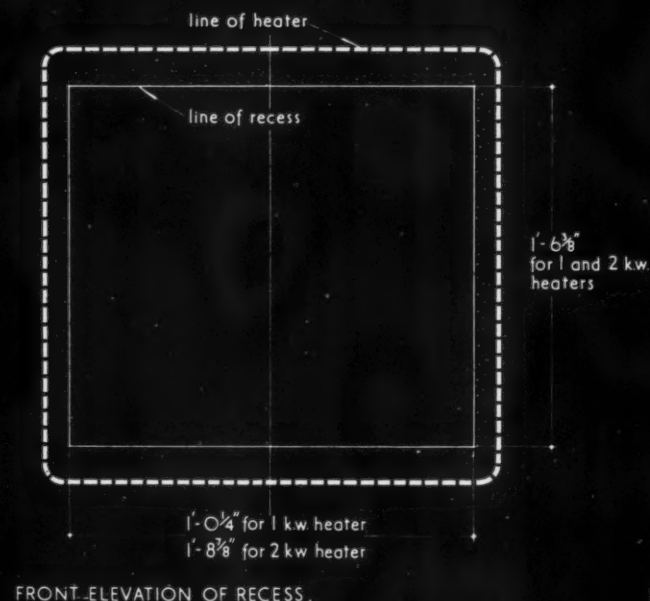
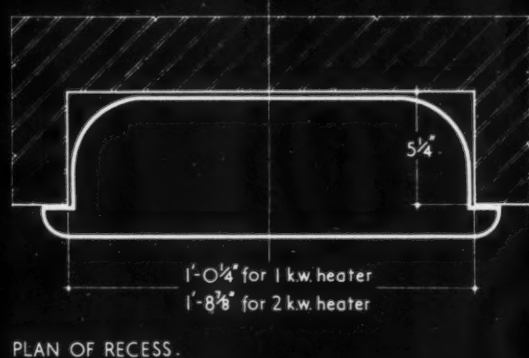
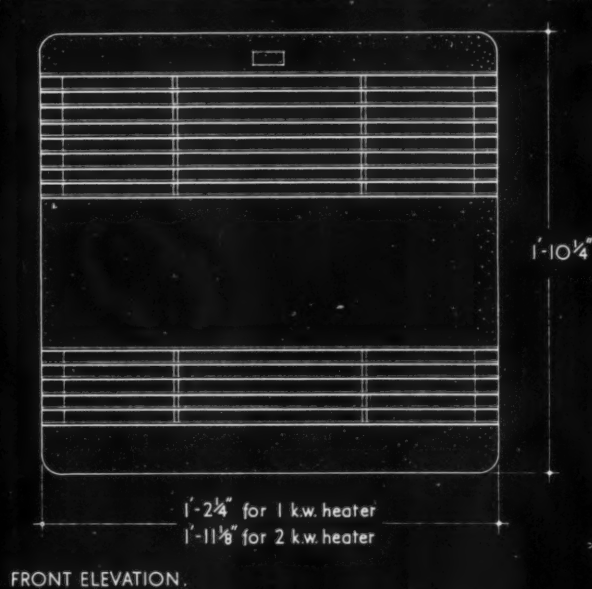
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SPACE HEATING UNITS ELECTRIC

29.D1

The Architects' Journal Library of Information Sheets 13. Editor: Cotterell Butler, A.R.I.B.A.



29.D1 THERMOVENT • ELECTRIC SPACE HEATER

General

This Sheet describes the Thermovent inset type space heater. The heater is available in two sizes—1 and 2 k.w. loadings (3,412 and 6,824 B.Th.U.) and for voltage ranges 200/220 and 230/250, A.C./D.C. mains (thermostat models A.C. only). The standard front panel is a plastic moulding, walnut or black, with inlet and outlet grilles in anodized aluminium coloured old gold.

Principle: The heater operates on the convection principle and employs a patented multiple duct assembly designed to give high convection efficiency with compact construction. Cool air is drawn in at the base of the heater and passes over a heating element of low thermal capacity and the warmed air is projected from the outlet grille thus creating a constant circulation of air throughout the space being heated. The multi-duct assembly provides three stages of heat insulation, giving almost 100 per cent. convection efficiency and virtually no radiation. This ensures a low surface temperature of the casing and obviates wall blackening. The element provides very rapid heating-up. Since natural convection is used there is no fan to cause noise.

Thermostatic Control

This is available as standard for A.C. supplies and is fitted in the incoming cool air stream ensuring a rapid reaction to temperature changes and providing steady comfort conditions. The duct design enables the thermostat to be integral with the heater so that additional wiring is unnecessary. The thermostat is installed behind the lower grille of the front panel.

Luminous Effect

An illuminated version of the standard panel, which also acts as a pilot light, can be supplied as an extra.

Running Costs

These can be accurately estimated for a heating season and such costs are comparable with those of other fuels, particularly where thermostatic control is provided and where consideration is taken of the fact that no attention is necessary and no boiler house or fuel storage space required.

Application

The heaters is suitable for all normal space heating applications, e.g., flats, private houses, offices, etc., both as main or auxiliary heating; and the safety features make the heater particularly suitable for installation in nurseries, etc. The built-in thermostatic control makes it economical for auxiliary heating.

Location

As the heat output is convected instead of radiated, the heater may be placed in almost any position

regardless of surroundings or close proximity to working spaces without danger or discomfort. Having virtually no radiation effects it does not create hot spots.

Calculation of Output

The warmed air from the heater is projected from the outlet grilles at a velocity of approximately 150 ft. per minute. This induces a large and distinct air circulation throughout the heated space, but without causing draughts. The average loading required for buildings of normal construction varies from 0.8 to 1.2 watts per cu. ft. for spaces up to a height not exceeding 12-14 ft. For the proper design of an installation a building heat loss calculation is necessary.

Installation

Careful attention should be given to the right location of the heater. Generally a position in a fireplace or under a window is satisfactory—when fitted in a fireplace, there should be no gap above the top of the heater, but if the chimney is required for ventilation purposes, a one inch gap can be left at the bottom of the fireplace. When fitted under a window, this should be opened at the bottom rather than at the top when ventilation is required. The heater should not be fitted near a door.

Owing to the construction of the heater, the wall box remains cool and it is not necessary to provide any special insulation in the wall recess; the actual heat loss is in the order of 12/15 watts per 2 k.w. heater. The heater requires a recess having a depth of $5\frac{1}{4}$ in.; this may be in a wall, partition or in furniture. Full dimensions of the recess are shown on the face of this Sheet.

Wiring

Wiring connections are made to a terminal block on the wall box. Alternative entries are provided by three knockouts in the box.

Further Information

The manufacturers maintain a technical advisory service which is available to answer questions and advise on technical problems dealing with this subject generally, including the computation of heat loss calculations and the preparation of detailed schemes.

Compiled from information supplied by:

Thermovent Heating (E. K. Cole Ltd.),

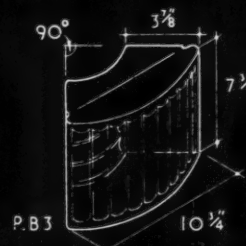
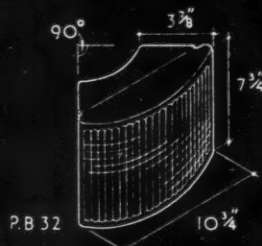
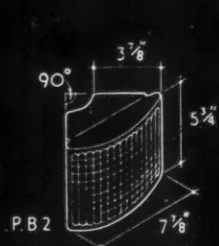
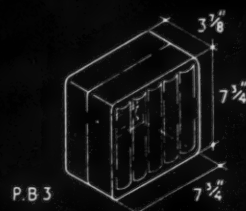
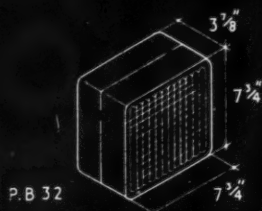
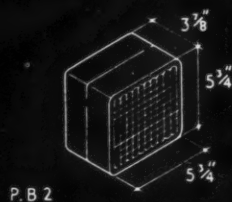
Address: 5, Vigo Street, London, W.1.

Telephone: Regent 2601.

BUILDING BLOCKS GLASS GENERAL DATA

14.MI

The Architects' Journal Library of Information Sheets 14. Editor: Cotterell Butler, A.R.I.B.A.



ISOMETRIC SKETCHES SHOWING UNITS AVAILABLE

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6' - 11 1/2"	7' - 0 1/2"	14	6' - 10 3/4"	7' - 0 3/4"	14
7' - 5 1/2"	7' - 6 1/2"	15	7' - 4 1/4"	7' - 6 1/4"	15
7' - 11 1/2"	8' - 0 1/2"	16	7' - 10 3/4"	8' - 0 3/4"	16
8' - 5 1/2"	8' - 6 1/2"	17	8' - 4 1/4"	8' - 6 1/4"	17
8' - 11 1/2"	9' - 0 1/2"	18	8' - 10 3/4"	9' - 0 3/4"	18
9' - 5 1/2"	9' - 6 1/2"	19	9' - 4 1/4"	9' - 6 1/4"	19
9' - 11 1/2"	10' - 0 1/2"	20	9' - 10 3/4"	10' - 0 3/4"	20
10' - 5 1/2"	10' - 6 1/2"	21	10' - 4 1/4"	10' - 6 1/4"	21
10' - 11 1/2"	11' - 0 1/2"	22	10' - 10 3/4"	11' - 0 3/4"	22
11' - 5 1/2"	11' - 6 1/2"	23	11' - 4 1/4"	11' - 6 1/4"	23
11' - 11 1/2"	12' - 0 1/2"	24	11' - 10 3/4"	12' - 0 3/4"	24
12' - 5 1/2"	12' - 6 1/2"	25	12' - 4 1/4"	12' - 6 1/4"	25
12' - 11 1/2"	13' - 0 1/2"	26	12' - 10 3/4"	13' - 0 3/4"	26
13' - 5 1/2"	13' - 6 1/2"	27	13' - 4 1/4"	13' - 6 1/4"	27
13' - 11 1/2"	14' - 0 1/2"	28	13' - 10 3/4"	14' - 0 3/4"	28
14' - 5 1/2"	14' - 6 1/2"	29	14' - 4 1/4"	14' - 6 1/4"	29
14' - 11 1/2"	15' - 0 1/2"	30	14' - 10 3/4"	15' - 0 3/4"	30
15' - 5 1/2"	15' - 6 1/2"	31	15' - 4 1/4"	15' - 6 1/4"	31
15' - 11 1/2"	16' - 0 1/2"	32	15' - 10 3/4"	16' - 0 3/4"	32
16' - 5 1/2"	16' - 6 1/2"	33	16' - 4 1/4"	16' - 6 1/4"	33
16' - 11 1/2"	17' - 0 1/2"	34	16' - 10 3/4"	17' - 0 3/4"	34
17' - 5 1/2"	17' - 6 1/2"	35	17' - 4 1/4"	17' - 6 1/4"	35
17' - 11 1/2"	18' - 0 1/2"	36	17' - 10 3/4"	18' - 0 3/4"	36
18' - 5 1/2"	18' - 6 1/2"	37	18' - 4 1/4"	18' - 6 1/4"	37
18' - 11 1/2"	19' - 0 1/2"	38	18' - 10 3/4"	19' - 0 3/4"	38
19' - 5 1/2"	19' - 6 1/2"	39	19' - 4 1/4"	19' - 6 1/4"	39
19' - 11 1/2"	20' - 0 1/2"	40	19' - 10 3/4"	20' - 0 3/4"	40

TYPE P.B.32 and P.B.3 $7\frac{1}{4} \times 7\frac{3}{4} \times 3\frac{3}{8}$					
sight size width	recess size height	no. of blocks high	sight size width	recess size width	no. of blocks wide
7' - 7 1/2"	8' - 8 1/2"	1	6' - 6 1/4"	8' - 8 1/4"	1
1' - 3 1/2"	1' - 4 1/2"	2	1' - 2 1/4"	1' - 4 1/4"	2
1' - 11 1/2"	2' - 0 1/2"	3	1' - 10 3/4"	2' - 0 3/4"	3
2' - 7 1/2"	2' - 8 1/2"	4	2' - 6 1/4"	2' - 8 1/4"	4
3' - 3 1/2"	3' - 4 1/2"	5	3' - 2 1/4"	3' - 4 1/4"	5
3' - 11 1/2"	4' - 0 1/2"	6	3' - 10 3/4"	4' - 0 3/4"	6
4' - 7 1/2"	4' - 8 1/2"	7	4' - 6 1/4"	4' - 8 1/4"	7
5' - 3 1/2"	5' - 4 1/2"	8	5' - 2 1/4"	5' - 4 1/4"	8
5' - 11 1/2"	6' - 0 1/2"	9	5' - 10 3/4"	6' - 0 3/4"	9
6' - 7 1/2"	6' - 8 1/2"	10	6' - 6 1/4"	6' - 8 1/4"	10
7' - 3 1/2"	7' - 4 1/2"	11	7' - 2 1/4"	7' - 4 1/4"	11
7' - 11 1/2"	8' - 0 1/2"	12	7' - 10 3/4"	8' - 0 3/4"	12
8' - 7 1/2"	8' - 8 1/2"	13	8' - 6 1/4"	8' - 8 1/4"	13
9' - 3 1/2"	9' - 4 1/2"	14	9' - 2 1/4"	9' - 4 1/4"	14
9' - 11 1/2"	10' - 0 1/2"	15	9' - 10 3/4"	10' - 0 3/4"	15
10' - 7 1/2"	10' - 8 1/2"	16	10' - 6 1/4"	10' - 8 1/4"	16
11' - 3 1/2"	11' - 4 1/2"	17	11' - 2 1/4"	11' - 4 1/4"	17
11' - 11 1/2"	12' - 0 1/2"	18	11' - 10 3/4"	12' - 0 3/4"	18
12' - 7 1/2"	12' - 8 1/2"	19	12' - 6 1/4"	12' - 8 1/4"	19
13' - 3 1/2"	13' - 4 1/2"	20	13' - 2 1/4"	13' - 4 1/4"	20
13' - 11 1/2"	14' - 0 1/2"	21	13' - 10 3/4"	14' - 0 3/4"	21
14' - 7 1/2"	14' - 8 1/2"	22	14' - 6 1/4"	14' - 8 1/4"	22
15' - 3 1/2"	15' - 4 1/2"	23	15' - 2 1/4"	15' - 4 1/4"	23
15' - 11 1/2"	16' - 0 1/2"	24	15' - 10 3/4"	16' - 0 3/4"	24
16' - 7 1/2"	16' - 8 1/2"	25	16' - 6 1/4"	16' - 8 1/4"	25
17' - 3 1/2"	17' - 4 1/2"	26	17' - 2 1/4"	17' - 4 1/4"	26
17' - 11 1/2"	18' - 0 1/2"	27	17' - 10 3/4"	18' - 0 3/4"	27
18' - 7 1/2"	18' - 8 1/2"	28	18' - 6 1/4"	18' - 8 1/4"	28
19' - 3 1/2"	19' - 4 1/2"	29	19' - 2 1/4"	19' - 4 1/4"	29
19' - 11 1/2"	20' - 0 1/2"	30	19' - 10 3/4"	20' - 0 3/4"	30

TABLES GIVING DIMENSIONS OF OPENINGS TO ACCOMMODATE GLASS BLOCKS.

14:M1 ·INSULIGHT· HOLLOW GLASS BLOCKS

General

This Sheet is the first of a series dealing with hollow glass blocks. The characteristics of standard blocks, together with tables of dimensions of openings to accommodate glass panels up to 20 ft. high or 20 ft. wide, are shown on the face of this Sheet. The general construction of external glass block panels is described on Sheet 14.N1.

Standard Types

P.B.2 : $5\frac{1}{2}$ in. high by $5\frac{1}{2}$ in. wide by $3\frac{7}{8}$ in. thick. Surface pattern of convex ribs carried vertically on both exterior faces and horizontally on both interior faces. Approximate weight 3 lb. 11 oz.

P.B.32 : $7\frac{1}{4}$ in. high by $7\frac{1}{4}$ in. wide by $3\frac{7}{8}$ in. thick. Surface pattern of convex ribs carried vertically on both exterior faces and horizontally on both interior faces. Approximate weight 6 lb.

P.B.3 : $7\frac{1}{4}$ in. high by $7\frac{1}{4}$ in. wide by $3\frac{7}{8}$ in. thick. Exterior faces are smooth and a surface pattern of concave ribs is carried on interior faces only, running vertically on one and horizontally on the other. Approximate weight 6 lb.

Corner Blocks

P.B.2 : $5\frac{1}{2}$ in. high by $5\frac{1}{2}$ in. outside radius by $3\frac{7}{8}$ in. thick. Surface pattern as P.B.2 block. Approximate weight 3 lb. 10 oz.

P.B.32 : $7\frac{1}{4}$ in. high by $7\frac{1}{4}$ in. outside radius by $3\frac{7}{8}$ in. thick. Surface pattern as P.B.32 block. Approximate weight 7 lb. 10 oz.

P.B.3 : $7\frac{1}{4}$ in. high by $7\frac{1}{4}$ in. outside radius by $3\frac{7}{8}$ in. thick. Surface pattern as P.B.3 block. Approximate weight 7 lb. 10 oz.

Panel Sizes

Insulight hollow glass blocks are non-loadbearing units, and although they will carry their own weight safely up to a reasonable height it is necessary because of wind pressure and other stresses to put intermediate support in panels where the height is more than 20 ft., the width more than 20 ft. or the area more than 120 ft. super. These dimensions may be exceeded for internal panels in certain cases.

Fixing

Treatment at head and jambs : In all panels, the head and sides must be built free of the main structure—except for the reinforcement—to prevent panels being subjected to strains due to settlement, building load, or expansion. A $\frac{1}{2}$ in. clearance should be provided which must be kept free of mortar spillings, and filled with a non-hardening compound. In cases where intermediate support or structural dividing members are introduced into panels, the glass blocks

must be insulated by clearance joints. In external panels, recesses into which the head and sides are built free of the main structure must be provided, except where the dimensions of the panel do not exceed 8 ft. high by 2 ft. wide, or 6 ft. high by 3 ft. wide. The recess should be $4\frac{1}{4}$ in. wide by 1 in. deep, allowing $\frac{1}{2}$ in. clearance and $\frac{1}{2}$ in. cover with $\frac{3}{8}$ in. play on either face; the $\frac{1}{2}$ in. clearance should be filled with a non-hardening compound to provide a weatherproof joint. Where intermediate supports are introduced, it is not essential to provide recesses in these.

In internal panels, rebate fixing is recommended : in certain cases butt fixing can be used.

Treatment at sill : Before the bottom course is laid, the sill should be coated with an asphalt emulsion or similar material, and the blocks then bedded with mortar as specified below, so as to allow for slight movement without disrupting the mortar bed and thereby preserving the weather-resistance of the panel.

Reinforcement : Reinforcing strips should be built into every third to every fifth course dependent on the size and position of the panel. The ends should pass through the clearance joint and be secured to the main structure. Such a material as "Exmet" $2\frac{1}{2}$ in. wide No. 20 gauge expanded metal has been found suitable for this purpose.

Bedding and pointing : As glass blocks are non-absorbent a fairly dry and fatty mortar should be used. A suitable mix is one part Portland cement, one part hydrated lime (preferably lime putty) and four parts of sand by volume. Clean builders' sand free from gravel (not sea sand) should be used. The face of the joints may be struck back and smoothed during erection. If coloured joints are required they may either be picked out in colour by painting after the mortar is thoroughly dry or raked out at the time of erection and later pointed with coloured cement. The pointing may be of any form or finish; a keyed joint formed with a curved jointing tool is the normal one.

Doorways, windows and ventilators : Small windows and ventilators may be set in a panel as insets. Doors and larger windows require clearance joints and special treatment.

Further Information

The Manufacturers maintain a Technical Research and Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

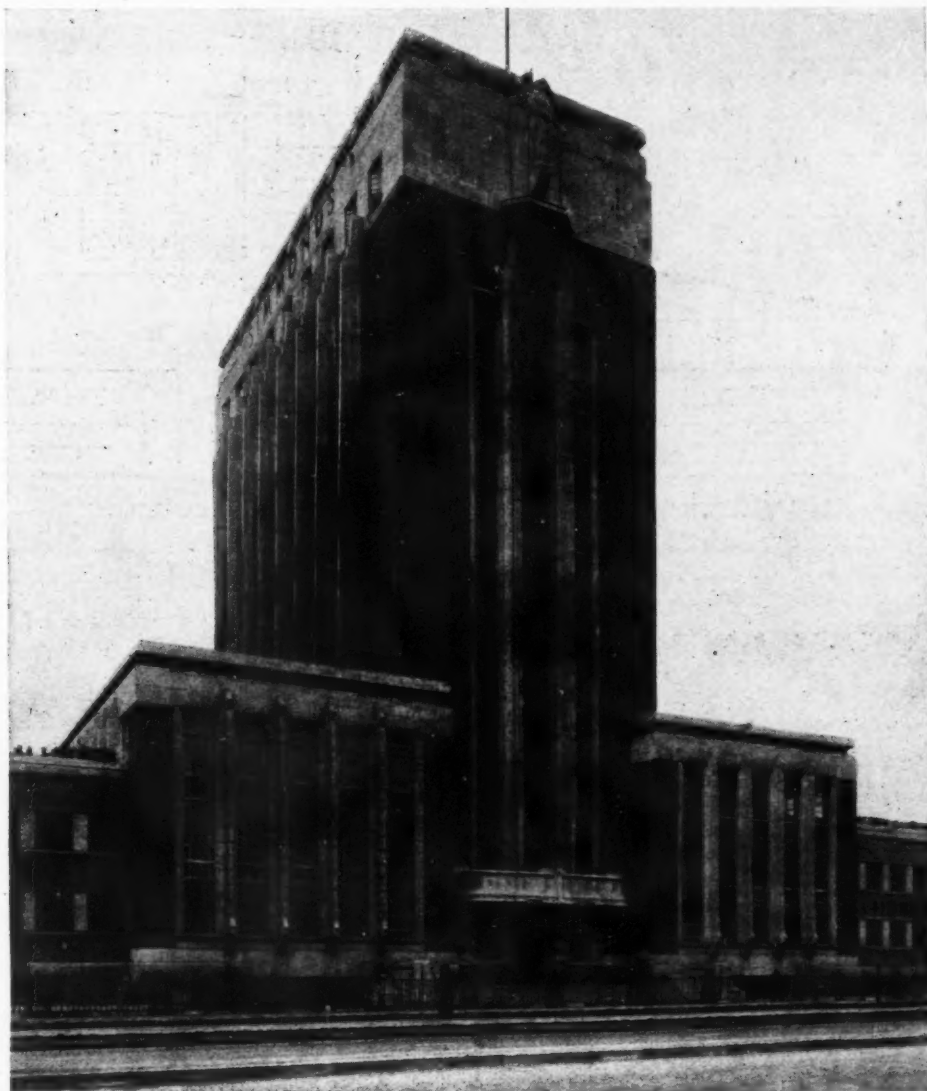
Compiled from information supplied by :
Pilkington Brothers Ltd.

Head Office : St. Helens, Lancashire.

Telephone : St. Helens 4001.

London Office : 63, Piccadilly, W.1.

Telephone : Regent 4281.



Right, the tower. Bottom
the sculptured airman at
the top of the tower.

AN INDUSTRIAL BUILDING ON THE GREAT WEST ROAD DESIGNED BY WALLIS, GILBERT AND PARTNERS

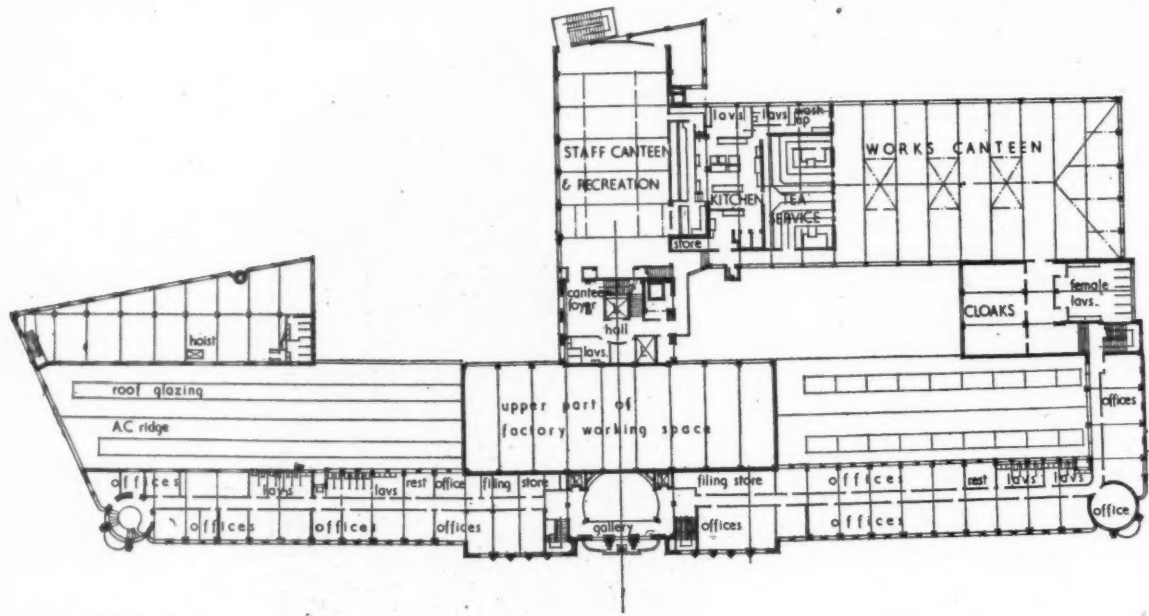


This industrial building on the Great West Road, Brentford, Middlesex, is an extension of a small factory occupied by Simmonds Aerocessories. It consists of aero-engineers' workshop, offices, canteens, welfare and air-raid shelters.

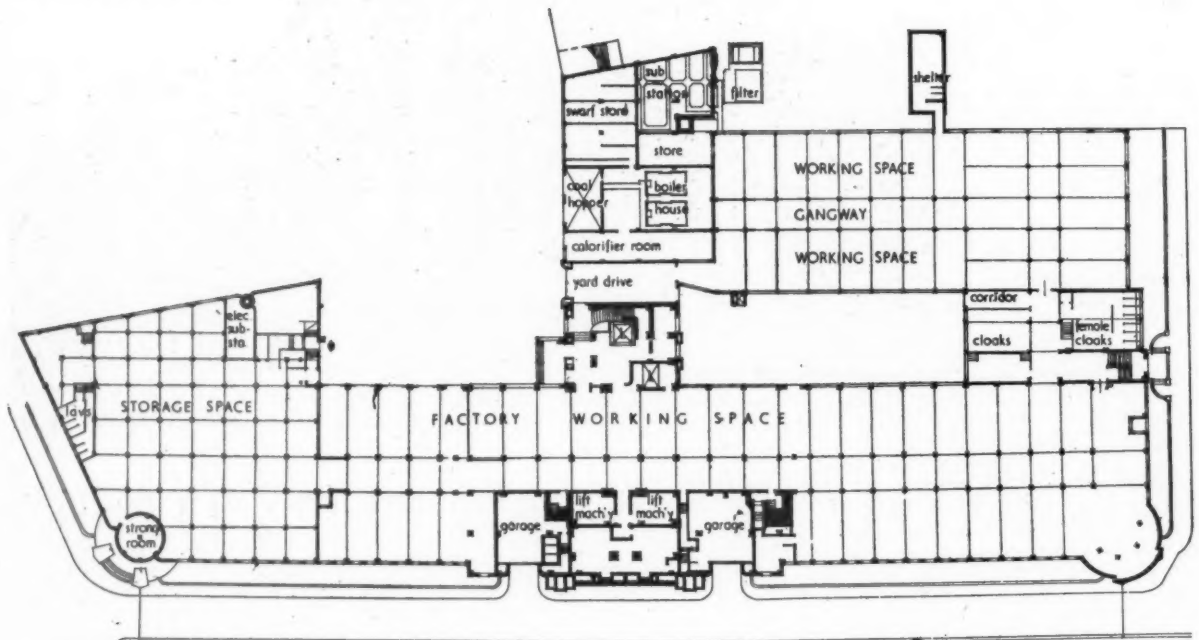
The plan was controlled by the importance of extending the existing main machine shop to the west and by the existing factory. In the foundations of the central tower an extensive air-raid shelter was constructed. The sculptured airman on the tower, and the

balustrade with frieze below and the rockery in the entrance hall, were specially requested.

CONSTRUCTION. — The tower has a basement, over the air-raid shelter, constructed of Istex cross bracing on sheet piling and reinforced concrete up to main floor level. In the tower, 600 tons of steel are used, framed and enclosed in concrete with brick panelled walls and solid reinforced concrete floor slabs. The wings of the building east and west of the tower are steel framed on normal

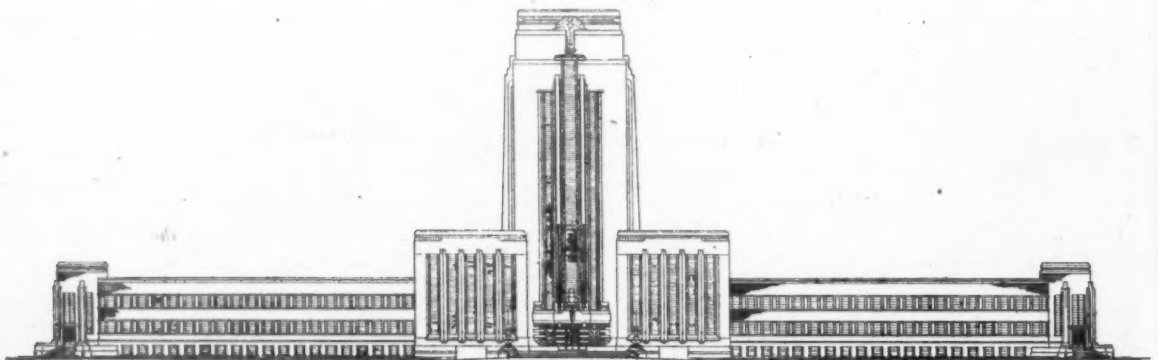


FIRST FLOOR PLAN

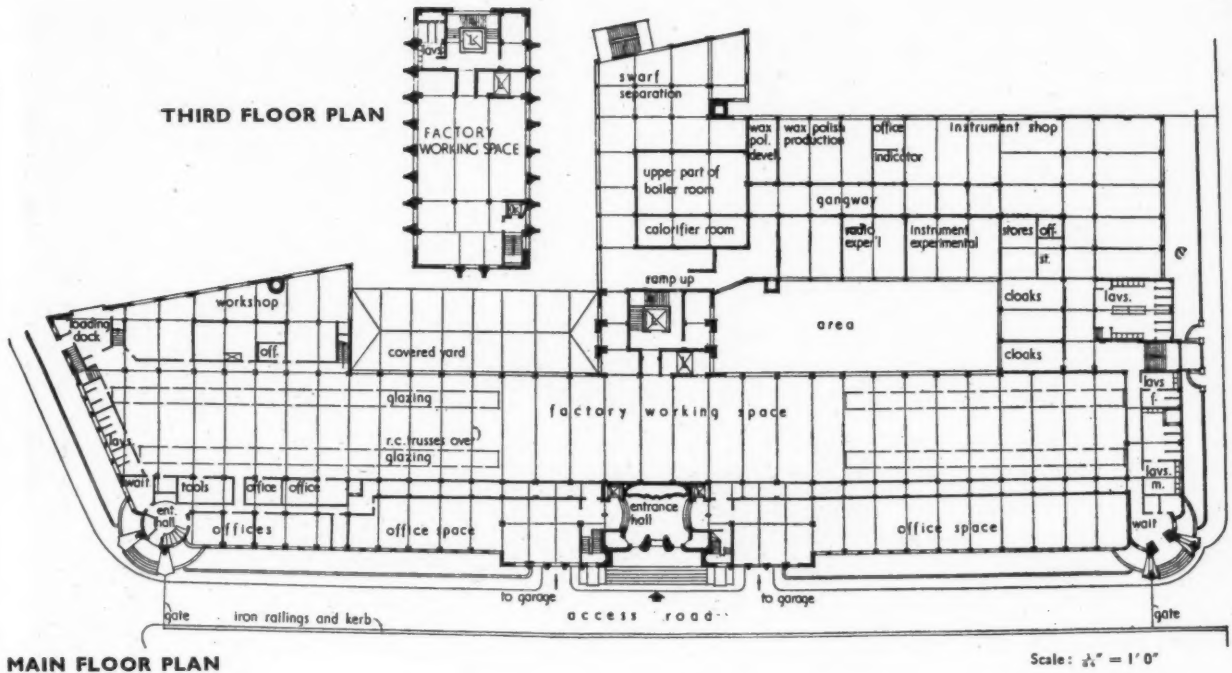


GROUND FLOOR PLAN

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



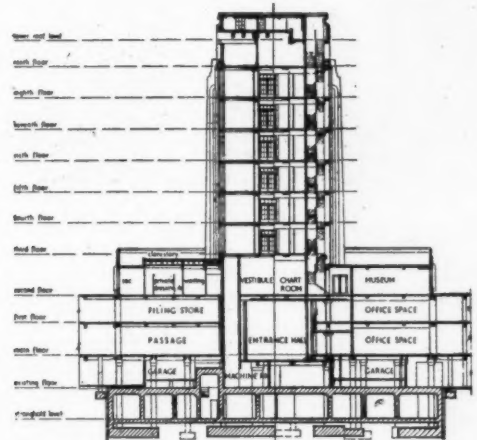
GREAT WEST ROAD ELEVATION OF TOWER AND EAST AND WEST WINGS



foundation beams and stanchions enclosed in concrete. Roofs are partly concrete and partly asbestos. Internal partitions are mainly in $4\frac{1}{2}$ -in. brick.

INTERNAL FINISH. — Bronze entrance doors lead to the entrance hall, which has a travertine marble floor, polished Pericot marble walls

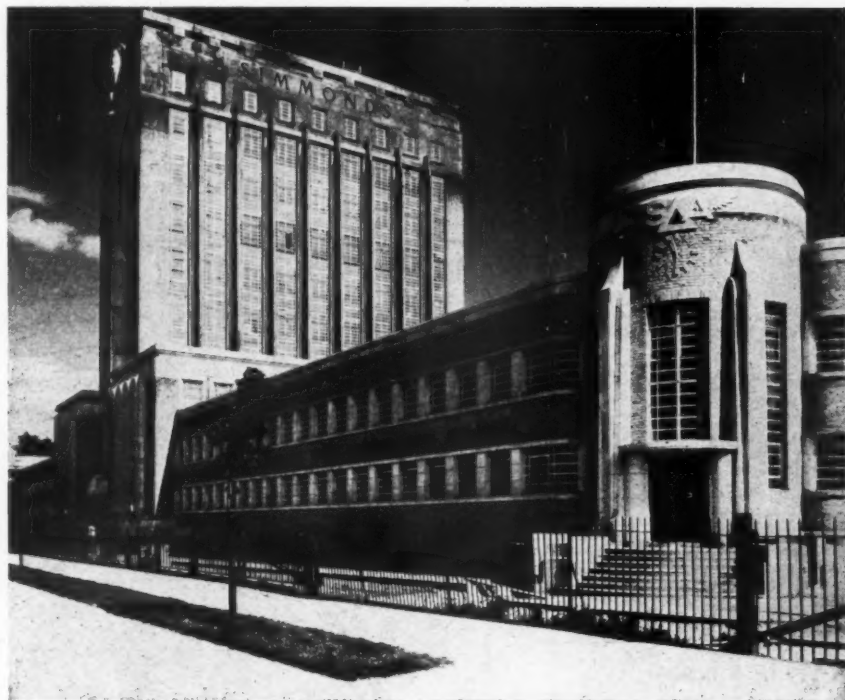
and Ashburton marble columns. Here also is a curved frieze illustrating the progress of transport, a polished Pericot balustrade with an illuminated clock giving the time in various parts of the world, and a waterfall in the same marble. In the managing director's office and suite are cedar panelled walls, plaster ceiling and



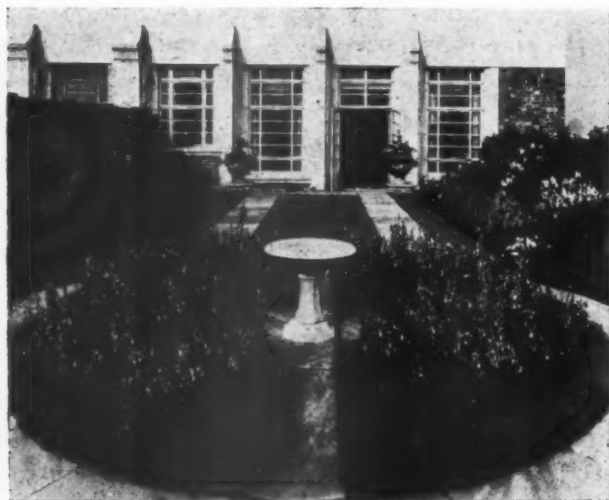
LONGITUDINAL SECTION

Left: In the entrance hall looking towards the bronze doors leading to the Great West Road and showing the rockery and the carved frieze illustrating the progress of transport.

INDUSTRIAL BUILDING ON THE GREAT WEST ROAD



Right: the Great West Road front; centre, left, and bottom, two views on the roof garden; centre, right, the director's room.



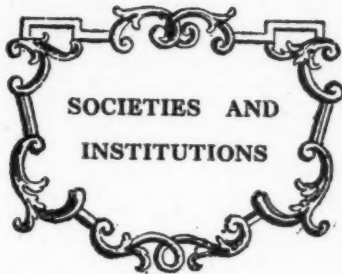
oak strip floor and special shower and lavatory fittings; in the conference room oak panelled walls with carving of eighty to a hundred aeroplanes on which were used the client's component products; in the staff canteen and recreation room a coved ceiling and a musicians' gallery; and in the roof garden to the director's office provision is made for all-the-year-round planting. The director's lounge and dining room on the ninth and tenth floors were abandoned owing to wartime restrictions.

SERVICES.—The staff canteen and the works canteen are served by a central kitchen. There are three electric passenger lifts travelling at speeds of 500 and 300 ft. per minute for heights of 100 ft.

and 27 ft. respectively; a goods lift handling two tons at 500 ft. per minute and a height of over 100 ft., and a conveyor serving the tower. Heating is by high pressure hot water with a floor panelled system in the entrance hall. The boiler flue passes below ground level to the tower, and discharges above tower roof level. The general contractors were John Laing and Son. For names of sub-contractors, see page 440.

The building has now been taken over in its entirety by British Overseas Airways Corporation for conversion to offices. The work of adaptation is being carried out under the supervision of Mr. Walter H. Williams, the Corporation's architect.





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.

RIBA

Sir Lancelot Keay

November 11. At 66, Portland Place, W.1. THE PRESIDENT'S INAUGURAL ADDRESS.

Sir Lancelot Keay: A year ago I ended my first address with a plea for co-operation, for mindfulness of tradition, and for dignity. Perhaps the vibrations which those final words set up a year ago, much weakened in the length of time, did faintly echo two weeks ago in a building in a neighbouring square. There the distinguished President of that slightly younger and once more rebellious sister body which has its headquarters in an older and more traditional building than our own sent out a plea for "harmony, order and quality"—a plea so hardly differing from my own that co-operation between this Institute and the Association would seem well guaranteed at least throughout the coming year.

I am happy in feeling that very close co-operation has existed amongst those who owe allegiance to this Institute and who acknowledge it as the custodian of our art, not only in Great Britain but throughout the Great Empire and Commonwealth. It has been my pleasant duty to welcome in this building many of our members from overseas and to entrust to them messages of good will to be taken to the Presidents and members of Institutes allied to us.

I have also welcomed here architects from friendly foreign lands. Only a month ago the Council was addressed by the President of the Board of the Association of Architects of the Netherlands. Close co-operation has continued with the many

bodies whose work is associated with our own. Co-operation in these days of crisis is even more essential than it was a year ago. I feel that no one to-day will challenge the need for the maintenance of dignity. Dignity in mien with chins held high. Dignity in language, especially in high places. Dignity in labour that will impel the craftsman to give of his best when there is a danger of standards sliding back.

IMPORTANCE OF TRADITION

I should, however, disclose a lack of that sensitiveness to the opinions of others did I not perceive some whisperings that the claims of tradition can be too strongly stressed. Criticism of traditionalism is, I know, sincere. To display the slightest umbrage at the expression of it would be to lose some measure of that dignity I pledged myself to maintain a year ago. Second thoughts, however, do not suggest a recantation, but rather a re-statement and re-emphasis of the appeal I then made. Re-statement because there is a tendency in this hurried life to snatch a word or sentence from its context and thereby distort the meaning of the whole. "Mindful of our traditions, but not slaves to them that we shall accomplish our part in the building of a better Britain" were the words I then used and use again. I have little doubt that, if during the present century we had maintained more completely some of the outstanding characteristics of our race and its traditions, we should not find ourselves as we do to-day, in need of help instead of bestowing it on others.

But social and political conditions are not our immediate concern. Our thoughts must be directed to considerations which affect our art. I make no apology for repeating my opinion that we shall fulfil our trust with greater success if we are mindful of our traditions than if, with an air of self-sufficiency, we ignore the accumulated experience of those at least as wise in their generation as we consider ourselves to be in ours. We might with advantage listen to the echo of words addressed to young artists in the 14th century. "And as soon as thou canst, begin to put thyself under the guidance of the master to learn, and delay as long as thou mayest the parting from the master." In other words, despite the natural desire for self-expression, as we learn our art we shall be wise not to cut adrift too soon from those who can still impart some help in the solution of the newer problems which confront us.

For instance there may be some, even in this age of novelty and rapid change, who may be commissioned to design a building within the limits of the "English Gothic Style" for the practice of the older faith. They will know well where to look for inspiration should they need it. The genius of others may be sought to help enshrine some newer cult bent upon the inculcation of a more novel message bringing peace to troubled souls. Before they embark upon their more exciting and exacting task I would dare suggest that without loss of prestige, and indeed with some chance of gain, they visit those ruined sister abbeys of the Yorkshire Dales, one of which was so much before the public eye about a year ago. So beautiful is Fountains Abbey in its ruined state that the desirability of its restoration was then a matter for dispute. Here, where skipping conies take the place of prostrate monks, and green and brown leaves provide a natural substitute for tinted glass so ruthlessly destroyed, may still be learned the lessons of perfect siting and beauty of proportion, to be applied to newer buildings as strange in design and method of erection as the newer creeds they are intended to serve. Whatever problems may be set us the fullest knowledge of all pertaining to our art will aid, not hinder, the fullness of our self-expression.

The effect of the economic crisis upon the country as a whole, serious though it may

be, is not a matter I can properly refer to this evening, but its probable effects upon our profession is a matter which must be viewed with such concern that I should be lacking in my duty if I did not make some reference to it. If we preserve dignity we shall avoid panic. Panic only adds to difficulty in times of stress. Members of this Institute in common with all loyal subjects willingly made their sacrifice when the safety of the country was at stake. They will not flinch when our very existence as a great nation is imperilled. The postponement of capital works appears to be inevitable, but artist and craftsman must be kept in being to practice their art when conditions so permit. The development and re-development of towns may have to be delayed, but the forward preparation of the necessary plans can and should be proceeded with. Some of this work will be done by officials, more will be undertaken by architects in private practice. Local authorities should find no difficulty in planning ahead and thus ensure they may be ready to discharge their responsibilities when they fall to them. Private bodies and persons may be more reluctant to incur the expense of forward planning which will not be immediately remunerative. And yet their work is of equal importance for it supplies the in-filling to the pattern of the plan. I am hopeful that the Government will find some means of retaining architects—both private and official—upon this work, which will lose none of its essentiality through compulsory postponement. To be prepared would surely justify some financial assistance when needed, and, after all, we do not ask to be paid in dollars.

Architecture is frequently and most aptly defined as "the art and science of building." In early days the art contained the science and our buildings were, I suppose, completely functional—whatever that appellation may exactly mean. Then for a while there was a separation between the art and the science. Outward effect was often obtained at the risk of structural security. In more recent days there has been a tendency for the science to outstrip the art and we are told that the constructional members of our buildings should not be hidden by a mantle of applied art. This divergency of view continues. At one time our homes were designed to give an air and atmosphere of peace and domesticity which some now call an unnecessary veneer. Our factories had little of this veneer applied to hide constructional units. To-day the process seems to be reversed. Many new and novel forms of house building show upon their surface the method of their construction, but we seem to be moving towards a better co-operation between artist and scientist.

MYSTERIOUS QUALITY OF ATMOSPHERE

Science will come to our aid in building and will make much possible that art alone could not provide. It will bring content and ease to living, but it will not make the appeal to emotion that art alone can do. It will not create that mysterious quality of atmosphere without which the great cathedral or the smallest cottage lose an essential and abiding property. Whether that atmosphere is imparted through the personality or by the skill of the artist or by some trick in the arrangement of mass and void or light and shade, I know not. I am convinced, however, that we must strive to attain it in our buildings.

The longer capital expenditure upon building is restricted the less opportunity will be afforded to our younger members of obtaining practical experience. A prolonged period of austerity will prevent their acquaintance with the other crafts with which we are associated. They may become experts in improvisation and in the siting of standardised buildings made to the design of others, but they will lack that love of material, that association with the carvers

* *Quality in Architecture* by Howard Robertson at the A.A. See AJ, November 6 issue.

in stone or wood and those who enliven our wall surfaces with their art, part of the heritage which has come down to us and which we hoped to hand on to our successors. For over seven years our field has been restricted. The longer the period of postponement in erection the more urgent the need for certain building will become. To supply these needs an even greater measure of improvisation, of standardisation and prefabrication, may be resorted to in the not always proven assumption that they make for economy and speed. It is one thing to possess knowledge and to be unable to use it through force of circumstances and quite another to be unable to use it when conditions permit because we do not possess it. In some way we must endeavour to make training in our art as complete as the difficulties allow.

Despite the cuts in expenditure much school building will be carried out in the next few years. In this Institute, quite recently, there was held a conference* upon the design and construction of schools. New regulations and scientific studies affecting amenities have combined to make the design of schools a task full of interest and one affording great scope for individual expression. Rules and regulations tend towards standardised planning. It was therefore good to note in the recent exhibition here, how architects had obtained great variety and shown much originality whilst keeping within the imposed restrictive regulations. To be critical for a moment, I can but feel that in their desire to improve standards those responsible for the new rules and regulations have listened too attentively to the theorists. Cost has to be counted both in the initial spending and in subsequent maintenance. But when theory tires she grips the hand of practice and if the twain move on together a reasonable standard of achievement may be obtained.

ARCHITECTS AS PLANNERS

Other work to which we may look forward is in the design of all the many buildings necessary in the development and redevelopment of towns. There is little doubt that our claim as architects to be the predominant partners in the planning of these developments is becoming more generally accepted. The slower tempo which conditions will enforce will give time for this claim to become fully recognised and afford an opportunity for us to strengthen our position by showing our ability not only to design buildings, but also to site them, and thus influence the pattern of the plan in which they fit.

In the development of towns a new conception and procedure has arisen. The aggregate of private effort, subject as it was to but a small measure of control, often proved unsatisfactory. The restricted operations of local authorities are equally unsuccessful as contributions towards the proper planning of a town. To-day a wider field is open to them and so far as their developments are concerned, there is now less chance of segregation and a greater opportunity for complete community planning. Almost as a competitor in this extended field comes the Government sponsored organisation for the building of completely new towns. It is an experiment that has great possibilities for architects acting with other technical advisers from the very inception of a scheme. But in the past towns have grown to serve the needs of man. Some contend that towns develop to supply these needs and cannot be planned ahead. The experiments now being tried will prove or disprove the correctness of this contention. Those who uphold it fear the restrictions of the planners as the planners fear the uncontrolled action of the individualist. But there is surely some happy medium between an unrestricted though natural growth and over-planning, for there is as

much to be feared from the former as there is to be objected to in the latter. If we are to build new towns without monotony but with all the beauty that the site and the ingenuity of the architects will ensure, then we must be spared the repressions of the planning theorists. If this can be done we shall be afforded an opportunity so unique and with such possibilities that we shall not dare misuse it. In designing these new towns we must strive for lasting beauty not transient flashiness. In years to come they will be visited by those who will compare what we have done, with all the opportunities available to us, with what was carried out in the more leisurely though by no means less artistic days. Those responsible for guiding the development of these new towns will do well to blend and not to segregate the styles of building and will be well advised to reject a building which contends with others and thus upsets the harmony of the whole.

I am satisfied that this work can be undertaken by a team, working under guidance, providing the achievements of each individual member of the team receives acknowledgment. It is, however, of importance that full responsibility should repose where the work is done and in those who do it. Formerly the decentralisation of power quickly followed the capacity of accepting responsibility for it.

DANGER OF CENTRALISATION

To-day the tendency is being reversed and powers once given are being withdrawn and vested in a centralised control. The removal of responsibility may result in a lowering of the standard amongst those upon whom the discharge of lesser duties falls. Centralisation must involve a swelling bureaucracy trained in regulation rather than in practice which, as an official of long standing, I should much regret. But with all the difficulties of the times I express the hope that we shall not give way to pessimism. Austerity will compel a greater simplicity in our work, but in the simpler treatment of our buildings we shall learn again the outstanding quality of good proportion and the value of using space uncluttered with the frills used by those who fail to realise the simplicity of all true art. Simplification will also compel sincerity. Looking at the proposals for great replanning

schemes I often wonder whether we should not better serve this and succeeding generations by less detailed and ambitious proposals. The claim of the planning theorist, when change is moving at such a pace, to be able to decide conditions a century ahead often strikes me as fallacious if not indeed impertinent. Let us in the next decade or two accomplish a small section but in such high quality as will set the standard for the whole, leaving the form to those who follow.

Lest the plea for simplicity might suggest monotony, I would remind you that an element of surprise is always possible with the artist. I have referred to the handling of such simple attributes to art as light and shade. If not too closely fettered by regulations and restrictions, surprise in planning may arise from some simple handling of a site. Relief in building may be found in some single motif and the introduction of the work of other crafts. Those who enjoy the work of some of our Scandinavian brethren will know well what I have in mind.

Last year I left you with three words. To maintain the tradition then begun I leave three more to-day: Simplicity, sincerity and surprise. Perhaps in months ahead these, too, will echo back from Bedford Square in slightly differing form and once again disclose that unanimity of view which I so greatly value.

Publications Received

Vision in Motion. L. Moholy-Nagy. (Wittenborn, New York.)

British Sculpture 1944-1946. Eric Newton. (John Tiranti. 6s.)

Of the Atmosphere of a Church. J. N. Comper. (The Sheldon Press. 1s. 9d.)

Scientific and Technical Research in British Industry. FBI Industrial Research Secretariat. (Federation of British Industries. 1s.)

Timber, its Structure and Properties. H. E. Desch. (Macmillan. 18s.)

The Liverpool Town Hall. Gordon Hemm. (Sharpe & Kellet. 3s.)



A section of the Modern Homes Exhibition held recently in Glasgow. Sponsored by the Glasgow Corporation, a quarter of a million people who visited the exhibition saw displays of existing blighted areas contrasted with model lay-outs of new housing and town-planning proposals. Other stands were devoted to furniture, kitchen equipment and garden design.

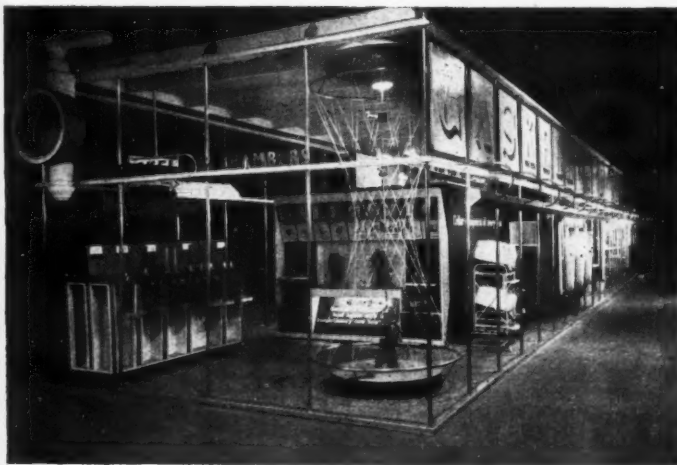
* Post-War School Planning and Construction. See AJ, October 30 issue.



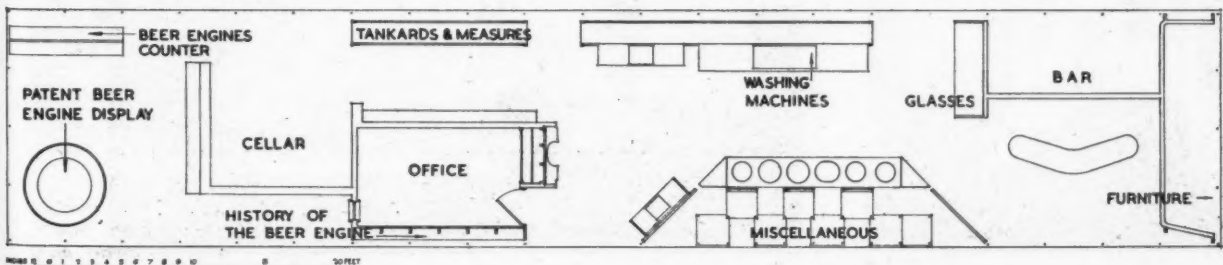
EXHIBITION STAND

BY CLIVE ENTWISTLE

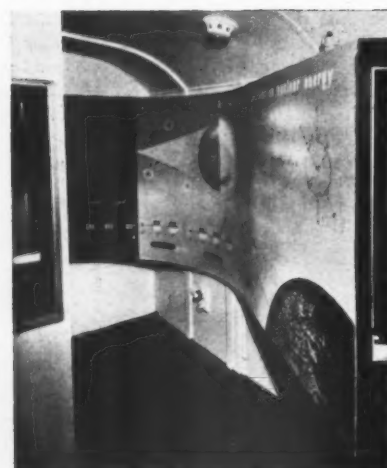
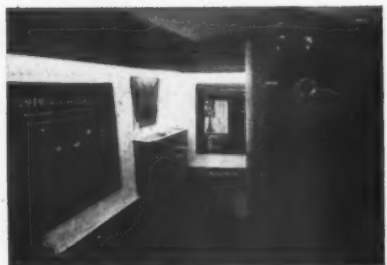
This stand was designed to display, at the recent Brewers' Exhibition at Olympia, the beer engines, bars and accessories for licensed houses manufactured by Gaskell and Chambers Ltd. Standing on a self-contained island site, it was sub-divided into sections and provided both interior display with visitors circulating lengthwise, and exterior display round its perimeter. The stand framing was of $1\frac{1}{4}$ " polished aluminium carrying timber transomes.



Top: Screen illustrating development of the beer engine. Front of screen: nigger brown; plaster medallions amber on face with incised white lettering. Background to beer engines scarlet with gold anodysed aluminium expanded metal. Centre: General view from the main entrance showing hyperboloid construction featuring new electric beer engine. Bottom: Plan.



Top right, exterior of coaches. Left, from top to bottom, entrance to the coach with information counter and views of features on the circulation route. Bottom right, a mural by Gordon Bowyer, indicating the benefits mankind might, if he chose, gain from atomic energy. Opposite page, plan of the coaches.



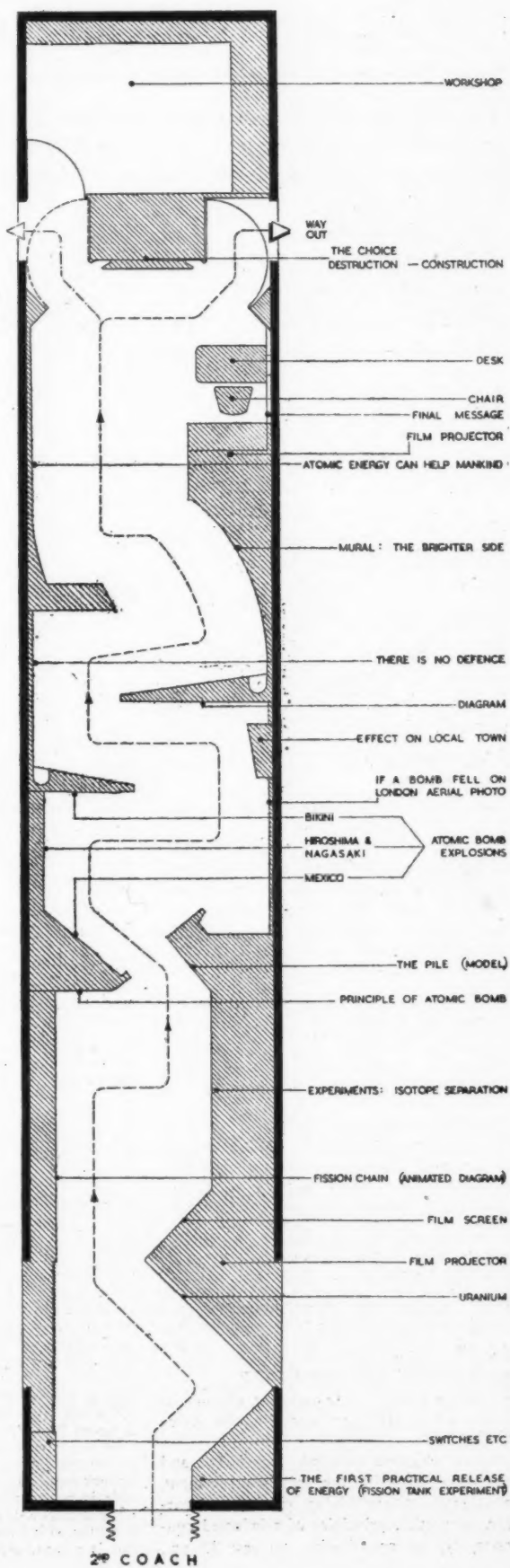
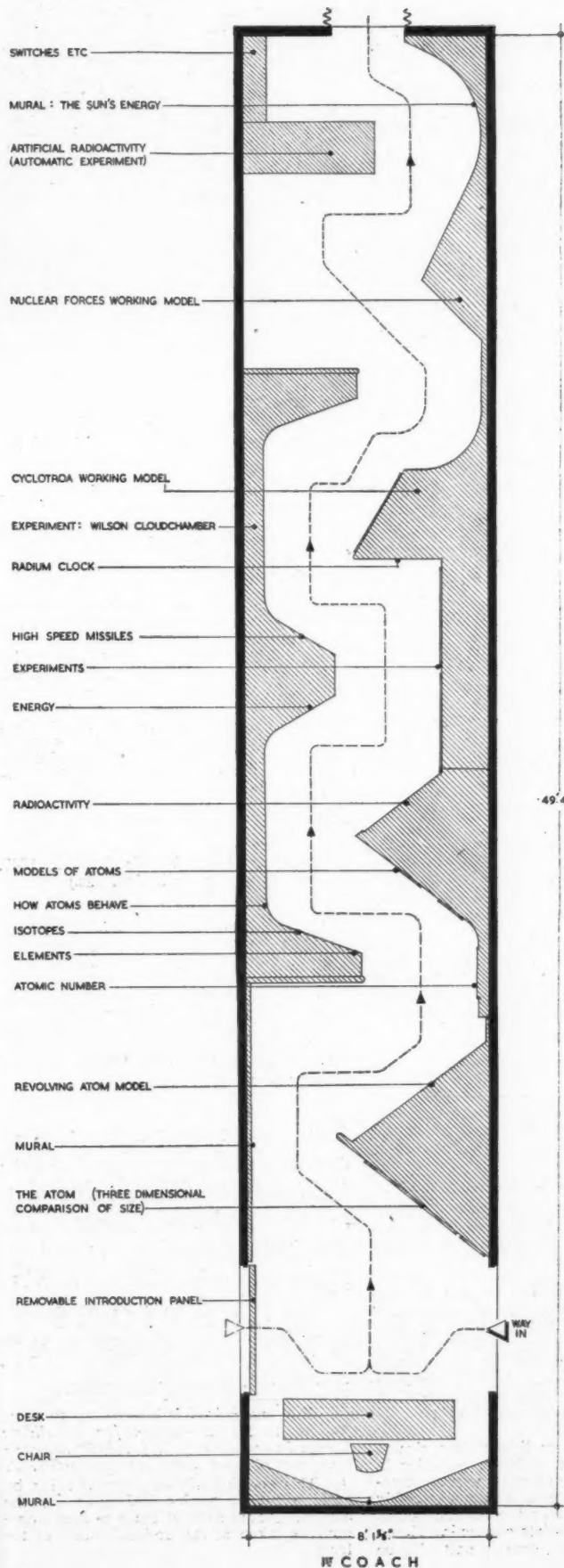
ATOM TRAIN

A TRAVELLING EXHIBITION ON ATOMIC ENERGY
DESIGNED BY PETER MORO AND ROBIN DAY

This Exhibition, for the Atomic Scientists' Association, will be touring the country for several months and will end its run in London in the spring. Two railway coaches with a floor area of 100 ft. long by 8 ft. wide house the exhibition, which is designed to popularise the subject of atomic energy, its theory and its practical application. The first and largest section, which deals with the theory of nuclear energy, contains a number of "live" experiments and working models. The second section deals with the atomic bomb and is illuminated through a number of photographic transparencies show-

ing explosions and casualties. Ceiling and walls here are black. A special type face, hard and mechanical in character, is used for the captions. In contrast, the last portion deals with the brighter side. Introduced by a colourful mural by Gordon Bowyer, it enumerates the benefits mankind can derive from atomic energy. Much light and warm colours are used to create an appropriate atmosphere. The exhibition ends with a "ghost change" showing the choice between construction and destruction. The script is by Adrian Thomas and the typography by Charles Hasler.





TECHNICAL SECTION

The function of this feature is to supply a digest of, and commentary on current information of interest to architects as recorded in technical publications and statements of every kind throughout the world. Items are prepared by specialists of the highest authority who are not on the permanent staff of the Journal, and views expressed are disinterested and objective. Items are printed on one side of the paper only to permit of cutting out and pasting up in classified order in readers' files. The Editors welcome information on all developments from any source.

INFORMATION CENTRE

To enable items to be filed all information is classified under the following headings:

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

2.21 planning: general NEW TOWNS

Living in the New Towns. Clough Williams-Ellis. (Jason Press, 1947. 1s.)

Address delivered last year at conference of housing managers and public representatives. Clear statement on concept of new towns as seen by planners, architects and sociologists. Introduction by Jean M. Thompson giving short historical background to new towns movement.

6.12 planning: social and recreational TREES IN TOWNS

Town Trees. Council for the Preservation of Rural England, Sheffield and Peak District Branch. (CPRE, Sheffield and Peak District Branch, 1947, 9d.)

Well illustrated short pamphlet on care of trees in towns intended to arouse interest in improved methods of tree management.

Simple and clearly written guide to elementary æsthetic and horticultural rules to be observed regarding appearance of trees in towns. Outline of survey to be carried out to record position, species and condition of all street trees. Suggested remedies for dealing with unhealthy or obstructive trees. Constructive contribution towards problems of preservation of urban amenities.

14.10 materials: concrete MATERIALS FOR CONCRETE

Technical Notes on Materials for Concrete Construction. (Cement and Concrete Association.)

Seven chapters dealing concisely and authoritatively with the following: cement, aggregates, mixes, mixing, placing and curing, properties, principles of reinforced concrete, typical specification clauses; 25 pp.,

illustrated with graphs and diagrams. Should be in every office.

This booklet, which maintains a welcome high standard of clarity in layout and typography sets out in an orderly way all those technical details which are so important to successful concrete mixing, but which are more often than not ignored by the builder in practice. There persist even now many mistaken ideas about how to achieve good concrete, and close supervision by the architect and exact instructions are usually specially important in this class of work; the information contained in the booklet is designed in summary form only, but as such is particularly useful for refreshing one's mind of the essentials upon which one must insist in order to obtain good concreting, notably the routine testing which should be carried out on site. Full reference is made to the pertinent British Standards, Codes of Practice and other official documents.

16.17 materials: miscellaneous BUILDING BOARD

A New Building Board. (Architect & Building News. September 19th, 1947. pp. 240.)

Short note with illustration of new building board called Stramit.

The board is made of compressed straw without any binder and has been used for many years in Sweden as an insulating and structural material. Its main attraction at present is that it is licence free.

20.43 construction: complete structures WELDING

Welding: Its Implications and Applications. P. Weidinger. (Progressive Architecture [USA], June, 1947, pp. 79-83, July, 1947, pp. 78-81.)

Reasons for limited application of welding in the past. The welding process and its testing. Advantages. Historic development. Future possibilities. Examples of welded structures.

The author gives several reasons for the slow progress of welding in its application to structural steelwork in spite of its great advantages. Welding was applied to certain portions of steel buildings for various purposes even before World War I. Fabrication of all-welded building frames started in 1920, and all-welded bridges were first constructed in 1928.

Welded structures are lighter than riveted or bolted structures and are superior in appearance. The completely welded structure, in contrast to riveted, is not an assembly of independent structural elements, joined together with intermediate connecting pieces, but is a homogeneous, organic unit. To be

fully exploited, this requires different design methods, based on the analysis of rigid frames. Analysis of these statically indeterminate structures is considerably more complex than the analysis of even "difficult" multi-storey frames. It is wrong to look upon welding as a substitute for riveting. The success of welding depends on the personal skill of the welder and very careful supervision is necessary. Before 1940, welding of structural steel in buildings was not generally permitted in Building Codes in USA. A number of large cities still require special permits.

The æsthetic advantages of welding are lost in encased structures; they can only be exploited in exposed frames. The use of sheet steel in cylindrical or spherical pressure vessels, tanks, etc., offers a promising line of development not yet realized in building construction.

The article is well illustrated by a number of interesting and striking examples.

22.12 sound insulation and acoustics REPRODUCTION OF SOUND

Frequency Range Preference for Speech and Music. H. F. Olson. (J. Acoustics Soc. Am., July, 1947, p. 549.)

Studies with direct and reproduced sound.

Preference tests have always shown hitherto that people generally, and even musical people, prefer a limited range of frequencies in reproduced sound rather than the full natural range. This investigator has conducted studies using live musical sources screened in such a way that the audience was unaware visually whether or not they were receiving the full range of sound. Extensive tests that were made showed a preponderant preference for the full frequency range. The apparently contradictory results of previous studies is attributed to the fact that when there are distortions in the sound, as is usually the case with reproduction, these are disliked less with a limited frequency range than with a larger.

25.43 water supply and sanitation MANHOLES

Draft BS C of P Sub-Code, 301.104: 1947. (British Standards Institution. 2s.)

A code of practice for building manholes.

This well illustrated draft code includes in its scope the design of manholes, inspection chambers, cleaning eyes and other forms of access to drains and sewers. There is a section on the design of manholes dealing in detail with such points as:—the siting of, size, and type of construction (whether brick, concrete, etc.), and access to the manholes. Site work and its sequences are described.

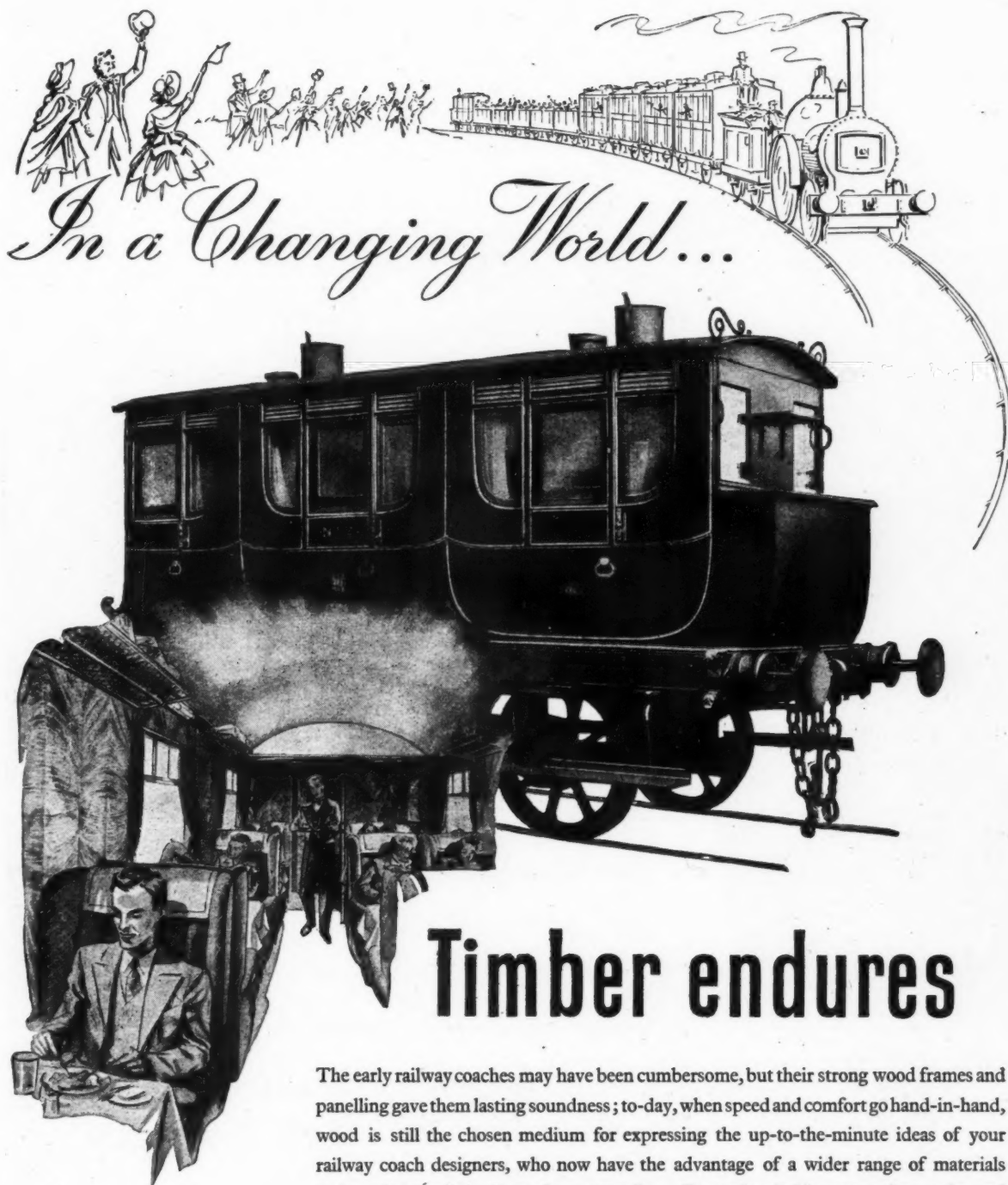
This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS

2919 LAND: BUILDING LICENCE

Q How much land is it necessary to allow for in the application for a building licence in respect of a house built to maximum cost allowed under present conditions?

A This question will be governed solely by the density zoning laid down for the district. About £100 of the permitted maximum is taken as the notional value of the land.



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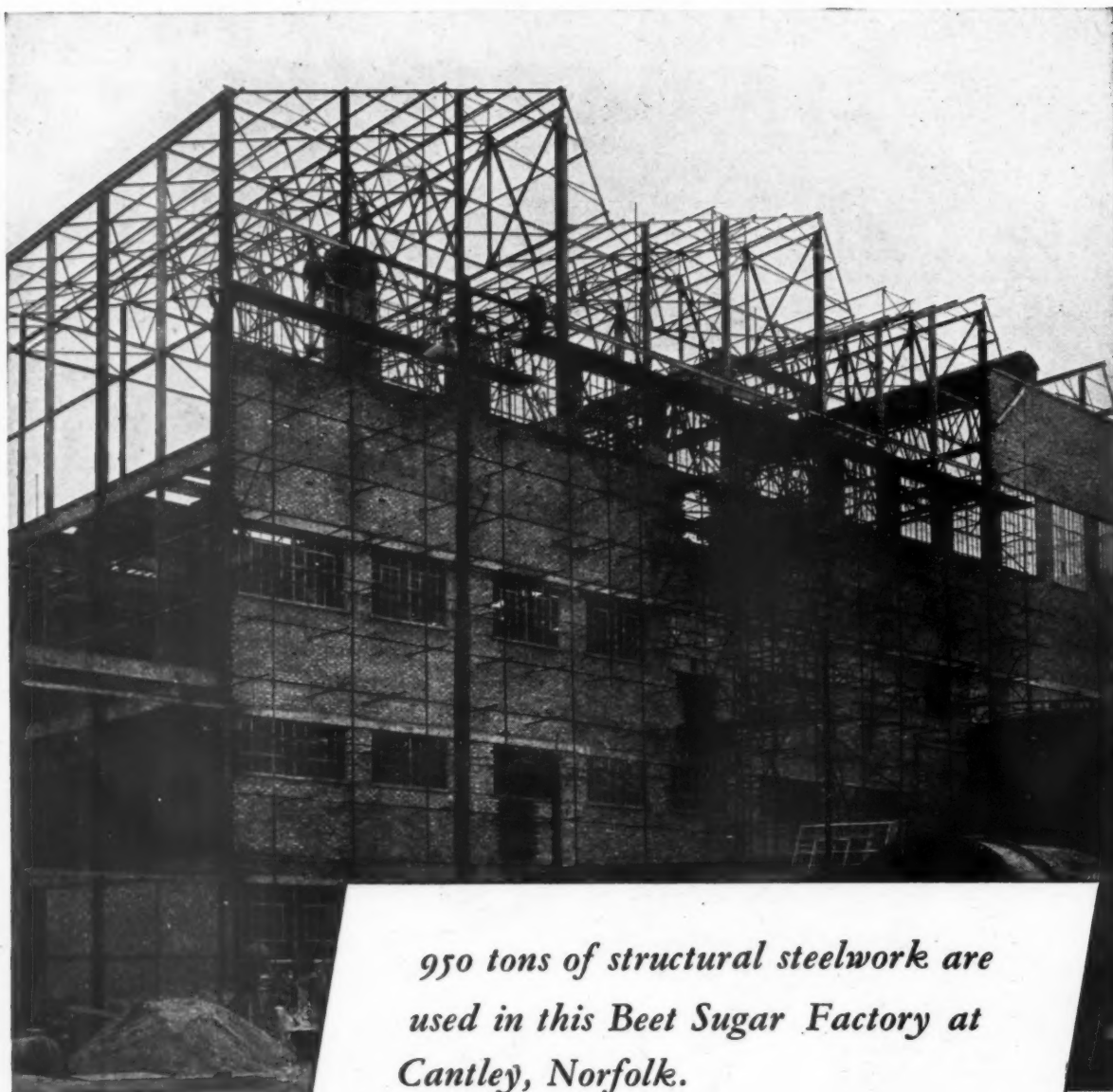
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1924



950 tons of structural steelwork are used in this Beet Sugar Factory at Cantley, Norfolk.

One of the many post-war projects whose design and construction has been entrusted to Boulton and Paul.



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

HOUSING, MATERIALS AND LABOUR

[by Ian Bowen]

HOUSING

TABLE I PERMANENT HOUSES IN GREAT BRITAIN: Cumulative Totals

	Begun			Finished		
	Local Authorities	Private Builders	Total	Local Authorities	Private Builders	Total
To Dec., 1945	20,409	—	—	1,657	1,031	2,688
1946: Oct. ..	150,882	55,800	206,682	14,570	21,177	35,747
Nov. ..	165,447	58,581	224,028	18,459	24,639	43,098
Dec. ..	178,379	61,293	239,672	23,923	28,175	52,098
1947: Jan. ..	190,340	63,319	253,659	28,440	31,609	60,049
Feb. ..	197,938	64,459	262,397	30,607	33,278	63,885
March ..	205,159	65,864	271,023	34,436	35,430	69,866
April ..	218,815	67,826	286,641	40,425	38,184	78,609
May ..	234,395	70,684	305,079	47,726	41,465	89,191
June ..	250,292	73,181	323,473	55,642	44,356	99,998
July ..	265,689	75,741	341,430	63,975	47,316	111,291
Aug. ..	280,197	78,582	358,779	71,646	49,813	121,459
Sept. ..	295,549	80,208	375,757	81,983	52,323	134,306
Increase of Sept. over Aug. ..	15,352	1,626	16,978	10,337	2,510	12,847
Total at Sept. 30, 1947						
Local Authorities	..	..	..	213,566	81,983	295,549
Private Builders	..	..	..	27,885	32,323	60,208
War-destroyed rebuilt	..	..	..	16,325	14,756	31,081
Government Departments	..	..	..	2,203	413	2,616
Total	..	..	..	259,979	149,475	409,454

TABLE II TEMPORARY HOUSES IN GREAT BRITAIN: Cumulative Totals

	Slabbing Begun	Slabbing Completed	Erection Begun	Erection Completed
To Dec., 1945	61,008	39,998	22,932	9,376
1946: Oct. ..	122,742	109,368	93,201	70,121
Nov. ..	128,258	112,837	98,650	80,135
Dec. ..	131,646	115,711	103,796	92,306
1947: Jan. ..	134,023	118,451	107,214	97,070
Feb. ..	136,238	118,734	109,033	99,461
March ..	137,992	119,759	111,002	101,717
April ..	140,333	123,757	115,166	106,664
May ..	141,786	127,270	118,653	111,829
June ..	143,769	130,735	122,353	115,086
July ..	147,661	134,956	126,375	119,960
Aug. ..	151,036	138,352	129,535	122,992
Sept. ..	152,730	142,359	133,328	126,279
Increase of Sept. over Aug. ..	1,694	4,007	3,793	3,287

Temporary Houses Under Construction at Sept. 30: 7,049.

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

	Begun	Completed
To end April 1947	42,170	6,687
" May ..	46,793	8,281
" June ..	52,075	10,009
" July ..	57,935	12,160
" Aug. ..	63,293	14,161
" Sept. ..	69,183	17,582

Non-traditional Houses Under Construction at Sept. 30: 51,601 (In addition to the above, construction has begun on 80 permanent aluminium houses.)

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

	Unoccupied War-Damaged Houses Repaired	Conversions and Adaptations
To end April 1947	116,772	44,909
" May ..	119,062	47,294
" June ..	121,836	49,616
" July ..	123,537	51,691
" Aug. ..	124,967	53,627
" Sept. ..	126,542	55,685
Increase of Sept. over Aug. ..	1,575	2,058

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

TABLE V BUILDING MATERIALS PRODUCTION AND STOCK:

Material	Unit	July-Sept., 1946		July-Sept., 1947	
		Pro-duction	Stocks†	Pro-duction	Stocks‡
Cement ..	th. tons	(monthly average) 595	252	(monthly average) 676	211
Bricks ..	millions	336	267	407	259
Roofing materials					
Clay tiles ..	th. squares	49.9	25.8	73.5	43.9
Concrete tiles ..	"	37.1	26.8	58.2	54.5
Slates ..	"	23.8	35.7	—	—
Asbestos cement sheeting ..	th. tons	26.7	—	24.9	—
Roofing felt ..	th. rolls of 24 sq. yds.	198	93	236	167
Ceilings, Wall Linings and Floorings					
Plaster gypsumous ..	th. tons	15.8	—	16.6	—
Plasterboard ..	th. sq. yds.	2,910	298	3,465	301
Tiles					
Glazed ..	th. sq. yds.	458	—	493	—
Floor (Clay) ..	"	105	—	172	—
Pipes (Water, Gas, etc.)					
Lead ..	th. tons	3.76	—	3.99	—
Copper ..	"	2.52	—	2.94	—
Soil Pipes (cast iron)	"	1.44	—	2.03	—
Asbestos Cement Goods	th. tons	—	—	.37	—
Drain Pipes, Salt Glazed ..	"	30.6	—	42.5	—
Rainwater Goods, Rainwater Pipes, Gutters and Fittings					
Cast Iron and Pressed Steel	th. of equiv. tons of cast iron	3.47	—	5.04	—
Asbestos Cement Goods	th. tons	—	—	1.75	—
Manhole Covers and Frames	th. of equiv. tons of cast iron	3.25	—	2.81	—
Metal Windows ..	Mn. ft. sup.	3.14	2.10	4.12	3.11
Sanitary Fittings	thousands	23.6	—	30.5	—
Baths ..	"	72.4	—	78.5	—
Lavatory Basins ..	"	52.5	—	61.6	—
Sinks ..	"	84.0	—	95.3	—
W.C. Pans ..	"	11.9	—	18.8	—
Cookers ..	"	13.3	—	21.1	—
Solid Fuel ..	"	28.7	—	33.8	—
Electric ..	"	52.2	—	82.9	—
Gas ..	"	17.6	—	16.1	—
Fires, Solid Fuel ..	"	37.7	—	35.9	—
Wash Boilers ..	"	3.0	—	4.2	—
Electric ..	"	32	—	1.64	—
Gas ..	"	—	—	—	—
Furnace Pans (Solid Fuel)	thousands	—	—	—	—
Solid Fuel ..	"	—	—	—	—
Softwood Timber (Imports and Home Produced)	th. stds.	76.4	150.9	189.0‡	296.6†

† At end of period.

‡ Imports only.

† August figure.

LABOUR

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

Type of Work	July, 1945	Sept. 1946	Sept. 1947*
Total	535.0	935.0§	1,005.0
Housing	343.9	(607.4)	552.6
Permanent (Construction, and preparation of sites)	17.4	190.6	257.0
Temporary	14.5	39.9	11.3
Other (repairs, etc.)	312.0	(376.9)	284.3
Other Work	191.1	(321.6)	452.4

* Provisional. † In thousands.

§ This total has been revised upwards from 929,000. Revised figures have not been published for all the types of work shown in this table, and earlier estimates which may have been altered are shown in brackets.

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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

[by Philip Scholberg]

BS. HANDBOOK NO. 3

The original edition of this handbook was published in 1944, with a supplement in 1945, and it was intended that both should be used as a sort of appendix to the then recently issued *Housing Manual*. The present revision, due for publication next Monday, November 17, contains summaries of some 240 BS chosen from those applicable to the building industry as being of most interest to those connected with housing, but it should also be a very useful guide to the industry in general.

The summaries are intended only to give as much information from the full BSS as is necessary for day-to-day reference by the ordinary user, and for this reason the details of the various tests are omitted. The handbook is correct up to December 31, 1946, but there has been the now inevitable delay in the printing. No reference book of this kind can ever be accurate for more than a day or two, and such standards as were under revision are so marked in the handbook, while there is an addendum leaflet bringing the book up to the end of June this year. This leaflet lists the changes which have been made, and it is intended that it shall be frequently revised so that buyers of the handbook will be able to keep themselves up to date. Users are also advised to obtain copies of the BSI's monthly information sheet.

Indexing has obviously been something of a problem, for BS, with whatever industry they are associated, are listed in numerical order of publication. To devise a system which would conform to the customary grouping of all industries at once would probably be beyond the wit of man, or at best very cumbersome, and therefore the present somewhat unsatisfactory system is presum-

ably the only compromise. To overcome the trouble the handbook has three separate indices, a numerical one in the order of the specifications, a subject index grouped under types of material or trades, and finally an alphabetical subject index occupying eleven pages, so that there should be little difficulty in finding the necessary data. At any rate, the index worked well enough when I picked one or two subjects at random and looked in what I thought would be the obvious places.

Copies are a guinea, which cannot be too much for 600 odd pages full of mostly essential information. (*The British Standards Institution, 28, Victoria Street, Westminster, London, S.W.1.*)

A NEW STRAWBOARD

Lloyd Boards, Ltd., well enough known to most of us as manufacturers of hardboard, have now started to produce a heat and sound insulating board made of compressed straw and faced on both sides with a kraft paper skin. Swedish in origin, the board has a standard thickness of 2 inches and a thermal conductivity of 0.60 BTU per sq. ft. per inch thickness per °F. temperature difference. Standard sizes are all 4 feet wide with a length of 8, 9 or 10 feet. Weight is about 22 lb. per cubic foot.

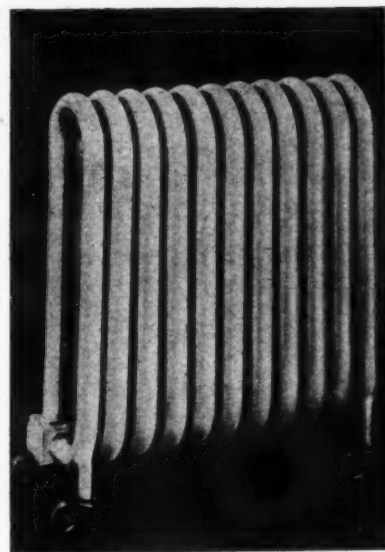
Since the material is composed of straw, it might be thought that fire resistance would be poor, but a spread of flame test to BSS 476 puts it in class III, with untreated timber and plywood. Swedish insurance companies are said to have assessed it on an equal basis with timber. Its high resistance, compared with its constituent straw presumably is due to the high degree of compression to which it is subjected during manufacture.

Stramit is put forward as a heat and sound insulator, and also as being strong enough for non-load-bearing partitions. Various working details are shown in the catalogue, including an interesting use as a roofing material fixed to purlins at 4 ft. 6 in. centres and then covered with two layers of bituminous felt or hot mastic.

On the site the boards can be cut with a fine-toothed saw, after which the exposed edges should be bound with adhesive tape or strong paper. (*Lloyd Boards Ltd., 15, Portman Street, London, W.1.*)

ANOTHER CONE JOINT

Yet another cone joint has appeared on the market, this time the work of Automotive products, who make a whole lot of things like brake and steering gears, shock absorbers, and hydraulic fittings of all kinds, generally marketed under the name of Lockheed. The part section drawing shows the general arrangement; in use it follows the now almost standard practice. Cut the tube to length, push it into the coupling and tighten the nut, when the cone becomes fixed to the tube and the joint



Electrically heated radiator. See Electric Radiators.

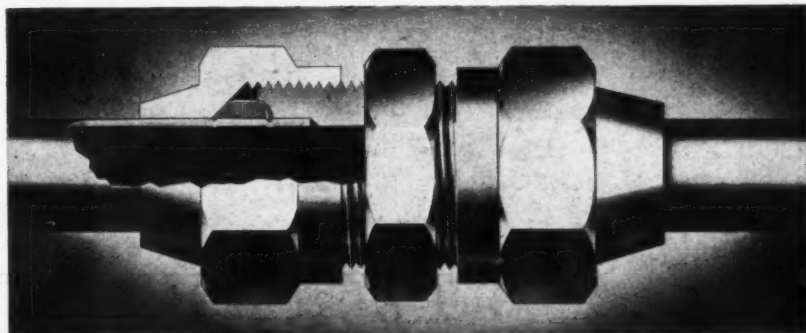
can thereafter be broken and re-made as often as necessary. This particular joint has been approved by the British Waterworks Association for all domestic uses. (*The Automotive Products Co., Ltd., Leamington.*)

ELECTRIC RADIATORS

A photograph on this page shows an electrically heated radiator which has apparently been popular for some years in Switzerland, and which is now being made in this country. The unit is constructed of seamless steel tubes which are filled with oil in which the heating element is submerged. A three-heat switch gives control, and the rating is 1,200 watts at full load, while there is a small tray inside the coils which is filled with water so that the air of the room does not become too dry. The whole unit is mounted on wheels so that it can easily be moved about, and the fact that the radiating surface never rises above a temperature of about 180° F. means that it is perfectly safe for use in nurseries or schools. The retail price is 14 guineas, plus the usual 66 per cent. purchase tax, making a total of £22 6s. 10½d. The only criticism I have to make is that if the unit is used for drying clothes the temperature may rise too far, and it would certainly be an improvement if the three-heat switch were replaced with something like the Simmerstat control,



Prefabricated slate roofing. See Rapid Slating, page 440.



Sectional view of a Conelock straight coupling. The collar has nipped slightly into the wall of the tube, making a perfect seal and providing a positive coupling action. See Another Cone Joint.

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

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal."

Please ask manufacturers to send further particulars to:—

NAME.....

ADDRESS.....

A.J. 13.11.47

(The Industry concluded.)

which should not add a great deal to the price. (*Ocean Home Appliances Ltd., 99A, Park Lane, London, W.1.*)

Park Lane, London. RAPID SLATING

An illustration on the previous page shows the prefabricated slate roofing referred to in the A.J., October 30. Until the MOW tests on a complete house roof are finished no particularly useful comment can be made, but it seems reasonable to suggest that it is one thing to lay roof panels when you are on the ground and perhaps a little different on a real roof on a windy day. I should expect a rather high proportion of breakages, but if costs are really reduced by 30 per cent. it should still show a very worthwhile saving. Time alone will show.

Buildings Illustrated

An Industrial Building, Great West Road, Brentford. (Pages 427-430). Architects, Wallis, Gilbert & Partners; general contractor, John Laing & Son, who were also responsible for the plumbing; clerk of works, J. Blythe; general foremen, Ben Evans and J. Clenahan. Sub-contractors: BRC Co., design and steel for reinforced concrete; Emerson & Norris, artificial stone; Boulton & Paul, Ltd., structural steel; Carter & Co. (London), Ltd., tiles and tiling; Crittall Manufacturing Co., Ltd., patent glazing and casements; H. W. Dutton & Co., Ltd., central heating and ventilation; Davy Paxman, two brick set Economic boilers; Electric Insulations, Ltd., electric wiring; John Bolding and Son, sanitary fittings; James Walker (Architectural Decorations), Ltd., decorative

plaster, special joinery and marble; William Pickford, metal work; Waygood-Otis, lifts.

Announcements

At the RIBA Examination held in July, 1947, the following were successful and have been awarded the RIBA Diploma in Town Planning:—Fairhurst, Robert Francis; Poppleton, William Claude.

At the Annual General Meeting of the English Joinery Manufacturers' Association (Incorporated), Mr. James B. Austin was unanimously re-elected President.

Messrs. Hammitt & Norton, A./A.R.I.B.A., Chartered Architects, have moved to 29, Sackville Street, Piccadilly, London, W.1. Tel.: Regent 0659.

Mr. R. S. Dean, A.R.I.B.A., A.R.I.C.S., A.M.I.MUN.E., has started practising at 50, George Street, Croydon. He will be pleased to receive trade catalogues, etc.

The Sand Lime Brick Manufacturers' Association states that manufacturers of sand lime bricks in various parts of the country, hold stocks in excess of current requirements necessary to meet W.B.A. priorities. It is suggested that architects should confirm with their local Licensing Officers that this class of brick may be used in any projected building work. The names and addresses of manufacturers may be obtained from the Secretary of the Sand Lime Brick Manufacturers' Association, Ltd., 55, Romney Street, S.W.1.

A 27-minute film, *Hadrian's Works*, has been produced by Films of Industry for Smith and Walton, Ltd., paint manufacturers, of Halthwistle. The film is to be shown shortly in technical schools and other instructional groups in this country, and is also being adapted for distribution abroad.

Information Sheet on fuel economy

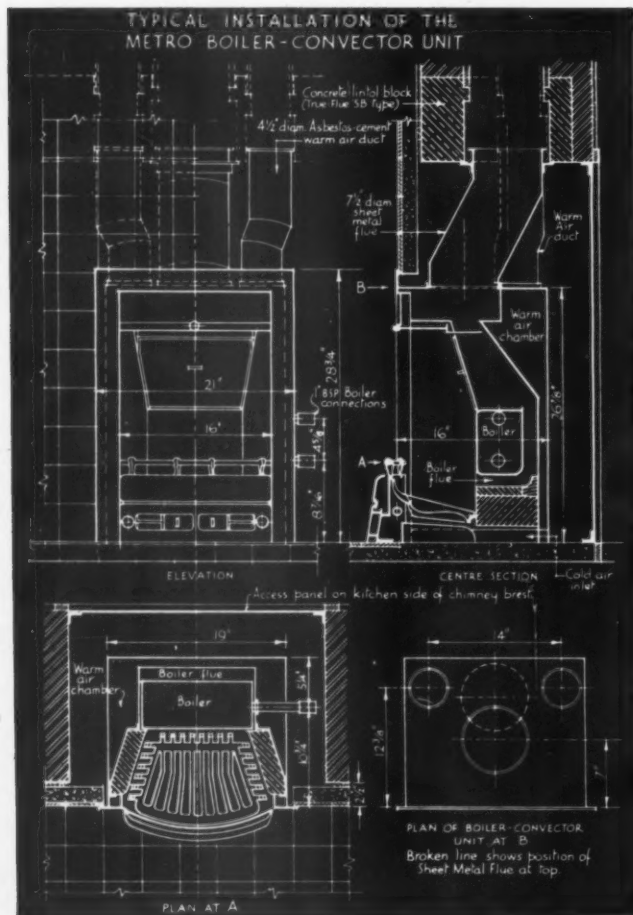
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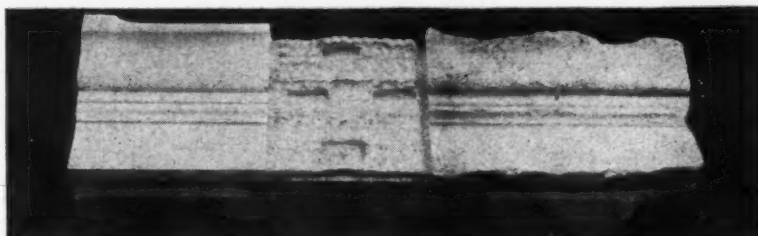
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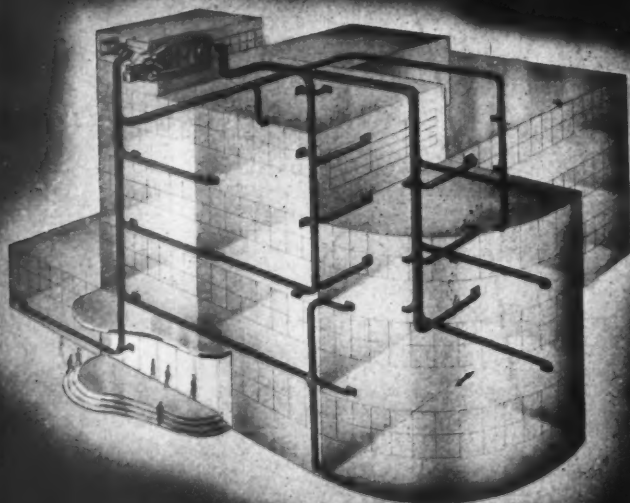
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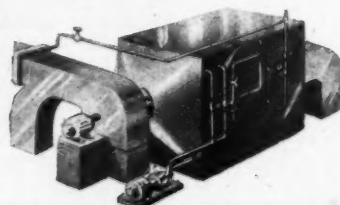
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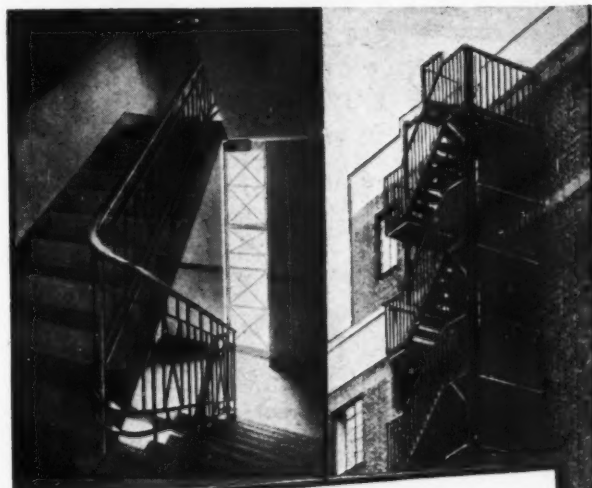
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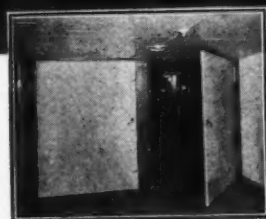
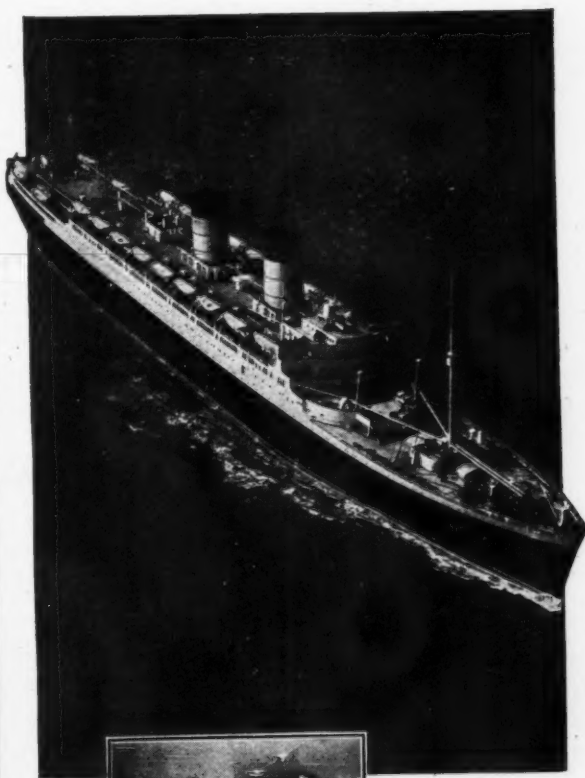
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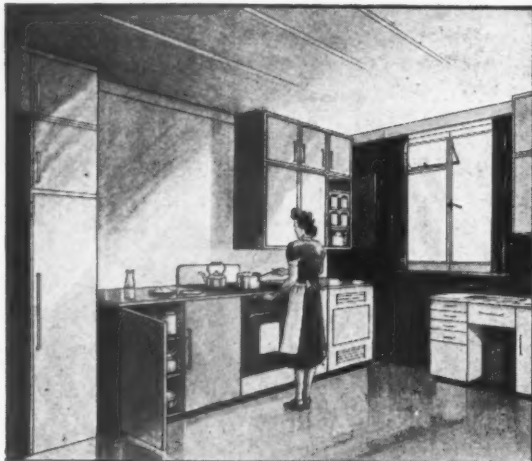
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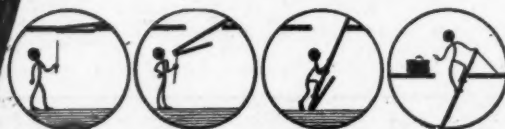
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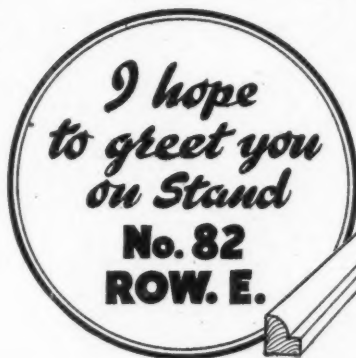
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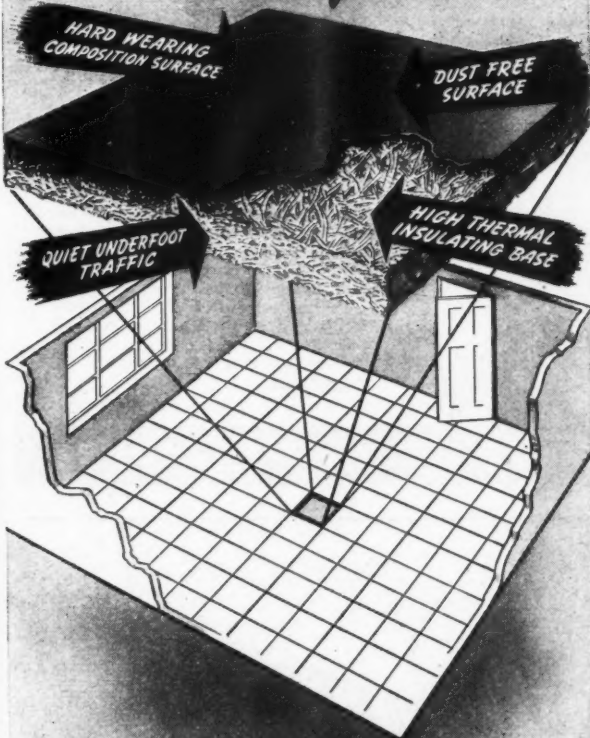


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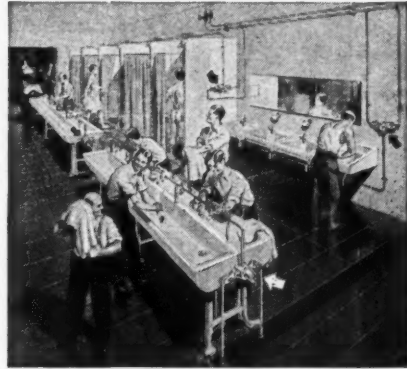
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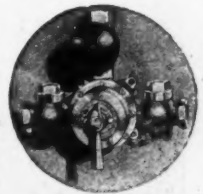
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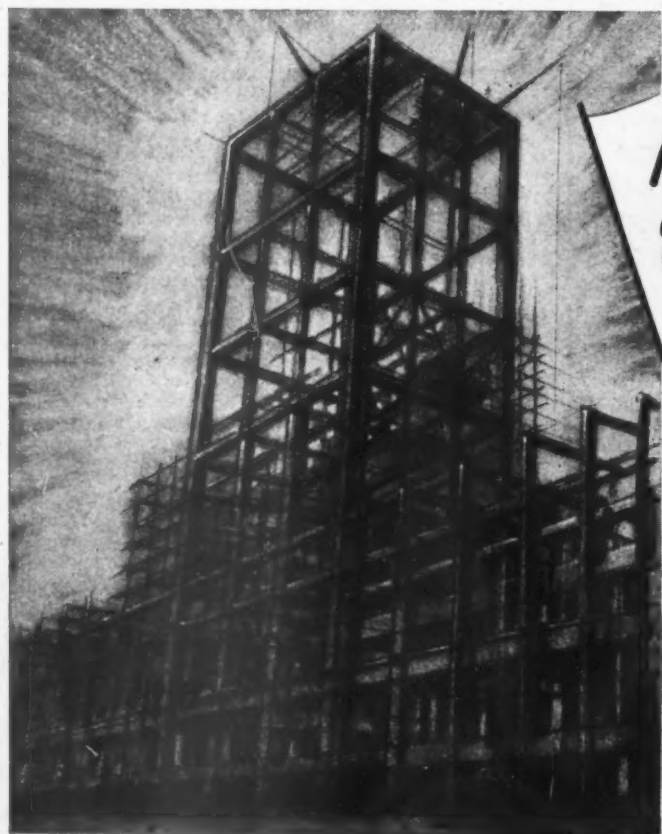
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Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

None of the vacancies in these columns relates to a man between the age of 18 and 56, 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 staff vacancies. Address: 75, Eaton Place, London, S.W.1. TEL. SLOANE 5615. 991

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CROWN AGENTS FOR THE COLONIES.

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

QUANTITY SURVEYOR required by Uganda Government, Public Works Department, for 2 to 3 years, with prospect of permanency. Commencing salary according to experience, if necessary well above minimum, in scale £450 to £840, plus cost-of-living allowance up to £162. Outfit allowance £30. Free passages and quarters. Candidates should be qualified Quantity Surveyors, with considerable experience in measurement of work and adjustment of variations in large building contracts and preparation of specifications and 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 4/N/16618 on both letter and envelope. 1055

COUNTY BOROUGH OF SOUTHEND-ON-SEA

EDUCATION COMMITTEE.

MUNICIPAL COLLEGE.

Acting Principal: B. THOMSON, B.Sc.(Eng.), A.C.G.I., M.I.E.E.

DEPARTMENT OF ARCHITECTURE AND BUILDING (which is recognised by the R.I.B.A.).

Applications are invited for a LECTURER IN ARCHITECTURE. Candidates should possess the A.R.I.B.A. Special interest in Building Construction and Design. Both teaching and professional experience are desired. The successful applicant will be required mainly to teach students studying in the recognised School for the Intermediate and Final F.R.I.B.A., and will be directly responsible to the Head of the Department, M. J. M. Scott, A.R.I.B.A.

The salary will be in accordance with the Burnham Technical Scale (Provincial), with increments for recognised teaching, professional or industrial experience. Further details and forms of application may be obtained from the undersigned on receipt of a stamped and addressed foolscap envelope. Applications to be returned to the Principal within a fortnight of the date of this advertisement.

H. BOYES WATSON, Chief Education Officer.

Education Offices, Warrior Square, Southend-on-Sea.

3rd November, 1947. 1048

BOROUGH OF WEMBLEY.

PERMANENT ARCHITECTURAL AND QUANTITY SURVEYING APPOINTMENTS.

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

(a) SECOND ASSISTANT ARCHITECT.

Salary grade, A.P. & T. IV, of the National Salary Scales, i.e. (including London weighting), £440 × £15 to £485, plus cost-of-living bonus (at present £59 16s. per annum). Applicants should have been trained as Architects and have had practical experience of design and construction of Public Buildings and/or Municipal Houses and Flats. Preference will be given to candidates who have passed the A.R.I.B.A. examination or possess equivalent qualifications.

(b) ASSISTANT QUANTITY SURVEYOR.

Salary grade, A.P. & T. V, of the National Salary Scales, i.e. (including London weighting), £480 × £15 (2) × £20 to £530, plus cost-of-living bonus (at present £59 16s. per annum). Applicants should have had considerable experience of the preparation of Bills of Quantities and settlement of final accounts for Public Buildings and Municipal Dwellings. Candidates should be Associates of the R.I.C.S., and have considerable knowledge of building construction.

The appointments will be subject to the National Scheme of Conditions of Service and to the provisions of the Local Government Superannuation Acts, 1937 and 1939. The successful applicants will be required to pass a medical examination.

Applications, by letter, stating full name, address, age, qualifications, present and previous appointments, training, and full details of experience, and if a relative of any member or officer of the Council, together with the names and addresses of three referees (testimonials not required), must be received by the Borough Engineer and Surveyor by the 19th November, 1947.

Canvassing, directly or indirectly of members of the Council, will disqualify an applicant.

KENNETH TANSLEY, Town Clerk.

Town Hall, Wembley, Middx. 1015

31st October, 1947.

SOUTHAMPTON COUNTY BOROUGH.

APPOINTMENT OF TOWN PLANNING STAFF.

Applications are invited for the following appointments:—

(1) SENIOR ASSISTANT PLANNING OFFICER, Grade VI (£535-£600), plus war bonus (permanent).

(2) ASSISTANT PLANNING OFFICER, Grade IV (£420-£465), plus war bonus (permanent).

These appointments are primarily in connection with the reconstruction of the central area of Southampton and the preparation of the outline plan for the Borough. Candidates should have a special knowledge of the problems involved in drawing up practical proposals for urban redevelopment, and preference will be given to applicants who have passed the examination of the Town Planning Institute.

(3) PLANNING ASSISTANT, Grade I (£330-£375), plus war bonus (temporary).

(4) JUNIOR PLANNING ASSISTANT, General Division (£25-£300, according to age), plus war bonus (temporary).

Preference will be given to candidates who are anxious to qualify for membership of the Town Planning Institute.

The above posts are subject to the National Joint Council Scheme of Conditions of Service, as adopted by the Corporation, and to the passing of a medical examination for the purpose of the Local Government Superannuation Act, 1937. Applications, stating age, qualifications and experience, and enclosing copies of two recent testimonials, should reach the undersigned not later than 24th November, 1947.

DENIS WINSTON, M.A.B.Arch., A.R.I.B.A., M.T.P.I., Borough Architect.

Civic Centre, Southampton. 1051

October, 1947.

ISLE OF MAN LOCAL GOVERNMENT BOARD.

ARCHITECT AND PLANNING OFFICER.

Applications are invited for the post of Architect and Planning Officer, to the Isle of Man Local Government Board. Commencing salary, £750 per annum.

Applicants must be Fellows or Associates of the Royal Institute of British Architects, and must either hold a diploma recognised by the Town Planning Institute or have had experience in Town and Country Planning.

Subject to the approval of His Excellency the Lieutenant-Governor, the post will be declared pensionable for the purposes of the Isle of Man Superannuation (Officers of Boards) Scheme, 1934.

Applications, stating age, qualifications, experience, and particulars of previous appointments held, and accompanied by copies of not more than three recent testimonials, should be enclosed in an envelope endorsed "Architect and Planning Officer," and forwarded to the undersigned so as to be received not later than 5 p.m. on Friday, the 21st day of November, 1947.

This 25th day of October, 1947.

W. K. KAKHAN, 1014

6, Mount Havelock, Douglas, Isle of Man. Secretary.

METROPOLITAN BOROUGH OF PADDINGTON.

HOUSING DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for this appointment, on the permanent establishment of the Council's Housing Department. The appointment is graded III and IV of the A.P.T. Division of the National Joint Council's Scheme of Conditions of Service, at a commencing salary of £410 per annum, rising by annual increments of £15 to a maximum of £485 per annum, inclusive of London "weighting," plus cost-of-living bonus, at present £59 16s. per annum for men and £48 2s. per annum for women.

Candidates must be suitably qualified, and preference will be given to Associates of the Royal Institute of British Architects or those in an advanced stage of preparation for the final examination of that Institute.

The appointment will be subject to the Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and to the provisions of the Paddington Borough Council (Superannuation and Pensions) Acts.

Forms of application and further conditions of appointment can be obtained from the undersigned on receipt of a stamped, addressed, foolscap envelope, and they must be submitted to me, together with copies of three recent testimonials, not later than Saturday, 29th November, 1947.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY, Town Clerk.

Town Hall, Paddington, London, W.2. 1052

WANDSWORTH BOROUGH COUNCIL.

ARCHITECTURAL ASSISTANTS.

Applications are invited for two established appointments as Architectural Assistants, in the Borough Architect's Department, at a salary in accordance with A.P.T. Division, Grade IV, viz., £500-£545 per annum, including London weighting and cost-of-living bonus.

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

The appointments will be subject to (a) the provisions of the Wandsworth Borough Council (Superannuation) Acts, 1909-1940; (b) to the passing of a medical examination by a medical officer nominated by the Council; and (c) to the National Scheme of Conditions of Service.

Forms of application are obtainable from Mr. W. H. Beasley, A.R.I.B.A., F.R.I.C.S., Borough Architect, and may be returned, endorsed "Architectural Assistant," to the undersigned, not later than 29th November, 1947.

R. H. JERMAN, Town Clerk.

Municipal Buildings, Wandsworth, S.W.18. 1051

COUNTY BOROUGH OF SUNDERLAND

EDUCATION COMMITTEE.

Applications are invited from fully qualified applicants for a post as SENIOR ARCHITECTURAL ASSISTANT.

Candidates should have had considerable experience and be capable of handling work from the sketch plan stage to completion. Salary in accordance with Grade V of the National Scales of Salaries, i.e., £460-£510, plus cost-of-living bonus, at present £59 19s. 3d.

The appointment will be subject to the Local Government Superannuation Act, 1937, and to the selected candidate passing a medical examination as required by the Council.

Canvassing will be a disqualification.

Applications, giving full particulars, qualifications, experience, age, accompanied by copies of not more than three recent testimonials, should reach the undersigned not later than Saturday, 29th November, 1947.

W. THOMPSON, Director of Education.

Education Offices, 15, John Street, Sunderland. 1025

29th October, 1947.

**COUNTY BOROUGH OF HALIFAX.
BOROUGH ENGINEER'S DEPARTMENT.
APPOINTMENT OF DEPUTY BOROUGH
ARCHITECT.**

Applications are invited for the above position, at a salary in accordance with Grade VII (A.P.T.) of the National Scales, but commencing at a salary of £600 and rising to £650 per annum, plus cost-of-living bonus.

The successful candidate will be expected to take control, under the Borough Engineer, of that section of the department which is responsible for Architectural works, including housing.

Applicants must be A.R.I.B.A. or hold equivalent qualifications, and must have had considerable experience in Architectural design and construction.

The appointment is a superannuated one, and the successful candidate will be required to undergo a medical examination.

The Corporation have decided that in the letting of requisitioned houses, consideration should be given to the requirements of newly appointed members of the staffs of Corporation Departments.

Applications, stating age, qualifications, present position and salary and experience, accompanied by copies of three recent testimonials, and endorsed "Deputy Borough Architect," should be delivered to the undersigned not later than Saturday, 29th November, 1947.

W. USHER,
Town Clerk.

Town Hall, Halifax.
3rd November, 1947.

1057

**SOUTHAMPTON COUNTY BOROUGH.
APPOINTMENT OF ARCHITECTURAL
STAFF.**

Applications are invited for the following appointments:—

(1) ASSISTANT ARCHITECT, Grade V (£460-£510), plus war bonus (permanent).

The Borough Architect is responsible for all architectural work carried out by the Council, including the housing, education and public health programmes, and opportunity is given for varied experience dependent on ability. Preference will be given to candidates who have passed examinations for membership of the Royal Institute of British Architects.

(2) ARCHITECTURAL ASSISTANT, Grade II (£360-£405), plus war bonus (temporary).

(3) ARCHITECTURAL ASSISTANT, Grade I (£370-£375), plus war bonus (temporary).

(4) JUNIOR ARCHITECTURAL ASSISTANT, General Division (£65-£306, according to age), plus war bonus (temporary).

Preference will be given to Probationers or Students of the Royal Institute of British Architects who intend to qualify for Associate Membership and become Registered Architects.

The above posts are subject to the National Joint Council Scheme of Conditions of Service, as adopted by the Corporation, and to the passing of a medical examination for the purposes of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications and experience, and enclosing copies of two recent testimonials, should be sent to Denis Winston, M.A.B.Arch., A.R.I.B.A., M.T.P.I., Civic Centre, Southampton, to arrive not later than 24th November, 1947.

1050

**BOROUGH OF WILLESDEN.
APPOINTMENT OF TOWN PLANNING
ASSISTANTS.**

The Council invite applications for the following appointments on the temporary staff of the Borough Engineer and Surveyor's Department, in connection with the preparation of Town Planning and Redevelopment Schemes.

(a) ONE FIRST CLASS TOWN PLANNING ASSISTANT.

(b) ONE SECOND CLASS TOWN PLANNING ASSISTANT.

Candidates for both appointments must possess one or more of the following qualifications:—Associate of the Royal Institute of British Architects, an Associate Membership of the Town Planning Institute, Professional Association of the Royal Institution of Chartered Surveyors, the Testamur of the Institution of Municipal Engineers or an equivalent qualification, and preferably have had experience in the preparation of Town Planning Schemes.

The salaries attaching to these appointments will be in the Administrative, Professional and Technical Division of the National Council's Scale for the London Area, namely for appointment (a), Grade VI, i.e., £555 per annum, rising by two annual increments of £20 and one annual increment of £25 to a maximum of £620 per annum, plus cost-of-living bonus, which at present is £59 16s., and for appointment (b), Grade V, i.e., £480 per annum, rising by two annual increments of £15 and one annual increment of £20 to a maximum of £530 per annum, plus cost-of-living bonus, which is at present £59 16s. per annum.

The appointments will be terminable by one month's notice on either side, and subject to the Local Government Superannuation Act, 1937, as regards temporary appointments.

Applications, together with not more than three recent testimonials, should be forwarded to the undersigned, endorsed "Town Planning Assistant," not later than 10 a.m. on 28th November, 1947.

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

(Sgd.) R. S. FORSTER,
Town Clerk.

Town Hall, Dyne Road, Kilburn, N.W.6.
1st October, 1947.

1055

**GOVERNMENT OF SOUTHERN RHODESIA.
DEPARTMENT OF INTERNAL AFFAIRS.
TOWN PLANNING AND LOCAL GOVERN-
MENT SECTION.**

Applications are invited for the posts of ASSISTANT TOWN PLANNING OFFICERS, on a salary scale of £495 per annum, increasing by annual increments of £27 10s. to £650 per annum, plus cost-of-living bonus, and by annual increments of £33 to £935 per annum, with efficiency bars at £550 and £660. Applicants for this appointment should be Associate Members of the Town Planning Institute, and preference will be given to candidates holding a recognised qualification in Architecture. The commencing salary of the successful applicant may be higher than the minimum of the grade, according to qualifications and experience. On salaries of £660 per annum or less a marriage allowance of £50 per annum will be paid to married officers. A maximum commencing salary of £737 per annum may be offered to candidates with requisite qualifications and experience. Appointments will be for a probationary period of two years.

Cost-of-living allowances: Cost-of-living allowances at rates prescribed from time to time are paid in addition to salary. At present the rate is 10 per cent. of basic salary, limited to a maximum of £100 per annum, plus £24 per annum for first child and £18 per annum for each additional child.

Income tax: The first £800 of taxable income will be free of tax in the case of married persons. There are in addition rebates of tax for children and in respect of insurance premiums and payments by the taxpayer to friendly or benefit societies.

Subject to satisfactory services successful applicants will be eligible for appointment to the fixed establishment on the expiration of the probationary period, and will be required to become members of the Pensions Fund on a contributory basis.

Applicants will be required to furnish a satisfactory medical certificate in the prescribed form by a Government Medical Officer. The successful candidates will be subject to the Civil Service Regulations which, among other matters, allow for officials drawing £550 per annum or more to be granted vacation leave on full pay, subject to the exigencies of the service on a basis of one-eighth of the time served. (For example, 480 days' service completed, 60 days vacation leave on full pay accumulated.)

Third class rail fares from the home town in the United Kingdom to the port of embarkation will be paid for successful applicants, their wives and families.

A detention allowance of 10s. per diem in the case of single persons and £1 per diem for married persons will be paid in respect of any period necessarily spent at the port of embarkation awaiting sailing, provided a certificate, to the effect that the period of detention was reasonable and unavoidable, signed by the High Commissioner for Southern Rhodesia, is produced.

A second class steamship passage will be paid for successful applicants and half the cost of similar passages in respect of their wives and dependent children under the age of 18 years will be borne by the Southern Rhodesia Government.

First class rail fare and half the cost of similar rail fare in respect of wives and dependent children will be paid from the port of disembarkation in South Africa to Salisbury, Southern Rhodesia.

In addition, subsistence allowance at full tariff rates will be paid in respect of the successful applicants and at half rates in respect of their wives and families from the time of departure by rail from the port of disembarkation to the time of arrival in Salisbury.

Application forms may be obtained from the Office of the High Commissioner for Southern Rhodesia, 429, Strand, London, W.C.2. and must be returned completed before the 26th November, 1947.

1072

**COUNTY BOROUGH OF ROTHERHAM.
ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of an Architectural Assistant, in the office of the Borough Engineer, at a commencing salary of £420 per annum, rising by annual increments to a maximum of £465 per annum, plus cost-of-living bonus (at present £59 16s. per annum).

Applicants must be Associate Members of the Royal Institute of British Architects, and preferably with experience in the service of a Local Authority.

The post is superannuated, and the candidate selected for appointment will be required to pass a medical examination. The appointment will be subject to the conditions of service adopted by the Council and based on the National Scheme of Conditions of Service. It will be determinable by one month's notice on either side.

Applicants must state whether they are related to any member or officer of the Rotherham County Borough Council. Deliberate omission to disclose any such relationship will disqualify any candidate.

Canvassing of members of the Council, whether direct or indirect, will be disqualifying.

Applications (endorsed "Architectural Assistant"), stating age, qualifications and experience, accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than Saturday, 6th December, 1947.

JOHN S. WALL,
Town Clerk.

Municipal Offices, Rotherham, Yorks.

1068

ARCHITECTS.

The Imperial War Graves Commission have vacancies at their Headquarters in London for ARCHITECTURAL ASSISTANTS, Grade I and II. Candidates for appointment to Grade I should be up to final R.I.B.A. standard, skilled draughtsmen, and able to prepare working drawings from sketch designs, salary scale £550-£20-£650. Grade II should be intermediate R.I.B.A. or equivalent, and have had experience in an Architect's office, salary scale £401-£15-£520.

Applications to be addressed to Appointments Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks.

1043

**UNIVERSITY OF CAMBRIDGE SCHOOL OF
ARCHITECTURE.**

Applications are invited for the post of FACULTY ASSISTANT LECTURER. The applicant must be an Associate of the R.I.B.A. capable of giving instruction in Architectural Drawing and Design, and qualified to lecture on Building Construction. Ability to lecture on the Theory of Structures is desirable though not essential.

Particulars of stipend and duties may be obtained from the Secretary of the Faculty Board of Fine Arts, 1, Scroope Terrace, Cambridge. Applications must reach this address not later than Thursday, November 27, 1947.

1067

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

Applications are invited for the appointment of a SENIOR ASSISTANT ARCHITECT, in the Borough Surveyor's Department, at a salary in accordance with A.P.T., Grade VI (£535-£600), plus cost-of-living bonus, which is at present at the rate of £59 16s. per annum.

The appointment will be made at a point within the scale according to qualifications.

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

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

Applications, appropriately endorsed, stating age, qualifications, experience, present and past appointments, together with not more than three recent testimonials, should be delivered to the Borough Engineer and Surveyor, Town Hall, West Bromwich, not later than the 29th November, 1947.

H. SCHOFIELD, B.Sc.(Eng.).
A.M.I.C.E.,
Borough Engineer and Surveyor.

Town Hall, West Bromwich.
3rd November, 1947.

1059

**COUNTY BOROUGH OF WEST HARTLEPOOL.
APPOINTMENT OF QUANTITY SURVEYOR.**

Applications are invited from qualified persons for the appointment of Quantity Surveyor, in the Borough Architect's Department. The salary payable will be in accordance with Grade A.P.T. V, of the National Scales (£460×£15×£15-£510), plus the appropriate cost-of-living bonus, which is at present £59 16s. per annum.

Applicants should be thoroughly experienced in preparing Bills of Quantities for Housing Schemes and School Buildings, measuring up work, and the checking of Contractors' accounts.

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

Applications, endorsed "Quantity Surveyor," stating age, experience and qualifications, together with not more than three recent testimonials, should be delivered to the undersigned not later than Saturday, the 29th November, 1947.

Canvassing, directly or indirectly, will be a disqualification.

ERIC J. WAGGOTT,
Town Clerk.

West Hartlepool.
6th November, 1947.

1073

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

Applications are invited for the following appointment on the permanent staff:—

SENIOR ARCHITECT (Education Branch). Salary, £750-£50-£850 per annum, plus cost-of-living bonus, at present £60 per annum. Commencing salary in accordance with experience and qualifications.

Candidates should have had a wide experience in the planning and design of all types of school buildings, and also have had administrative experience.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, to a satisfactory medical examination; and to the termination of each appointment by one month's notice in writing on either side.

Applications should be made on the forms to be obtained from G. Noel Hill, F.R.I.B.A., M.T.P.I., County Architect, County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Monday, 24th November, 1947.

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

County Offices, Preston.
28th October, 1947.

1016

COUNTY OF LINCOLN—PARTS OF

LINDSEY.

COUNTY ARCHITECT'S DEPARTMENT.

A vacancy has occurred on the permanent staff for a CHIEF ASSISTANT ARCHITECT (Education), and applications are invited from Associates of the Royal Institute of British Architects who have had experience in the design and construction of Schools.

The salary is in accordance with the National Scale of Salaries on Grade A.P.T. VII, £575, rising to £650, plus cost-of-living bonus of 25% 16s.

Applicants should state age, present salary and appointment, past appointments and experience, and send their applications, together with two testimonials, to the County Architect, County Offices, Lincoln, not later than a fortnight from the date of the issue of this advertisement.

The successful candidate will be required to provide a car, and will be granted an allowance of a 10 h.p. car in accordance with the County Council's scale. The appointment is subject to a satisfactory medical examination.

H. COPLAND,

Clerk of the County Council.

County Offices, Lincoln. 1052

ESSEX EDUCATION COMMITTEE.

SOUTH-EAST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART.

Applications are invited from suitably qualified persons for the post of LECTURER IN SURVEYING AND BUILDING CONSTRUCTION, for courses leading to the examinations of the R.I.C.S. and R.I.B.A. A knowledge of Architecture will be an advantage; a part-time appointment would be considered.

Salary in accordance with Burnham Scale (£300×£15—£525 for men, £270×£12 for women), together with London allowance and other additions which are applicable. Up to a maximum of ten increments may be allowed for suitable professional experience.

Further particulars and forms of application obtainable from the Clerk to the Governors, South-East Essex Technical College, Longbridge Road, Dagenham, to whom applications must be returned by the 1st December, 1947. 1078

BOROUGH OF LUTON.

BOROUGH ENGINEER'S DEPARTMENT.

JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Junior Architectural Assistant, at a commencing salary of £230, in accordance with A.P.T. Grade I (£230—£215—£375) per annum, plus cost-of-living bonus, the present rate being 25% 16s. per annum. Applicants must hold appropriate professional qualifications, and have some experience in Municipal housing and schools development.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the National Scheme of Conditions of Service. Applications, giving details of age, qualifications, experience, present appointment and salary, accompanied by not more than three recent testimonials, must be delivered to: The Borough Engineer, Town Hall, Luton, not later than Monday 1st December, 1947. Cancellation will disqualify.

W. H. ROBINSON,

Town Clerk.

Town Hall, Luton.

6th November, 1947. 1079

COUNTY BOROUGH OF NORTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

SENIOR ASSISTANT ARCHITECT (TOWN PLANNING).

GRADE VI, A.P.T.

The appointment offers considerable scope for a person having design ability and a sound training; the successful applicant being expected to take charge of staff working on the comprehensive Town Planning Scheme and on the detailed replanning of the Central Area of the Town, including the Civic Centre. At a later stage, there will be opportunity to engage upon the architectural projects embodied in the schemes. Previous experience with a Local Authority is not essential.

Applicants, who should be Members of the Royal Institute of British Architects, and preferably hold a qualification or have experience in Town Planning, are invited to send for further particulars of the above permanent appointment and form of application. Closing date 28th November, 1947.

C. E. VIVIAN ROWE,

Town Clerk.

Guildhall, Northampton.

1036

CITY OF NOTTINGHAM EDUCATION

COMMITTEE.

COLLEGE OF ART AND CRAFTS.

Principal, ALFRED H. ROWLEY, A.R.C.A.

Applications are invited from men and women for the post of STUDIO INSTRUCTOR, in the School of Architecture of the College, which is recognised for exemption from the R.I.B.A. Inter. and Final Examinations, and in the Department of Town and Country Planning from the Final Examination of the Town Planning Institute. Duties to commence as soon as possible. Candidates should hold recognised Qualifications in Architecture, preferably the degree or diploma of a recognised school. The Nottingham College of Art and Crafts is recognised by the Ministry of Education as a Central College. Subject to the conditions governing full-time teaching service, the person appointed will be given such opportunity as may be practicable to maintain his/her professional practice.

Salary: Burnham Technical Scale, 1945, with

additional allowances, where appropriate, for (i) training; (ii) graduation; (iii) full-time professional experience after age 21; (iv) previous recognised teaching service; and (v) service in H.M. Forces or the recognised equivalent. A Qualification in Town and Country Planning will be regarded as an additional recommendation, and will qualify under certain conditions for additional salary. Application forms can be obtained from the Principal, College of Art and Crafts, Waverley Street, Nottingham, to whom they should be returned, with copies of two testimonials, within fourteen days of the publication of this advertisement.

F. STEPHENSON,

Director of Education.

Education Office, South Parade, Nottingham. 1069

CITY OF MANCHESTER.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following temporary appointments:

TWO ASSISTANT QUANTITY SURVEYORS. Basic salary £450 per annum × £15 × £15 × £20 to £510, plus cost-of-living bonus, at present £60 per annum.

Candidates should be Associates of the Royal Institute of Chartered Surveyors (Quantities Division), and have had considerable experience in the preparation of bills of quantities, estimates, valuations, and settlement of accounts.

ONE CLERK OF WORKS. Basic salary £390 per annum × £15 × £15 × £15 to £435, plus cost-of-living bonus, at present £60 per annum.

Candidates should have a practical knowledge of all branches of the building trade and be experienced in the supervision of the erection of all classes of buildings, and be capable of setting out, measuring up, keeping records and making reports. Experience in the maintenance and repair of educational buildings would be an advantage.

Applications on the official form, which can be obtained from the City Architect's Department, must be returned, together with not more than three recent testimonials, to Leonard C. Howitt, B.Arch., Dip.T.P., D.P.A., F.R.I.B.A., A.M.T.P.I., City Architect, Town Hall, Manchester, 2, by Wednesday, November 26, endorsed for the appropriate appointment.

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

PHILIP B. DINGLE,

Town Clerk.

Town Hall, Manchester.

November, 1947. 1066

Architectural Appointments Vacant

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

ARCHITECTURAL ASSISTANT required immediately in London office; must be good draughtsman of intermediate standard; some experience of industrial buildings an advantage. Box 963.

ASSISTANT required, with drawing office experience and interest in contemporary design; office near Hampton Court (4 hr. Waterloo). Apply Eric Lyons & Townsend, Mill House, Bridge Road, East Molesey. 988

CHIEF DESIGNER, to take charge of Drawing Office of large practice in the Midlands. Reply, giving particulars of experience and salary required, to Box 1088.

IMPERIAL CHEMICAL INDUSTRIES, LTD., Wilton Works, near Redcar, Yorks, require DRAUGHTSMEN to assist with the design and detailing of a large new works; successful candidates will be appointed to the established staff.

Preference will be given to applicants who hold the Higher National Certificate or higher qualification, and have the appropriate experience as follows:—

Draughtsmen—Architectural: Design of offices, laboratories, houses, welfare and general industrial buildings. Order No. D.31.

Civil: Design of roads, railways, drains and water services. Order No. D.27.

Structural: Design of buildings and structures, and design and detailing of reinforced concrete work for industrial buildings. Order No. D.28.

Mechanical: Design of pipework for steam, gas and water, compressed air stations, layout of chemical plant, etc. Order No. D.29.

Power Station: Design and layout of modern H.P. Boiler Plant and Power Plant. Order No. D.27.

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Applications, giving full details and quoting advertisement reference ICI/X/34, and the Order No., should be addressed to the Manager, Employment Exchange, South Bank, Yorks.

LM/RH.

4th November, 1947. 1060

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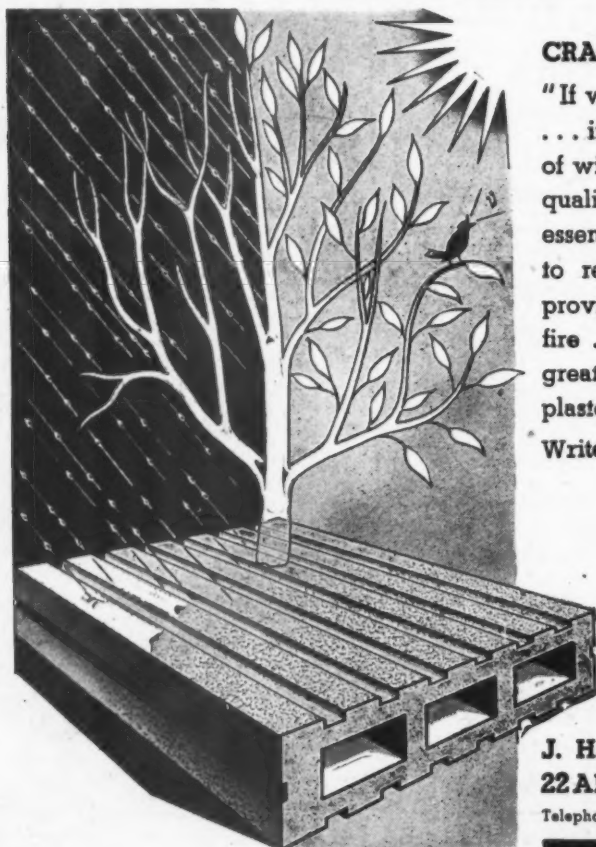
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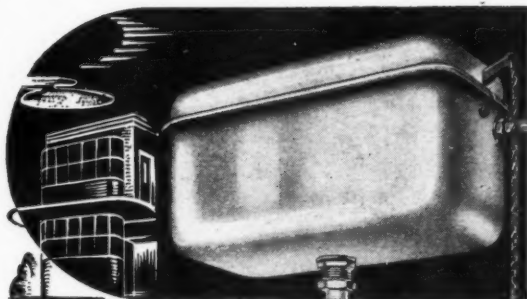
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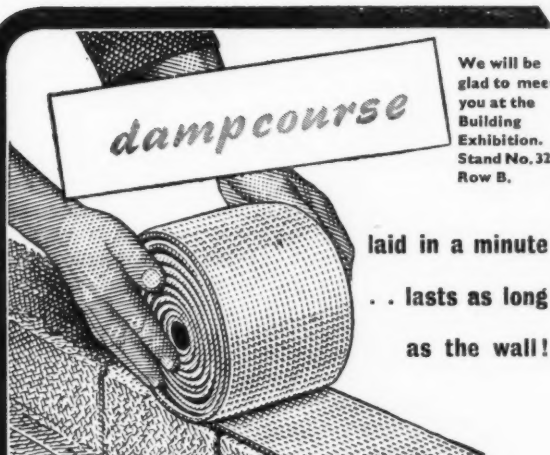
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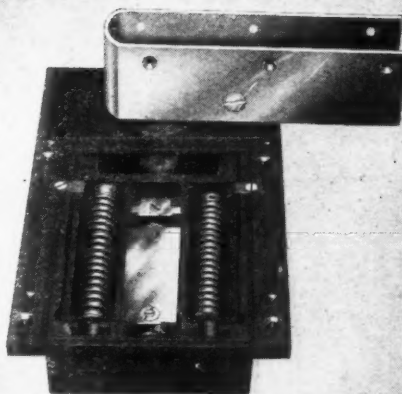
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