

The Architects' JOURNAL for November 24, 1949.

Vol. 110 No. 2859.

Registered as a Newspaper

THE ARCHITECTS' JOURNAL

Building Exhibition Number

PRICE: NINEPENCE.



Redland
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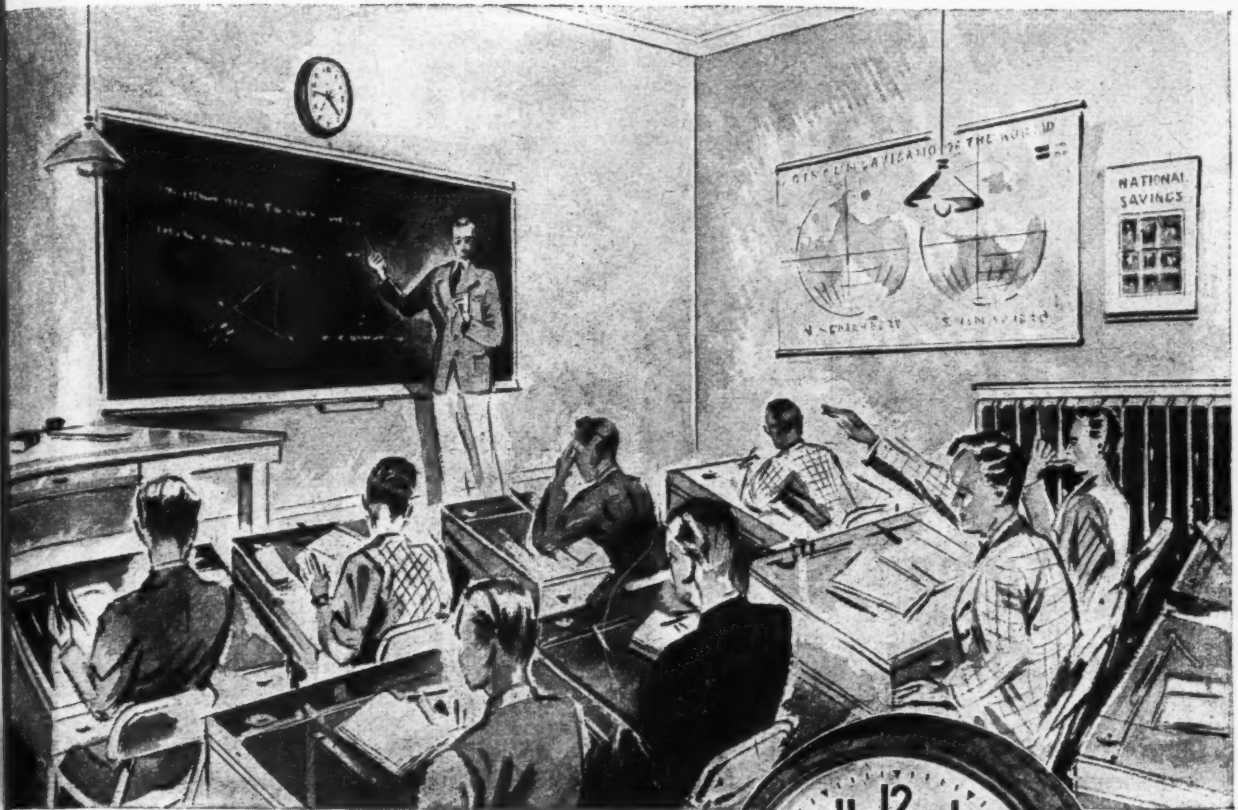
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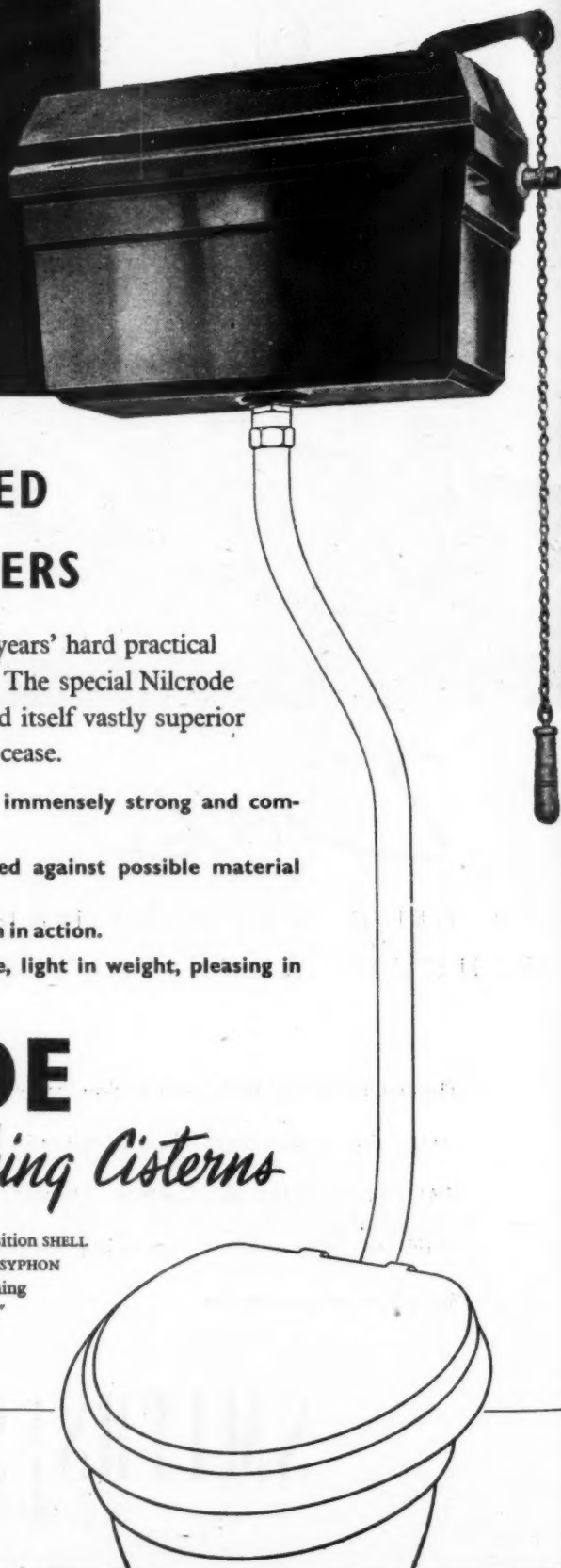
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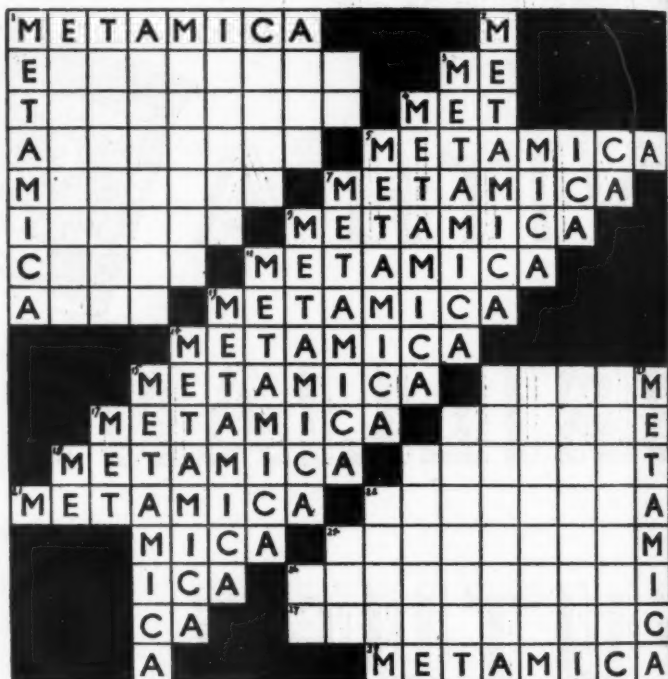
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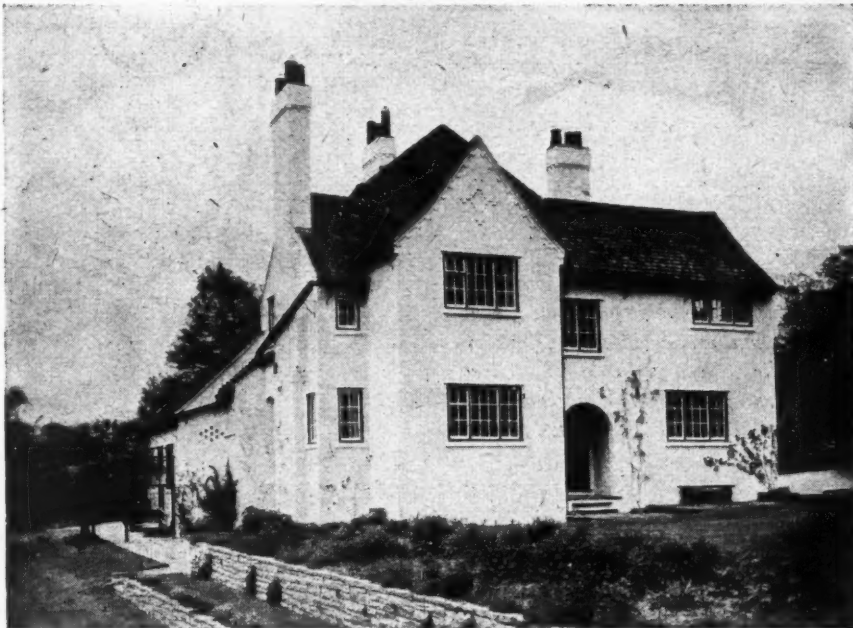
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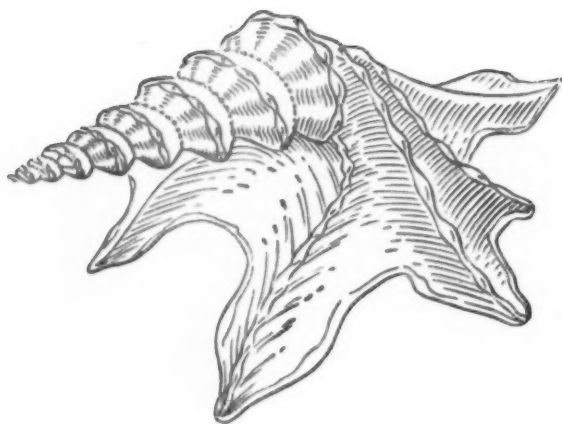
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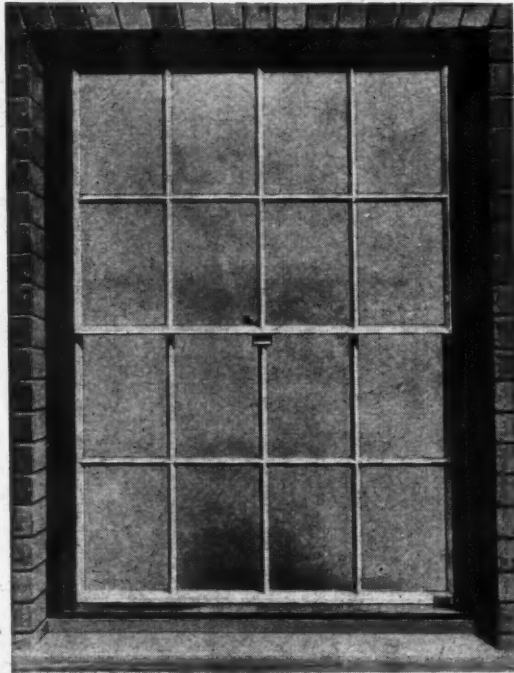
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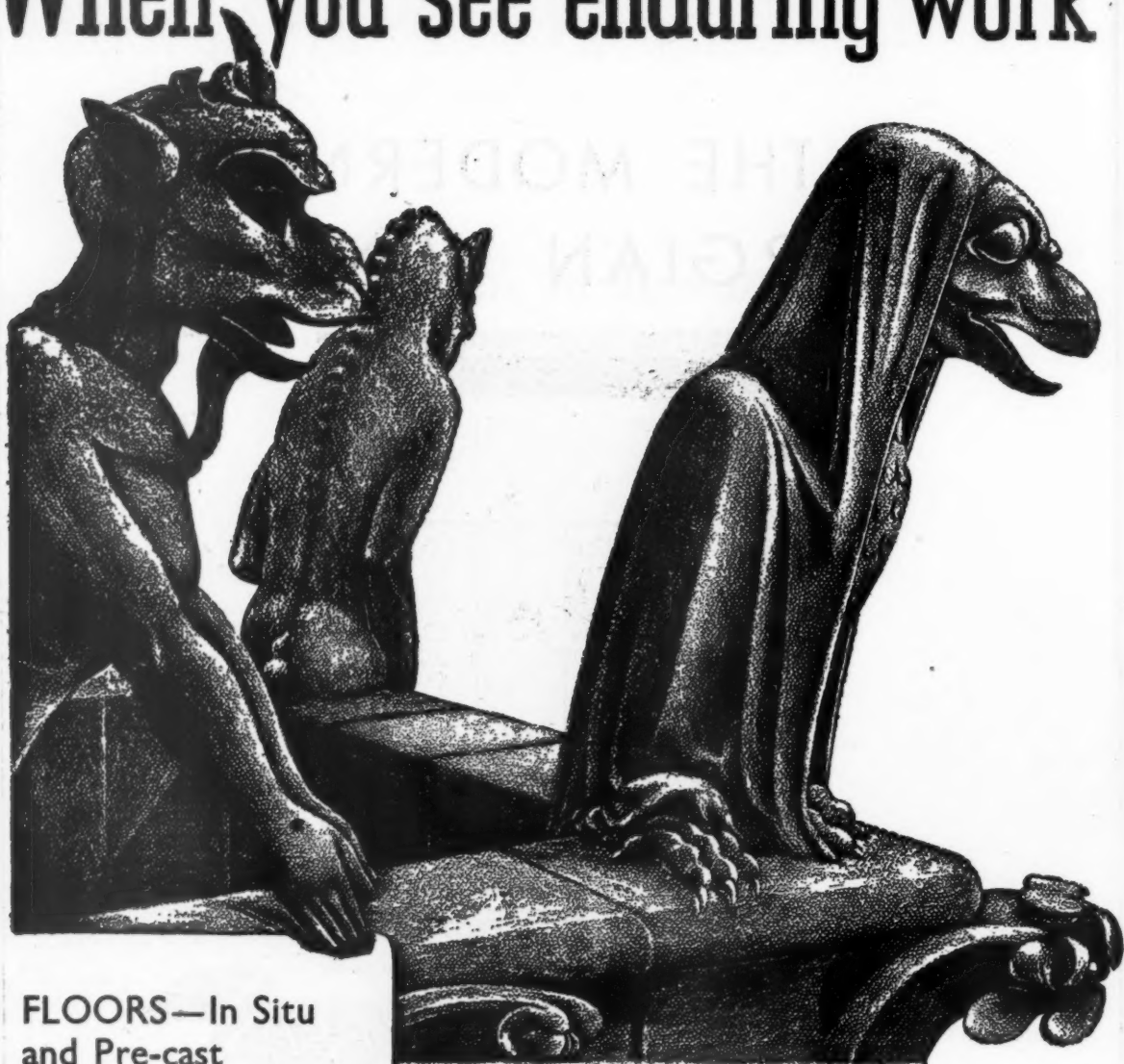
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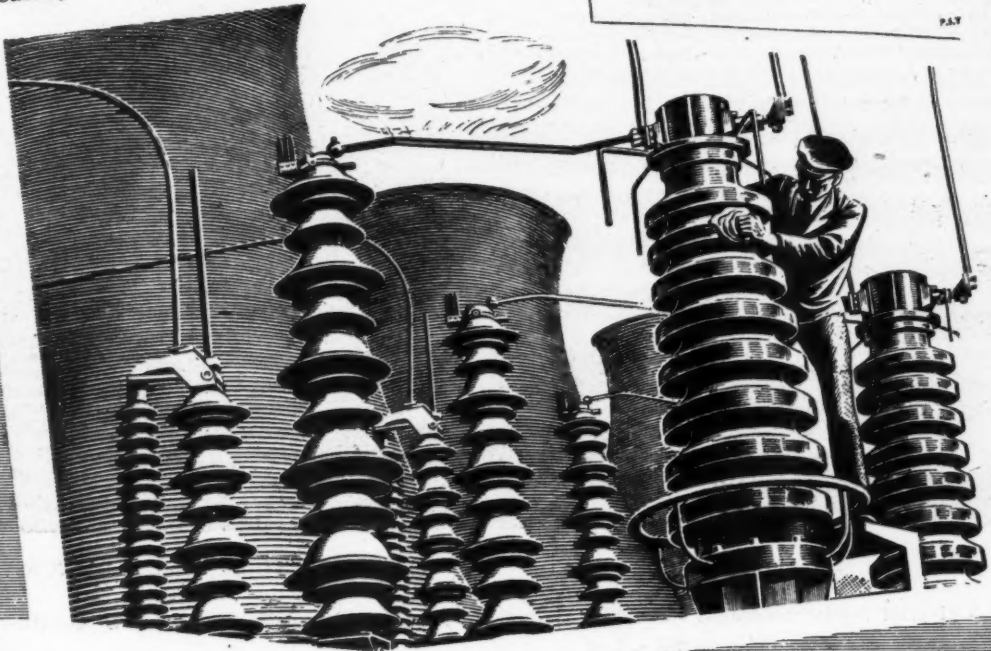
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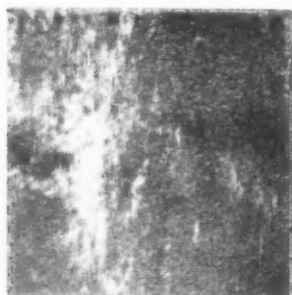
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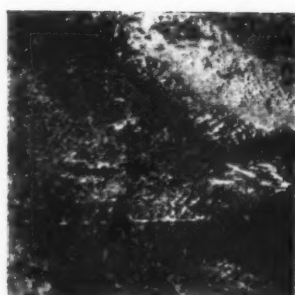


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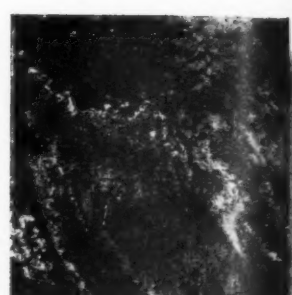
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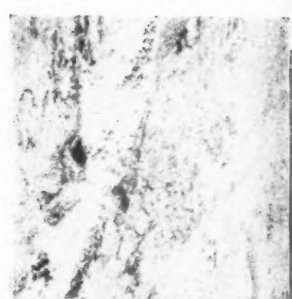
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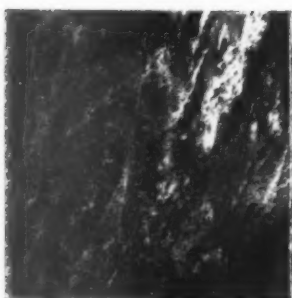
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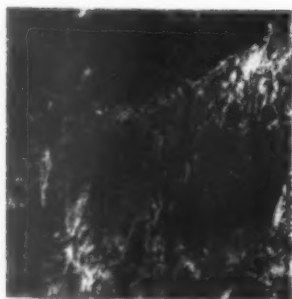
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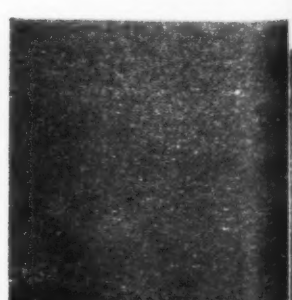
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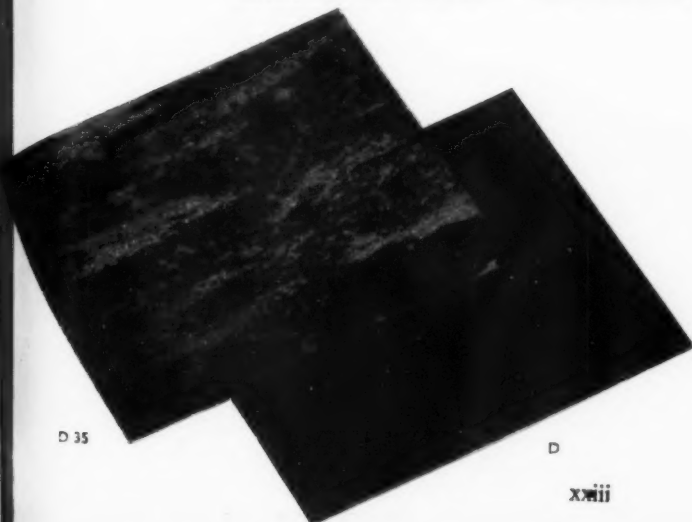
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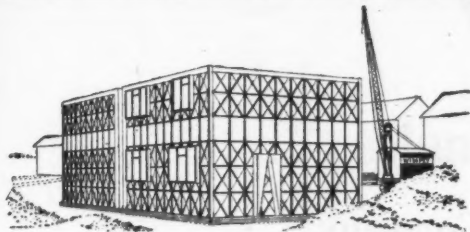
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Fenwick Street, Liverpool, 2.

Asphalt House, St. Mary Street, Cardiff.

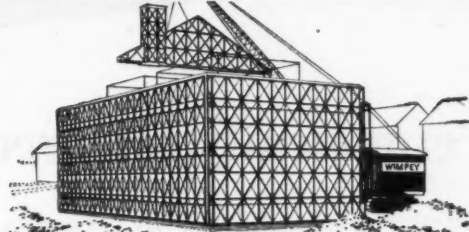
Quicker, simpler house construction



WIMPEY 'NO-FINES' HOUSES: THE DRAWINGS BELOW SHOW THREE MAIN STAGES IN THEIR CONSTRUCTION



1 Internal framework, window and door cores in position.



2 External framework, concrete poured to eaves level, gable framework in course of erection.



3 Completed concrete shell.

WIMPEY 'No-Fines' House

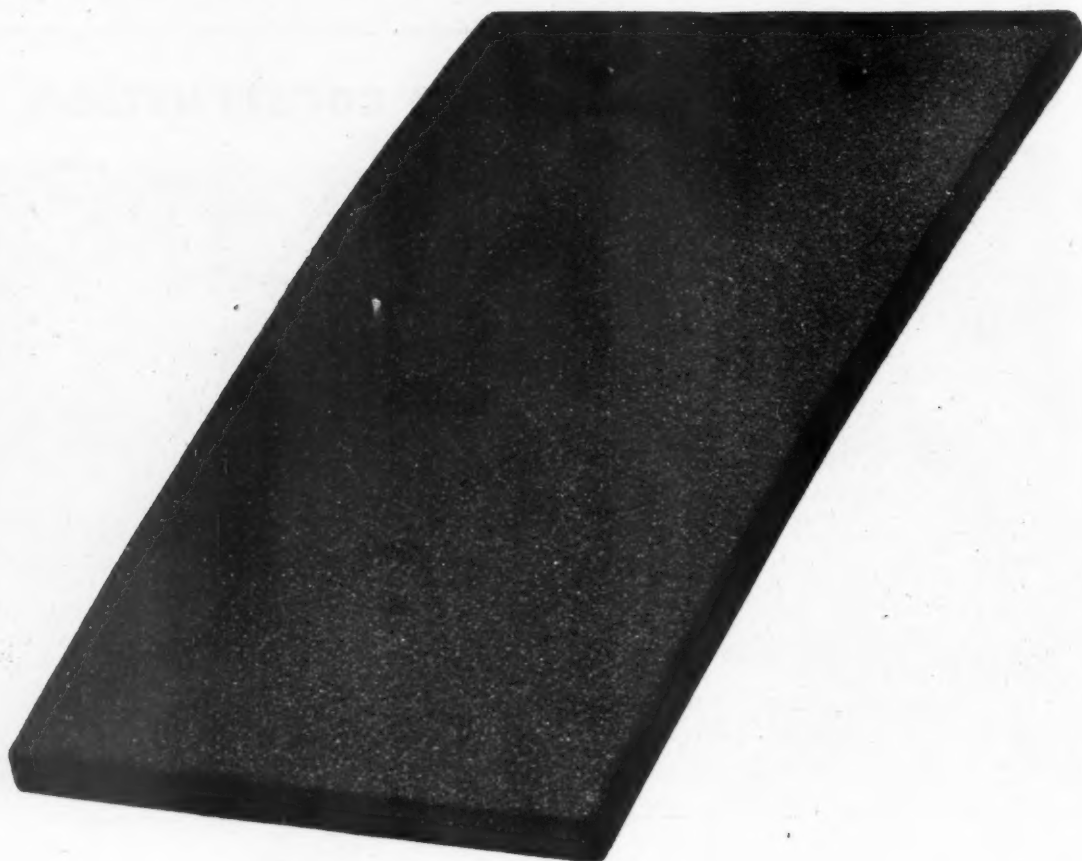
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manufactured by the Marley Tile Company
are now used for surfacing all Marley Roofing Tiles

Marley Granules not only give a permanent colour but also a distinctive texture which assists the tiles to weather. With this process a range of blended coloured tiles is available in addition to the standard range of colours. *Rub or wash a Marley tile and note the absence of free colour.* The specification of **MARLEY TILES** for all roofs ensures tiles which are strong and dense—plus permanence of colour.



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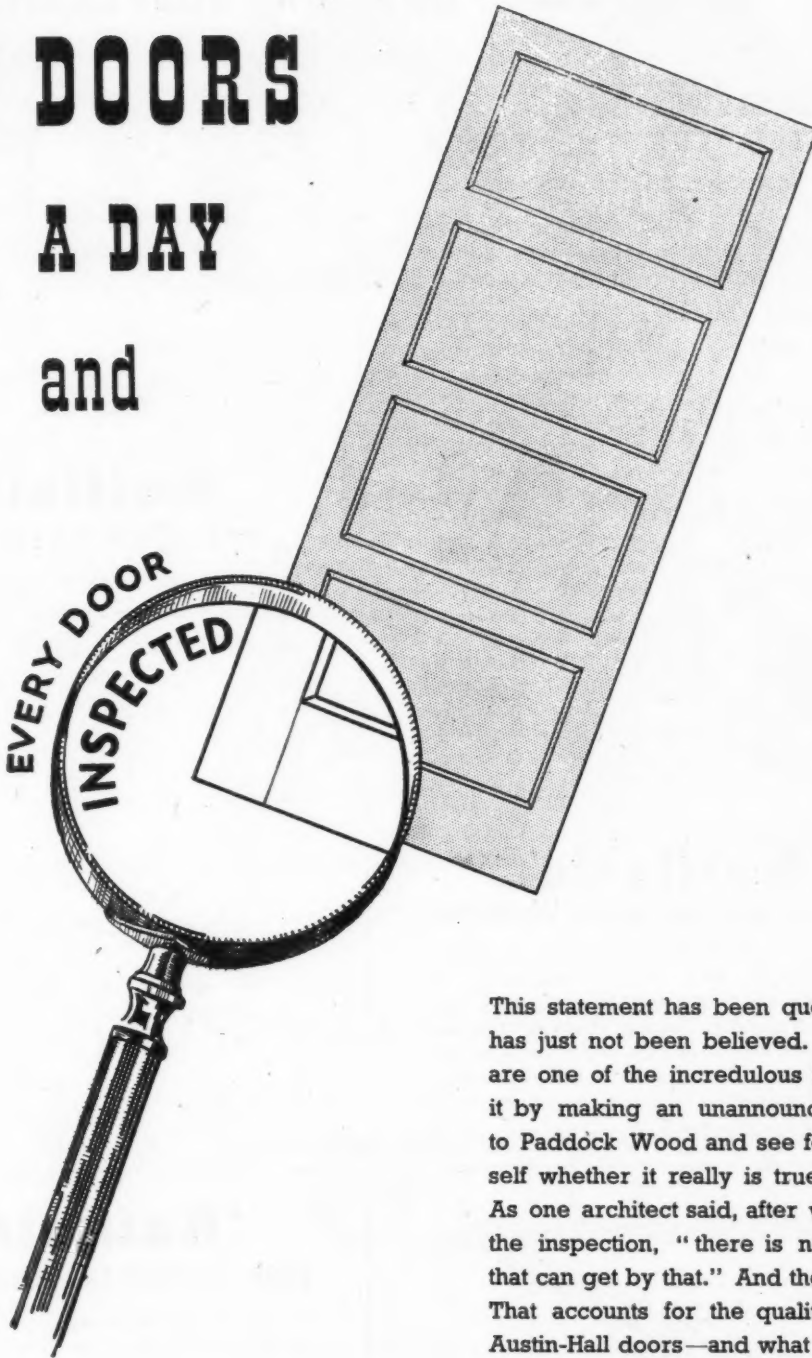
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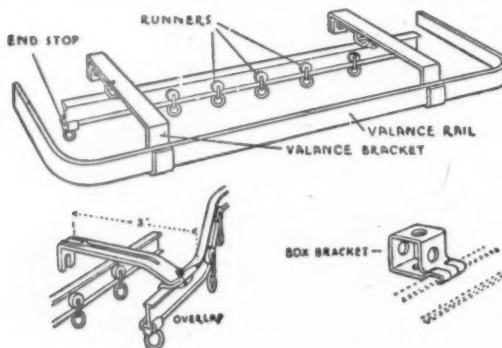
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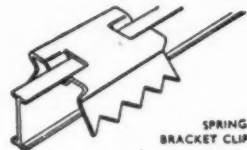
SPECIFY 'Rufflette' CURTAIN SUSPENSION SYSTEMS

'Rufflette' brand RECESSED CURTAIN TRACK

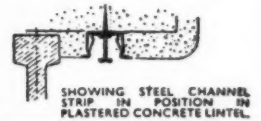
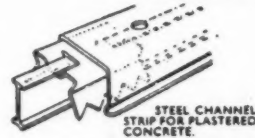
'Rufflette' brand Recessed Curtain Track is a permanent and integral part of building construction. It is inexpensive and simple to fit into wood, plastered or fair-faced concrete lintels. The rail is held rigidly in position by a patent spring clip without screws and is a concealed and a permanent fitting.



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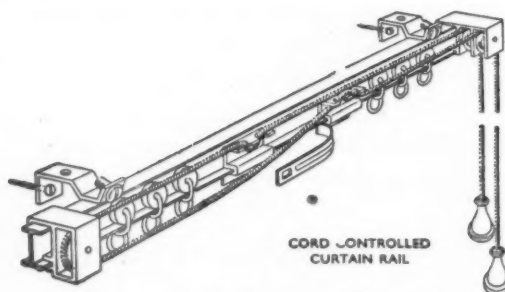
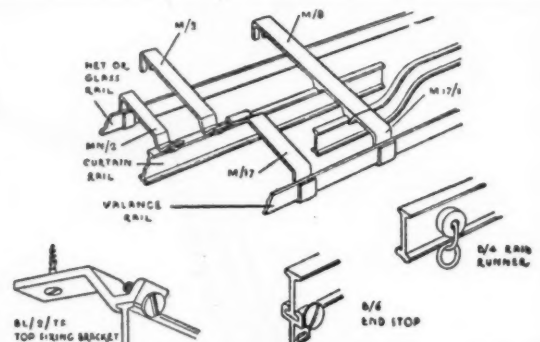


'Rufflette' brand B/L CURTAIN RAIL

This rail has been specially designed for wood frame windows. The construction is of heavy extruded brass, with top or face fixing brackets made specially for quick fitting and is therefore a valuable time-saving device. For strength, durability and easy running specify 'Rufflette' brand B/L Curtain Rail.

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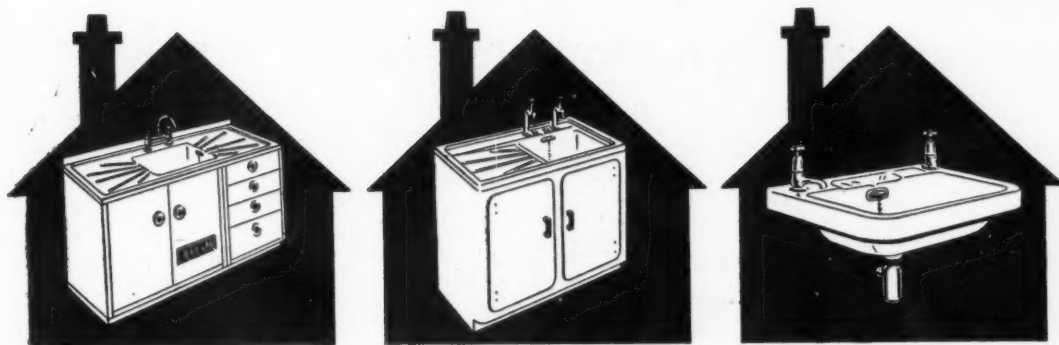
'Rufflette' brand CORD CONTROLLED CURTAIN RAILS

For smooth and trouble-free operation the 'Rufflette' brand Cord Controlled Curtain Rail is recommended for use in large establishments such as hotels, residences and offices where curtains receive constant usage. It is of simple construction and quickly fitted without dismantling. 'Rufflette' brand Cord Controlled Curtain Rail will fit all straight windows.

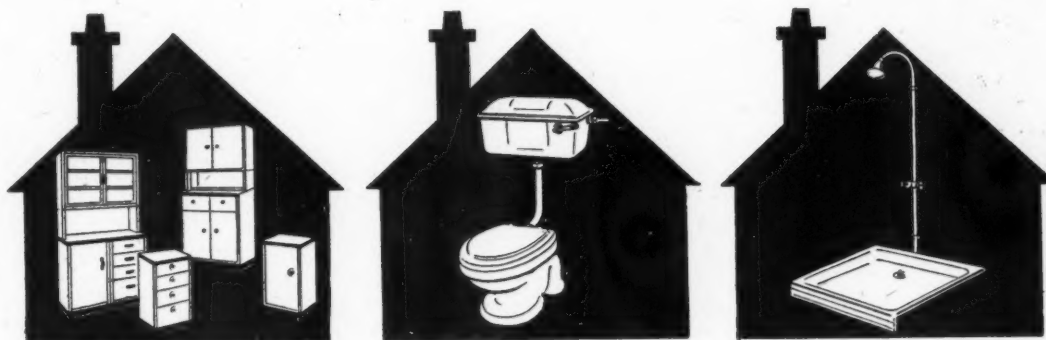
Architect's Journal: the following Information Sheets are available and will be sent on request to manufacturers.
SHEET 44 D.1. ('RUFFLETTE' RECESSED TRACK). SHEET 44 D.2. ('RUFFLETTE' B/L and M Type Rails).

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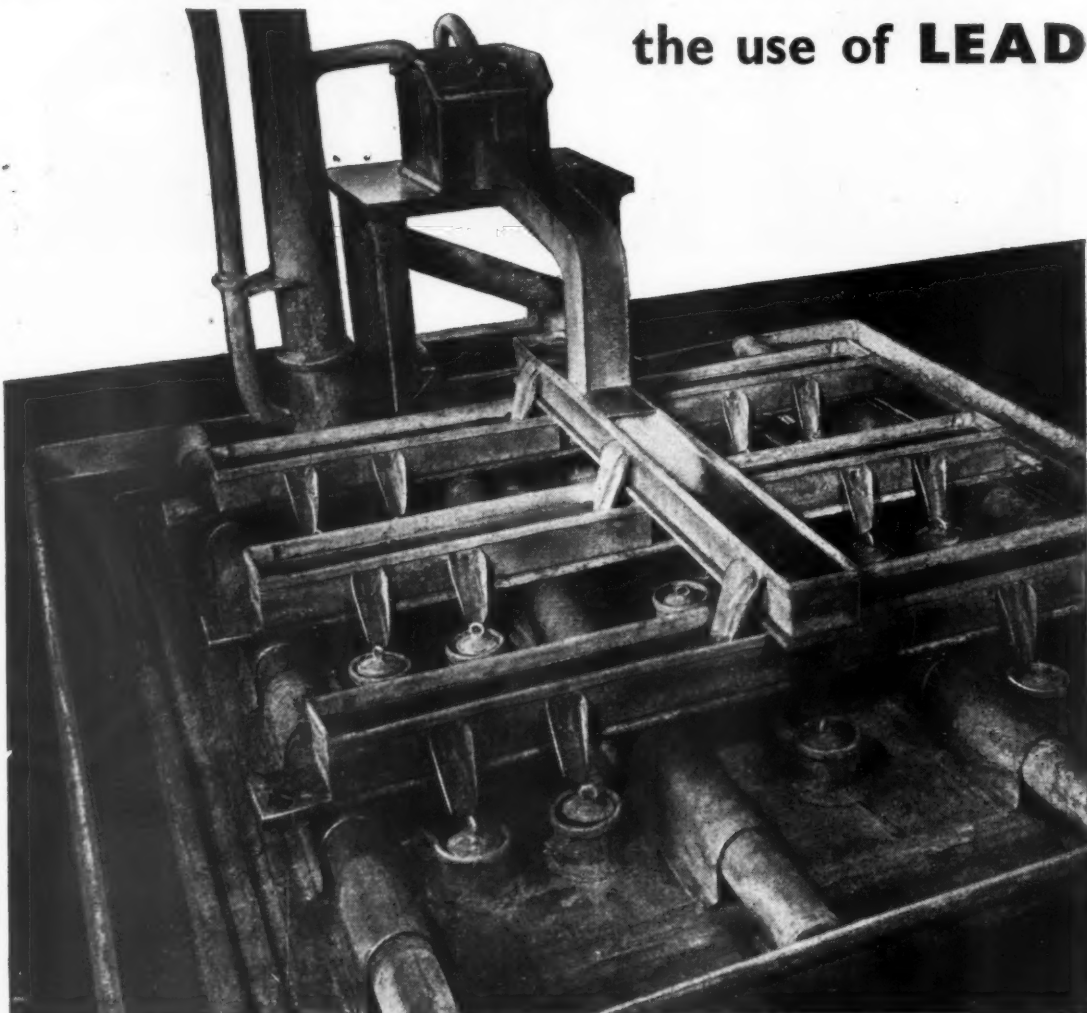
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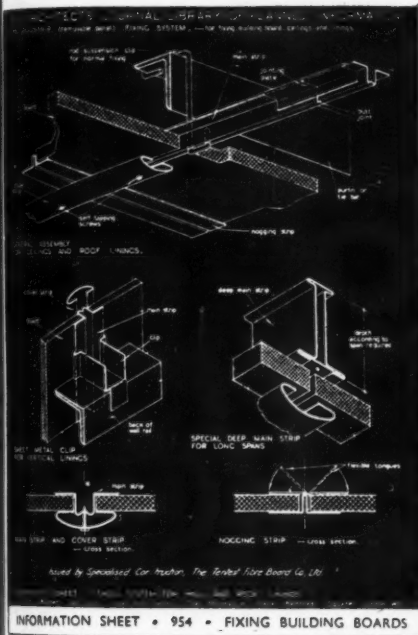
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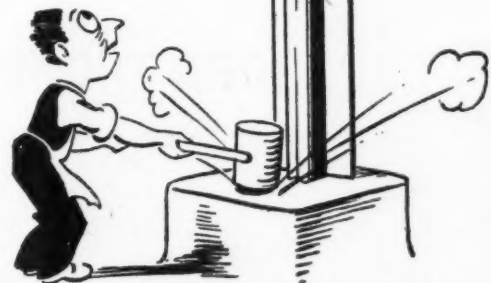
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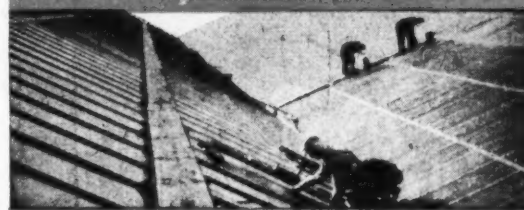
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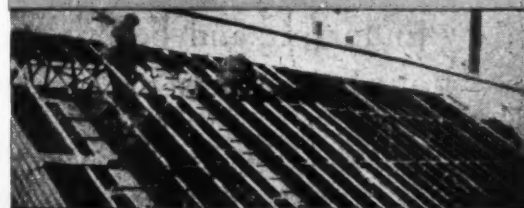
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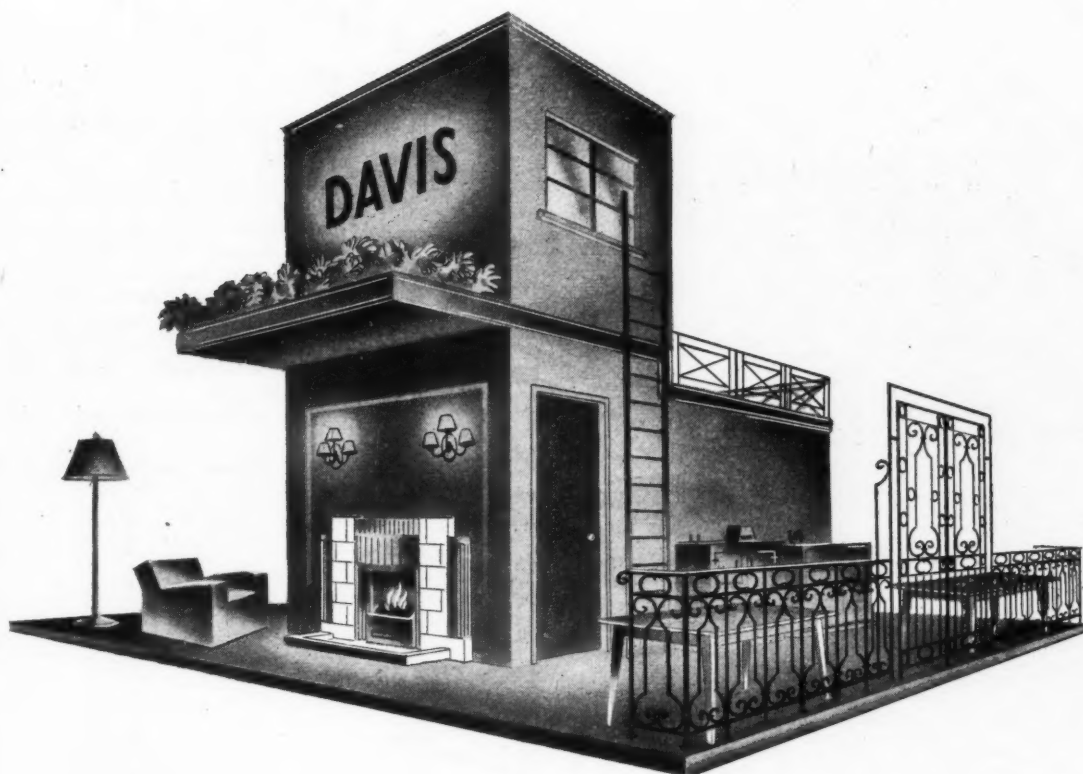
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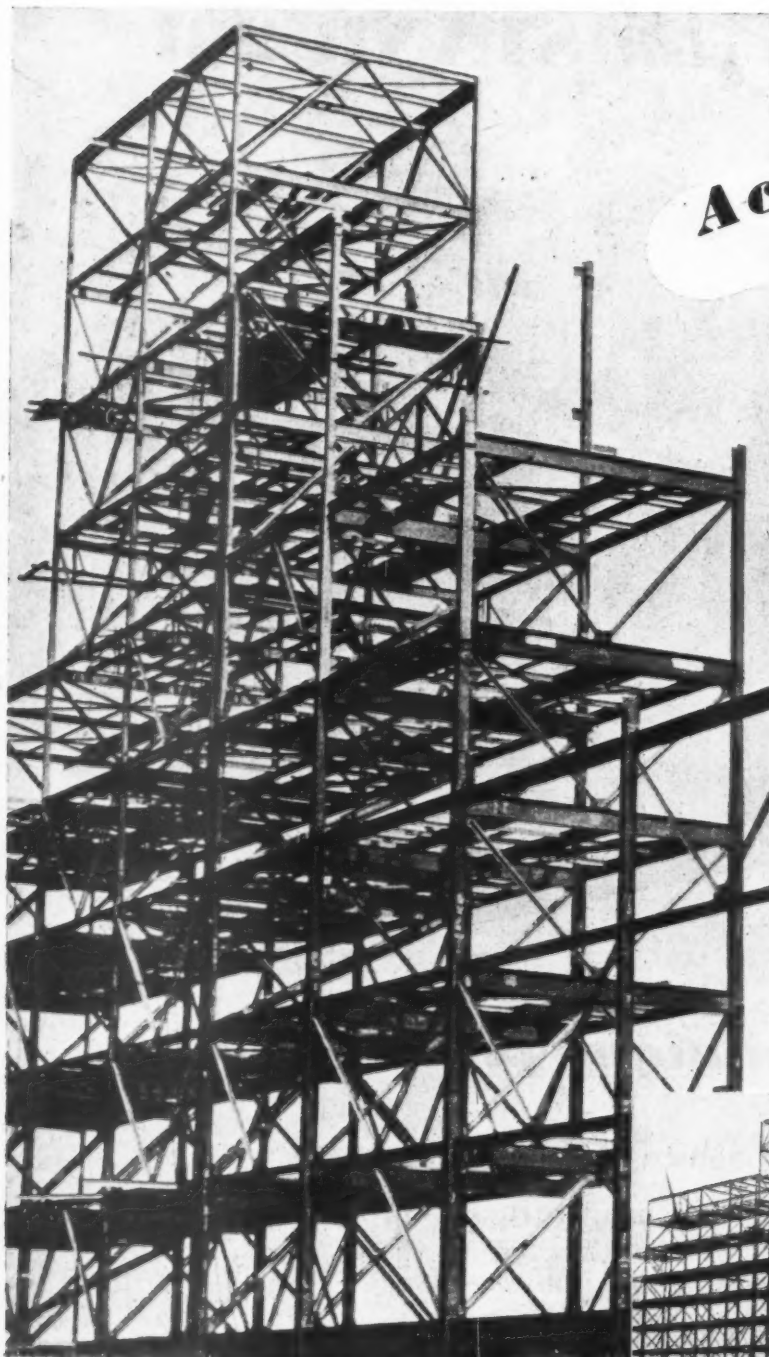
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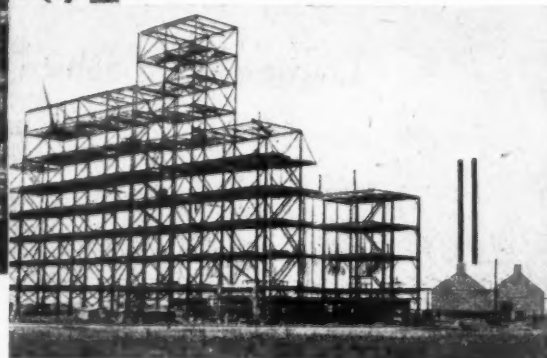
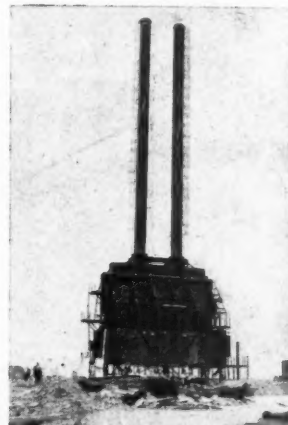
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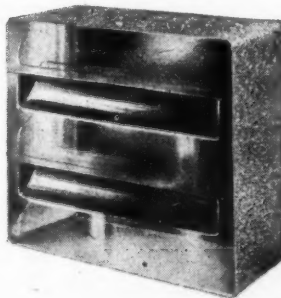
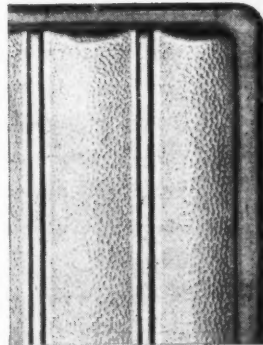
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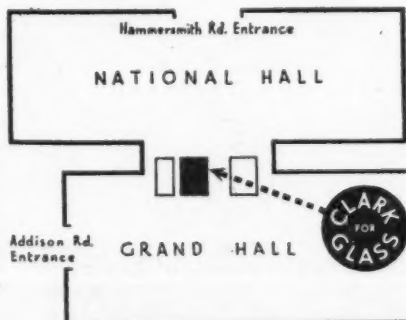
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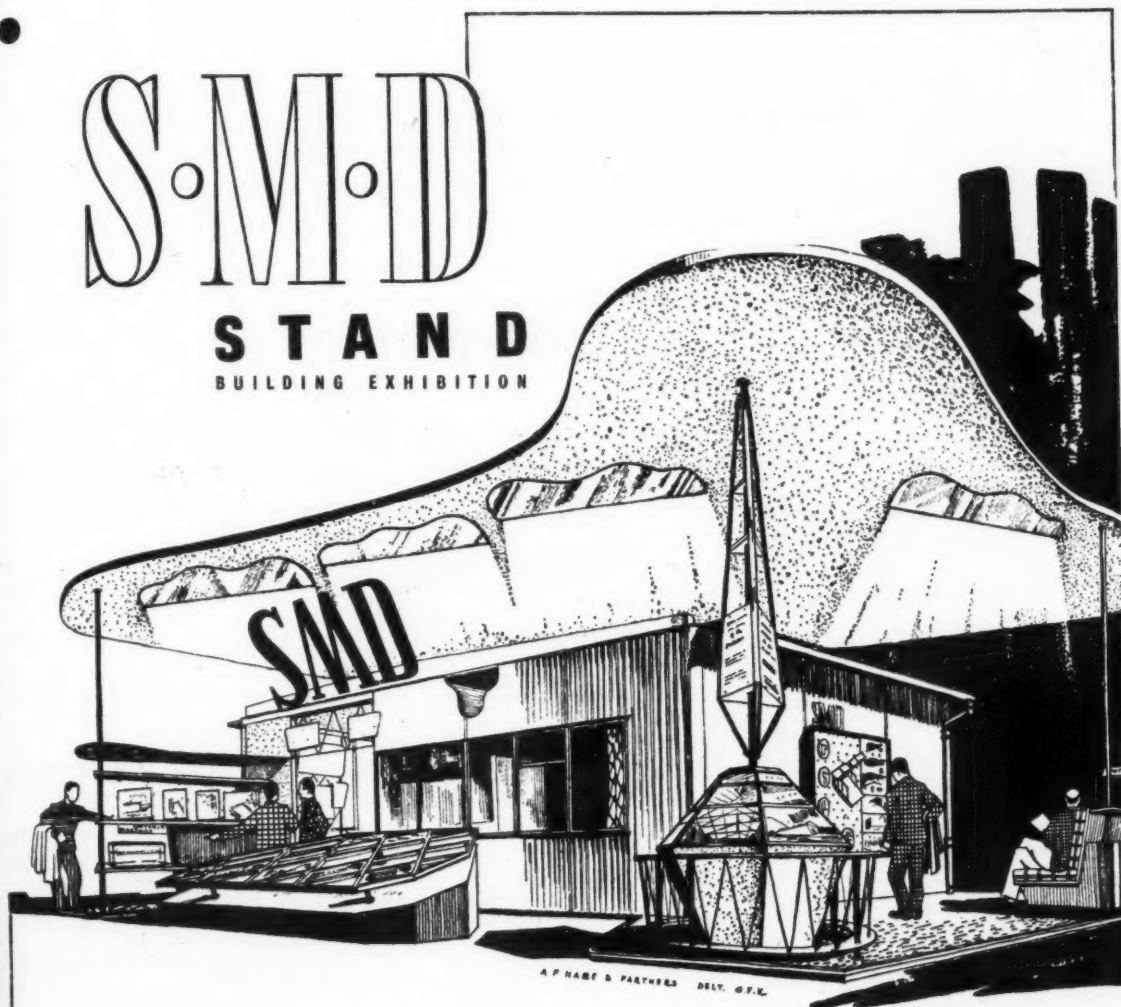
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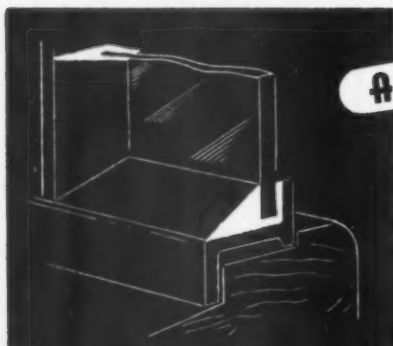
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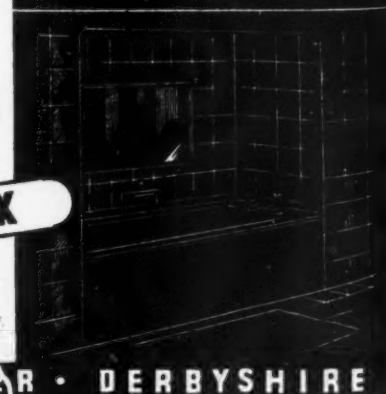
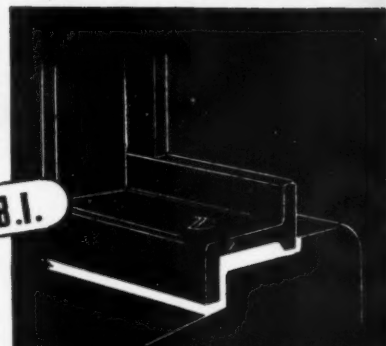
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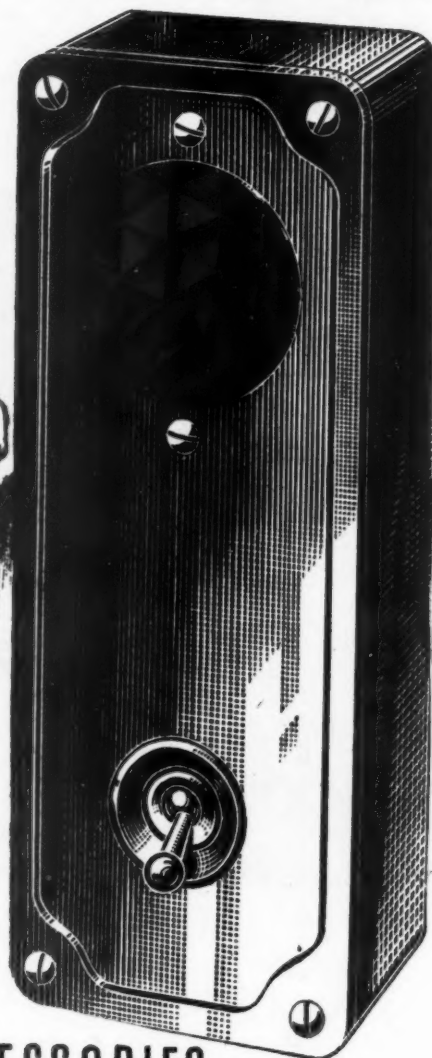
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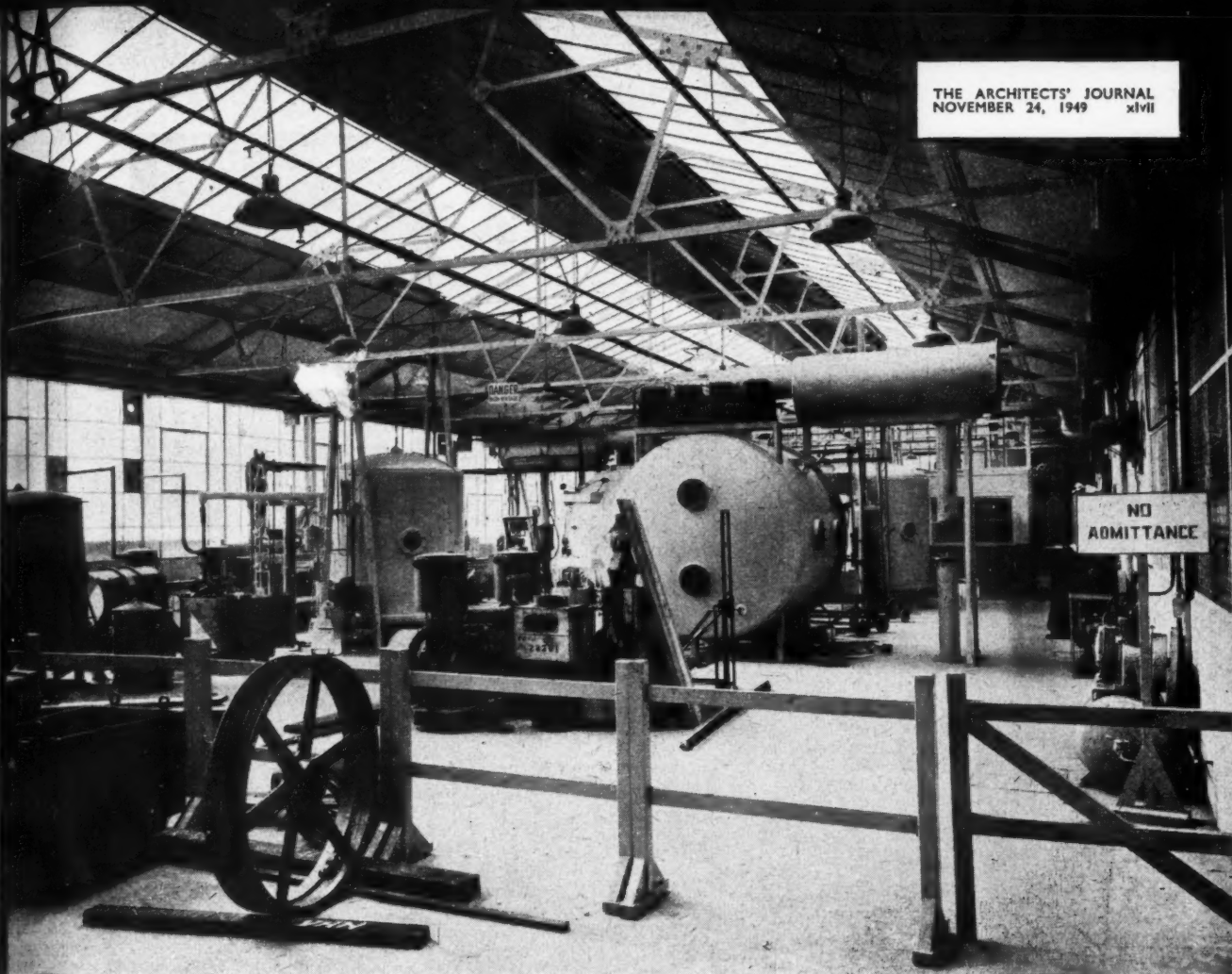
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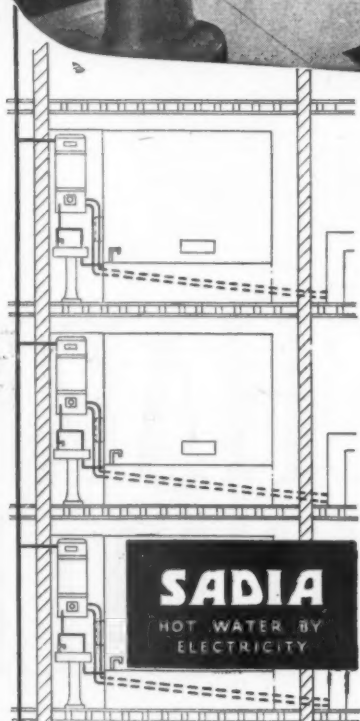
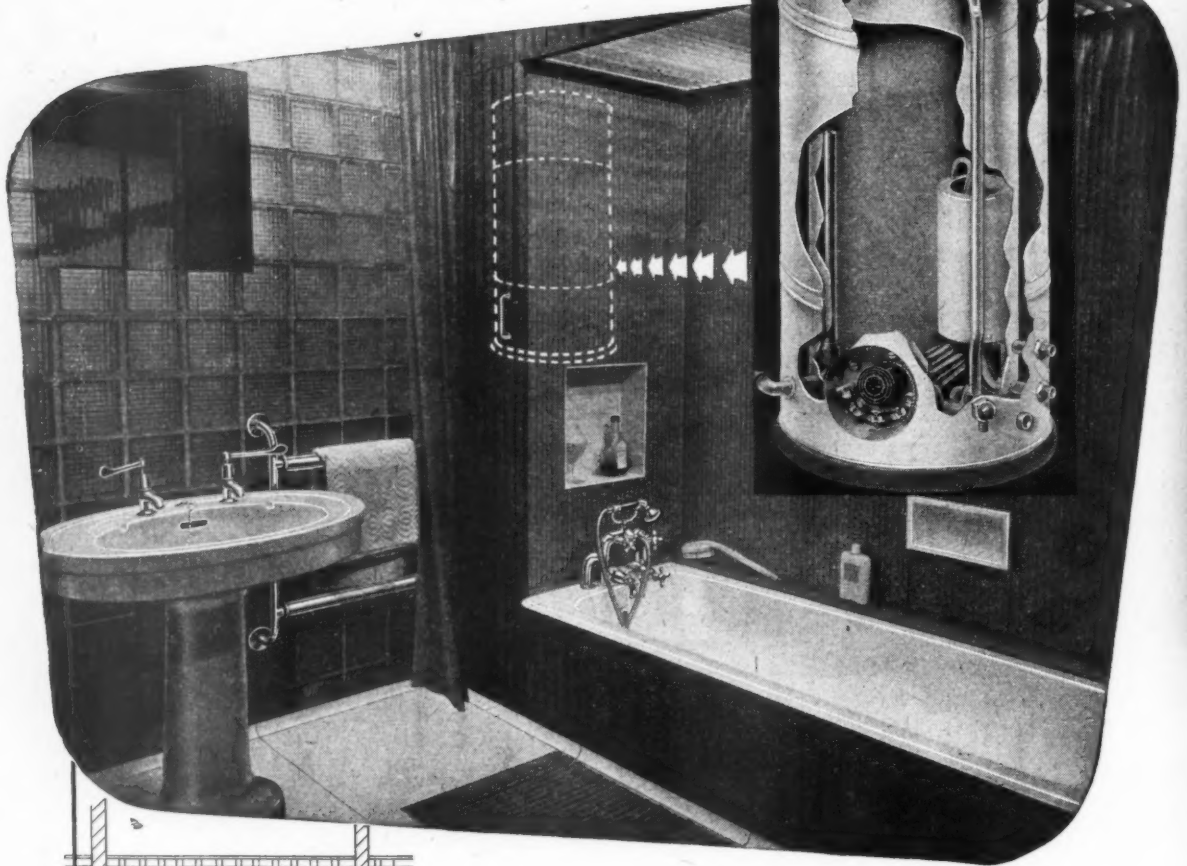
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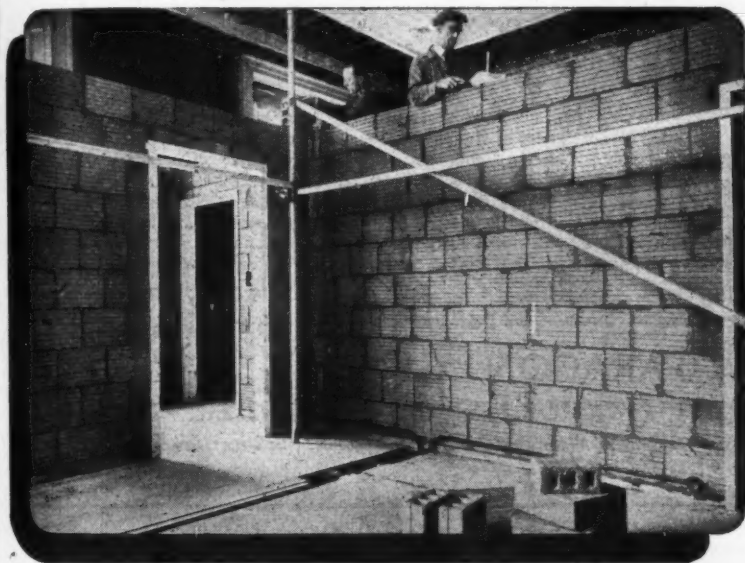
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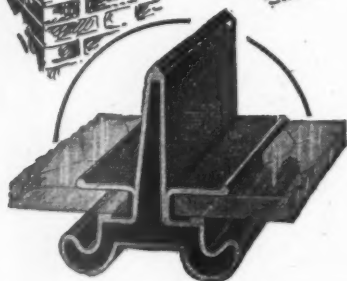
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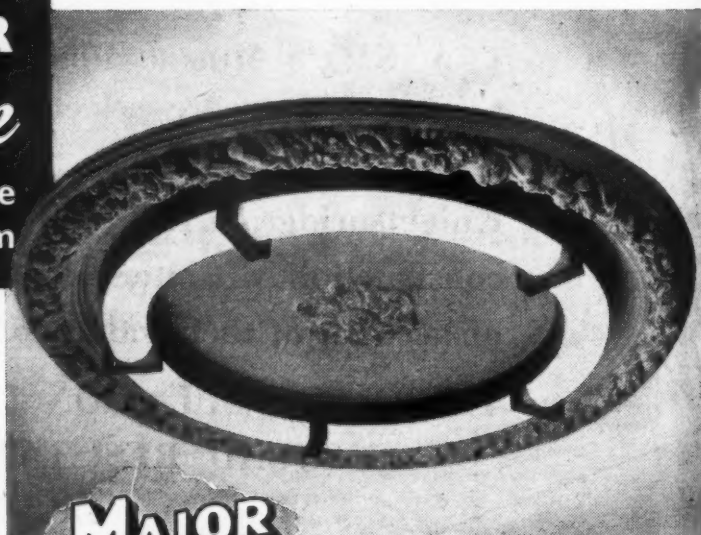
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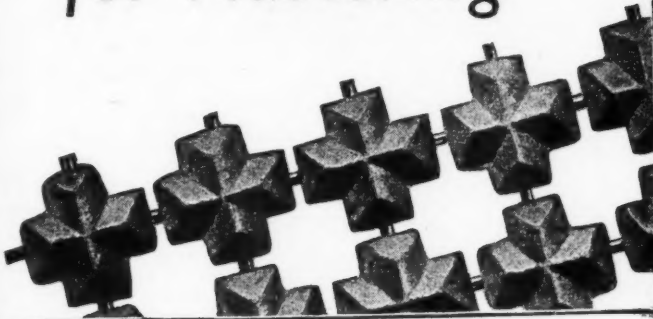


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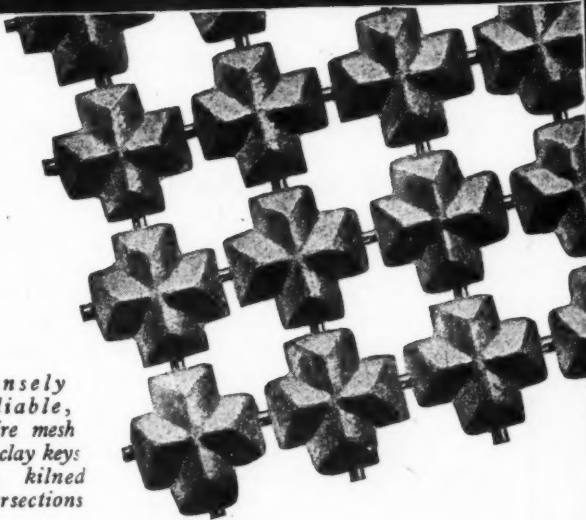
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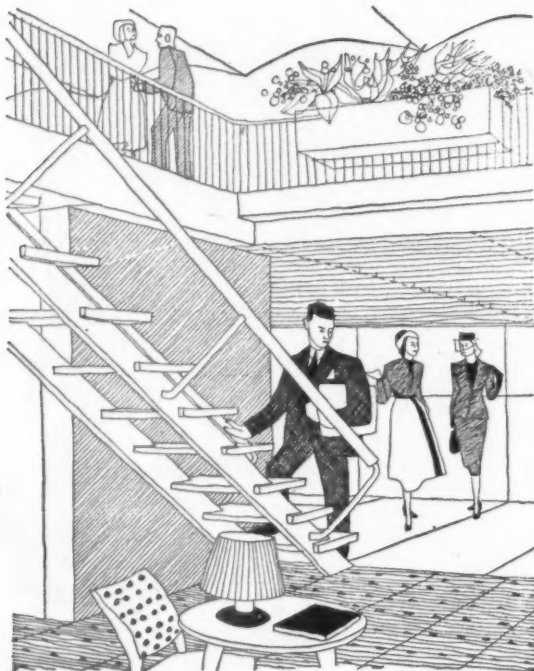
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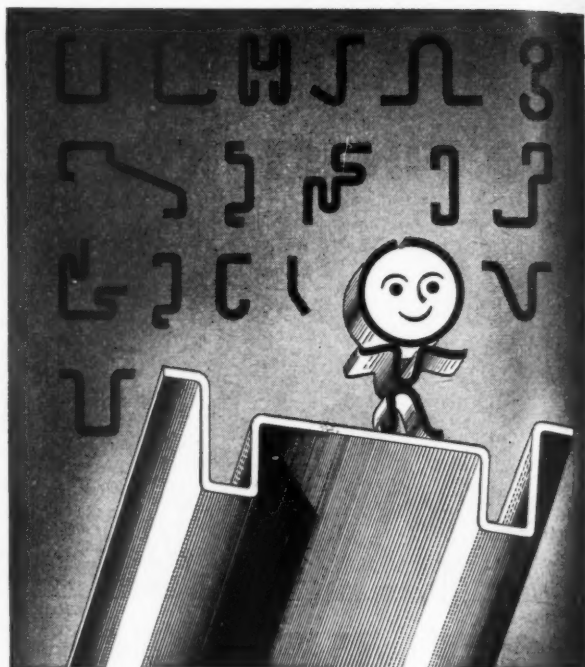
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Athenaeum Court, Piccadilly, London, W.1. Architect : E. I. Hamilton-Parks

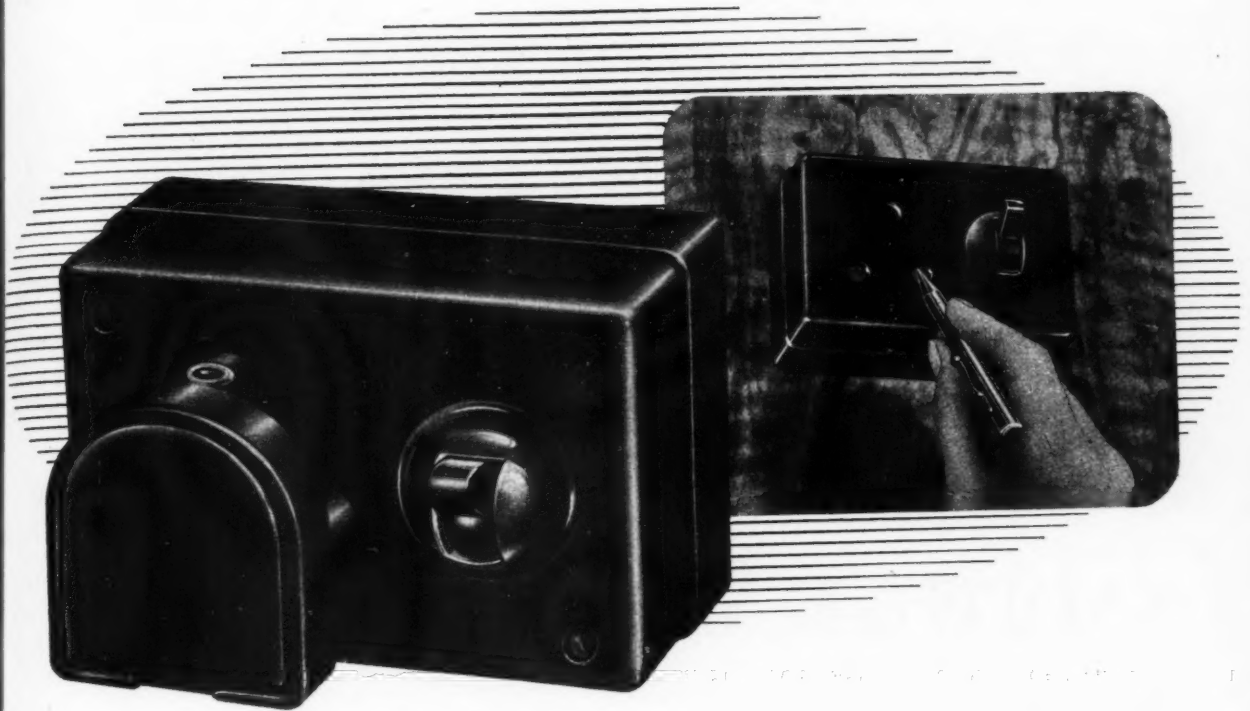
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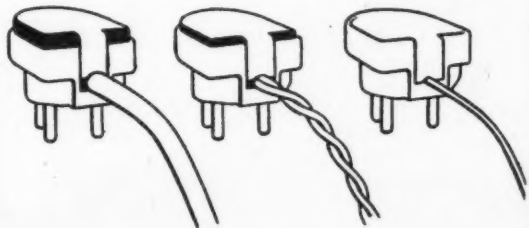
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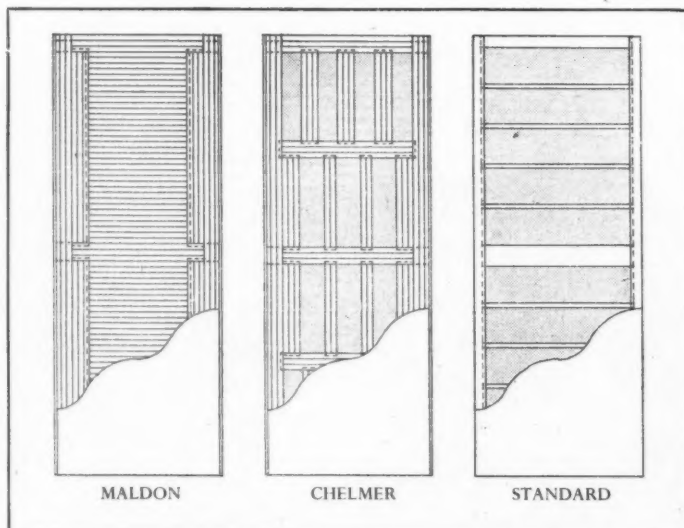
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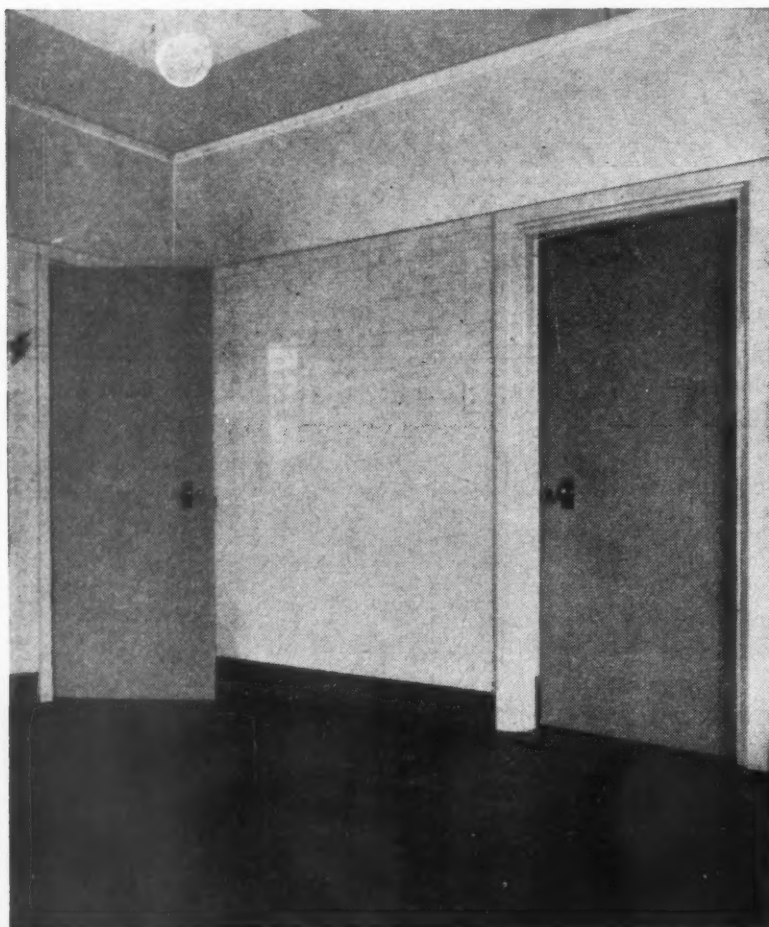
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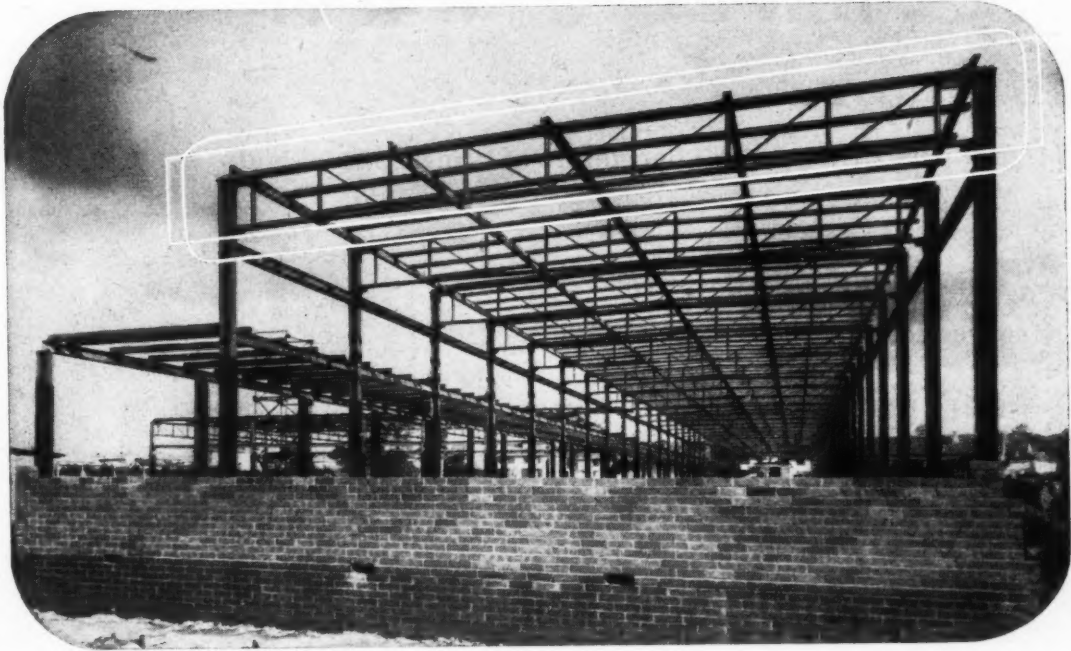
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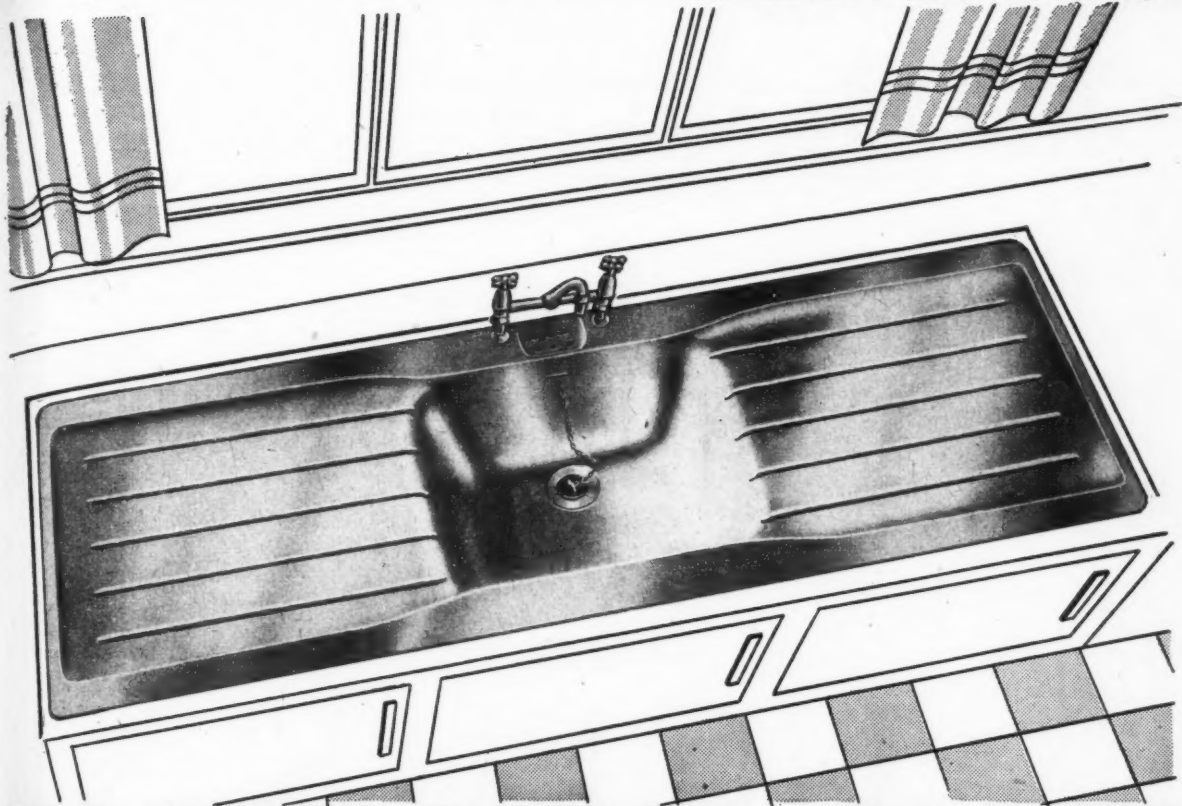
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DIARY FOR NOVEMBER DECEMBER AND JANUARY

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 given in the glossary of abbreviations on the front cover.

ABERDEEN. S. Lister. *Timber*. Royal Scottish Forestry Society. (Sponsor, TDA.) 7 p.m. Nov. 26

BRIGHTON. *Annual National Housing and Planning Conference*. The Royal Pavilion, Brighton. (Sponsor, National Housing and Town Planning Council.) Nov. 24-27

GLASGOW. S. Lister. *The Romance of Timber*. Rotary Club. (Sponsor, TDA.) 1 p.m. Nov. 29

LIVERPOOL. B. H. Knight. *Failures in Concrete Work—Their Causes and Cure*. City Technical College, Byron Street, Liverpool. (Sponsor, MOW.) 7.15 p.m. (Lecture to be repeated at Central Library, Burnley, at 7.15 p.m. on Nov. 30.) Nov. 29

LONDON. *American Housing Exhibition*. Building Centre. 10 a.m. to 5 p.m. Saturdays, 10 a.m. to 1 p.m. UNTIL NOV. 30

R. B. Grey. *Noise Control*. LCC Brixton School of Building, Ferndale Road, S.W.4. 6.30 p.m. Nov. 30

Building Exhibition. Olympia. Daily, 10 a.m. to 8 p.m. UNTIL DEC. 1

The Sir William J. Larke Medal Paper. ICE, Great George Street, S.W.1. (Sponsor, IOW.) 6 p.m. Nov. 30

Ian Colquhoun, Hugh Morris, Andrew Derbyshire. *The School Abroad*. Three holiday reports introduced by R. Furneaux Jordan. 34, Bedford Square, W.C.1. (Sponsor, AA.) 8 p.m. Nov. 30

Kenneth Adamson. *Design Demonstration*. 15, Lisle Street, W.C.2. (Sponsor, AIA.) 8 p.m. DEC. 1

G. A. Jellicoe. *Planning and the Landscape*. Livingstone Hall, Broadway, Westminster, S.W.1. (Sponsor, TPI.) 6 p.m. DEC. 1

Anthony Clapham. *A History of the Surveyor's Profession*. 12, Great George Street, S.W.1. (Sponsor, RICS.) 5.30 p.m. DEC. 5

SHEFFIELD. J. Jowett. *Timber in Building*. Sheffield and District Clerks of Works and Building Foremen's Association, Builders' Exchange, Sheffield. (Sponsor, TDA.) 8.15 p.m. Nov. 28

H. Moore. *Recent Advances in the Manufacture of Plate and Sheet Glass*. Royal Society of Arts, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. Nov. 30

COMPETITIONS

New Civic Hall at Guildford. Promoters: Guildford Corporation. Assessor: G. A. Jellicoe, F.R.I.B.A. Premiums: (1) £1,000. (2) £500. (3) £250. Site: Firs Estate, London Road, Guildford. The promoters require a design for (a) a large assembly hall, to seat 1,200 persons, to be used for civic and concert purposes, and (b) a small hall, to seat 500 persons, for lectures with an alternative use as a banqueting hall.

Enquiries must be received by the Town Clerk, Municipal Offices, Guildford, Surrey, with a deposit of £2 2s., to be paid by the competitor for conditions of entry. Designs must be received by April 30, 1950.

Art School, Jersey, Channel Islands. The Association of Old Victorians invite architects of British nationality to submit designs in competition for war memorial buildings proposed to be erected in the Victoria College Grounds, Jersey, Channel Islands. Assessor: A. E. O. Geens. Premiums: £75, £50 and £25. Completed designs should be sent to A. H. Worrall, hon. treasurer, The Association of Old Victorians, 25, Cleveland Road, Jersey, C.I., not later than April 3, 1950. Questions must be received on or before December 31 by Mr. Worrall, who will also provide a copy of the conditions on the deposit of £1 1s. Following are extracts from the conditions:—The elevation should be treated in a restrained and dignified manner, having regard to the existing buildings of the Victoria College, which are mainly built of granite in the Gothic style. The entrance porch should be approximately 14 ft. by 12 ft. It is the intention of the promoters to use this entrance porch as a War Memorial to past students of the College. Adequate space should be provided for a memorial tablet. The main studio should be approximately 34 ft. by 20 ft. by 14 ft. in height. Four smaller studios are also required.

Bridges Over Motorways.—The Cement and Concrete Association announces a competition, open to engineers and architects, for designs for prestressed, reinforced or plain concrete bridges over motorways. Prizes are £500, £300 and £200. Applications for conditions, which will be available on December 1, 1949, should be made in writing to Cement and Concrete Association, 52, Grosvenor Gardens, S.W.1, accompanied by a postal order for one shilling.

N E W S

THURSDAY,

November 24, 1949

No. 2859

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

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

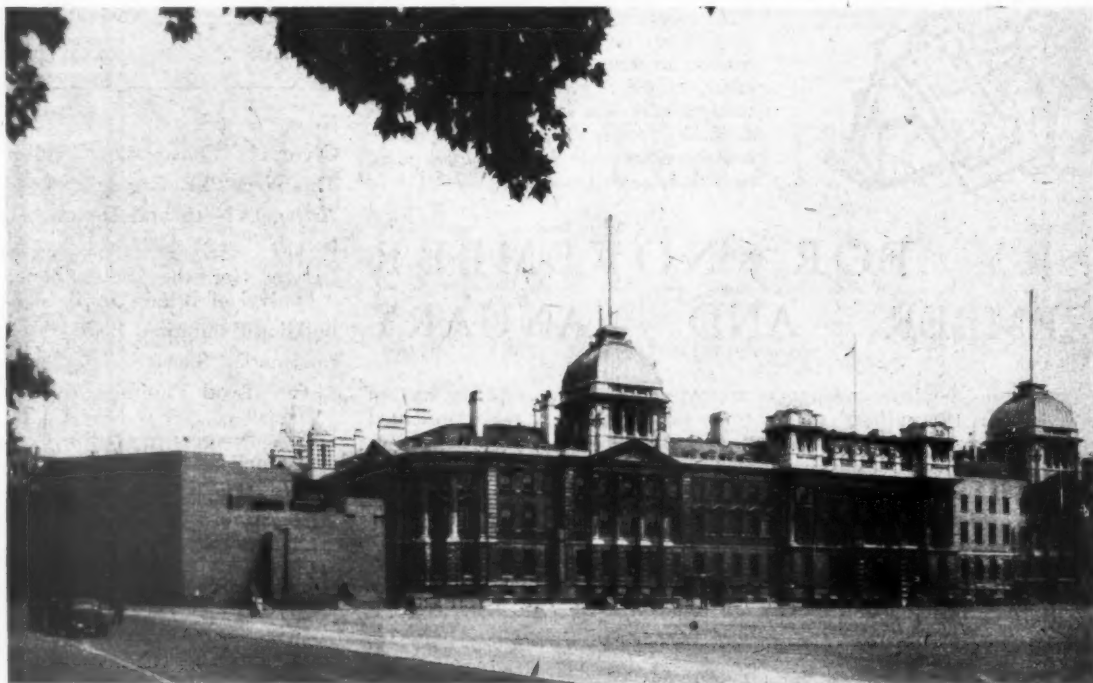
★★ means important news, for reasons which may or may not be obvious.

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



Mr. Bevan, Minister of Health, opening the Building Exhibition. On the right is Mr. Michael Waterhouse, P.R.I.B.A.

20th Century London



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Bank of England rebuilding	(1939)
British Museum—North Wing, Library and Parthenon Room	(1937)
Central Criminal Court, Old Bailey	(1906)
Charing Cross Hospital	(1905)
Chelsea Bridge	(1937)
Cumberland Hotel, Marble Arch	(1934)
Empire Pool & Sports Arena, Wembley	(1935)
General Post Office	(1909)
Government Buildings, Storeys Gate, Westminster	(1917)
Hampton Court Bridge	(1933)
Wandsworth Bridge	(1941)
Westminster Hospital	(1939)

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WESTMINSTER

From AN ARCHITECT'S Commonplace Book

A SPECTATOR IN ROME. [From A Calendar of British Taste from 1600 to 1800, by E. F. Carritt (Routledge & Kegan Paul, Ltd., 21s.).] Upon my arrival at Rome, I took a view of St. Peter's and the Rotunda . . . St. Peter's seldom answers expectation at first entering it, but enlarges itself on all sides insensibly and mends upon the eye every moment. The proportions are so very well observed that nothing appears to an advantage, or distinguishes itself above the rest. It seems neither extremely high, nor long, nor broad, because it is all of them in a just equality. As on the contrary in our Gothic cathedrals, the narrowness of the arch makes it rise in height, or run out in length; the lowness often opens it in breadth, or the defectiveness of some other particular makes any single part appear in great perfection . . . After having seen these two masterpieces of modern and ancient architecture, I have often considered with myself whether the ordinary figure of the heathen, or that of the Christian temples be the most beautiful, and the most capable of magnificence and cannot forbear thinking the cross figure more proper for such spacious buildings than the Rotund. I must confess the eye is better filled at first entering the Rotund, and takes in the whole beauty and magnificence of the temple at one view. But such as are built in the form of a cross, give us a greater variety of noble prospects. . . . I think there is something more astonishing in this cascade (Terni) than in all the waterworks of Versailles . . . Augustus's bridge (at Narni) one of the stateliest ruins in Italy . . . I saw between Pavia and Milan the convent of Carthusians, which is very spacious and beautiful. Their church is extremely fine, and curiously adorned but of a Gothic structure.—Addison, REMARKS ON ITALY.

Technical Colleges should provide TRAINING in FOREMANSHIP.

This is advocated in the Fourth Report of the Building Apprenticeship and Training Council, which was published last week for the MOW by HMSO, price 6d. The report refers to the serious shortage, in the building industry, of men with the necessary training and experience to act as foremen and supervisors. It reviews existing facilities for educational and technical training, from the secondary technical school or (in Scotland) the pre-apprenticeship stage, through technical college courses for national diplomas, to the universities.

The Council consider that, in the final year of a craft course, interest in management might be encouraged by an introduction to

supervisory problems arising within that craft, to be followed by post-course classes on workshop management. Much could also be accomplished, they say, by intensive part-time courses at technical colleges specifically designed to provide training in foremanship.

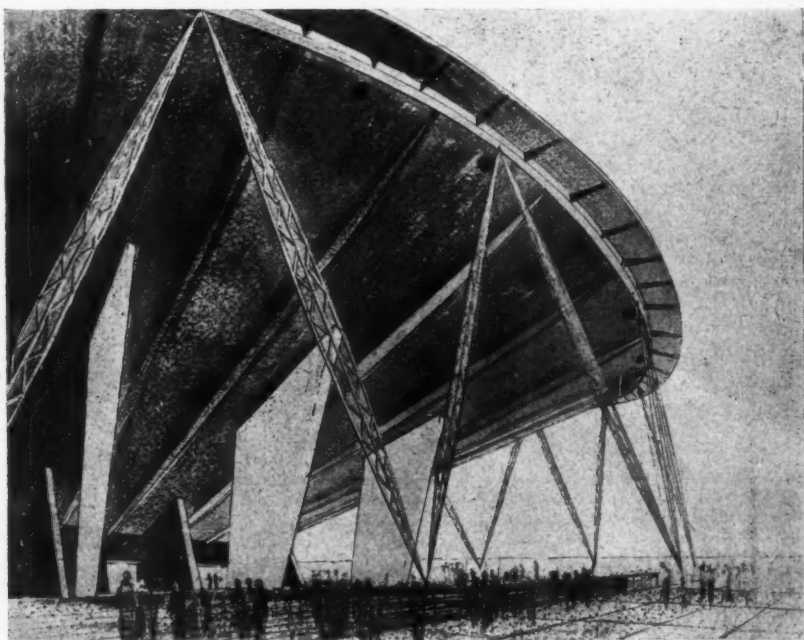
Only two universities—Manchester and Cardiff—provide courses in Building Science, they point out. There are 76 students now reading for B.Sc. degrees in Building Technology, including holders of scholarships awarded through the BATC. Building in the future, says the report, is likely to occupy a larger place in the industrial and social life of the country than ever before. In order to meet the needs of future leadership, the question of providing additional courses in building at universities should receive the close attention of the industry.

The Council recommend that education authorities should consider ways of encouraging the study of supervision and management problems in existing craft courses; and invites the industry to formulate suggestions for a long-term scheme of training for supervisory posts, taking account of new materials, changing methods and conditions and techniques, rising standards of education, and the application of science.

It is pointed out in the report that only 34 per cent. of registered apprentices apply for the Council's Certificate of Completion, probably because young men, and the industry generally, have not yet realized its value. The Council say that their certificate should become a valuable credential on which employers can rely implicitly as the hallmark of the craftsman.



Left, a model showing Hugh Casson's proposed treatment of the Shot Tower on the South Bank for the 1951 Festival of Britain. The base of the tower will contain a small display on the history and future development of the Thames. The summit will be used as a lighthouse and as a mount for the umbrella-shaped



aerial of a radio telescope. Right, an artist's impression of the "Dome of Discovery," designed by Ralph Tubbs. This dome will house an exhibition showing British pre-eminence in discovery and exploration. (See pages 580 and 581 for further details of the exhibition).



Olympia's Outstanding Exhibit

The most interesting stand at the Building Exhibition this year, in both design and technique, is that of the Lafarge Aluminous Cement Company, which is described on page 582 by one of the team of experts who

are reporting the exhibition this year for the JOURNAL. The designers were Messrs. James Holland and P. H. G. Chamberlin, the engineers were Messrs. C. W. Glover and Partners, and the builders, Messrs. Holloway Bros.

BUILDING CUTS may lead to INCREASED EFFICIENCY.

The restrictions on capital investment, with possible redundancy among building workers, may lead to increased efficiency in the industry, suggested Mr. N. Longley, president of the NFBTE at a meeting in London last week.

It had been estimated, he said, that about 70,000 operatives might have to leave the industry within the next twelve months. Those affected would be the less skilled workers, as the industry was comparatively short of craftsmen.

The Building Exhibition at Olympia would help to bring about the increase in efficiency that was necessary in view of the coming restrictions. It would show builders the trend of design and the type of equipment which they would be using and would give opportunities for exchange of information by builders, technicians, and producers of building materials and components.

LOCAL AUTHORITIES have received a circular giving details of HOUSING CUTS.

The Minister of Health, Mr. Aneurin Bevan, has sent a circular to the 1,500 local housing authorities in England and Wales, outlining the administrative steps which are being taken to give effect to the Government's decision to reduce capital expenditure on housing.

The circular makes it clear that it is the Government's policy that priority should be given to the local authority house-building programme. In order to allow time, however, for detailed consideration of the programme for 1950 in the light of the necessary modifications in the total programme, local authorities are instructed to suspend for the time being the issue of further private house-building licences, except where a promise to issue a licence has already been made.

It is the intention in the future arrangements now under consideration to allow a discretion to local authorities to issue licences in respect of a proportion of the houses allocated to them. They will soon be given further guidance on the question of licences for new houses.

A NEW BRANCH of the JOINT FACULTIES has been formed.

At a recent meeting, held at the St. Ermin's Hotel, London, and presided over by Mr. H. H. Murray, president of the Joint Faculties (the Faculty of Architects and Surveyors and the Faculty of Surveyors of England), it was resolved to form a new branch to be known as the Central London Branch of the Joint Faculties. The branch was formed for the convenience of those members living in London, and the boundaries of the new branch cover the twenty-eight London boroughs.

The RIBA have made the following announcements.

Mr. Edward Maufe has received the honorary degree of Doctor of Laws from the Queen's University of Belfast.

Mr. A. Newton Thorpe, president of the York and East Yorkshire Architectural Society, has been chosen to serve on jury to consider the award of the RIBA Architecture Bronze Medal to a member of the Royal Incorporation of Architects in Scotland.

For the third year in succession the Royal Australian Institute of Architects has asked the RIBA for the names of five hundred members or dependants to whom they could send gift parcels. The Architects Benevolent Society is providing names.

HOUSING MANUAL, 1949

THE new Manual appearing in the midst of an economic crisis is a most promising and courageous document.

In spite of many objections which would have to be raised in a more detailed analysis of its contents it is, nevertheless, a sure guide to progressive planning. Unquestionably, the Ministry of Health has taken the lead, and this time has committed itself to considerable detail. While the average standard of planning is considerably higher than that in the 1944 Manual, the main importance of the new Manual lies in the changes of planning policy which are suggested. At least one definite forward step has been taken in each aspect of housing: in site layout and roads, in the planning of flats, and in terrace and semi-detached housing, proposals long advocated by the JOURNAL have achieved official approval. These proposals will result in the elimination of undesirable features which still formed part of the design policy in the years immediately after the war. For example, the nature and purpose of the terrace house is more fully recognised, and it will be noted with satisfaction that the wide-front type is recommended. Effective alternatives to the tunnel and the back alley for access to the garden in terrace housing are suggested, and these can readily be improved upon. The revival of the three-storied terrace house, on the other hand, is largely an experiment and may encourage sub-tenancy, an endemic feature of this type of dwelling. The three-storied house with garage on the ground floor, however, is a welcome addition to the list. The semi-detached house benefits from careful study of the out-building and its value as a linking member. The efforts to provide alternatives to the "universal plan" should also be noticed.

Some courage was required to restrict the use of the balcony access in flat design to blocks with one- and two-room flats only, and this really progressive step must be greeted with satisfaction. This is the sort of thing on which the Ministry can be expected to give a lead and it is gratifying that it has lived up to this important duty. No longer, it is to be hoped, shall we see tall blocks with rows of galleries being built; a more human access for child and adult alike is the separate staircase which the Manual suggests.

The layout of housing sites benefits too. Road widths are reduced, an overdue step which at long last has been taken and which is now more realistic than ever before. Here, as in so many other respects, cuts are in the nature of progress. Similarly, in the siting of houses, geometry is giving way to a natural—and more indigenous—pattern; contours and landscaping are coming into their own. It remains to be wished that aspect could receive further consideration.

The use of internal greens in housing blocks is a welcome break with former practices; at last children will know where to go for play. Planting for formal appearance is giving way, where necessary, to planting for use and pleasure. Informality is recognised as the basis for everyday planning.

Architecturally the Manual might have gone further in its recommendations. It would be encouraging to see more houses like those put up by the Loddon RDC in Norfolk, and more flats like those built by St. Pancras Borough Council in Camden Town or the small three-storied block in Lambeth, all of which have been illustrated in the JOURNAL. These designs show a wholesome austerity keeping the right balance architecturally and economically. There should be more of them.

Whatever may happen in the near future in housing, there is no need to fear that the progressive basis, which the new Manual suggests, will have to be sacrificed to economic cuts. Some standards may come down, but there will be no need to increase road widths again; nor will tunnel and balcony access have to be re-introduced. Progressive planning and sound economy are compatible and the Ministry of Health must be congratulated for its courage in publishing a largely progressive Manual at this moment.



The Architects' Journal

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

AT OLYMPIA

Congratulations to Montgomery and the whole building industry on the exhibition at Olympia. Despite all the criticisms levelled by even hotter heads than mine, the exhibition, year by year, grows steadily more interesting and better arranged.

I was interested to see in last week's JOURNAL that none of the specialists appeared to carry their suggestions to an ultimate conclusion. If I had been asked to say how the exhibition should be organized (I wasn't, so that's why I'm inflicting this on you here) the next step I would have advocated, after the grouping of exhibits

according to subject, would be the elimination of stands altogether. (This would hurt me just as much as it would hurt some of you). What a relief just to see the objects themselves, with no fantastic significant forms jabbing my insignificant reactions, no ultra-bold titling, no insistent signs, just the exhibits themselves, and attached to each a label and a nice soothing man to explain the difficult bits. On second thoughts I would allow some artistic stimulus in the form of daring experiments in structural techniques. There is a great source of satisfaction in watching a precast prestressed camel receive the last straw.

RE-THATCHING REQUIRED

The new BRS report on parapet walls and damp proof courses reminded me of leaking roofs, which in turn recalled a recent visit to the "Thatched Barn" Field Testing Unit.

I suppose a large proportion of the profession have never visited the place, and when, if ever, the "Thatched Barn" is mentioned in casual conversation, assume that behind a shaggy mock-antique exterior lurks the steel, glass and gleaming tiles of film-land laboratories.

The inaccuracy of that impression was brought wetly home to me as I sloshed through sheets of puddles from leaking laboratories to cold and

draughty huts. The unit's purpose is to test ideas on building construction under site conditions. Alas, on an average winter's day they can hardly avoid doing so.

There is an even sadder side to it all. In 1951, I hear, they are due to leave the "Thatched Barn," and no alternative place has yet been found. Here is an opportunity for the MOW to compensate for frozen fingers and sodden boots, and for all the faults which inevitably arise from turning a road-house into a laboratory. The MOW should provide a properly planned group of buildings for the Field Testing Unit, worthy of the all important task it has to perform.

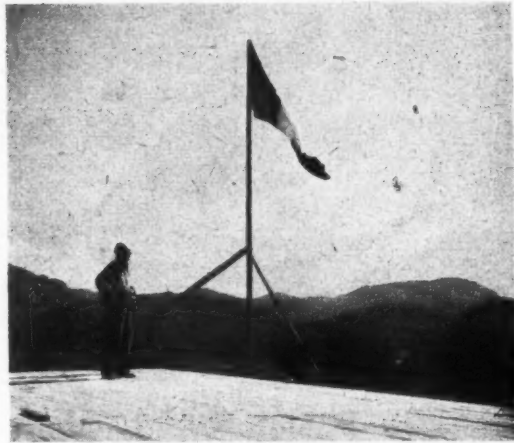
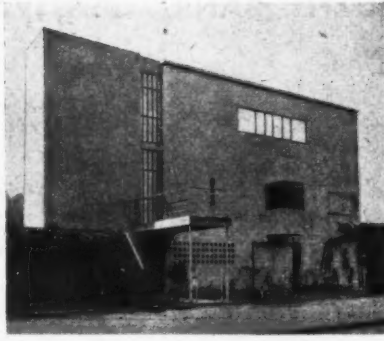
VILLA VAUCRESSON

It is not always that an architect is fortunate enough to die of old age before his masterpieces have been all but destroyed by the hands of adapters and improvers. A friend of mine, recently returned from France, reports on the fate of two of Le Corbusier's famous buildings.

In my illustration you can see how the original Villa Vaucresson has been "improved" and adapted to house a group of shops. The new pitched roof is a fitting crown to the work of the architect, M. Boucher, who carried out the alterations. Certainly he has butchered Le Corbusier's severe profiles and pioneer flat roof.

The other building to come in for some adaptation for a new use is the Villa Savoye at Poissy, later but more famous than Vaucresson. Here one of the ground floor windows has been perforated to allow a dainty cast-iron flue pipe to protrude and add its own distinctive patina to the ageing rendering. Among the pilotis are piles of firewood and trusses of hay. Can it be that mules are stalled in the garage? My friend reported that it is impossible to get inside these buildings, though it is clear that decay is advancing rapidly, largely through neglect.

It is pleasant to end on a happier note. My third illustration is of Le Corbusier himself, hands on hips, quite oblivious, I hope, to the



Above right, the original villa Vauvresson by Le Corbusier. Above, the villa as it appears today. Right, Le Corbusier standing by the Tricolour planted on the top of the Unité d'Habitation at Marseille. [See Astragal's Note.]

disasters which have befallen his old essays, and studying with pride the Tricolour which he raised last month on the summit of his latest building, the Unité d'Habitation at Marseille.

SECOND THOUGHTS ON PLANNING

Lionel Brett's paper at the RIBA last week drew a good crowd considering the fog, and so it should have, because an architect who is actually engaged in planning one of the New Towns is in the strongest possible position to talk about planning in practice. So much of the talk about town and country planning still remains theoretical.

The paper was essentially thoughtful and—I thought—as well composed and delivered as any I have heard. I was surprised that so many of the people who joined in the discussion afterwards took Mr. Brett's unassuming, objective analysis of the planner's aims and limitations as pessimism. And even if he was pessimistic, that in itself I found a reason for optimism; it was so much more grown-up than the bland optimism with which the planner has set out

in the past on his self-appointed task of putting everything to rights.

Mr. Brett was particularly interesting—and to many of his audience provokingly unorthodox—on the subject of the control of appearance. In a few words, he was against any sort of control, except for the purpose of protecting some major work of architecture with which we cannot afford to take chances. The RIBA, I believe, is much concerned with this subject at the moment, and before long will be giving the profession—and ASTRAGAL—an opportunity of discussing it in detail. Meanwhile I will only say that by and large I agree with Mr. Brett.

BEAUTY AND THE BOROUGH

A well illustrated booklet with this name which describes all the efforts which the Hornsey Council has made to "preserve and enhance the natural beauties of the borough," only serves to show just how much beauty this borough lacks. In fifty-odd photographs there is hardly a building which is worth a second glance. All credit, then, to the borough for the very brave attempt they have made

to improve conditions. Bombed sites, hoardings, fences and gardens have all been carefully considered, even if not always to suit my difficult taste. It is a pity that other councils don't follow suit.

TOMBOLA CORRECTION

By the way, I was misinformed on the date for sending in gifts for the RIBA Tombola. It is NOT too late to send one, provided it is received by November 30.

ASTRAGAL

LETTERS

L. C. Howitt, F.R.I.B.A.

Architects Registration Act 1938

SIR.—Mr. Athoe knows quite well that my questions are by no means irrelevant to the considerations behind his deprecatory references to the RIBA's attitude in regard to qualification for admission to the Register of Architects. He does not accept my challenge to give particulars of the numbers of architect members of the IAAS who have passed the Association's qualifying examination, or say when the examination was last held.

As Mr. Athoe believes that anyone who desires this information can obtain it on application to the Architects Registration Council and the Board of Architectural Education, he may be relieved to read the following reply to my inquiry as to (a) When did the IAAS hold its last qualifying examination for architects? (b) How many sat and how many passed? (c) What percentage of the architect members of the IAAS have passed this qualifying examination. The following reply was signed by the registrar, Mr. Pembroke Wicks:

"The reply to your letter of November 7 must depend on the meaning you attach to your question (a) 'when did the IAAS hold its last qualifying examination for architects?'

"If by 'qualifying examination' is meant examinations qualifying for registration I can only reply that the examinations of the IAAS are not recognised for this purpose.

"If by 'qualifying examination' is meant qualifying for admission to the IAAS, that is a private matter for the Incorporated Association, who alone can answer the question.

"Consequently the answer to your questions (b) and (c) must be the same.

"I am unable to understand the statement in Major Athoe's letter of November 3 that the information you require can be obtained from this office.

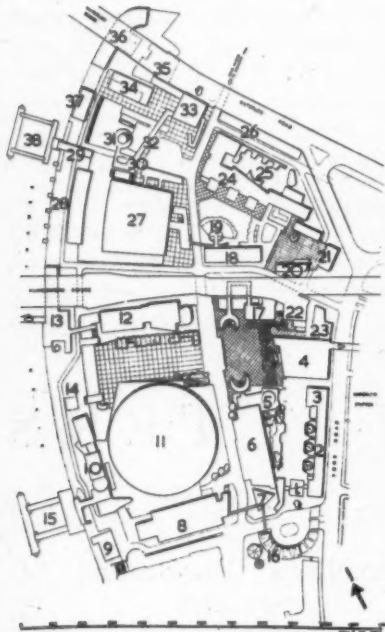
"Mr. Everard Haynes, the Secretary to the Board of Architectural Education, to whom you have also written in the same sense, desires me to say that he concurs with the above reply."

It must be concluded that the missing statistics (if they are not a nil return) are damaging to Mr. Athoe's arguments, otherwise they would not be veiled in secrecy. It is obvious that the Architects Registration Council's refusal to recognise this "qualification" is completely justified.

Manchester.

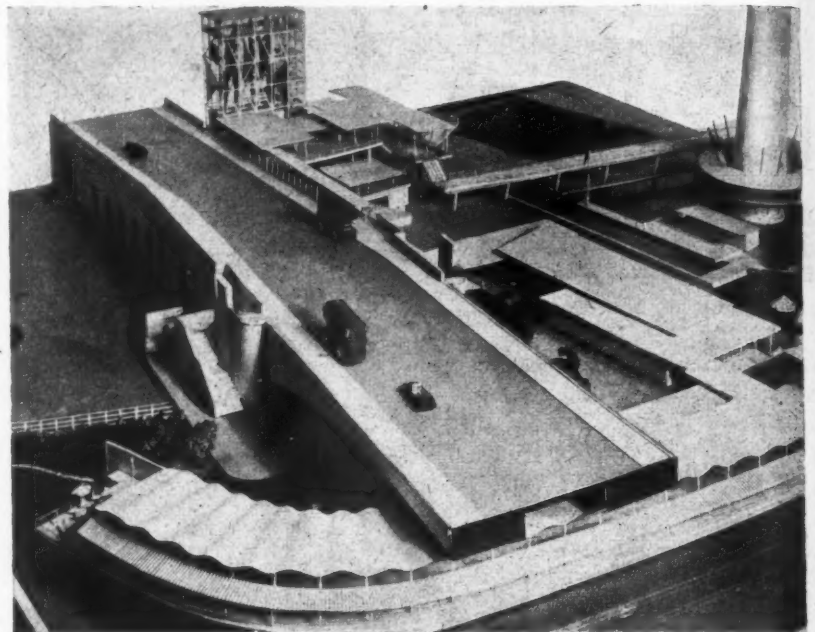
LEONARD C. HOWITT.

DESIGNS FOR THE SOUTH BANK, FESTIVAL OF BRITAIN, 1951



KEY

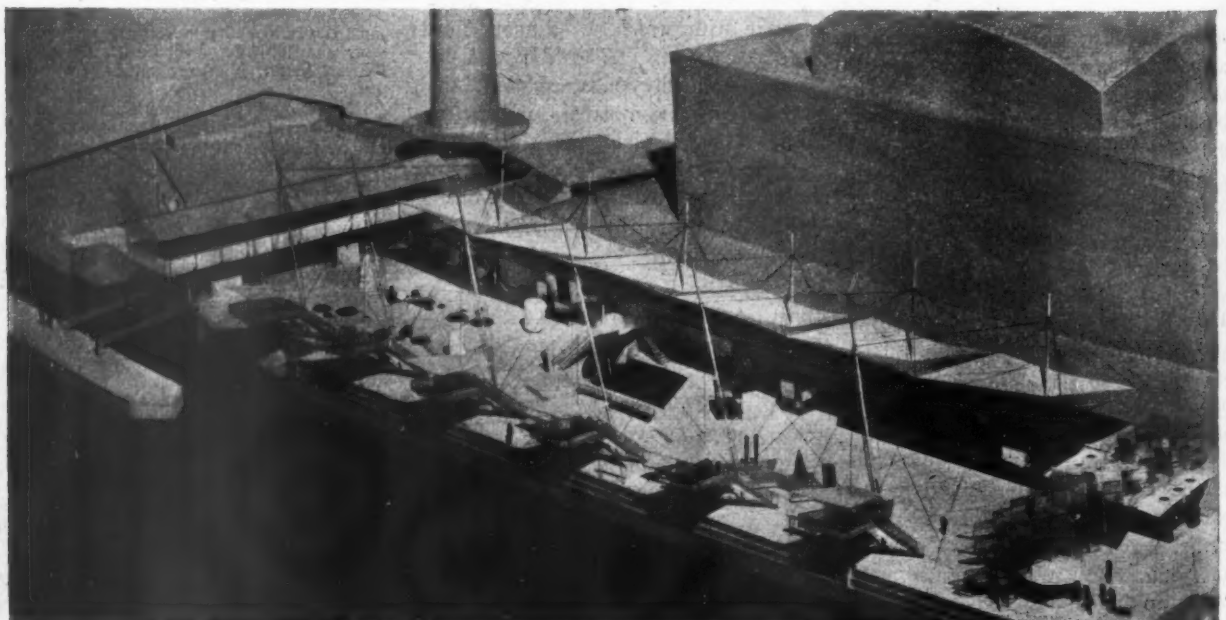
1. Canopy over entrance. Architects Co-operative Partnership.
2. Information, Post Office, etc. Architects Co-operative Partnership.
3. Restaurant. Architects Co-operative Partnership.
4. Entrance from Waterloo Station, Escalator Hall for underground below. Gordon Tait (Sir John Burnet, Tait & Partners).
5. The Land of Britain. H. T. Cadbury-Brown.
6. Country. Brian O'Rourke.
7. Natural Resources. Architects Co-operative Partnership.
8. Industry. S. Grenfell Baines.
9. Restaurant (the subject of a competition).
10. Sea and Ships. Basil Spence.
11. Dome of Discovery. Ralph Tubbs.
12. Transport. Arcon.
13. Restaurant and Entrance from Bailey Bridge. Misha Black.
14. Vertical Feature (the subject of a competition).
15. Pier. Basil Spence.
16. Administration and Entrance from Chicheley Street. Architects Co-operative Partnership.
17. The People of Britain. H. T. Cadbury-Brown.



18. Character and Tradition. R. Y. Goodden and R. D. Russell.
19. Cafe. R. Y. Goodden and R. D. Russell.
20. Film and Television. Wells Coates.
21. Telecinema. Wells Coates.
22. Locomotive Exhibit. H. T. Cadbury-Brown.
23. Administration. Gordon Tait.
24. Homes and Gardens. Bronek Katz and R. Vaughan. Introduction to Homes and Gardens. Denis Clarke Hall. Courtyard. Hugh Casson.
25. Creche. D. Clarke Hall.
26. Administration and Stores. Edward Mills.
27. LCC Concert Hall. Robert Matthew.
28. Seaside. Eric Brown and Peter Chamberlin.
29. Restaurant. Eric Brown and Peter Chamberlin.
30. 1851 Pavilion. Hugh Casson and James Gardiner.
31. The Shot Tower. Hugh Casson and James Gardiner.
32. Bridge to LCC Concert Hall. Maxwell Fry and Jane Drew.
33. Entrance from Waterloo Bridge. New Schools Exhibit below. Maxwell Fry and Jane Drew.
34. Cafe. Maxwell Fry and Jane Drew.
35. Health. Maxwell Fry and Jane Drew.
36. Restaurant. Maxwell Fry and Jane Drew.
37. Sport. Maxwell Fry and Jane Drew.
38. Pier. Eric Brown and Peter Chamberlin.

The plan for the 1951 Exhibition on the South Bank was released last week. On it are shown some thirty buildings, all of which are to be temporary structures. The development and the planning of roads, gas, water and electricity services, landscapes and terracing is being carefully co-ordinated so that as much work as possible will be of value when the exhibition has been dismantled. On this page is shown a layout plan and beneath it a key giving the position of the pavilions, restaurants, etc., followed by the name of the architect responsible for the design.

Above, a model of the exhibition entrance from Waterloo Bridge (Number 33 on the plan) and the proposed riverside restaurant (36) on the new embankment, both designed by Maxwell Fry and Jane Drew. Below, the seaside section (28) designed by Eric Brown and Peter Chamberlin.



1951

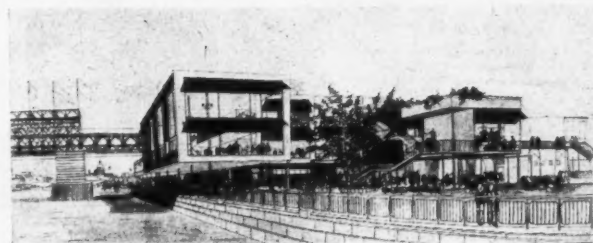
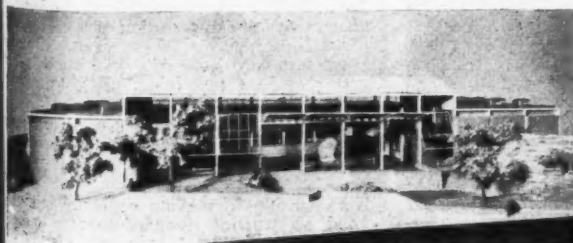
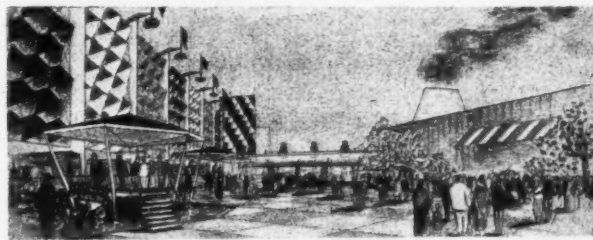
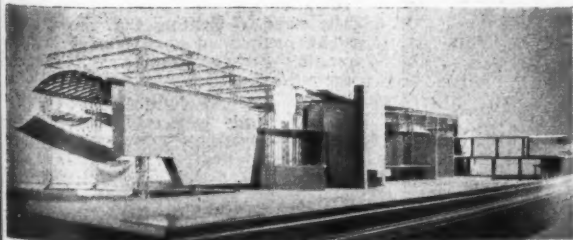
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Aerial view of the South Bank.

Below left, the Sea and Ships section, sited on the river bank alongside the dome, designed by Basil Spence. Below, the Chicheley Street entrance courtyard, designed by the Architects Co-operative Partnership. The information and administration offices are on the left; on the right is the Country Pavilion, with the Natural Resources Pavilion beyond. Bottom left, the Country Pavilion, designed by Brian O'Rorke. Bottom right, the Bailey Bridge restaurant, designed by Misha Black.



BUILDING EXHIBITION: 1949

This is the second of the series of three reports on the Building Exhibition at Olympia, which is now in full swing. The reports are being written by a team of nine experts who are all well known in their particular spheres. As the writers will remain anonymous, their reports are preceded by the names of their subjects. Included in the team are three engineers, three architects,

the head of a building department at a famous University, a technical journalist and an industrial designer. In this report the items they found of greatest interest in the exhibition are described and illustrated. In the final article next week the writers will sum up, mention any items omitted last week or of secondary importance, and express their hopes for the exhibition of 1951.

WHAT THE SPECIALIST SAW AT OLYMPIA

Concrete: A most striking feature of the Exhibition is the stand (see p. 576) of the Lafarge Aluminous Cement Co. (Ciment Fondu). The concrete structure, which was all cast on the site, consists of a 4-ft. foundation block situated below floor level immediately underneath the column, a base slab in ordinary reinforced concrete, a post-tensioned octagonal column (17-in. diameter and 12-ft. high) and a post-tensioned top slab with a maximum breadth of 16-ft. and a length of 23-ft. 9-in. (Area 220 sq. ft.) The total time available to the contractors was only six days and the only possible way to carry out this job was with aluminous cement, so that the concrete had a compressive strength of 6,000 lb. per square inch 24 hours after casting.

There are six cables only in the column and twelve cables in the slab, each cable consisting of a group of twelve high tensile steel wires (0.2 in. diameter). These cables

were post-tensioned and anchored by the Freyssinet method, the initial stress applied being 60 tons per square inch. The column cables and the slab cables, which are not connected to each other at any point, are set in bituminous paper so that they may slide.

Shortly after tensioning the cables and the removal of the supporting shutterings the top slab was loaded by placing evenly over the whole area three layers of 1 cwt. sandbags. The load thus superimposed was about 120 lb. per square foot, or 11 tons 9 cwt. total. The sandbags were then removed from the rear or back portion of the slab, leaving a load of 6 tons on the front cantilever. The stand passed these tests satisfactorily.

A particular feature of the stand is the smooth shiny surface of the column and the soffit of the slab. The shuttering used was polished steel.

Another interesting exhibit is the model of a barrel vault roof at the stand of Twistee

Reinforcements Ltd., showing the various stages of construction. A full size model of scaffolding and shuttering for barrel vault roofs in a new form of construction recently developed by Kwikform Ltd. may be seen at their stand.

Prestressed concrete is well represented at the stand of the Ministry of Works, where the different methods of prestressing and a number of its applications are shown. One of the latest applications on a large scale in this country is the new Stationery Office in Edinburgh, of which many photographs are exhibited.

Of precast products the Finlock Gutter deserves to be mentioned, as a combined eaves and gutter construction which saves timber and steel.

Light-weight concrete can be seen at the stand of MetaMica Ltd. The raw material used by this firm is micaceous mineral mined in South Africa, the volume of which is expanded ten to fifteen times by heat treatment. The material is particularly useful for insulated roof screeds, nailable floor screeds and for sprayed finishes. It has a high degree of thermal insulation and is an excellent material for protecting steelwork against fire. Another method of producing light-weight concrete is by introducing foam into the mortar. Pyrene show a light concrete aerator and equipment for making a fine bubbled foam. Their products are marketed under the trade name of Phomene.

Structural and Mechanical Development Engineers Ltd. show another type of aerated concrete slabs. Whereas Pyrene sell their equipment to firms interested in manufacture, SMDE only sell the finished article. Foamed slag concrete has now become a more or less standard material like ordinary concrete. The use of this material for housing both in the form of cast *in situ* and pre-cast blocks as shown at the stand of the Foamed Slag Producers Federation.

The stand of Pynford Ltd. shows a good patent method of underpinning walls by inserting precast stooing and reinforced concrete beams.

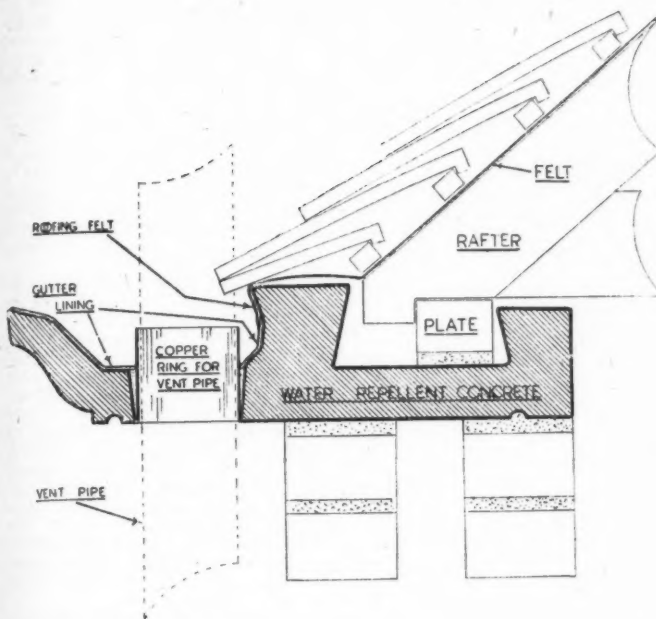
British Steel Reinforcement Co. Ltd. display various gadgets for the improvement of reinforced concrete structures. One is the Besserbar Waterbar which should make working joints waterproof. Another is Besserfix in various types for securing the reinforced bars in their right positions. An improvement for casting cavity walls are Hyspecon Multi-forms, which are a movable shuttering for the construction of a section of a cavity wall 2-ft. 3-in. long by 9-in. high. Circular forms are also available. All models are constructed of aluminium alloy to reduce the weight to a minimum.

The Cement Marketing Co. Ltd. shows various surface treatments of concrete.

The DSIR stand has several good illustrations which show the consequences of bad workmanship in making concrete and also good construction designed to save cement and avoid damage. A point made is that up



Post-stressing the reinforcement in the Lafarge Aluminous Cement stand. See page 576.



Section through the Finlock precast concrete gutter.

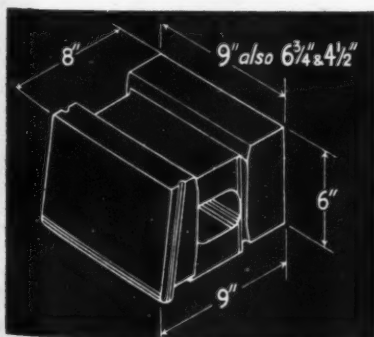
to 20 per cent. of the cement used in concrete could be saved without loss of strength by using correct aggregates, controlling mixing properly and by applying in the right way.

There are a large number of products exhibited to render concrete waterproof. The stand of J. A. King and Co. Ltd. deserves to be mentioned. It shows how glass concrete may be applied to different types of structure.

For the builder there are, of course, also a large number of concrete mixers, vibrators, and hoists exhibited by well-known manufacturers. In this sphere an interesting exhibit is Blaw Knox Ltd.'s concrete pump which delivers concrete by pipeline from mixer to placing point along several hundred yards.

An interesting innovation is the Dri-Crete wall built by the British Art Tile Co., consisting of specially shaped hollow concrete blocks which are interlocking. The system is dry and mortarless, this being made possible by the dimensional accuracy of the blocks. Its main use seems to be for boundary and garden walls. It is said that the Building Research Station has found the structural strength of such walls up to the required standard.

Steel: Compared with previous years' products, the present types of scaffolding are making more and more use of welded construction. Welded tubular construction is shown in a number



The Dri-Crete block.

of very good examples on the stand of Scaffolding (GB) Ltd., one of them being a rigid frame of 30-ft. span and 14-ft. height, with the cross-section as a triple cord tubular arrangement. Fifty per cent. saving in weight is claimed, but it is fairly clear that these designs are not cheaper than traditional methods, although the saving in weight is considerable. Barrel vault roofs are supported on tubular scaffolding centreing, one of the most recent applications of this type of tubular structure.

British Railways have an attractive stand, apparently intended as a sort of travel bureau, displaying leaflets, time-tables, and so on. But why has not the opportunity been taken of showing some of the most up-to-date structures put up by British Railways, such as prestressed concrete bridges, welded steel construction, all-welded station roofs, and so on?

A stand at the Government Information Centre is devoted to steel efficiency, giving the advantages of rigid and semi-rigid joints in steel construction, and showing drawings of roof trusses in light-gauge strip steel and dimension drawings of various types of beam to stanchion connections in multi-storey buildings. Figures about saving in weight of steel for various types of construction are worth noting.

Stewarts and Lloyds's stand is built from tubular welded steel units of 27-ft. span in 10-ft. bays as approved by the LCC. It is easily bolted together by means of standard welded units at the haunches and the apex. The usual cover would be Big Six asbestos sheets with Perspex roof lights fitting into the standard roof sheets. Factory roofs up to 80-ft. span have been built from such units with a rise of 20-ft. and weighing only 27 cwt.

Structural & Mechanical Development Engineers Ltd., show an interesting building [in photographs] which combines three different structural materials in one job—aluminum for the roof trusses of 60-ft. span, prestressed concrete for the stanchions at 15 ft. spacing and steel for the crane gantry girders. It looks a somewhat unusual combination, but it has proved to be the most economical solution. The building was erected for the South Wales Board Mills Company.

The stand of Metal Sections Ltd. of Oldbury shows roof trusses riveted from light-

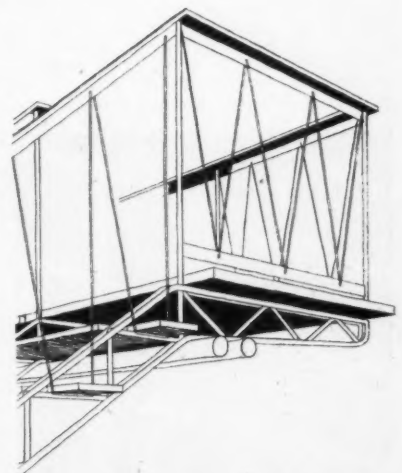
gauge pressed-steel sections which combine high strength with light weight. There is a very wide choice of cold-pressed sections of this type, mostly of 16 SWG sheets and spot-welded together. They are nailable and easy to handle and they can be adapted to practically every need of the structural engineer. They are an excellent means of saving weight of steel—an important economy these days. On the other hand, costs are higher per unit weight.

The Ruberoid Ltd. stand is built from straight steel tubes welded together and braced by secondary tubular struts. Only a few bolts are used for assembling and the whole job looks extremely neat and economical. The stairways are supported by light-gauge lattice girders welded from small diameter solid grounds providing support for the timber treads. The economy of this design is probably best illustrated by the fact that the available floor area is nearly doubled by the provision of an upper platform.

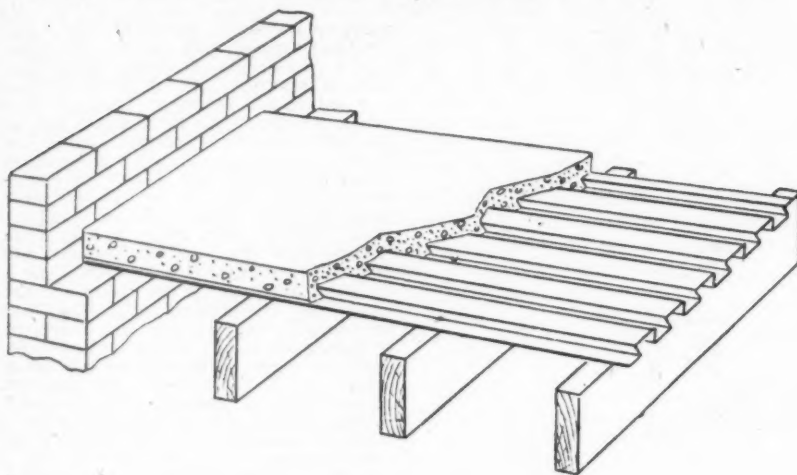
There are several interesting things on the stand of K. J. and A. Sommerfeld Ltd., notably the pressed-steel sub-frame and mullions as used in the new schools designed by J. Harrison, chief architect for Surrey County. The uprights form a neat cladding to the stanchions. On this stand, too, incidentally, is the Mediagraph, a clever Swedish invention for simplifying perspective drawing.

Timber: As might be expected in a section of the industry so ruthlessly deprived of its raw material, the emphasis of the timber trade exhibits is placed almost entirely on economy. This is proved by the interest shown in research in the machinery of conversion, in the utilization of waste products and in the preservation of timber.

Research is well represented by the Forest Products Research Laboratory, by the Timber Development Association and the British Chipboard Manufacturers' Association. The main exhibits of the FPRL is an illustration of how one should take full advantage of the structure of a house to provide the most economical roof within the allowance of 1.6 stds. per 1,000 sq. ft. of floor area. The essential feature of the design is a refinement of the traditional method of strutting the roof from such brick partitions as may be available. This is a direct alternative to the roof sponsored by TDA, which aims at providing the architect with the maximum freedom by removing the necessity for strutting of this kind.



Detail of the welded tubular steel staircase with its cantilever on the Ruberoid stand.



Lewis dovetailed steel sheeting on timber bearers.

The TDA has this year placed its main emphasis on the development of the glued laminated arch and the application of timber to construction of single-storey shed buildings and a standard range of roof trusses for industrial buildings. The two practical illustrations of these developments are models of the experimental greenhouse built for the John Innes Agricultural Station at Bayfordbury and a large timber storage shed at Shoreham-by-Sea. The essential feature of the former is a laminated arch of 30-ft. span and attractive design, the latter being an engineering structure consisting of a combination of a central portal frame and two side cantilevers having an overall width of 145-ft. Both these structures are unquestionably significant pointers to architects to the future of timber in the field of construction. The British Chipboard Manufacturers' Association have obviously set out to draw attention to the mechanical possibilities of wood-waste boards, their exhibit consisting of a demonstration of test technique employed in establishing the physical properties of their material.

Although not of interest to architects in detail, the exhibits in sawmilling and wood-working machinery are impressive, both in their size and extent. Whatever disadvantages timber may be suffering at the moment through the lack of supplies, the very solid achievements of the machinery designers augur well for the future by providing the means for craftsmanship of a very high order.

In joinery the most notable exhibits are as one might expect in that field where the competition of other materials is keenest—builders' appliances, windows, doors, kitchen fittings, all showing symptoms of increasing competition and the shortage of supplies. Of particular interest to the architect are the Carda window demonstrated by both

Stramit Boards Ltd. and Pilkington Bros., and a very ingenious window exhibited by Cygnet Joinery Ltd. The Carda window is of Swedish origin and is centrepivoted on a horizontal axis, with double glazing. Its use in schools, hospitals and office buildings has developed abroad and may be expected to become popular in this country. The Cygnet window is specially designed as a safety window and appears to remove almost entirely the danger of children falling out. Called the Row-hill safety window, it consists of two leaves or casements, hinged together at the centre, opening and closing concertina fashion and providing ample ventilation with the minimum of opening space. Here again double glazing may be incorporated. This exhibitor also shows a door of novel design which incorporates a draught excluder in the lower edge as an integral part of the assembly.

The housewife's interest in kitchen fittings is met very adequately by Peerless Built-in Furniture Ltd., who provide an excellent range in simplicity and design. This exhibit also provides an effective answer to the growing competition of metal draining boards by standardizing from eleven patterns a range of drainers providing some six thousand different models. This should be of outstanding interest to the builder as well as the architect. The exhibitor also shows an ingenious use of wood waste in the manufacture of wood flooring blocks. These blocks, which may be either 12-in. by 3-in. or 9-in. by 3-in. in size, are 1-in. thick and built up from narrow strips of wood glued together so that the edges of the strips are exposed to wear. An attractive feature—now shared by hardwood blocks—is that they can be obtained without licence. The effect of the dollar shortage is well illustrated by the unfamiliar names of timbers now being drawn from the Empire and sterling areas—Avordire, Mansonia, Guarea, Makore and Utile—all have an exotic ring and are exemplified by the very attractively veneered flush doors displayed by F. Hills and Sons Ltd. Similarly, the strip flooring in Yang and Krabak shown by A. Vigers, Sons and Co. catches the eye as a portent for the future.

Bricks: There are several examples of mechanical plant and equipment used in brick building such as shovels, mobile cranes, dumpers and shunting tractors. The recent development, which has for its object an increased output from the bricklayer, is that used by the Chaseside Engineering Co. This consists of a steel frame attachment to the mechanical shovel manufactured by this firm and delivers 3,000 bricks per hour on the scaffolding or working site. An

interesting exhibit in model form is displayed on the factory department stand of the Ministry of Labour. This is the Warry Universal Platform Hoist which has been developed recently to incorporate safety gates. Associated with these is an automatically operated Platform Lock. It comes into immediate operation if a cable breaks and locks the platform to the column as required. During the ascent and descent of the platform the safety gates are closed and cannot be opened until the platform strikes the base mechanism.

The National Federation of Clay Industries shows facing bricks produced by several firms. The South Eastern Brick and Tile Federation is also staging a composite exhibition of facing bricks. Unfortunately the panels of facings are too small to do justice to the colours and textures. One of the most attractive and effective individual exhibits is that of G. Tucker and Co. Ltd. Their stand consists of brick walls faced externally with textured machine-made bricks and internally with hand-mades. The window and door surrounds are given varied treatment. The roof of hand-made tiles is hipped and the traditional detailing includes bonnet semi-circular ridge, and swept valley with tile tongues, etc.

London Brick Co. Ltd. displays Phorpre common, cellular, keyed, rustic facing, sandfaced facing and light facing bricks in addition to hollow clay blocks. The stand is designed to show a practical application of reinforced brick lintols and piers.

White gault facings are displayed by Fisons Ltd., and sand-lime bricks by the Sand, Lime and Brick Manufacturers' Association, while Eastwoods Ltd. show a new rustic design fletton, called the Paisley, of pleasant appearance at 140s. per 1,000.

It is interesting to note that the demand for hand-made bricks is steadily increasing and consequently southern manufacturers have resumed production.

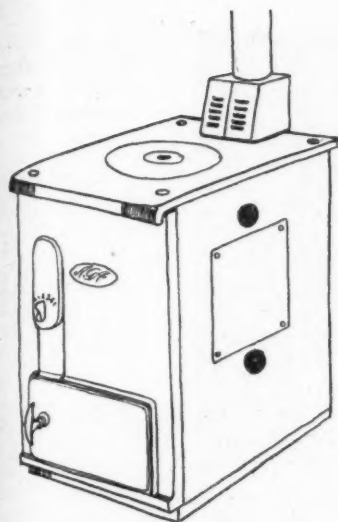
For those with clients who do not like the normal type of interlocking tile, but who want a low pitched roof, Laneley (London) Ltd. show a special interlocking tile not unlike a plain tile in appearance which can be laid at a pitch of 30°. The tile is machine made of clay.



Texture of the Paisley Rustic Fletton.



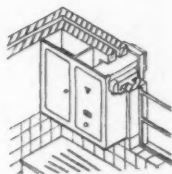
The Warry brick hoist with safety gates which is shown in model form at Olympia.



The new Aga boiler.



The new balanced flue Ascot water heater.

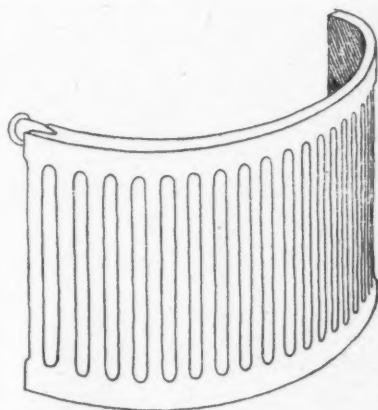


either side of the boiler form a useful addition.

To return to a boiler of the small size, the finned-back boiler shown on both the Gas Council's and the Solid Smokeless Fuels Federation's stands is interesting, having a higher efficiency than the majority of back-boilers, and the interesting provision of an auxiliary gas heater which can be clipped to the front of the boiler to provide hot water during the summer when no fire is required. There is no thermostatic control, but it is assumed that the heater will only be brought into occasional use when baths are required, whilst a separate small instantaneous heater will be used in the kitchen. The thermal efficiency, when using gas, is about 65 to 70 per cent. Coke, coal or any of the other smokeless fuels may be used, and provision is made for gas ignition and all-night burning.

On the SSFF's stand is also shown a normal small cast-iron sectional central heating boiler with the addition of a sensitive draught control and thermostatic control for the primary air. These additions give a considerable improvement in thermal efficiency and may help to give this type of boiler a new lease of life: the tendency for the moment is for them to be superseded by welded steel boilers of more modern design.

One more boiler of interest is shown; the Hazel, produced by CSA Industries Ltd. This is interesting in that it is enclosed in a case "styled" to correspond with cookers, sink units, refrigerator cabinets and other fittings. Inside the imposing case is revealed a cylindrical boiler with shaking grate and a large ash pan which requires emptying only once in seven to fourteen days, a very good point. It will burn any normal fuel. Central heating rating is 18,500 B.Th.U.s per hour. There is no thermostatic control, but a dial on the front is connected to both the flue damper and the air door. The very simple design and absence of thermostatic control make the claimed efficiency of 75.9 per cent. at 25,000 B.Th.U.s per hour surprising. The price is £54 10s., only a little less than a magazine boiler of nearly twice the power; clearly the "style" costs the money.



The curved Gulf radiator of pressed steel. Straight radiators are, of course, also available as well as radiators bent at any required angle.

To continue with water heating equipment, an item of considerable interest is the balanced flue Ascot Instantaneous Heater. This has the advantage that no normal flue and draught diverter are required; both combustion air and the products of combustion are drawn in and expelled through short ducts passing through the wall. Thus, any wind effect is cancelled out, and, as combustion takes place in a sealed circuit open only to the outside air, the risk of fumes being blown back into the room is eliminated. The heater is intended to be fixed in a recess or cupboard and looks very neat. The performance is similar to that of the more conventional Multipoint Instantaneous Heaters which are also shown.

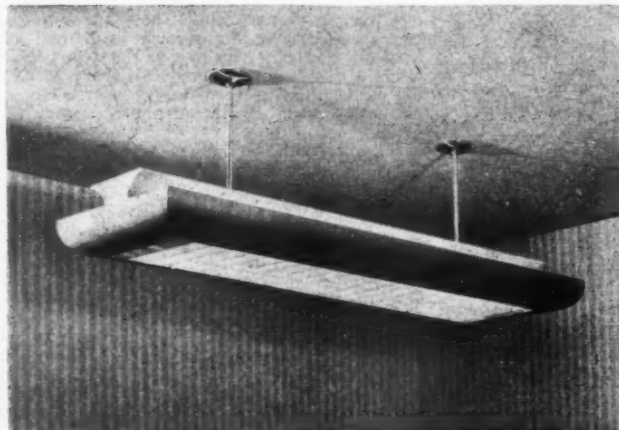
Services : An interesting new independent boiler exhibit of the Aga Heat Ltd. is the Agamatic. It is of high efficiency and reasonable price (£40 with plain boiler or £45 with Bower-Barffed boiler). Thus it falls midway in cost between the very high efficiency and costly boilers and the cheap but relatively inefficient domestic types. Automatic temperature control is provided in a liquid type thermostat which controls the primary air. The boiler is fully insulated and has a riddling grate. The output is of the order of 50,000 B.Th.U.s for the hour, and efficiency of 70 per cent. is claimed. The boiler has cleanable waterways and is suitable for direct or indirect water supply. It has the added advantage of being able to burn any fuel. The enamelled finish and dimensions of the case are such that the boiler is similar in appearance to the Aga Cooker and can be placed alongside it to form a neat combined installation. Although not a magazine type, the firebox capacity is large in proportion to the output, and even when burning coke, refuelling only needs to be carried out once in six or seven hours on the full load. Minimum output or light load is 5,000 B.Th.U.s to the hour. The only representative of the very high efficiency class of boiler is the Trianco, a welded-steel magazine boiler with fully automatic control and forced draught. It has an efficiency as high as 80 per cent., the forced draught giving very rapid heat recuperation. There are three sizes ranging from 60,000 to 300,000 B.Th.U.s per hr. On full load, the boiler requires refuelling only once in sixteen hours, whilst at minimum output, only once in several days. Normally the fuel is anthracite peas or grains, though the larger sizes can burn graded furnace coke as well, a considerable advantage in these days when anthracite is in short supply. The finish of the enamelled jacket looks good and the towel rails fitted on



The Lead Industries Development Council's travelling exhibition.



Four examples of the light fittings on the Merchant Adventurers' stand.



Electric water heaters are shown on the stand of Aidas Electric Ltd. These are of the well-known types, both pressure and non-pressure, and, also, the special calorifier type for coal-electric systems. The finish has been improved in some cases since last year, and minor design improvements incorporated. Berry's Electric have produced a new and very neat little water heater which can be seen on the EDA stand. Note, incidentally a new handbook for 5s. on the EDA stand, *The Electric Water Heating Handbook; a Guide to Practical Design and Installation*.

One firm, the Lion Stamping Co., show paraffin-burning water heaters. In spite of the high costs of the fuel, these doubtless would have some use in country places where only small quantities of hot water are required and paraffin is so often used for cooking and power purposes. A portable hot water supply apparatus is shown which would be particularly useful for washing up at outdoor functions.

A number of manufacturers are showing small domestic boilers of various designs. These are of no particular technical interest, but the appearance has in most cases been greatly improved.

Of hot water radiators a number of examples are shown, and these are made in a variety of materials. Thus, Ideal Boilers & Radiators Ltd. show cast-iron radiators, the Gravinger Manufacturing Co. Ltd., aluminium, and the Gulf Radiator Co. Ltd., pressed steel. The last two types are, of course, considerably lighter than the conventional cast-iron, though this material is still the best from the point of view of corrosion resistance. The reduced risk of fracture in transit is a considerable advantage of the pressed steel type.

Recent research has emphasized the im-

proved heat distribution that is given by enclosed radiators, and these are shown in a number of types on the stand of Copperad Ltd. These heaters consist of a pressed steel casing of good appearance enclosing a copper heat exchanger unit. Air circulation is by natural convection. The same firm shows industrial unit heaters in a number of sizes and types for hot water and high and low pressure steam. There is a big improvement here in the outward appearance of the units which has been cleaned up.

Of gas and electric heaters and fires, a number are shown of which one or two are new. On the Gas Council's stand, there is the Cowper Penfold Balanced Flue Space Heater which has the advantages of good appearance and safety, coupled with an efficiency only slightly less than that of a flueless heater. On the same stand is the Radiation silent beam fire, incorporating non-aerated burners, while a new flueless space heater incorporates a small electric fan to accelerate air circulation: this is the Sugg Assisted Convection Heater. In all, this stand contains a very large and representative collection of gas-fired apparatus. Of electric space heating equipment, the Thermovent, on the stand of E. K. Cole Ltd., incorporates a new safety device in the form of a thermostatic switch which cuts off the current in the event of an undue temperature rise due to the covering up of the louvres. Two other items of interest are the Golden Glow low pressure gas suspension heater of Radiant Heating Ltd., and Everburne Ltd.'s slow-combustion conversion unit, which can be used on most types of open grate.

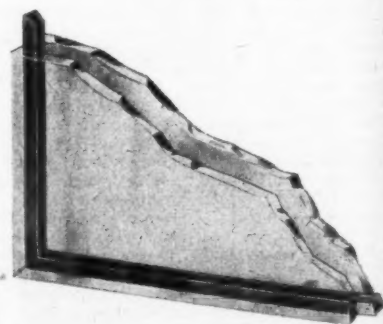
The Lead Industries' Development Council have an interesting stand of which a notable feature is the travelling demonstration exhibit which should be of great use to

technical schools who may have the loan of it.

The Yorkshire Copper Works have an interesting exhibit showing, in model form, a complete installation for hot and cold water and wastes carried out in copper. The Econa Modern Products' stand shows a large variety of traps and very neat waste systems for ranges of basins.

As usual in these Exhibitions, a new tap makes its appearance. This time it is spherical in shape, and its portly top contains three spare washers and a small spanner to change them with. In common with most new patterns of taps, the change can be made without cutting off the water. Another exhibit shows those clever, but I think horrid, taps in which you turn the nozzle part instead of the ordinary valve.

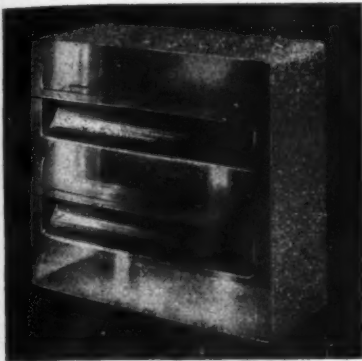
In lighting, one stand was outstanding,



Insulight double-glazing unit showing the copper channel spacing the two panes $\frac{1}{4}$ -in. apart; the inter-space contains dehydrated air and is hermetically sealed.

that of Merchant Adventurers of London Ltd. Here is a fine display of well designed fittings, worth any architect's time to visit.

Glass: Although the advent of a British-made sealed double-glazed window unit is undoubtedly a great event, it is perhaps unfortunate from a sales point of view that it is no more arresting in appearance than any normal single-glazed window. Few, therefore, will probably appreciate why there should be any particular credit due to a manufacturer for producing such a very obvious article. But glass is no ordinary material and defeats most of the simple techniques normally em-



The Ventiblock glass brick. Left, section through the block.

played when a composite unit of this type is made up.

It must, therefore, be pointed out that to assemble two panes of glass—accurately distance them and bond them to a spacer, and pump dry air into the space through holes which are finally sealed by soldered grub-screws—is an exacting operation and one which has taken years of experiment to perfect. This is what Pilkington Bros. Ltd. have done in their Insulight double-glazing unit now on view. Sizes up to 80-in. by 80-in. are available—and treble and quadruple glazing units are also manufactured for special cases such as refrigerator show cases and thermally controlled laboratories.

The same unit is to be seen in the shop-front on the stand of James Clark and Eaton, where its structure is more clearly displayed by cutting the window right through, giving the effect of a vertical section. Insulight double-glazing is, of course, rather expensive at present. Pilkington's., by the way, show the use of Armourplate glass for a stair balustrade—not a new idea but quite interesting in these days of timber shortage. On the James Clark and Eaton stand is an all-glass ventilation block for use in Insulight hollow glass block construction. Previously a rather clumsy louvre type was the only ventilation block available. This pressed glass unit, called the Ventiblock, is so simple in form and is so ingeniously related to the pattern of the standard blocks, that it causes practically no interruption in the rhythm of the walling.

From an architect's point of view, perhaps, one of the most interesting features connected with glass, although in itself not of glass, is a new and very neat metal louvre installation to be seen on the stand of G. Johnson Bros. Ltd. In addition to the recognized advantages of louvre ventilation, it provides a considerable degree of protection since it cannot be moved from the outside—being positively locked by the mechanism. Great freedom of application is obtainable since the metal work at either end of the louvre is connected only by the glass louvres. The installation can consequently be fixed most simply to any existing frame with no more difficulty than having glass supplied to the required length. The louvres can be opened to give 100 per cent. ventilation and in the closed position fit snugly together—the pressed metal weather strip closing up to the reveals at either side. A further point in favour of louvre windows is the ease with which the glass can be cleaned from the inside. Such windows would be particularly suited to nurseries, bathrooms, schools and hospitals.

As a stand constructed mainly with glass, that of Williams and Williams Ltd is particularly effective. Some interesting refinements in window design are noticeable, one being a special section draught excluder incorporated in the outside edge of an aluminium sash window frame. The rubber strip projects slightly beyond the overall size of the frame and consequently makes pressure contact with the cill and reveals when closed.

It is interesting to see on this stand, glass used as a medium for the display of a large range of metal window sections. These have been deeply sand-blasted to scale on a large panel of polished plate glass, and the whole forms a pleasantly decorative screen to the interior of the stand, besides showing the sections available.

Materials, Insulation and Miscellaneous:

The detailed charts showing the Ministry of Works costing systems, although apparently complicated and rather difficult to read in the particular display method used, are worth detailed study, especially for builders and architects concerned with direct work contracts. The programming charts should certainly be of interest to architects and emphasize the importance of early collaboration between architect and contractor, which can never be properly obtained under the normal method of tendering whereby the architect does not meet the builder during the planning stage.

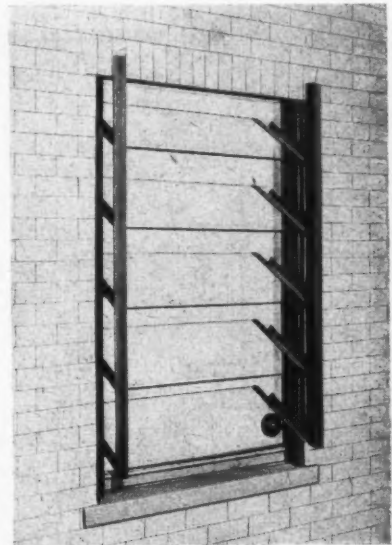
Congratulations to DSIR for a better designed stand than usual. The general aim has been to show the results of the past years of research in order to get them across to the builder and the architect rather than to show startling new developments. Items particularly worth study are:—

(1) An exhibition of plastering on wall boards, which shows some of the common faults and the effects of using different types of plasters, such as those with high or low setting expansion on top of fibre-boards.

(2) Thermal insulation of fairly ordinary types applicable to housing, though not exhibiting anything new, is a useful reminder of recent tendencies.

(3) A point of particular interest to architects is the exhibit of short bored pile foundations which are beginning to be used in this country now, and which are backed by useful figures of economies arising. In one school 75 per cent. labour time saving is claimed.

Several useful films are being shown, in-



The Johnson louvred window.

cluding illustrations of foamed slag concrete, block laying and building on clay foundations.

One of the firms claiming new ways of heat insulation are MetaMica Ltd. For roof screeds this material should be useful, and claims are made for its value as a sound absorbent in plaster.

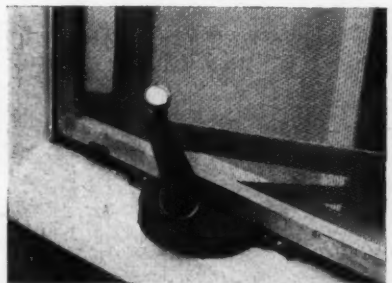
The Fibre Building Board Agents' Association Ltd. show an interesting use of large-scale super hardboards for the floor of their stand, though one suspects that it might become very slippery. It is a pity that some use is not made of differing textures and colours as a design possibility.

The Silence Room on Fibreglass Ltd.'s stand exhibiting perforated absorbent wall panels is worth seeing. It includes noise models to demonstrate the efficiency of floating floors.

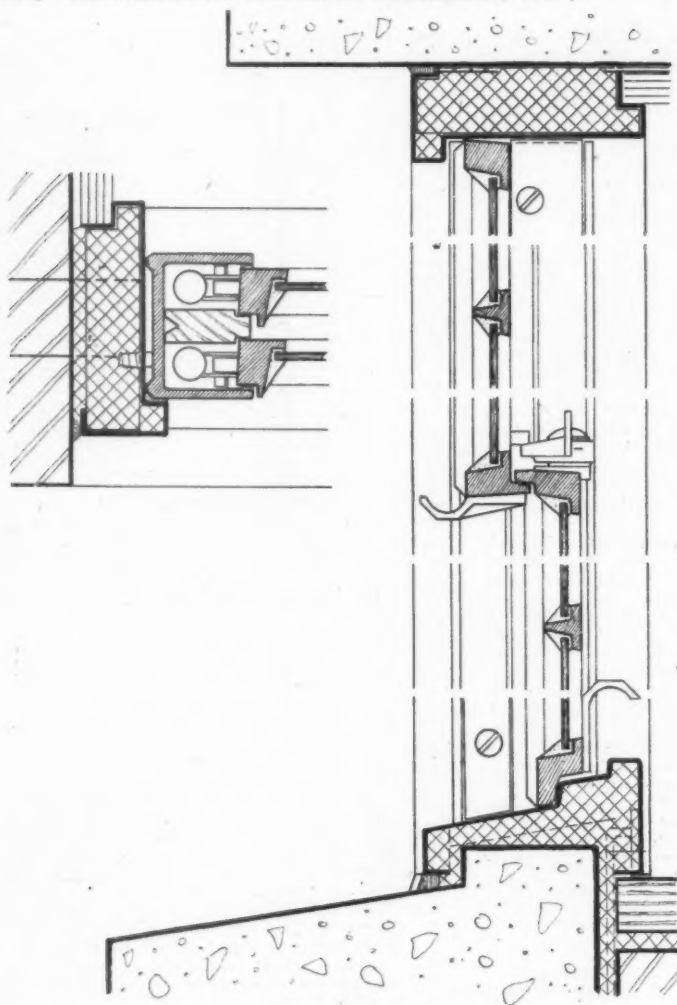
Gyproc Products Ltd. get high marks for a stand which is designed as a showcase for them rather than as an exercise in design. They get a bonus for showing how the materials are fixed and for having excellent literature giving technical data. This is just what the architect wants.

Sealocrete Products Ltd. are showing materials for the laying of cork flooring for light duty purposes which, it is claimed, can be put on to wet concrete without any danger of its lifting.

W. H. Colt (London) Ltd. show neatly-designed air bricks and ventilators, and a roof ventilator with thermostatic control, which should be useful in these days of heating economy.



Bronze geared fitting on a Crittall window with screen suitable for the tropics or for larders. The fitting allows the window to be opened without disturbing the screen.



Section through the Crittall aluminium alloy sash window with spring balances.

The Armstrong Cork Co. Ltd. show an asphalt flooring tile, in grey which is reasonably attractive and does not mark easily.

Wm. Briggs and Sons' bituminous mastic roofing uses aluminium trough sections covered with bitumen-bonded insulation board and this built-up roofing, will obviously

give good roof insulation values. Spans up to 10-ft. are practicable and the all-in price for structural roof insulation and covering seems to be sufficiently competitive to be worth considering as one of the speedy forms of construction satisfying functional requirements. Briggs also show their bitumen sheeting for weather-proofing basements.

Roberts, Adlard and Co. show standard aluminium roof trusses of 22-ft. and 25-ft. span with cavity decking built up from asbestos-cement sheet units. A number of school buildings for the MCC are using this type of construction. These cavity-type roofs have the advantages of good heat insulation and rigidity.

Apart from their usual wide range of well-known products, Expanded Metal Co. Ltd. are showing expanded aluminium, which should be attractive to architects for various decorative grille purposes, and they have an extremely neat expanded metal formwork for constructing bolt holes for foundations to machinery and the like. They also show expanded metal strip used in place of lintols, not a new idea but one which may get architects out of some of their difficulties, as it obviates the rather ugly arrangement of a supporting angle.

The C. F. Anderson and Sons Ltd. stand is of interest because it shows a comprehensive display of building boards, including some of the plastic types such as Formica. It also has some useful illustrations of jointing methods, and examples of decorated hardboard.

The Stramit Board Ltd.'s stand is worth

a note on account of the ready-to-fit boxes for insulating water tanks which the LCC is using on its new housing estates. The boxes are despatched in sections which can be easily and quickly erected on site. The insulating value is said to be equivalent to an 11-in. cavity wall.

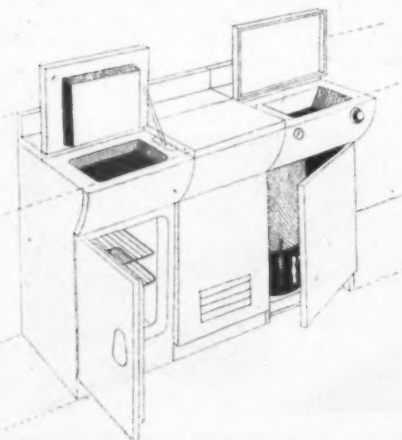
Tentest have a very interesting secret drying device for fibreboards used on ceilings. Its great merit is that the board is fixed on all four edges and has plenty of other support to avoid sagging.

Silexine Paints Ltd. seem to have the answer to the problem of painting on brick work, new plaster or asbestos cement. They are exhibiting their Stove Paint and Plaster Emulsion. The latter is produced in various pastel shades with a matt surface and having no oil, is suitable for jobs where oil paint would be badly affected. The makers recommend it for external use—as a substitute, for instance, for lime wash or cement paint.

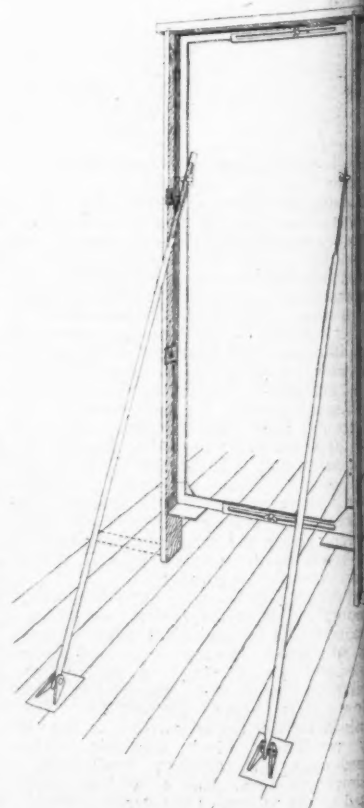
There are at least two items worth looking at on the ICI stand. The first is the patent interlocking aluminium alloy clap boarding. The second is the Alkathene plastic piping. This is comparatively new, but is now accepted by many water companies. It is used generally for water pipes, for land drainage or to take corrosive fluids.

An ingenious new device called a Multi-purpose Frame Brace is to be seen on W. Piper's stand in the gallery. It is an adjustable steel frame which fits all standard door openings and is used during building operations to build in wood linings for doors or openings in brick, breeze or hollow blocks. Its chief object is to save carpenters' time. The maker says that up to £1 per door is saved by using his brace.

And thank you, Messrs. Acrow, for allowing us to take one of those large, free envelopes in which to thrust our slithering pile of leaflets.



The CSA Industries' English Rose dual freeze and boiler kitchen fitments. On the left is the normal refrigerator and in the centre the deep freeze. The designs are "styled."



W. Piper's Door Frame Brace.

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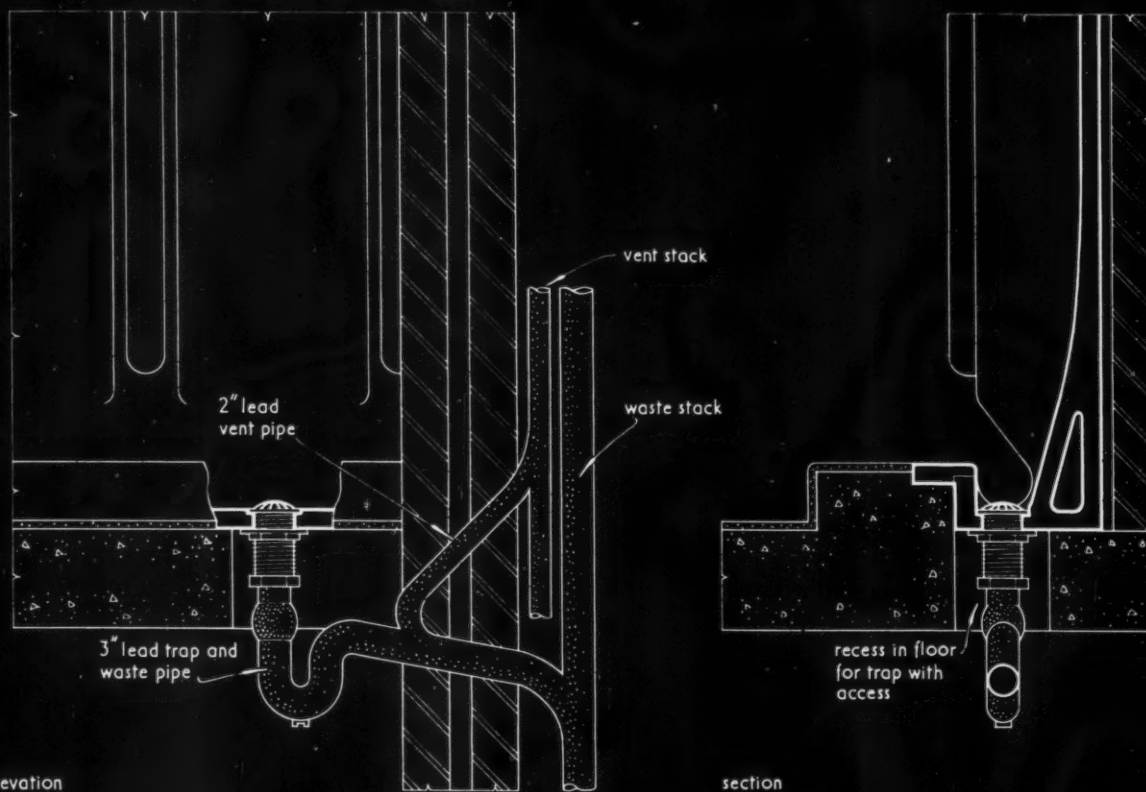
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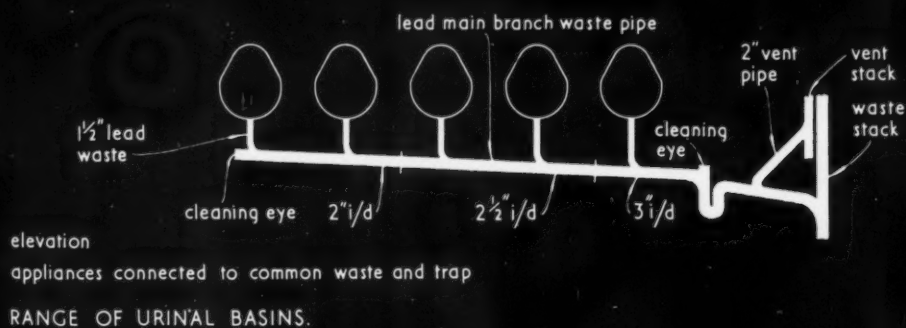
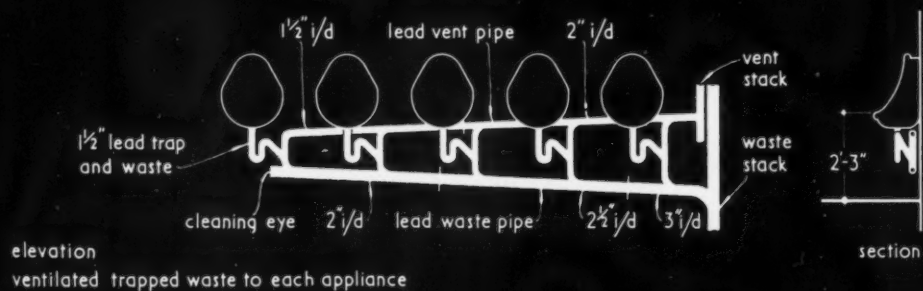
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RANGE OF URINAL STALLS.



33.C9 LEAD PLUMBING TO URINALS

This Sheet sets out the general principles of lead plumbing to urinals. For the best type of installation the appliances commonly used are separate urinal stalls or urinal basins, built in a range of two or more appliances. The ranges are usually sited along a wall but groups arranged as an "island" are also used.

Urinal Stalls

Urinal stalls are designed so that the discharge from each stall is collected in an open channel at the foot. One outlet to the channel is provided for each range of up to six stalls with extra outlets for larger ranges. The waste pipe from the outlet is trapped immediately beneath the appliance and a trap ventilating pipe fitted if required.

Pipe sizes: The sizes of waste and waste ventilating pipes should be as follows:—

No. of stalls in range	Waste pipe		Trap ventilating pipe	
	int. dia. (in.)	wt. (lb./yd.)	int. dia. (in.)	wt. (lb./yd.)
1 or 2	2	12	1½	9
3 or 4	2½	14.4	2	12
5 or 6	3	17	2	12

(The weights of lead pipe recommended are as given in B.S. 602 : 1949—Lead Pipe)

Installation

Ground floors: Since urinal stalls are built in, it is normal and convenient where the range is on a ground floor, to include in this operation the building in of a drain and drain connections of stoneware or glass enamelled iron.

Upper floors: Where the range of stalls is on an upper floor the traps and branch waste pipes are most satisfactorily formed in lead pipe which is highly resistant to the very corrosive effluent carried. Adequate access to the trap and branch pipe for inspection and clearing is necessary.

Water seal of traps: The depth of seal for the trap of a urinal waste should be 1½ in. where the waste is connected to a soil pipe of a two-pipe installation, but 3 in. where it is connected to a combined soil and waste pipe of a one-pipe installation.

Fall of waste pipe: A suitable fall is ¼ in. to ½ in. in 1 ft. and similarly a suitable rise for trap ventilating pipes is ¼ in. to ½ in. in 1 ft.

Urinal Basins

The plumbing to urinal basins, each of which has a separate outlet, is similar in principle to that for lavatory basins (see Sheet 33.C1). Suitable sizes of waste pipes are as given above for urinal stalls except that a waste pipe serving one urinal basin need be only 1½ in. i/d (7 lb. per yd.) to correspond to the size of the outlet on the appliance.

Separate trap to each basin: As with lavatory basins the usual requirement is that the waste from each urinal basin be trapped immediately beneath the appliance. A common waste pipe serves the range of appliances and each trap is ventilated and connected to the open air by a common vent pipe.

Common trap to all basins: Another arrangement is to connect the waste branch pipe from each appliance, without a trap, direct to a common waste branch pipe which is itself trapped before it connects to a main pipe. If the length of the untrapped pipe is not excessive and in view of the fact that the appliances and pipes are flushed automatically at regular intervals, this arrangement may be accepted by some authorities.

Further Information

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

Compiled from information supplied by:

The Lead Industries Development Council.

Address: Eagle House, Jermyn Street, London, S.W.1.

Telephone: Whitehall 7264.

DRAUGHTSMANSHIP | PERSPECTIVE**I.B 33**

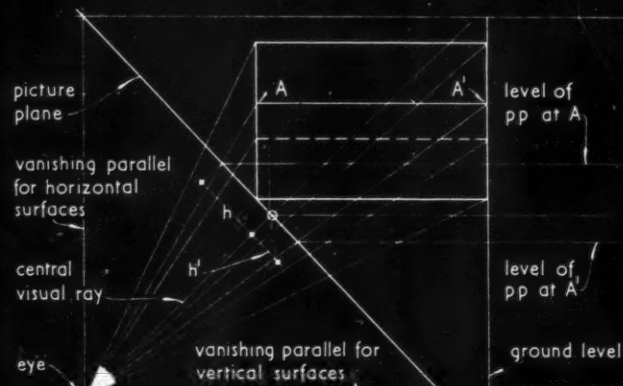
The Architects' Journal Library of Information Sheets 226. Editor: Cotterell Butler, A.R.I.B.A.

angle of vision

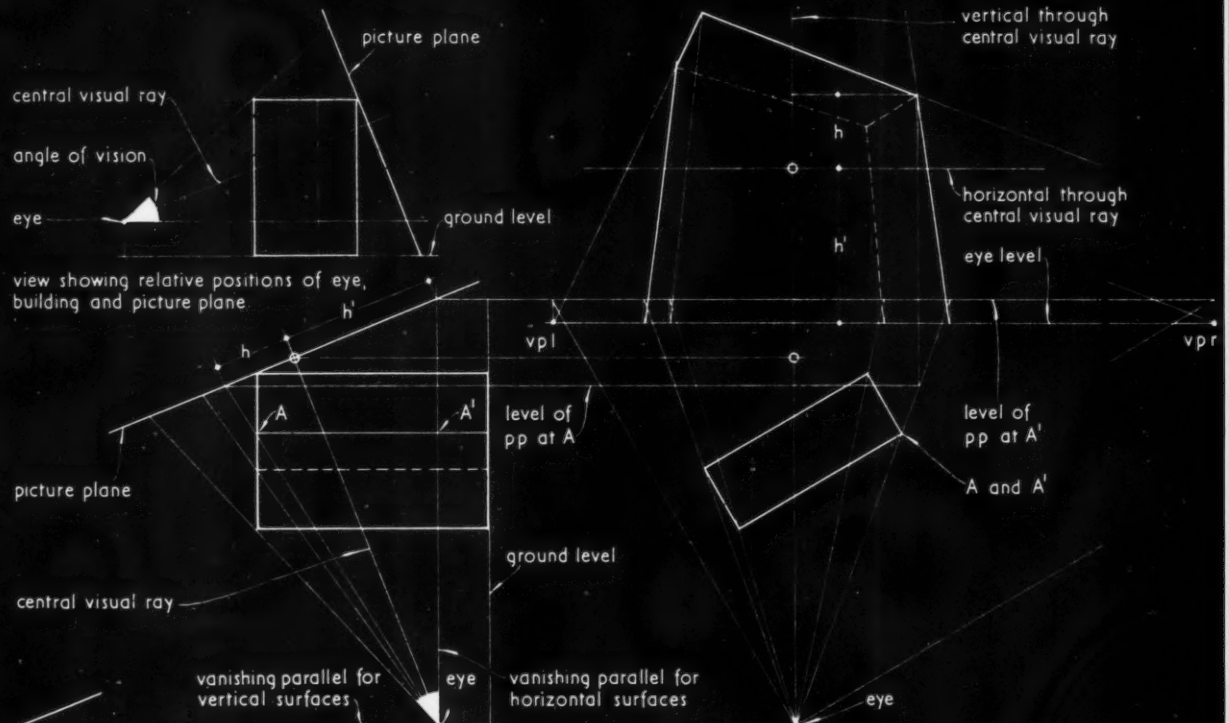
eye

central
visual ray

picture plane

view showing relative positions of eye,
building and picture plane

EYE LEVEL ABOVE BUILDING (BIRD'S-EYE VIEW).



EYE LEVEL IN NORMAL POSITION (APPROX. 5'-6" ABOVE GROUND LEVEL).

PERSPECTIVE DRAWING: INCLINED PICTURE PLANE.

Compiled by Leslie A. Lee, L.I.O.B., and H. N. Hoskings, A.R.I.B.A., for Eagle Pencil Company - Chemi-Sealed Turquoise pencils.

1.B33 PERSPECTIVE DRAWING : INCLINED PICTURE PLANE

This Sheet, one of the series on draughtsmanship, describes a method of construction for a perspective drawing using an inclined picture plane. Two examples are illustrated, the first where the eye level is above the building and the second where the eye level is in the normal position. The construction for both examples is the same. The angle of vision in the lower example has been selected so that only the upper part of the building is shown.

The construction described is similar in principle to that used for a "no vanishing point" perspective (see Sheet 1.B35). Vanishing points may be easily found, however, if required.

Application

Inclined picture planes are used when a fairly close view of a high building is required. If the normal vertical picture plane is used when drawing a perspective of a high building it is difficult to restrict the vertical angle of vision to 45° and consequently distortion occurs. Alternatively, if the angle of vision is limited to 45° a very distant view has to be taken resulting in a flat and dull perspective drawing.

Method of Construction

Plan and true elevation : The plan is drawn and the eye position in relation to it is chosen. The direct line of vision is found and a true elevation made parallel to it. The eye position in relation to this elevation of the building is then marked, so that the vertical angle of vision is not more than 45° . The direct line of vision or central visual ray is now drawn on the elevation and the picture plane made perpendicular to it. The central visual ray on the plan is produced upwards and at a convenient distance from the plan a horizontal line is drawn across it. The point of intersection of these lines represents the central visual ray in the perspective drawing.

Perspective drawing : The position of any point on the perspective is found by relating its location to the left or right of a vertical line passing through the central visual ray and its location above or below a horizontal line passing through the central visual ray.

On the true elevation lines are drawn from the salient points of the building to the eye to cut the picture plane. The intersection of any of these lines with the picture plane gives the height in perspective above or below the central visual ray of the point from which the line is drawn.

On the plan lines are drawn from the eye to the salient points of the building. The position of the picture plane cannot be shown by a single line since it is an inclined plane and the intersection with it of lines drawn from the eye to the building will be at varying

levels, but the level of intersection of any one of these lines may be plotted individually by reference to the true elevation.

Example : Taking point A on the building, on the elevation a line is drawn from it to the eye to cut the picture plane. The height (h) of this intersection above the central visual ray is marked on the perspective. From the point found on the picture plane in elevation a line is projected across to the plan giving the level on plan of the picture plane where it is intersected by the line drawn from point A to the eye. Where this line cuts that which is drawn from point A to the eye on plan is the perspective distance of point A to the right of the central visual ray. This distance is projected up to cut the horizontal line already drawn on the perspective thus locating the position of point A on the perspective drawing. The same procedure is adopted for point A¹ and for all other points on the building.

Vanishing Points for Horizontal Lines

The two vanishing points for horizontal lines may be plotted to facilitate drawing by taking a vanishing parallel from the eye in true elevation to cut the picture plane, marking this level of intersection on plan and drawing vanishing parallels to the sides of the plan from the eye to cut this position of the picture plane. These two points are then projected to the eye level line which is marked off at its height above the central visual ray which may be obtained from the true elevation.

Vanishing Point for Vertical Lines

The vanishing point for vertical lines is found from the true elevation by drawing a vanishing parallel to the sides of the building from the eye to cut the picture plane. The distance of this intersection below the central visual ray is marked on the perspective giving the required vanishing point.

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

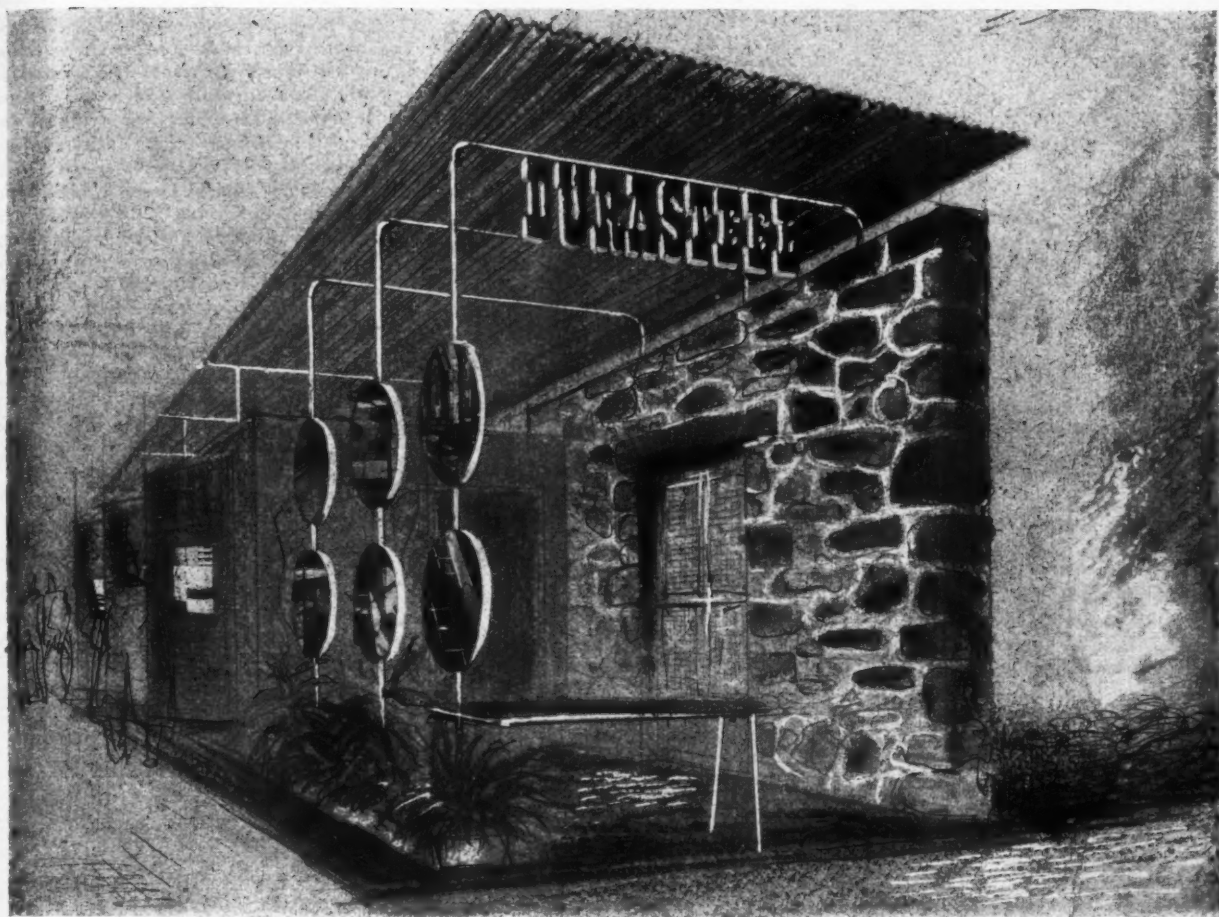
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Eagle Pencil Company.

Address : Ashley Road, Tottenham, London, N.17.
Telephone : Tottenham 4435-6-7.
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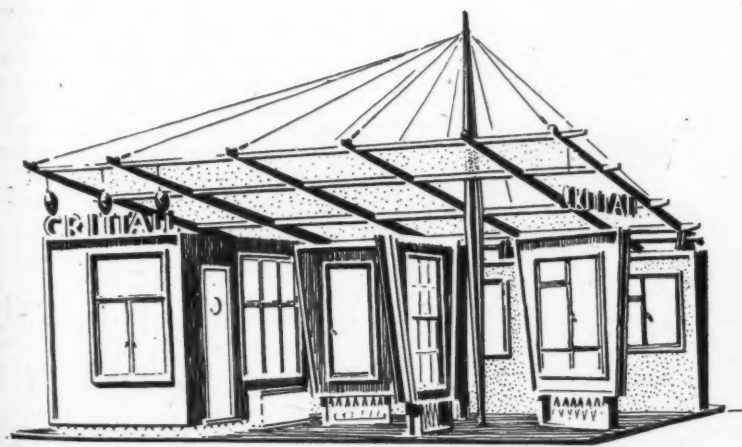
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S T A N D S

AT THE BUILDING EXHIBITION

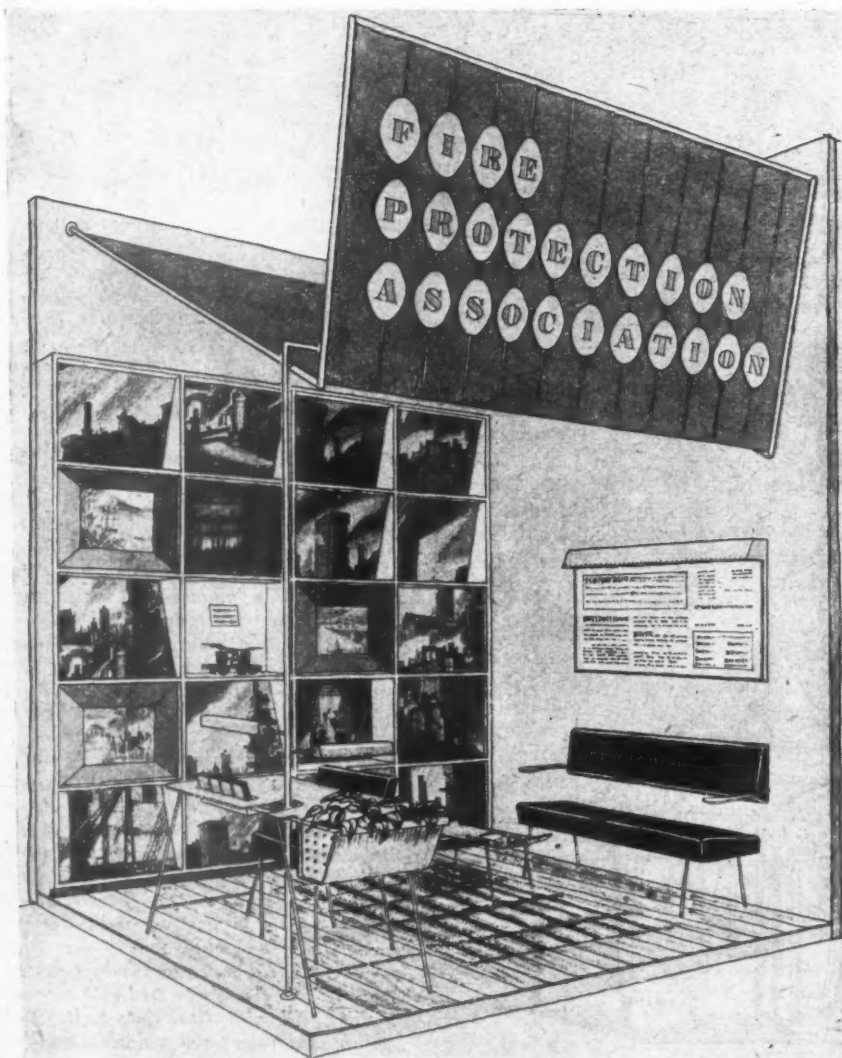
Above, the stand designed by John Lansdell for Durasteel, Ltd. The wall is of rustic bricks, and the aluminium painted fireproof doors have a surround of Staffordshire blue bricks. The metal sheets on the stand have aluminium, bronze and green metallic and copper-faced finishes. The roofing is a natural grey in colour, with the word Durasteel in red. The counter is a copper-faced Durasteel sheet.



Left, the stand designed for the Crittall Manufacturing Company by F. Rogerson. The joists, steelwork, frames and doors are in red-brown. The back wall of the stand has frames painted red-brown inside and grey-green on the outside. The mast is red-brown and the five panels which radiate from this mast are painted grey-green, grey, grey-blue, pale orange and yellow, with red-brown and ivory coloured frames. The floor is covered with coconut matting with white lines sewn to it. The ceiling is of white wood and white muslin.



This stand was designed by A. F. Hare and Partners for Messrs. Structural and Mechanical Development Engineers, Ltd. The main feature of the stand is a transportable house, one end of which is built of aluminium alloy Alframe panels, painted pale grey, the other end consisting of Alcrete concrete panels. The eaves and gutters are yellow, with touches of red. In the front of the stand is an octagon with photo transparencies lit from inside; the base is navy blue and the balustrade is in natural wood with yellow uprights. The canopy is sky blue. The letters SMD are Venetian red. Other colours used are navy blue, Venetian red, dove-grey, and pale yellow.

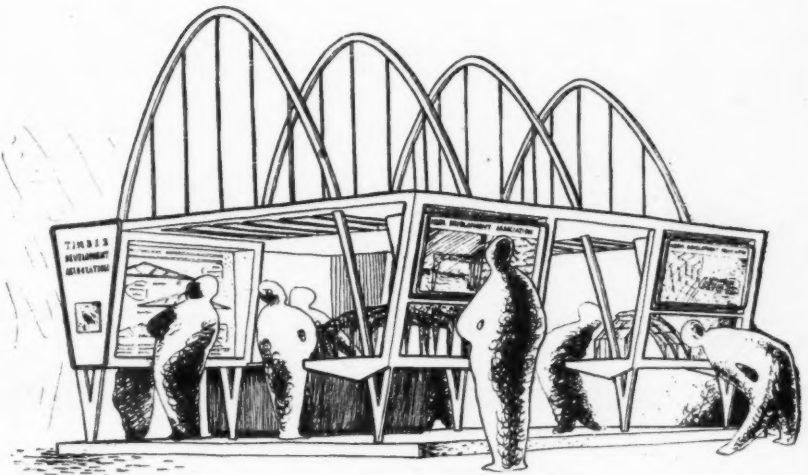


The main frame of the stand designed by Kenneth Bayes, of the Design Research Unit, for the Fire Protection Association, is of 1½-in. metal tubing which supports a red canvas canopy. On this canvas are sewn ¾-in. ropes at 7½-in. centres which support the title of the stand in brass-faced cut-out letters on brass-edged plywood plaques. The rear of the stand is divided into recesses by 7-in. × 1-in. vertical and 2-in. × 1-in. horizontal pine strips. These recesses are used for the display of models, photographs and photo transparencies mounted on painted plywood surrounds. Also in these recesses are constructed a store cupboard and a coat cupboard, the doors of which are concealed by photographs. The side wall of the stand is a 3-in. stud partition faced on both sides. The floor is sand blasted pine with a sprayed cellulose finish.

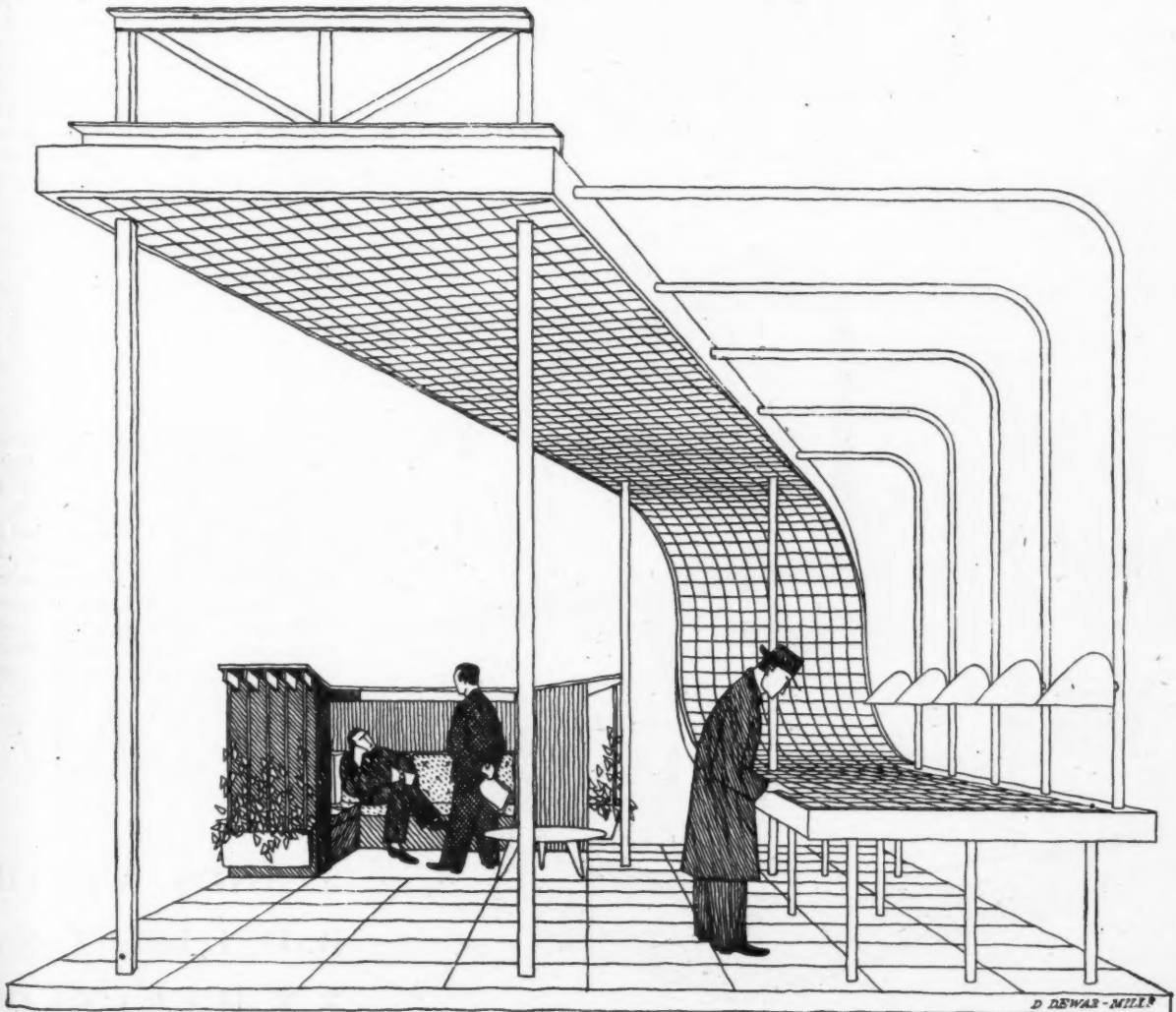
STANDS AT THE
BUILDING
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The stand for the Timber Development Association, Ltd., designed by R. T. Walters, has arches of natural Douglas fir, with a waxed finish. The hangers are of Ravli wood, while the floor is of Australian Tallow wood, with a golden brown finish. The cantilevered model tables and the top of the enquiry counter are in sycamore with surrounds of African mahogany. The inside of the enquiry space is papered with pale-grey and white striped wallpaper, and also has vertical strips of Mansonia, a West African hardwood. The triangular section, seen on the left of the perspective view, is in European walnut veneer with white lettering. The rest of the stand for the most part, is dead white.

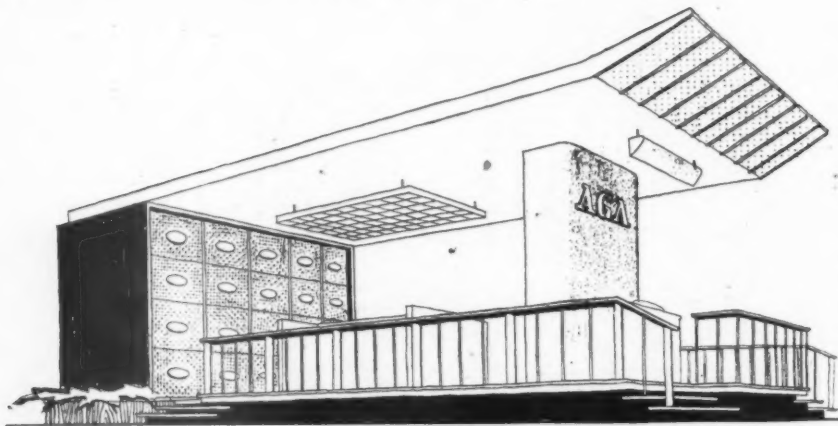


The stand designed by John Lacy for Messrs. Carter & Co., Ltd. Buff tiles only are used in order to concentrate attention on the textures of the materials used. The various surfaces of the tiles are shown plain, morocco faced, ribbed, grooved and pinhead. The only colours used in addition to buff are on lettered tiles fixed to the office partition. The name "Carter Tiles" is in tube-line tiles of a dark green colour with off-white lettering. Contrasting with the buff colour of the tile exhibit are the colours of the supports to the stand, the fascia boards to the sides of the platform, the office corner and the floor. The flooring is of precast terrazzo blocks with circles of dark green and black, mixed, laid centrally in squares of light sea-green or warm yellow. The floor of the office corner is covered with asphaltic tiles.



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This stand, designed by Arthur C. Braven, of Messrs. Aga Heating, Ltd., is raised on a platform to ensure that the cookers displayed are seen at eye level from the main gangways. The floor of the stand is of terra-cotta coloured linoleum, while the ceiling is of primrose coloured muslin. The office, which is at the back of the stand, has red flock side walls. The wall that faces on to the stand is of varnished mahogany-faced ply with vertical light hardwood beads. Behind the wall at the front of the stand, which bears the name Aga and is of red flock with a thin white surround, is a display unit which houses a cooker and closed-fire boilers. The side walls of this are of mahogany ply. A low-level unit in the centre of the stand, between the office and the main display, is of mahogany ply with painted cooker recesses. The handrail and platform is partly mahogany and partly painted white. Stair treads are mahogany. Lighting is by means of an eggcrate fitment, spots and trough fitments.

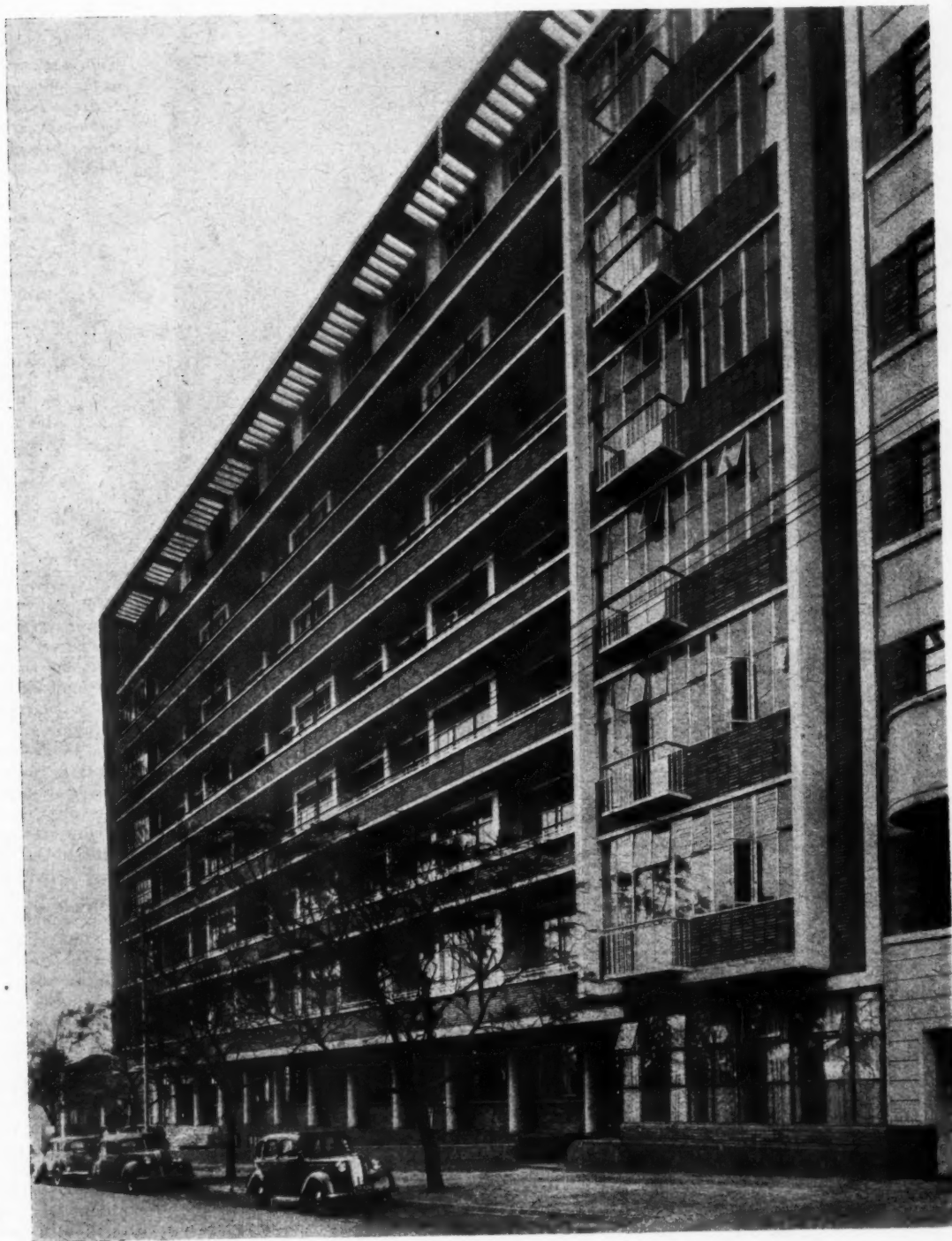


One side of the stand for John Thompson Beacon Windows, Ltd., designed by Dr. C. L. Frank, is a continuous run of aluminium double-hung sashes, fitted into a pressed steel surround. Above these windows, on the outside of the stand, is a mural showing Montreal University, which is fitted with Beacon windows. On the opposite side of the stand is a large purpose-made factory window. Also shown on the stand are purpose-made glazed screening and doors to illustrate the steel pressings made by the firm.



This stand was designed by Robert Gutmann, of the Design Research Unit for Lewis Berger & Sons, Ltd. The total area of the stand is 20 ft. by 20 ft., and the height is 16 ft. The colours used show the Berger colour range in flat paints and enamels. The lettering is in white and red against a dark grey background. Mechanically rotated panels carry letters which spell "Berger" and "Paints" alternately. The metal structure is painted white throughout.

STANDS AT THE
BUILDING
EXHIBITION



From the south-east.

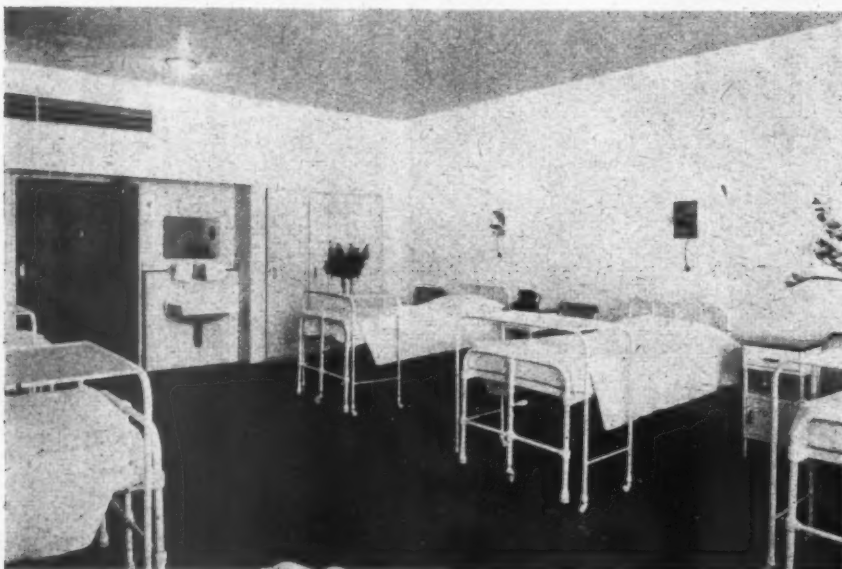
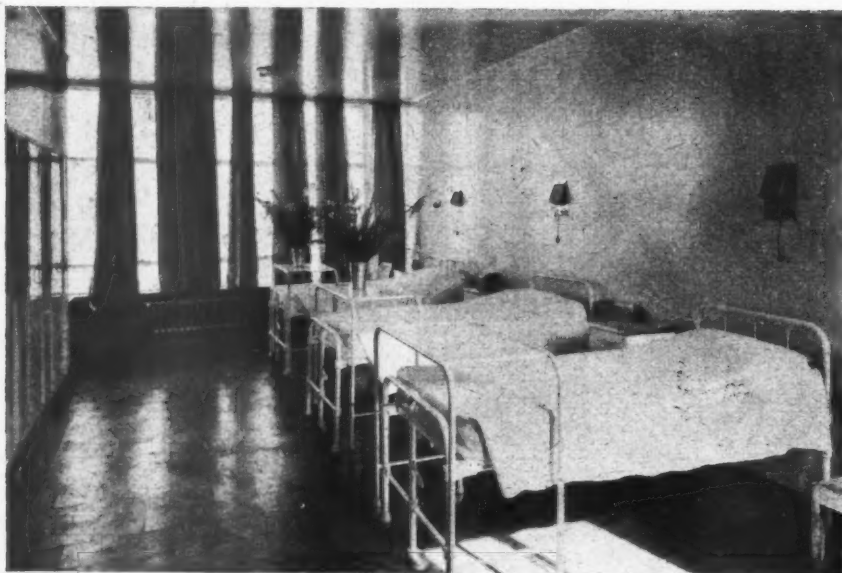
MATERNITY HOME

AT JOHANNESBURG

BY STEGMANN,
ORPEN & PORTER

GENERAL.—The maternity home is on a site 150 ft. by 100 ft. in Hillbrow, Johannesburg, and provides accommodation for 150 patients, in single, two-bed, four-bed and six-bed wards, together

with the necessary ancillary rooms. The general nursing staff do not live on the premises, and no sleeping accommodation is provided for the staff other than a flat for the matron.



Top, a typical four-bed ward located at the south-west corner of each floor; centre, a typical six-bed ward at the south-east corner of the main south wing; bottom, the main operating theatre.

KEY (see opposite page)

GROUND FLOOR

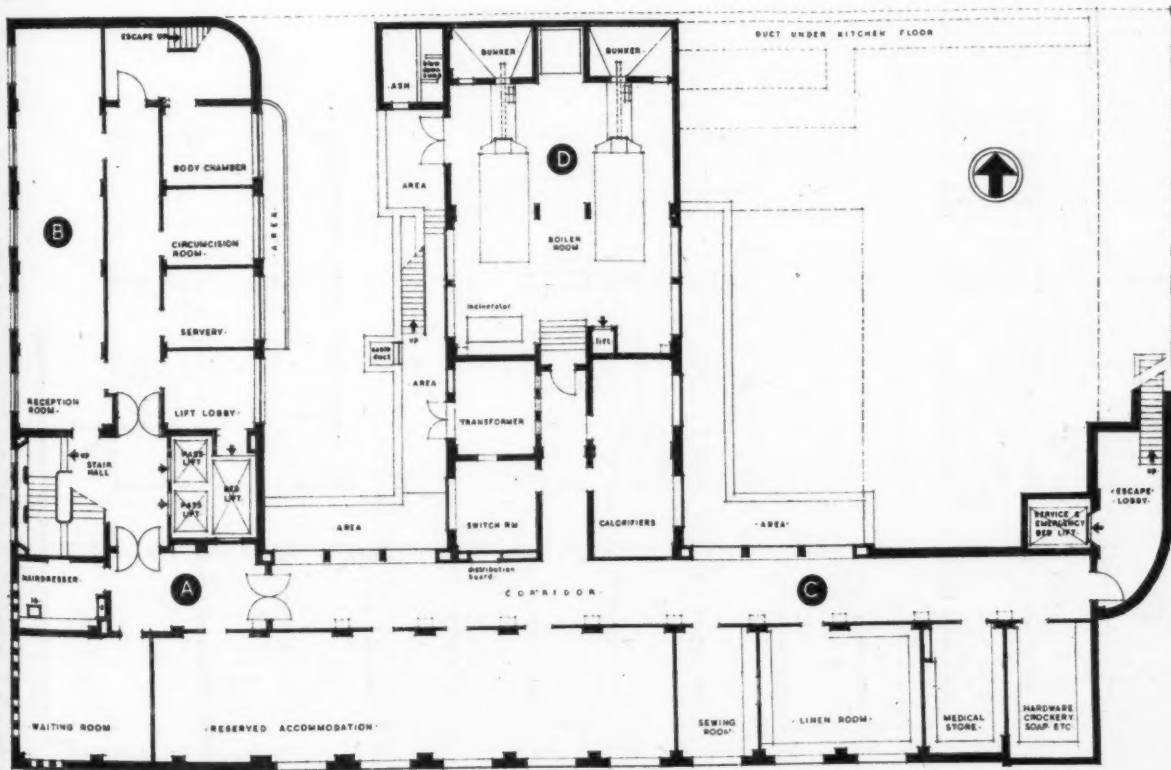
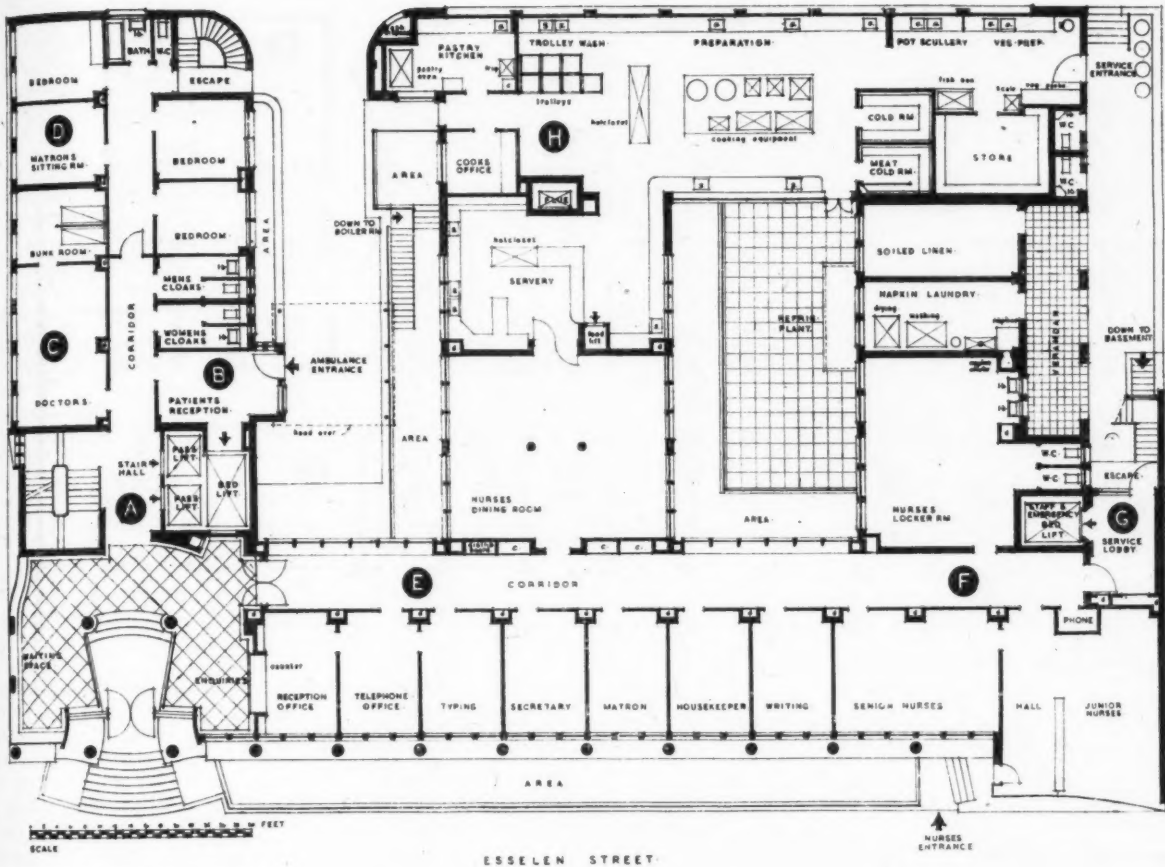
- A. Lifts and main staircase.
- B. Reception room for patients.
- C. Visiting doctors' room.
- D. Placron's flat.
- E. Administration offices.
- F. Nurses entrance.
- G. Staff and service lifts.
- H. Main kitchen and ancillary rooms.

LOWER GROUND FLOOR

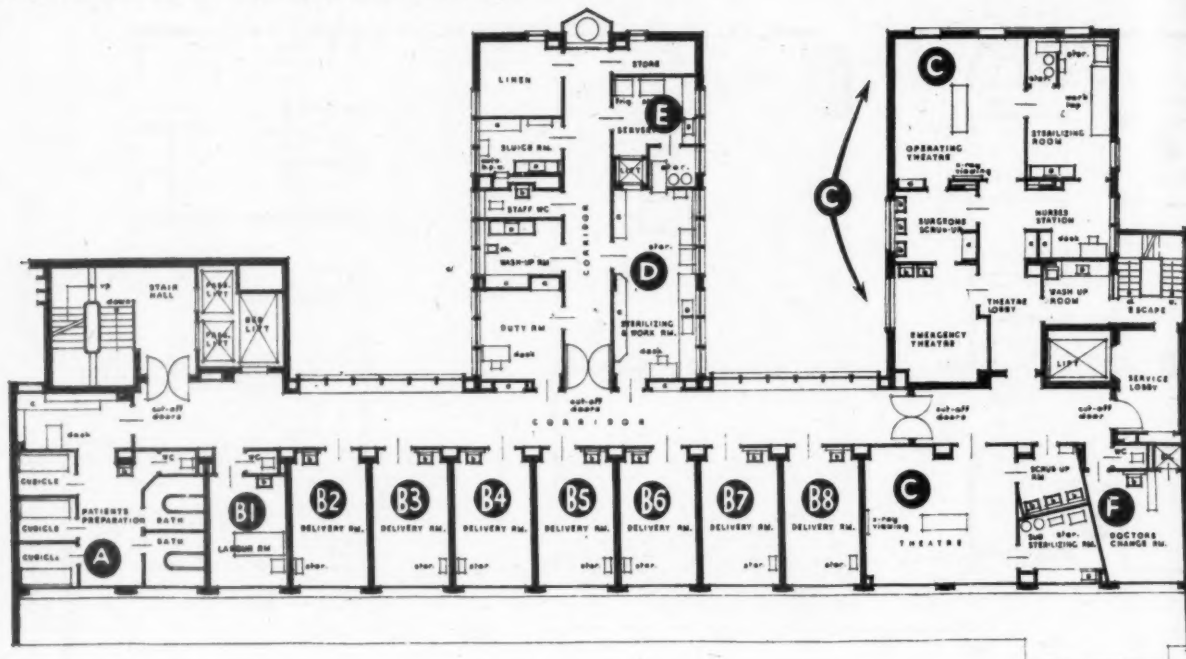
- A. Lifts and entrance foyer.
- B. Reception room for patients.
- C. Stores.
- D. Boiler and heating equipment.

PLAN.—The main entrance is at the west corner and a secondary nurses entrance, at the east corner, leads directly to the nurses locker rooms and the staff lift. The patients and ambulance entrance is from a courtyard in the rear of the building. From this entrance there is access to the patients' reception room or, alternatively, to the patients' preparation room or one of the wards. It is possible to enter these rooms without having to use the general administrative corridor, public entrance foyer or lift lobby. The planning allows separate circulation by lifts for visitors and doctors, patients, and staff and services. With the exception of the isolation unit, on the first floor, all wards have been placed on the 150-ft. south frontage and sub-divided into six floors of twenty-four beds each. Each ward floor has eight single wards, three double wards, one four-bed and one six-bed ward. Each patient is in touch with the service block by means of a call system. Each floor is a completely self-contained unit with its own ancillary rooms and nurseries, served by a well-lit and ventilated corridor. The nursery units, on each ward floor, have a special examination room for doctors and a viewing window is provided adjacent to the ward corridor, where the babies may be seen by visitors. The wards are cut off from the nurseries, the service wing and lift foyers by lobbies designed to eliminate noise. These have self-closing doors. Ancillary rooms are planned in a centrally placed unit for ease of ser-

M A T E R N I T Y



HOME BY STEGMANN, ORPEN AND PORTER



SEVENTH FLOOR PLAN

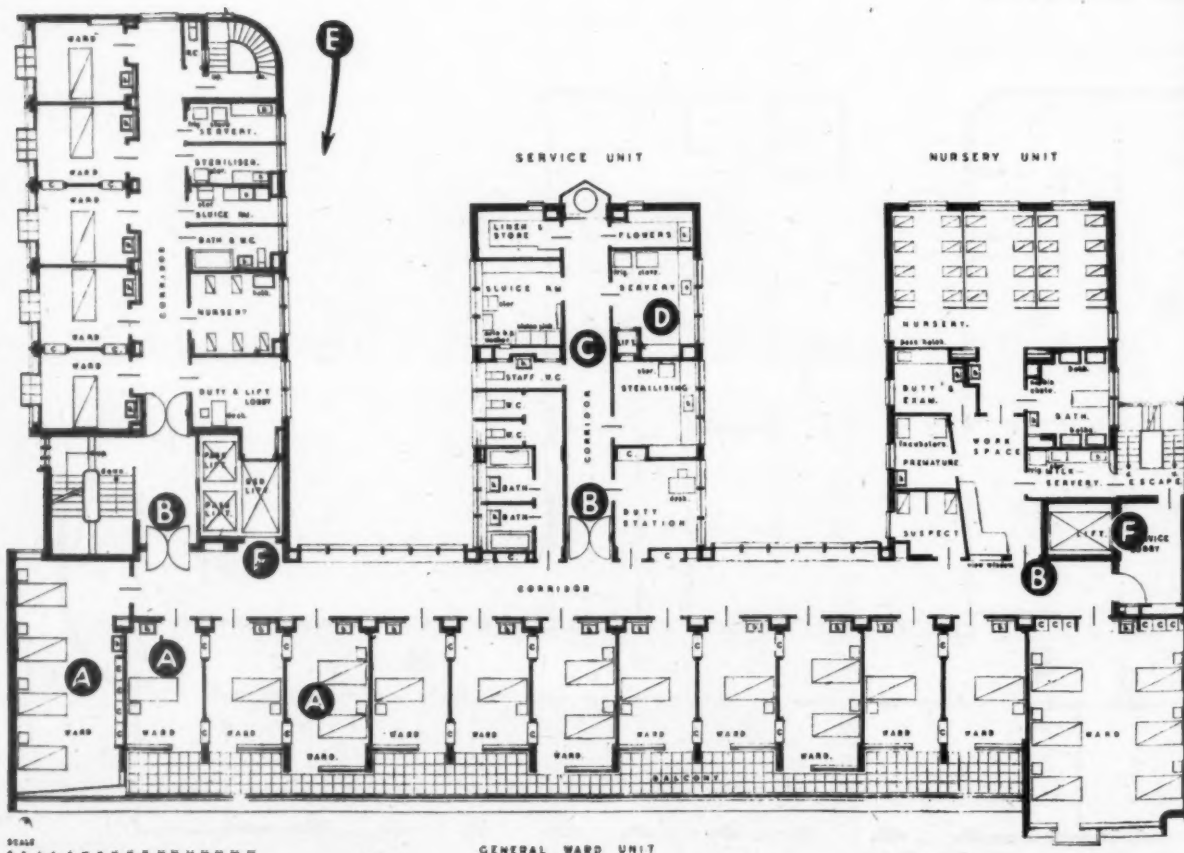
KEY

FIRST TO SIXTH FLOOR

- A. Wards.
- B. Lobbies.
- C. Ancillary rooms.
- D. Food services.
- E. Isolation wing.
- F. Lifts for stretchers.

SEVENTH FLOOR

- A. Patients' preparation room.
- B. Seven delivery and one labour room.
- C. Operating theatres.
- D. Sterilizing rooms.
- E. Kitchen.
- F. Doctors' room.



FIRST TO SIXTH FLOOR PLANS

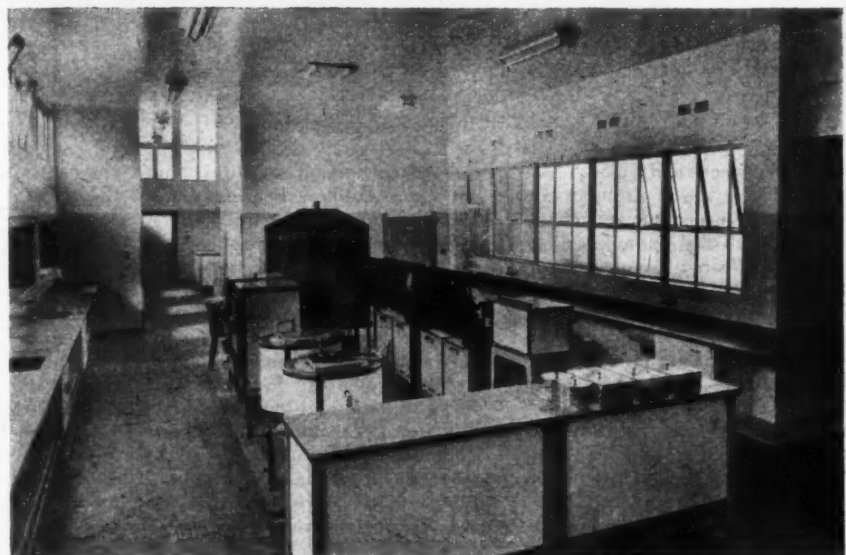
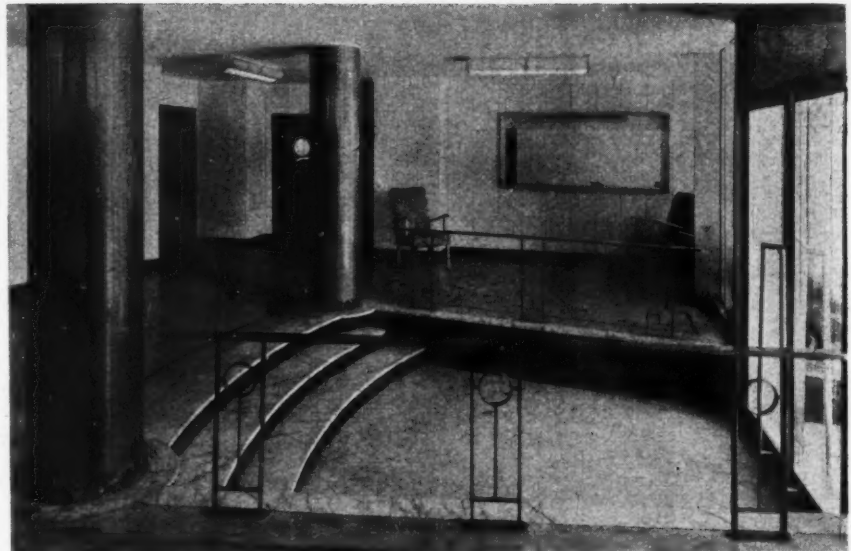
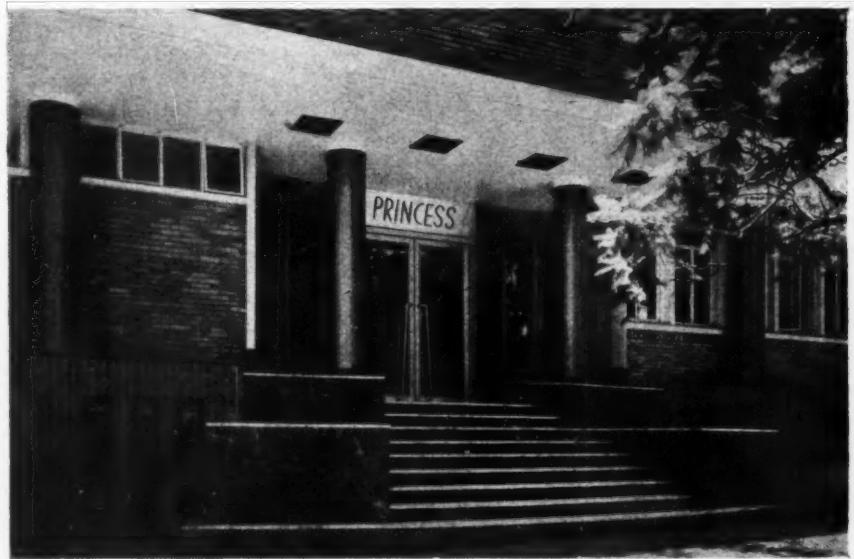
MATERNITY HOME AT JOHANNESBURG

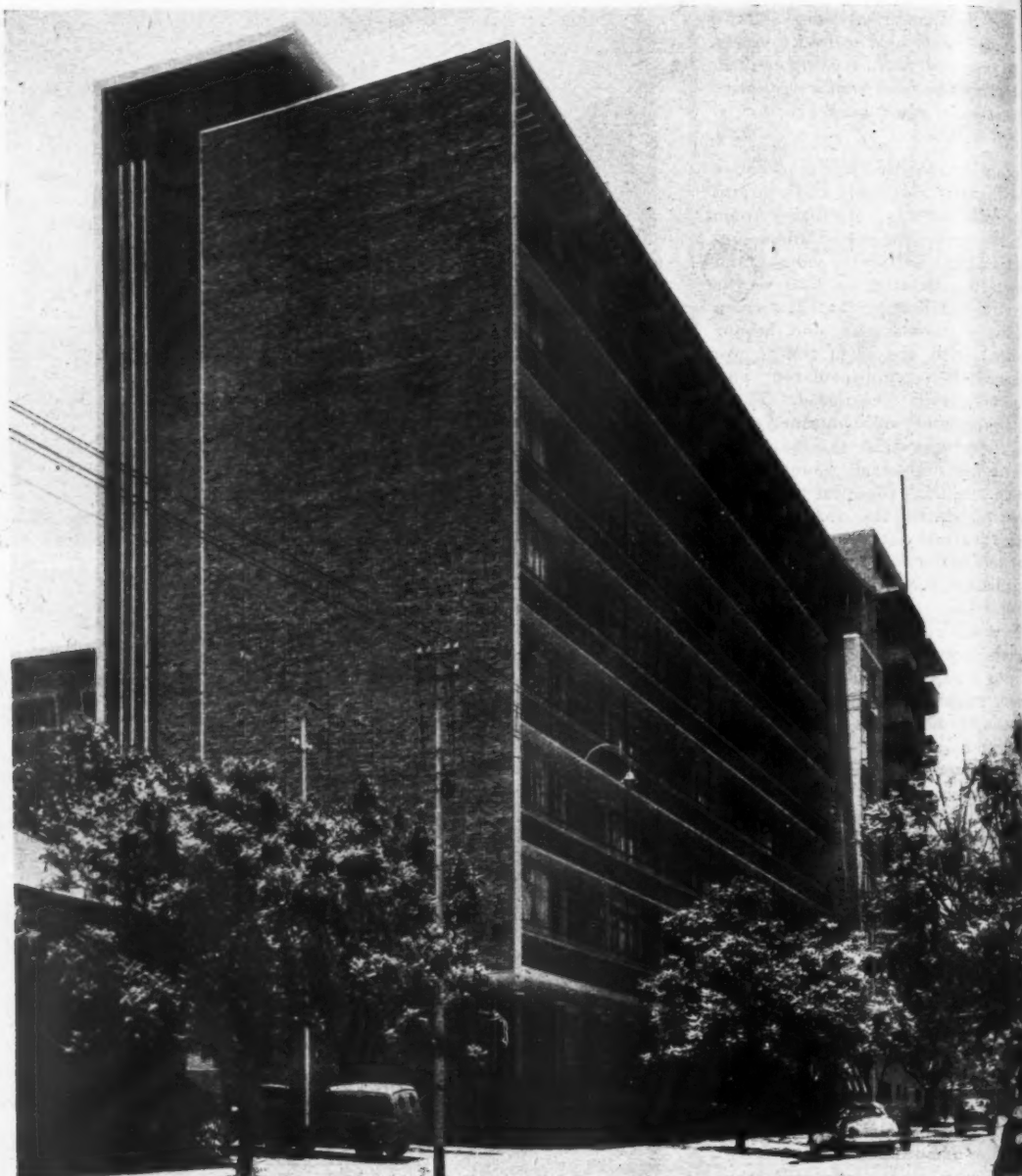
Top, the main entrance situated at the south-west corner; centre, the entrance hall, looking towards the reception room enquiry counter; bottom, the main kitchen.

vice. An isolation unit is provided on the first floor only and contains its own nursery, sterilizing room and servery. The seventh floor contains the delivery rooms and operating theatres as well as the central sterilizing room. The seven delivery rooms and one labour room, with its own toilet, are completely sound-insulated and are artificially ventilated. There is a completely self-contained suite of three operating theatres with sterilizing and scrub rooms. The main sterilizing room for the whole hospital (with the exception of the theatres) is connected by a service lift to the dressing and sterilizing rooms on each ward floor. The ground floor under the ward unit is occupied by the administration offices and nurses' sitting and dining rooms. On the lower ground floor there is a hair-dressing saloon for convalescent patients, reserve space for a physio-therapy department, a reception room and a lecture room. Also on this floor are linen room, stores, and the boiler and transformer, switch and calorifier rooms.

EXTERNAL FINISHES.—Reinforced concrete frame structure on pad and beam foundations resting on shale with brick panel in-filling. The external finishes are of 2-in. buff colour facing brick on the main street fronts and 3-in. buff colour facing brick in the courtyards. The roof is covered with asphalt sheeting covered with concrete slabs, raised up from the general roof surface with an air space under to protect the building from the heat of the sun. The plaster trim to the external elevations is painted cream with the rainwater pipes to the external balconies in royal blue. The balcony railings are in light blue and pale primrose. The entrance doors are of aluminium with decoratively etched plate glass panels. The entrance steps are in cream and maroon marble.

INTERNAL FINISHES.—*Walls and ceilings:* These are finished in semi-gloss or gloss synthetic enamel paint, pale primrose in colour, except in the bulk storage rooms, boiler house, etc. The walls in the service rooms, toilets and delivery rooms are finished in cream tiles. The operation thea-





From the south-west

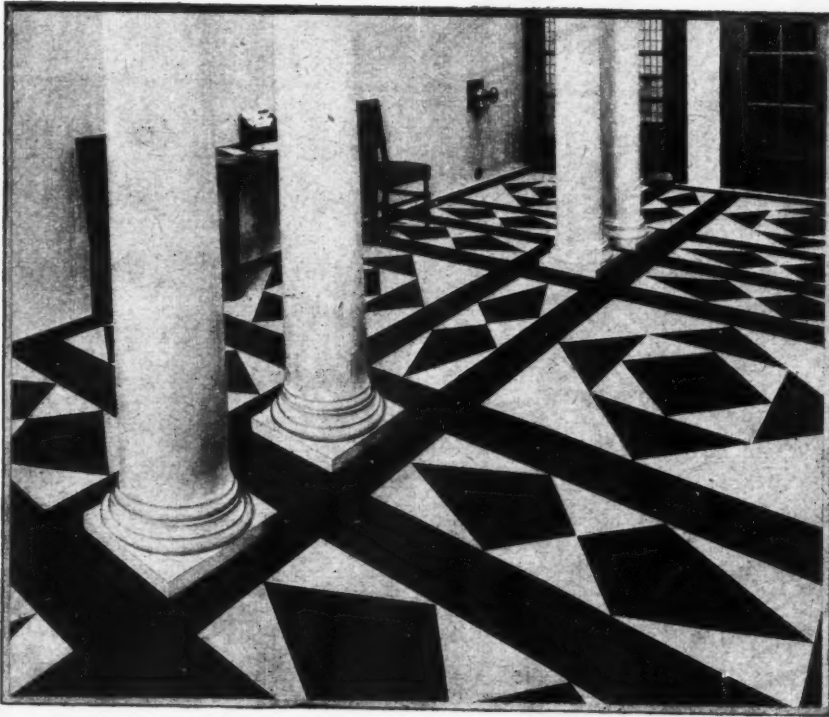
tres have green tiled walls. *Skirtings*: These are of asphalt tiles, coved and turned up and clipped to the wall by aluminium cap strips. *Floors*: Asphalt tiles, light buff in the corridors, blue in the wards and nurseries, dark green in the service rooms and maroon in the administration office, sitting rooms and dining rooms. The main staircase is finished with asphalt tiles, with rubber nosings and a metal balustrade.

SERVICES.—The general services in the building include electric light and power, patients' silent

call system, steam sterilizers and hot-water radiator heating under unit thermostatic control. Each patient has a built-in cupboard of steel and there is a wireless ear-phone plug to each patient as well as a telephone jack to each bed and telephones to all main duty and service rooms. Electric lifts are provided. Steam is produced by two coal-burning boilers with worm gear automatic stokers. Hot water and heating systems are run off main steam supply by means of calorifiers. Dressing and sterilizing rooms on each ward floor have combined instrument and bowl sterilizer and

emergency electric sterilizer. The theatre unit has a main sterilizing room which has drum water, instrument and bowl sterilizers and a sub-sterilizing room which caters for water, instrument and bowls only. Each of these, as well as all delivery rooms, has an emergency electric sterilizer. Shadowless lights are provided in the operating theatres and delivery type lights to the delivery rooms. Ventilation to the delivery rooms, theatre and sterilizing rooms is by way of extract fans but ducts have been provided for future full air-conditioning including refrigeration.

MATERNITY HOME AT JOHANNESBURG



MIDLAND BANK
HEAD OFFICE

ARCHITECT. LAURENCE M. GOTCH, F.R.I.B.A. in
collaboration with the late SIR EDWIN LUTYENS, R.A.

LEEDS CIVIC HALL

ARCHITECT. E. VINCENT HARRIS, F.R.I.B.A.

MELKSHAM HOSPITAL

ARCHITECT. SIR GEO. OATLEY, L.L.D., R.W.A., F.R.I.B.A.

KETTERING MASONIC HALL

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ARCHITECT. CHAS. FOX, F.R.I.B.A.

AVON

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THE AVON INDIA RUBBER CO. LTD., MELKSHAM, WILTS.

EST. 1885



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STAND 160 BUILDING TRADES EXHIBITION



EVEN IF THE LION HAD NO NAME, FEW WOULD CALL HIM "KITTY"
(African Proverb)

The three T.I. Aluminium companies have decided to trade under one name, and a name at that which gives an accurate idea of their identity. So Reynolds Rolling Mills Ltd., Reynolds Light Alloys Ltd. and The South Wales Aluminium Company Ltd. now have their marketing arrangements united under the title of T.I. Aluminium Ltd. This arrangement will simplify administration and make for even more efficient production of Aluminium and Aluminium Alloy Billets, Ingot, Slabs, Tubes, Extrusions, Sheet and Strip. The efficient service offered by T.I. Aluminium is in keeping with its name.

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TECHNICAL SECTION

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

INFORMATION CENTRE

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

2.102 planning: general

VALUE CONTOUR MAPS

Value Contour Maps: A New Tool for Town Planners. B. Anstey. (Planning Outlook, Vol. 1, No. 2, 1949. pp. 29-39.)

Interesting proposals for a method of visual presentation of incidence and movement of land values on value contour maps. Notes on types of land value, compilation of maps and their application to town plans. Illustrated.

Introductory remarks refer to the great assistance the valuer is able to give in analyzing the valuation aspects of planning proposals, especially since the passing of the 1947 Planning Act. It is, however, essential that such an analysis should be made available in a form which presents the important facts in as simple and clear a manner as possible so as to bring it into line with planning technique generally. Information in regard to land value incidence and movement should be readily at hand at every stage of planned development. The author has, therefore, evolved a method of presentation which is intended to meet this need through the delineation of value zones by means of *isovals*.

It is stated that *isovals* are lines drawn upon a value contour map through points of equal land value. They delimit zones in which the land value lies between those values indicated by the bounding *isovals*. Value contour maps showing *isovals* referring to certain dates may be compiled from available statistical information or be prepared from a study of the consensus of opinion of practising valuers.

In order to demonstrate the application of *isovals* to a town plan, an illustrated theoretical example is provided showing the movement of land values in a small country town due to the introduction of an electrified railway line and station just outside its boundaries.

5.34 planning: public utilities

CAR PARKING

The Problem of Car Parking. D. F. Orchard. (J. of the Institution of Municipal Engineers, Sept. 6, 1949, pp. 190-235.)

Useful and informative paper on need to reduce or even eliminate street parking, and on economics, design and capacity of temporary and permanent car parks. Illustrations, charts, tables and bibliographical references.

After giving an outline of the present state of legislation governing parking facilities, the author goes on to state the nature of urban parking requirements and the obstacles to be overcome. He discusses the undesirable effects of street parking and the need to reduce them by providing other facilities sufficiently attractive to induce the motorist to use them. A detailed analysis of different forms of parking is given and of some ways to ease the problem, and attention is drawn to the importance of forecasting parking needs by means of appropriate surveys. The last section of the paper is devoted to an examination of economic considerations to be taken into account if car parks are to be run at a profit.

13.49 materials: timber

SOFTWOODS: SOURCES, AND THE DIFFERENT SPECIES

Softwood Survey. G. W. Donnelly. (Wood, Sept., 1949, pp. 278-280.)

A survey of the main producing areas in the world and a rough indication of their potential capacity for exporting, together with a list of the chief species, giving both their Latin and popular names. To be continued.

13.50 materials: timber

WOOD PRESERVATION

Preservation of Wood. J. F. Harkoni. (Timber News, Sept., 1949, pp. 348-52.)

Introduction to main types of common preservative and some special preservatives. Figures for the anticipated life of treated and untreated timbers under different conditions.

The article, a Canadian contribution to the UNO Conference on Conservation and Utilization of Resources, contains brief descriptions of toxic oils, solutions of toxic chemicals in oils and salt preservatives soluble in water. The chemical contents of some of the latter group are given. There is mention that there is a demand for special preservatives which, as well as being colourless and odourless, can be applied without causing shrinking or swelling or raising of the grain, and in fact do not interfere with subsequent decorations, but no indication of the effectiveness of any products of this type on the market is given.

Some of the methods of treatment are indicated.

13.51 materials: timber

WOOD PRESERVATION

Wood Preservation. H. E. Desch. (Wood, Aug., 1949, pp. 245-247.)

Primarily a discussion upon the various methods of applying preservatives i.e., brush coating, hot or cold dipping, spraying, the Boucherie hydrostatic process, and pressure impregnating proper.

An important fact which emerges from the discussion is that the cost of pressure impregnating all softwood used in the standard small house (for which 1.6 standards are allowed) would amount to only £15. There must be many cases when this small extra cost would be worth incurring, in view of the high cost of timber.

15.65 materials: applied finishes and treatments

PAINTING IRON AND STEEL

Painting Iron and Steel. Draft BS C of P. 231.301. (British Standards Institution, 1949. 2s.)

Painting of structural and other ferrous metals in buildings.

The annual loss by corrosion of iron and steel is enormous. In bad conditions, such as humid or polluted atmospheres, painting alone may not give sufficient protection, but good paint applied properly and upon a well-prepared surface can be very valuable. This draft code discusses the preparation of the metal surface, the principles of painting and types of paint. Special notice is given to the protection of light gauge steel and wrought iron used in permanent construction. The latest view on protection of such metals in cavity walls is given.

15.66 materials: applied finishes and treatments

STRIPPING PAINT

Stripping Old Paintwork. (The Decorator, Sept., 1949, pp. 81 and 82.)

Short article written for craftsmen discussing practical advantages and disadvantages of the three methods, with a fuller description of burning-off and the types of blow lamp in use.

The author deplores the present lack of skill displayed in burning-off, and recalls craftsmen who could leave wood with such a clean finish after burning-off that it could be stained subsequently if required. He gives concise directions for burning-off paint. He suggests also that alkaline removers should be used only on impervious grounds, since it is difficult to remove or neutralize satisfactorily the alkaline residue left on such materials as wood and plaster. For these, the more expensive spirituous removers are recommended, as they leave no residue, except, possibly, a little wax, which can be removed easily by applying petrol or white spirit before repainting.

19.78 construction: details

CONCRETE BLOCK WALLS

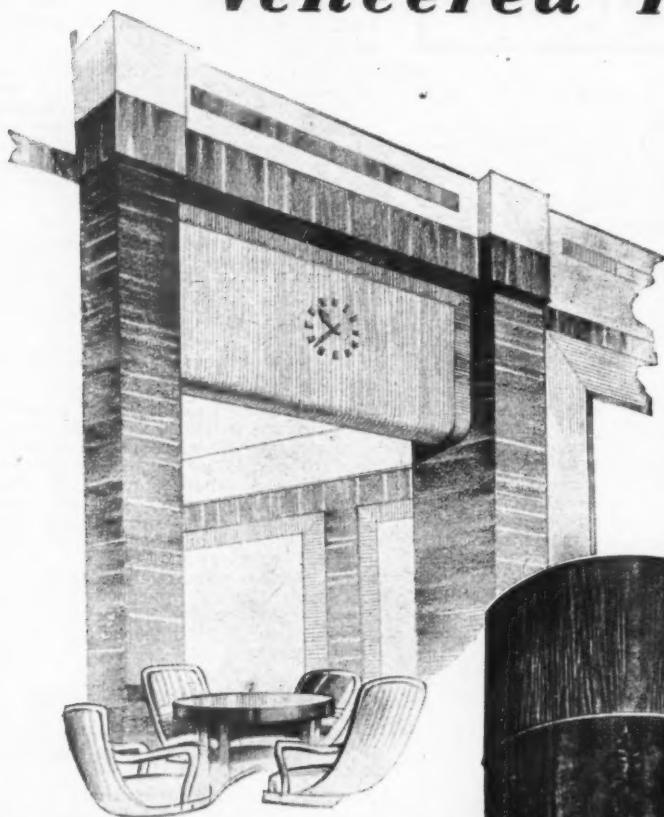
Cracking in Concrete Block Walls. (Architectural Forum [USA], Sept. 1949, pp. 102-103.)

Causes of cracking and recommendations for minimizing cracks in concrete block walls.

Concrete block is probably the most used wall-building material in America today. The article deals with typical cases of cracking, which are illustrated, and contains a number of recommendations to avoid troubles. It is suggested that concrete blocks should have a minimum strength of 700 to 1,000 lb./sq. in. on the gross area, depending on the minimum face-shell thickness. The permissible stress in America is usually 80 lb./sq. in.

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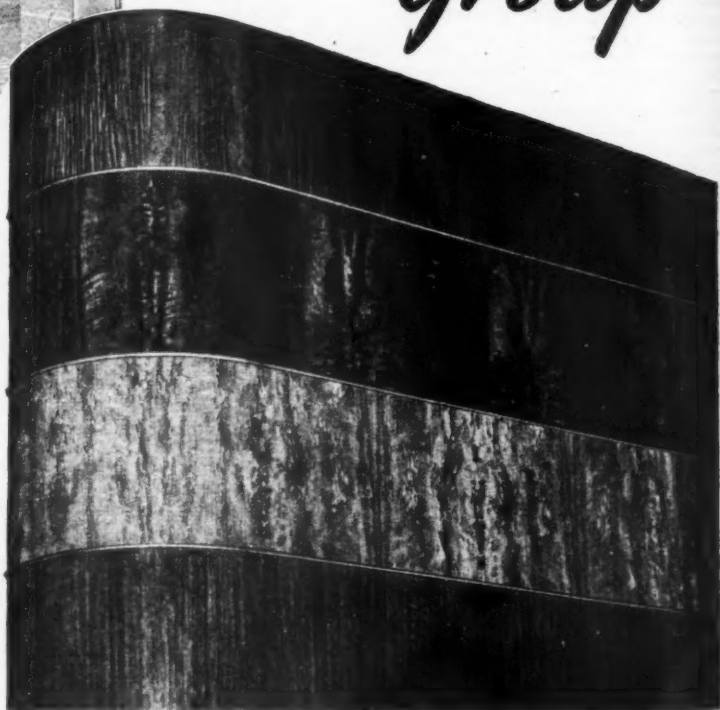


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20.147 construction: complete structures GANTRY GIRDER

Gantry Girder for the Extension to the Melting Shop at Clydebridge Steelworks. (Steel News, Aug., 1949, p. 4.)

Gantry girder designed for two 100-ton cranes.

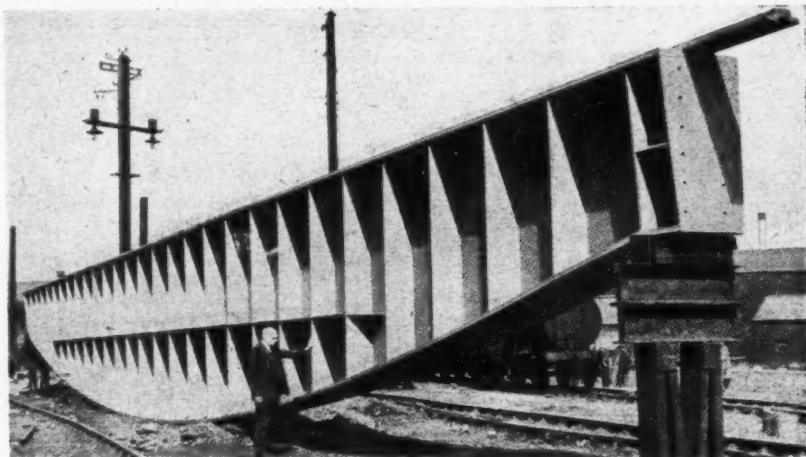
The girder has a span of 120 ft., 12 ft. deep at the centre, 4 ft. 8½ in. deep at the supports and 30 in. wide, weighing 63 tons. It is described in the publication as a new roof girder but is, in fact, a gantry girder.

20.148 construction: complete structures PRESTRESSED CONCRETE

Prestressed Concrete Used for Boldly Designed Structures in Europe. E. R. Schofield. (Civil Engineering [USA], Sept., 1949, pp. 22-27, 92-93.)

Description of the Magnel-Blaton, Freyssinet and Hoyer systems illustrated by examples of bridges and factories in prestressed concrete.

Among the recent applications of the Magnel system, most interesting is the Sclayn bridge over the Meuse River near Namur, now under construction. This bridge was advertised in open competition. Twenty-three tenders were received, all steel tenders being high, all concrete tenders low. The lowest tender was for a concrete bridge with five piers, and the second lowest, which was accepted, was for a continuous box girder in prestressed concrete requiring only the existing pier and abutments that the war left of the former bridge. The largest span is 207-ft. The other examples published in



Welded gantry girder. The illustration shows the interesting formal effect of the web stiffeners. See 20.147.

this article have already been referred to in Information Centre.

21.31 construction: miscellaneous CORROSION OF STEELWORK

The Corrosion of Steelwork. S. G. Clarke and R. St. J. Preston. (The Builder, Sept. 9, 1949, pp. 332-335.)

Report on two cases of severe corrosion in Liverpool examined by the authors, with illustrations.

22.38 sound insulation and acoustics TEMPORARY CONCERT TENT

Music Tent. (Arch. Forum [USA], Sept., 1949, p. 88.)

Description of tent with orchestra reflectors, acoustically successful. Interesting. Illustrations. Three photographs and plan.

Professor Bolt, the American acoustics expert, in a recent lecture in this country described a temporary concert auditorium which turned out to be surprisingly good for acoustics; so it is said. Dr. Bolt was responsible, but has not heard a concert in it, and cannot confirm reports. Essentially it is a circus tent, about 140-ft. across, of close-woven cloth, with reflectors for the orchestra. The seating bowl is scooped out 8-ft. deep. The article describes and illustrates the design, which is by the Saarinen.

It is certainly a surprise to find it is good acoustically. This is no doubt partly due to the fairly steeply-raked seating and orchestra—always important for direct sound. Major contributors are the orchestra reflectors, the near one, 16-ft. high, is of ¼-in. plywood in 4-ft. by 8-ft. sheets arranged in a slight curve, and pleated. The overhead reflector is also plywood and also pleated. Probably the pleating gives some very desirable diffusion. The reflectors may sufficiently support the low frequencies of an orchestra to offset the otherwise excessive absorption and transmission of these by the tent cloth. The latter serves a valuable function in retaining some high frequencies. If it really is as good as claimed, it gives a valuable pointer towards the description of acoustically good conditions.

Artificial lighting is cunningly provided by external floodlights hung high on the four main poles. The tent canvas was carefully chosen to give a good colour effect, the top being white and the side orange.

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

3007 OMISSION OF PC ITEMS

Q I am the architect for a housing contract based on the RIBA Conditions (Revised 1945) "Adapted for use by Local Authorities" and where quantities do not form part of the contract.

The PC sum allowed for certain goods is very low, and I have received a quotation from a firm for supplying and fixing these at a cut price and marked net. Normally, the builder would be entitled under the contract conditions to 2½ per cent. cash discount.

In order to avoid as many extra costs as I can, I have contemplated placing an order with this firm for the goods myself and allowing the employer to pay the account direct, without discount, on my certificate.

The question is:

Under which clause in the conditions have I the power to do this and what claim, if any, has the builder if I do?

I was under the impression that the employer, through his architect, reserved the right to purchase any of the PC goods and incidentally take the cash discount himself, if any is included in the accepted quotation, but I cannot see that this is stated in the conditions.

A The RIBA Conditions of Contract for local authorities gives power to omit work, but an omission does not mean taking the work out of the contractor's hands and giving it to someone else. Omissions mean work that is not carried out. If the employer takes work out of the contractor's hands and pays direct for such work, then the contractor would be entitled to loss of profit on that work. Cash discount is not, in my opinion, a part of the profit, and could not be claimed as a loss in such circumstances.

In general, a contractor is entitled to carry out work included in the contract if it is in fact executed, otherwise he can make a claim for loss.

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

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Block Letters Please

Announcements

The British Standard No. 602, which covers lead pipe for other than chemical purposes, was first issued in 1935 and subsequently an amended edition was issued in 1939. The practical experience in the use of the Standard obtained over the last ten years has indicated that further amendment could be made to increase the value of the Standard and a revised edition has therefore been prepared and published. B.S. 602 covers lead for service and distributing pipe; soil, waste and ventilating pipe; flushing and warning pipe; gas and condensation pipe. The Standard sets down the requirements of lead pipe of controlled good quality.

The MOS has announced that the price of good ordinary brand zinc has been increased by £2 from £81 10s. to £83 10s. per ton delivered. Prices for other grades will be increased accordingly.

The zinc oxide manufacturers have announced that prices of zinc oxide have increased by £1 15s. The new prices are: Red Seal, £80 15s.; Green Seal, £82 5s.; White Seal, £83 5s.

Mr. T. J. Mosesson, managing director of Stramit Building Boards Ltd., of Stowmarket, Suffolk, and Cowley Peachey, Uxbridge, Middlesex, has recently returned from Sweden, where he attended an international conference of Stramit licencees. Nine countries were represented, and arrangements were made to strengthen international collaboration by establishing a central development and research organization in Stockholm.

Sir Joseph Napier, Bart., O.B.E., has been elected to the board of the Temple Varnish Co. Ltd.

Mr. Basil C. Deacon, F.R.I.B.A., of Deacon & Gude, 9, St. Paul's Square, Bedford, and 85, George Street, Luton, has taken into partnership Mr. Anthony R. Laing, A.R.I.B.A. The firm will in future practise under the title of Deacon & Laing.

Jack Olding & Company Limited announce that despite devaluation it is their intention to maintain current prices for equipment and parts at least until January 1, 1950.

Holophane Ltd. announce the appointment to their board of Comte Exelmans, president and director-general of Société Anonyme Holophane, of Paris, and also of Mr. W. T. Souter, general sales manager of their company. Dr. S. English, F.R.I.B.A., M.I.E.E., technical director of Holophane Ltd., has been appointed a joint managing director.

The MOS has announced that the price of electrolytic copper has been increased from £140 to £153 per ton delivered. Discounts and premiums remain as previously announced. The Ministry's buying price for rough copper in slabs of from 2 to 3 cwt. has been increased from £100 to £120 per ton.

Gent and Co., Ltd., electrical and horological engineers, of Faraday Works, Leicester, have this month equipped a new showroom at their London offices, 47, Victoria Street, S.W.1.

Mr. E. F. Wilson, A.R.I.B.A., has been appointed architect to the Sheffield Regional Hospital Board. He would be pleased to receive trade catalogues at Fulwood House, Old Fulwood Road, Sheffield.

Basildon (New Town) Development Corporation have now moved to their permanent offices at Gifford House, Pitsea, Essex (tel.: Vange 3261. Station, Pitsea, 1½ miles). Work on the Master Plan has begun, but

no large-scale building work will be undertaken for some time. Mr. N. Tweddell, A.R.I.B.A., the chief architect and planner, would be glad to receive technical literature and catalogues.

Bronek Katz and R. Vaughan, architects, have removed from 35, Welbeck Street, to new offices at 12, Norfolk Crescent, Hyde Park, W.2 (tel.: Ambassador 3740).

The Birmingham Local Joint Committee for the Building Industry, has decided that the fixed week for the holiday to be taken in 1950 under the Holidays with Pay Scheme shall be the normal working week commencing Monday, July 3, and terminating Saturday, July 8, both dates inclusive. The area covered by the Committee includes the whole of the area of the City of Birmingham and a five miles' radius from Stephenson Place (excluding any part of the Borough of West Bromwich), the County Borough of Smethwick, the Municipal Borough of Oldbury, portions of the Municipal Borough of Halesowen, portions of the Municipal Borough of Rowley Regis and the whole of the Urban District of Solihull.

The MOW has confirmed the reduction of ½d. per square yard in the selling prices of gypsum baseboard and lath and ¼ in., ½ in. and ¾ in. thicknesses of wallboard, which has been made possible by a decrease in the cost of raw materials.

Mr. K. H. Bole, A.R.I.C.S., chartered quantity surveyor, of 75, Ebury Street, Westminster, S.W.1, has opened a branch office at Pilgrim House Chambers, Boston, Lincs. He will be pleased to receive trade catalogues at that address.

The Graviner Manufacturing Co. Ltd. have transferred their London sales headquarters to their Gosport factory, Gosport Road, near Fareham, Hants. They are still retaining their London showroom and offices in Babmaes Street.

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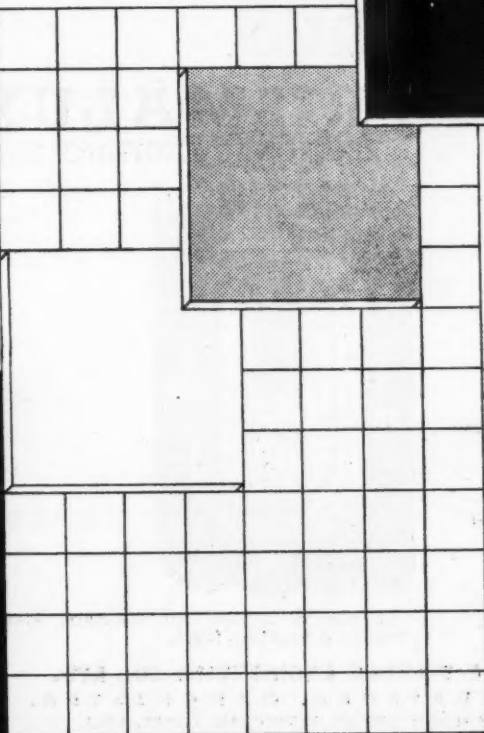
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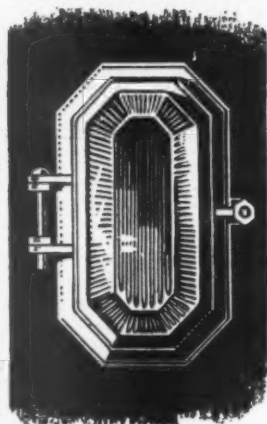
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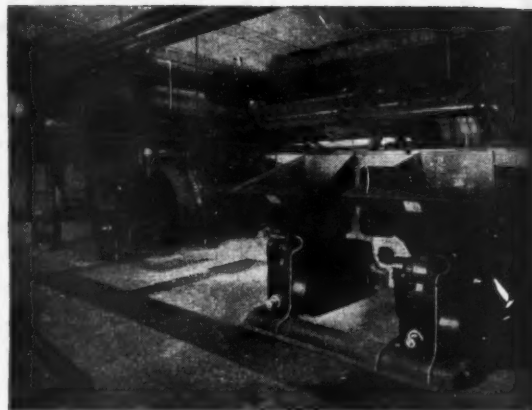
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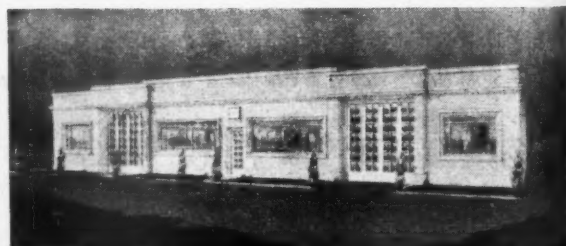
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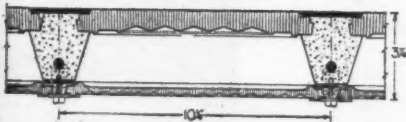
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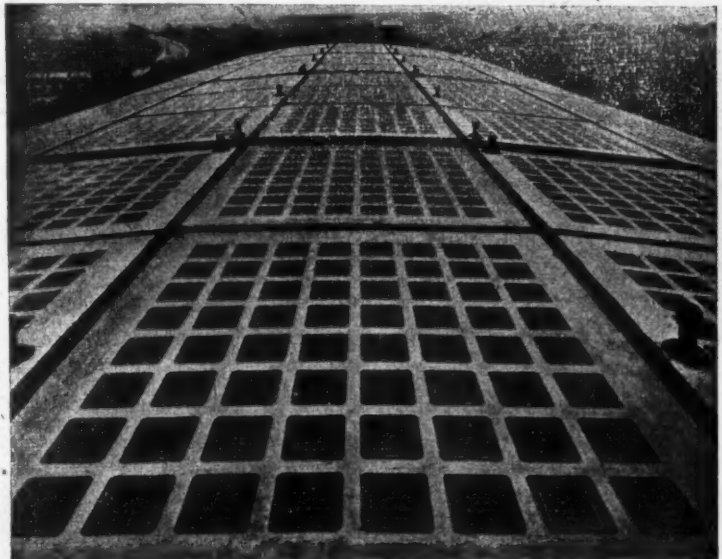
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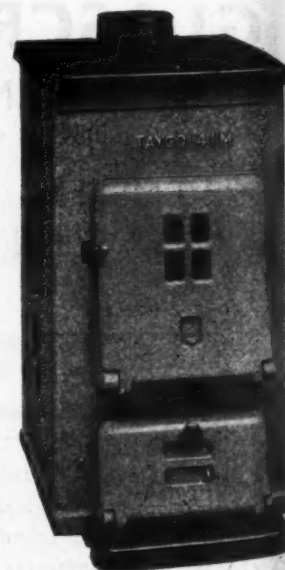


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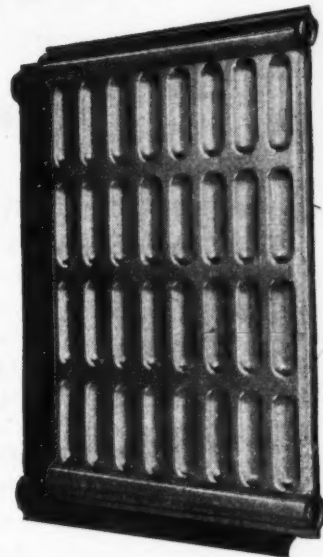
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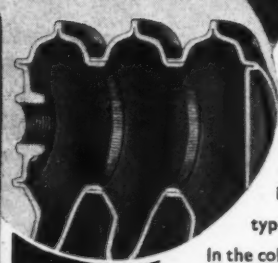
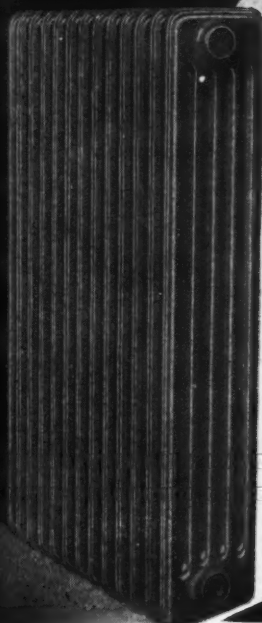
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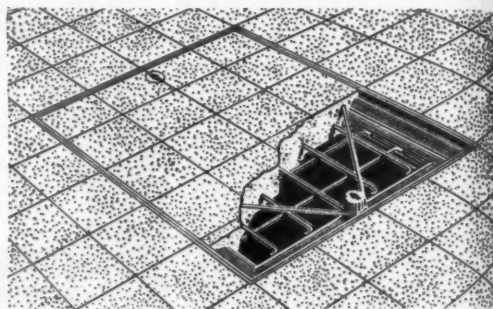
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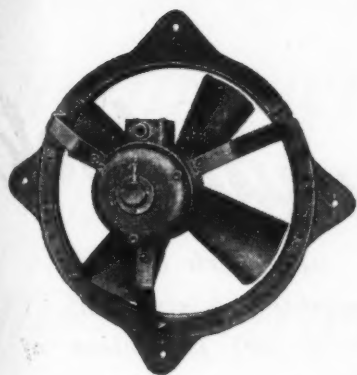
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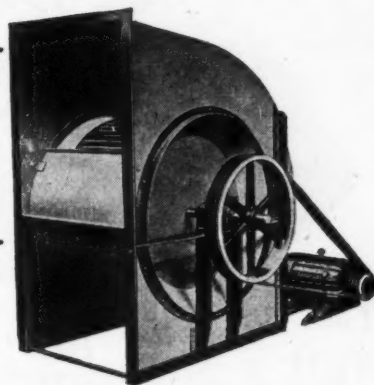
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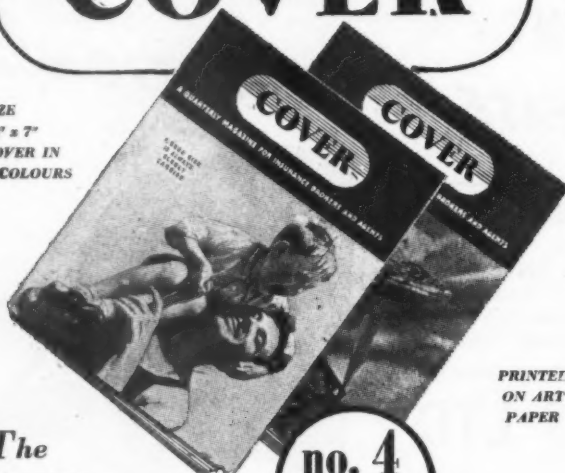
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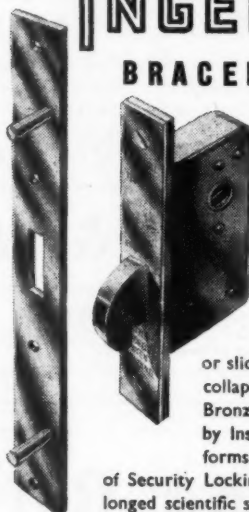
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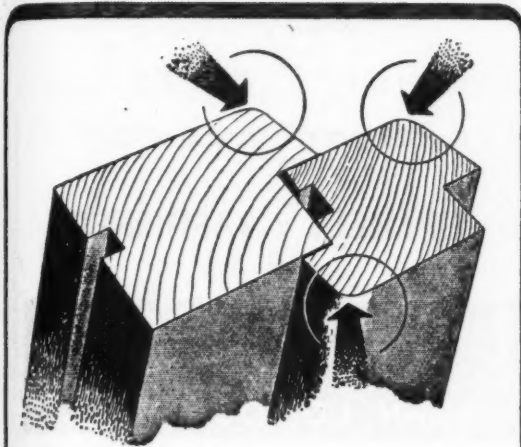


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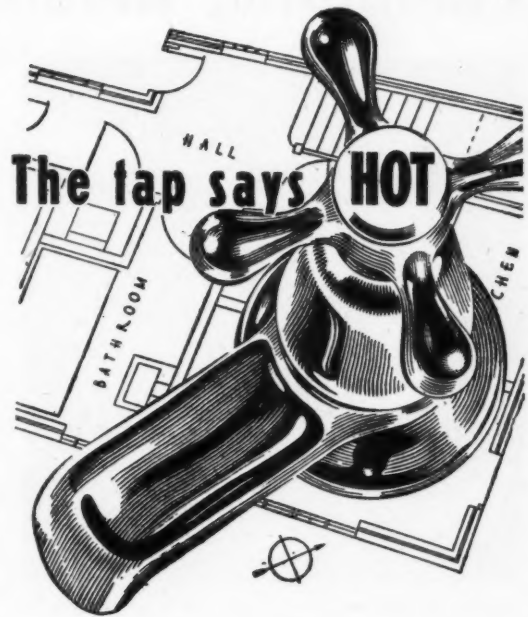
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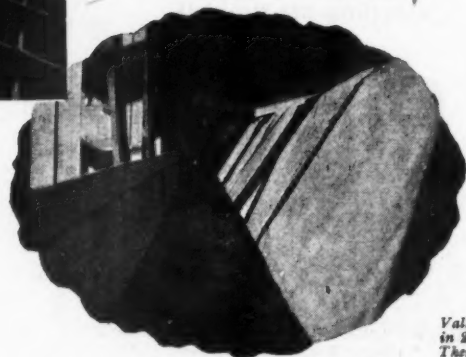
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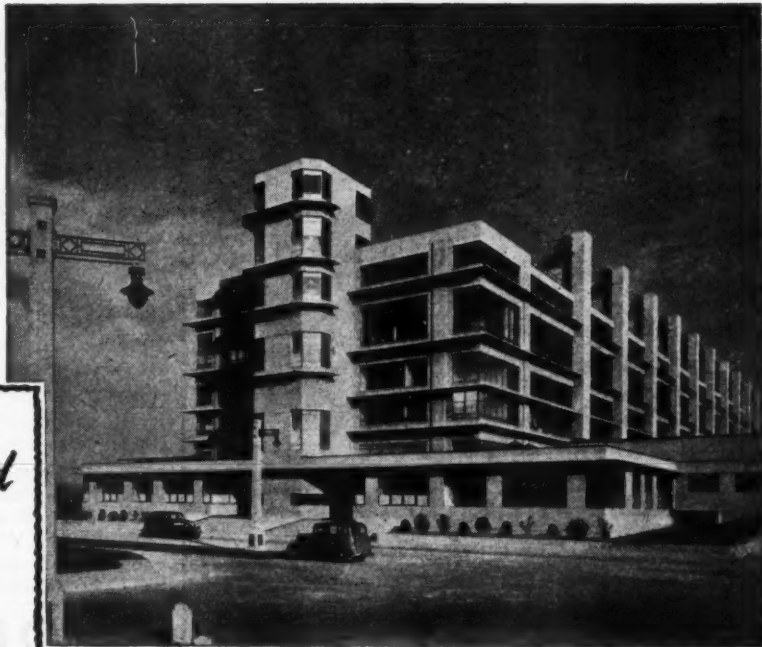
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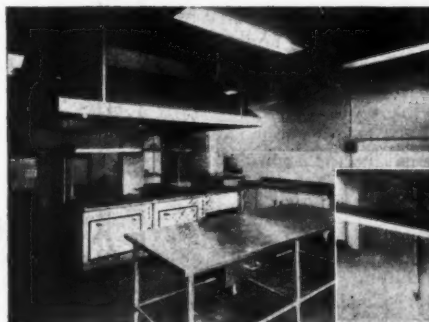
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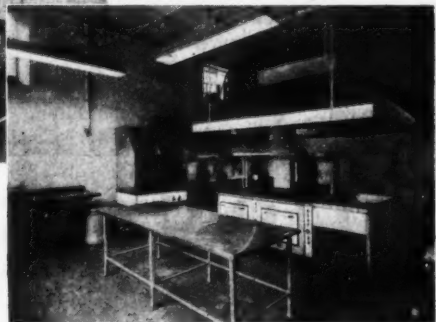
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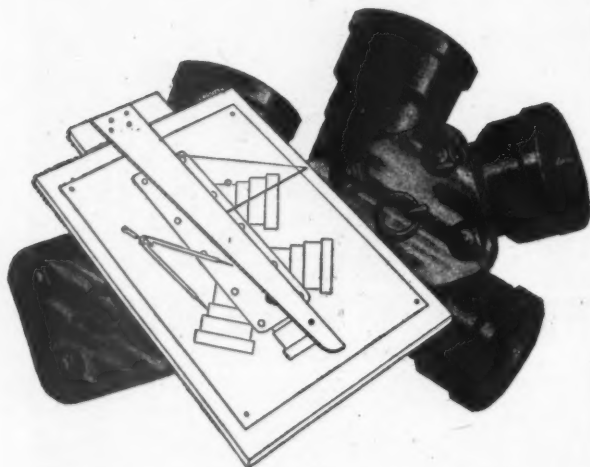


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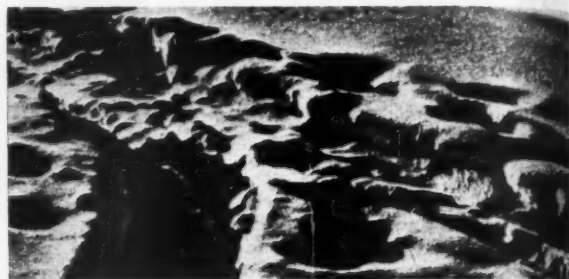
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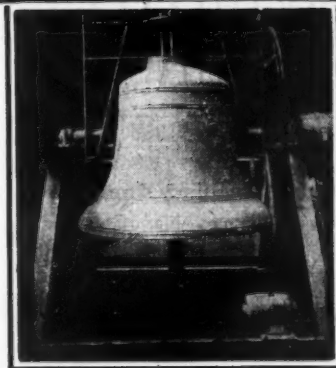
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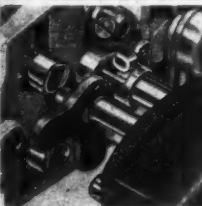
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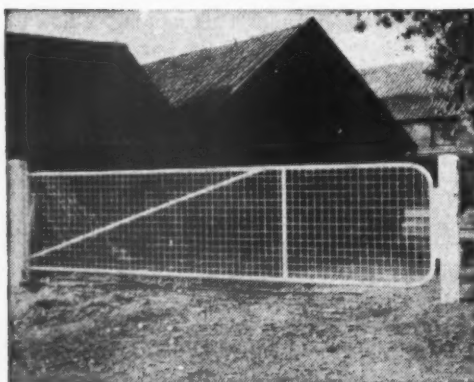
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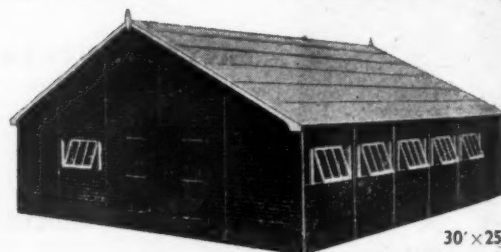
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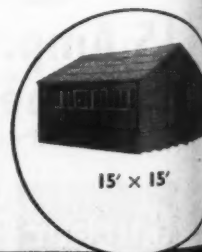
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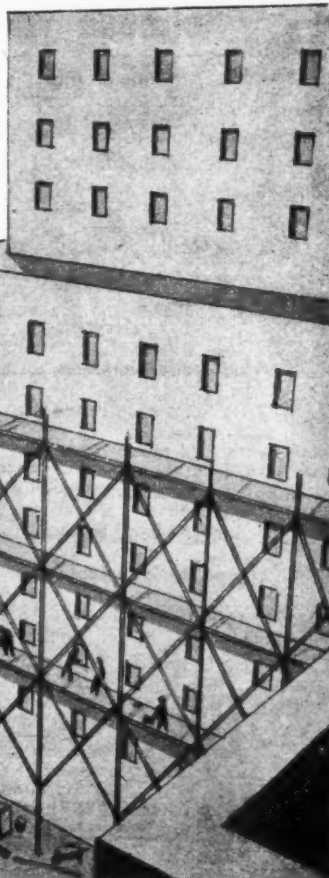
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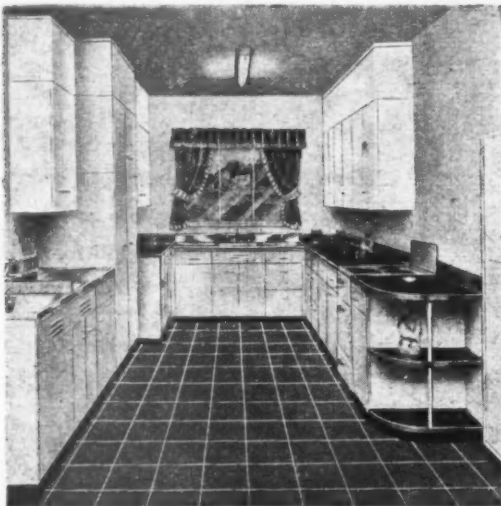
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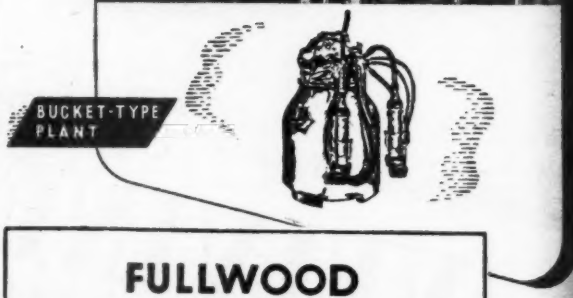
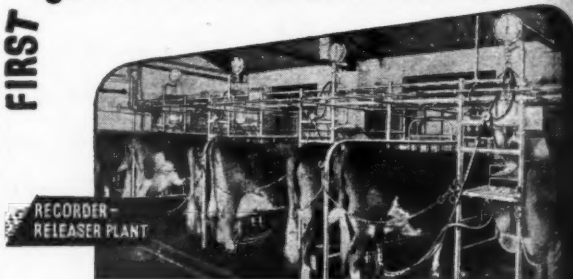
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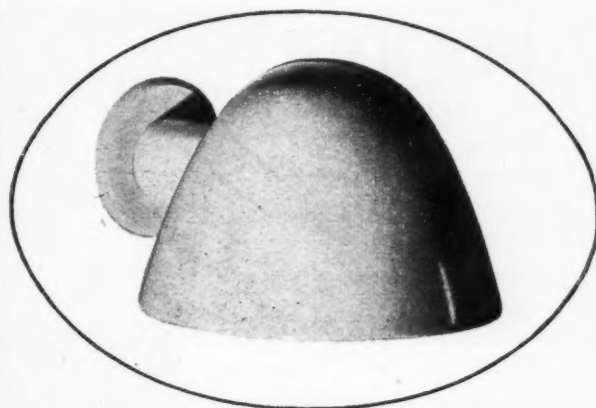
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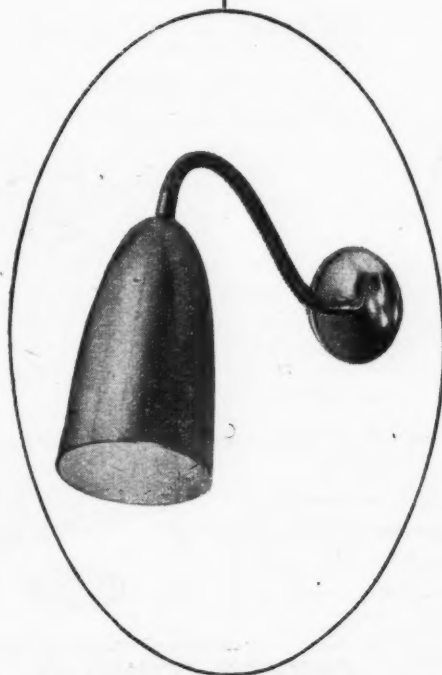
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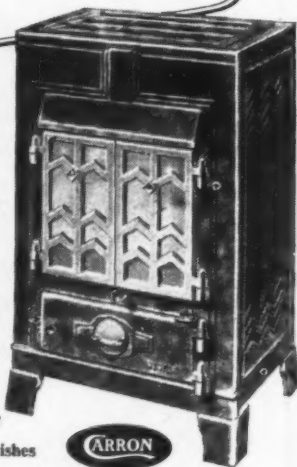
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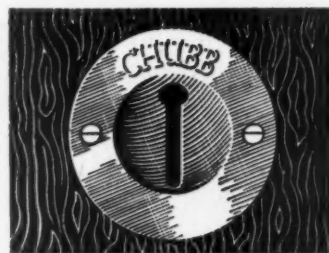
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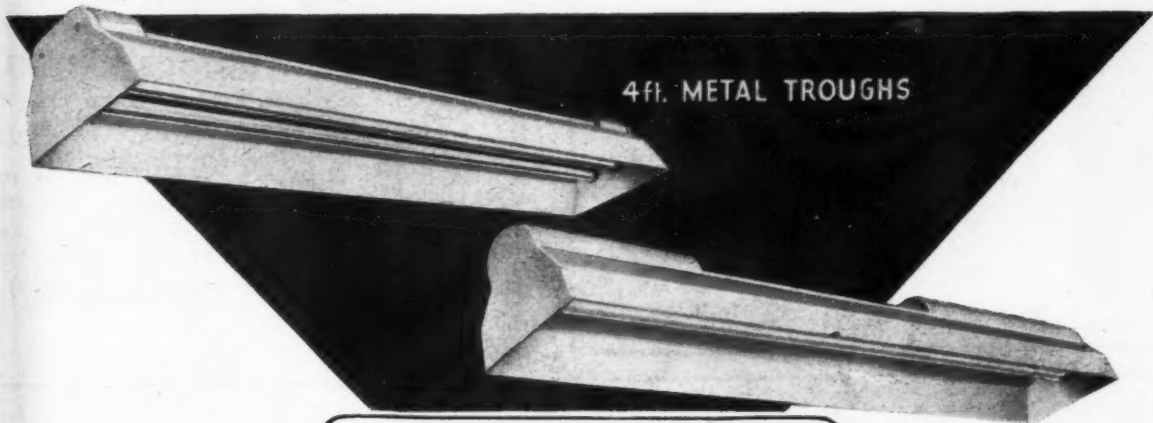
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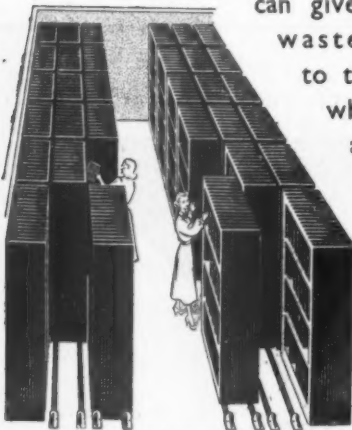
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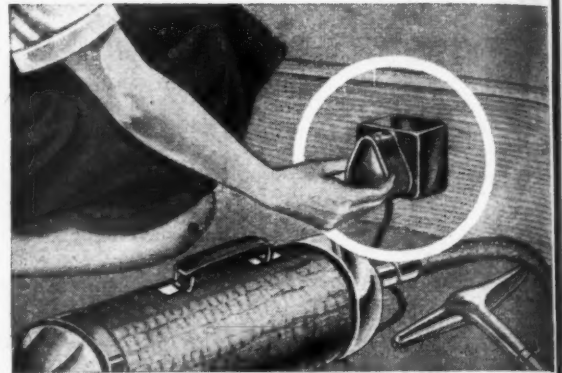


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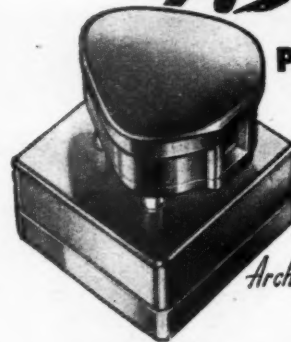
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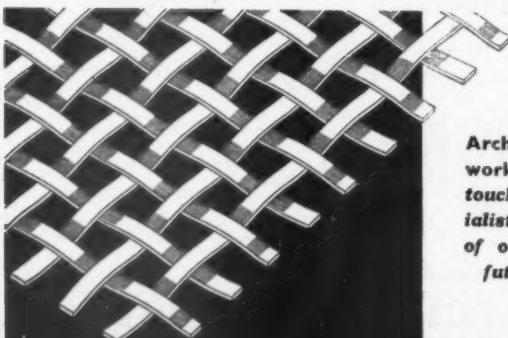
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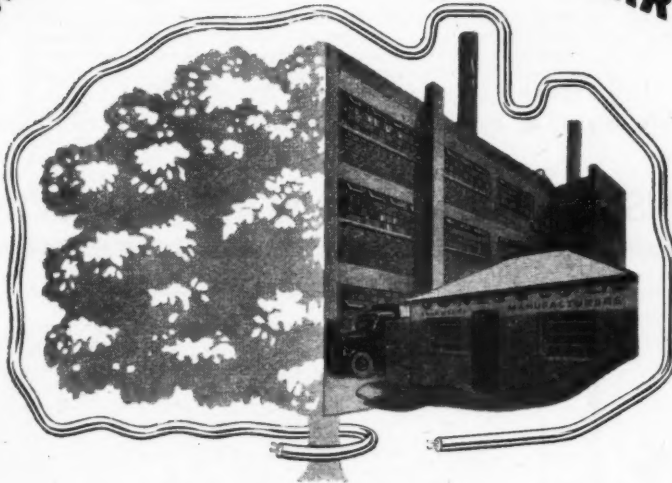
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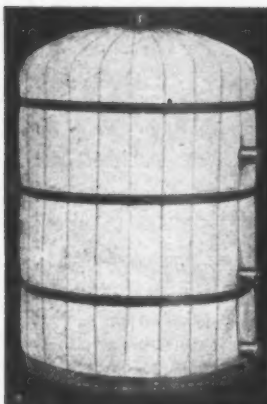
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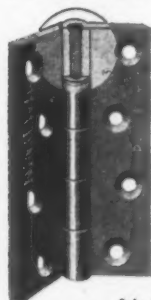
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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

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

LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) **ARCHITECT, Grade III** (salaries up to £700 a year) and (ii) **ARCHITECTURAL ASSISTANTS** (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). **Canvassing disqualifies.** (2259) 1046

MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for **ARCHITECTURAL ASSISTANTS**, with recognized training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing. Similar vacancies also exist for **ASSISTANTS**, with specialized knowledge and experience in stonemasonry, particularly in detailing and jointing of ashlar and carved stonework.

Salary: Architectural Assistants, £300-£525 per annum; Leading Architectural Assistants, £600-£625, plus overtime. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a deduction is made in the Provinces.

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

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, W.C.10/T. Ministry of Works, Abell House, London, S.W.1. 2055

COUNTY BOROUGH OF CARLISLE. CITY ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) **PRINCIPAL ASSISTANT ARCHITECT (GENERAL)**, Grade VII, £635-£710.

(b) **PRINCIPAL QUANTITY SURVEYOR**, Grade VII, £635-£710.

Applicants for appointment (a) must be Members of the Royal Institute of British Architects, and applicants for appointment (b) must be Associates of the Royal Institute of Chartered Surveyors.

Housing accommodation will be provided for successful applicants, if required.

Forms of Application and Conditions of Employment may be obtained from the City Engineer, 11, Fisher Street, Carlisle, to whom applications should be returned not later than Thursday, 1st December, 1949.

H. D. A. ROBERTSON.

Town Clerk. 2686

15, Fisher Street, Carlisle**PENBROKESHIRE COUNTY COUNCIL.****COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the Established Posts of **ASSISTANT ARCHITECTS**, Grade V to Grade VIII, and **ARCHITECTURAL ASSISTANTS**, Grade III and Grade IV, A.P. and T. Division.

Commencing salary in each Grade will be determined according to qualifications and experience, and appointment will be subject to the Local Government Superannuation Act. Previous Local Government experience not necessary, but the successful candidates will be required to undertake work in connection with Schools, Police Housing and County Buildings.

Forms of Application can be obtained from the County Architect, County Offices, Haverfordwest, and should be completed and returned, together with copies of two recent testimonials, or the names of two referees, not later than Tuesday, 13th December, 1949.

WALTER BARRETT.

County Architect.

County Architect's Dept., Haverfordwest. 15th November, 1949. 2721

DEVON COUNTY COUNCIL.

Applications are invited for the under-mentioned appointments on the established staff:—

ASSISTANT ARCHITECTS, A.P.T., VI (salary £595-£660); A.P.T., V (salary £520-£570); A.P.T., IV (salary £480-£525); A.P.T., III (salary £450-£495).

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

Applications, stating age, qualifications and experience, accompanied by not more than three recent testimonials, should be sent to the County Architect, 97, Heavitree Road, Exeter, not later than Monday, the 12th December, 1949.

Canvassing, directly or indirectly, will disqualify.

H. A. DAVIS.

Clerk of the County Council.

The Castle, Exeter.

16th November, 1949.

2732

BOROUGH OF ACCRINGTON.**APPOINTMENT OF QUANTITY SURVEYOR.**

Applications are invited for the appointment of a Quantity Surveyor, in the Borough Engineer's Department, at a salary in accordance with Grade IV of the A.P.T. Division of the National Scales of Salaries (£480-£525 per annum).

Applicants must have had experience in the preparation of estimates and bills of quantities, in measuring up and in the adjustment of final accounts for housing schemes and other work. Preference will be given to applicants holding appropriate qualifications.

The appointment will be subject to termination by one month's notice on either side, to the National Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Applications, endorsed "Quantity Surveyor," stating age, qualifications and experience, and accompanied by copies of two recent testimonials, should be sent so as to reach me not later than the 1st December, 1949.

JACK GARTSIDE.

Town Clerk.

Town Hall, Accrington.

7th November, 1949.

2676

Amended Advertisement.**BOROUGH OF ACCRINGTON.****APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Chief Architectural Assistant, in the Borough Engineer's Department, at a salary in accordance with Grade VII of the A.P.T. Division of the National Scales of Salaries (£635-£710 per annum).

Applicants must be Registered Architects, and must have had experience in the design of housing estates, the construction of houses by contract, and the construction and alteration of public buildings. Preference will be given to applicants holding additional appropriate qualifications.

The appointment will be subject to termination by one month's notice on either side, to the National Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Applications, endorsed "Chief Architectural Assistant," stating age, qualifications and experience, and accompanied by copies of two recent testimonials, should be sent so as to reach me not later than the 1st December, 1949.

JACK GARTSIDE.

Town Clerk.

Town Hall, Accrington.

7th November, 1949.

2677

ESSEX EDUCATION COMMITTEE.**SOUTH-EAST ESSEX TECHNICAL COLLEGE****AND SCHOOL OF ART.****APPOINTMENT OF PRINCIPAL.**

Applications are invited from suitably qualified candidates for the post of **PRINCIPAL** of the South-East Essex Technical College and School of Art.

The College and School of Art serves the populous extra-Metropolitan area of South Essex and industrial areas bordering Thameside. It has a considerable development of full-time and part-time day work and a large amount of evening work of an advanced nature, and is organized in the following Departments:—

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The salary scale is £1,250 per annum, by annual increments of £50 to a maximum of £1,550 per annum, plus London training and graduate allowances. A starting salary above the minimum may be approved.

Those who applied to a recent advertisement for this post should write stating whether they wish their applications to stand.

Further particulars and a form of application, which should be returned without delay, may be obtained from the undersigned on receipt of a stamped addressed envelope.

D. N. BUNGEY.

Acting Chief Education Officer.

County Offices, Chelmsford, Essex.

2692

CORPORATION OF LONDON.**APPOINTMENT OF ARCHITECTURAL AND SURVEYING ASSISTANTS.**

Applications are invited for the appointment of Architectural and Surveying Assistants in the City Surveyor's Office. Salaries will be within the range Higher Grade I, £400×£25-£625. Commencing salaries will be arranged according to qualifications and experience.

Applicants should be between the ages of 25 and 35 years of age and be Associate Members of the Royal Institute of British Architects or the Royal Institution of Chartered Surveyors (Building Sub-section). Applicants without these qualifications and who have passed the Intermediate Examinations of the R.I.B.A. or R.I.C.S. (Building Sub-section) will be considered. The appointments call for good draughtsmanship and a sound knowledge of building construction, specification writing, contract management, and general administrative ability.

The appointments are on a temporary basis, but candidates will be considered for transfer to the permanent staff as and when vacancies occur. Temporary service counts for superannuation.

The appointments will be subject to the provisions of the Corporation's Superannuation Scheme, and candidates will be required to pass a medical examination.

Applications, giving full personal details, particulars of qualifications, experience, age, past and present appointments, and the names of two persons to whom reference may be made, should be forwarded to George Holliday, F.R.I.C.S., City Surveyor, Corporation of London, 55-61, Moorgate, E.C.2. 2644

URBAN DISTRICT COUNCIL OF PONTYPOOL.**APPOINTMENT OF ARCHITECT.**

Applications are invited for the post of Architect to the above Council at a salary of £760 per annum.

Applicants must be Registered Architects, and experienced in the design of houses for Local Authorities will be an advantage. The successful applicant will be responsible for the preparation and carrying through of all the Council's Housing Schemes. He will not be allowed to engage in private practice.

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

Applications, stating age, qualifications and experience, accompanied by a copy of a recent testimonial, together with the names of two persons to whom reference may be made, should be delivered to the undersigned not later than Tuesday the 6th December, 1949. Canvassing will disqualify.

H. COOK.

Clerk of the Council.

Town Hall, Pontypool.

2717

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

Applications are invited for the under-mentioned appointments:—

(a) **ONE ASSISTANT ARCHITECT**, on the Permanent Staff, Salary Grade VI (£595-£660).

(b) **ONE ASSISTANT ARCHITECT**, on the Temporary Staff, Salary Grade VI (£595-£660).

Candidates must be Members of the Royal Institute of British Architects by examination, to undergo a medical examination and to contribute to the Superannuation Scheme.

They will be provided with housing accommodation for the duration of their engagement with the Borough Architect.

Applications, with the names of three referees, to be sent to the undersigned not later than Monday, 28th November, 1949.

Canvassing, directly or indirectly, will disqualify.

JOHNSON BLACKETT, F.R.I.B.A.

Borough Architect.

Town Hall, Newport, Mon.

2715

EAST SUSSEX COUNTY COUNCIL.**APPOINTMENT OF COUNTY PLANNING OFFICER.**

Applications are invited for the post of County Planning Officer, which will become vacant on the 1st April, 1950. The annual salary will be £1,400, rising by annual increments of £50 to £1,600.

Applicants should have considerable practical and administrative experience in Town and Country Planning, and should hold the following qualifications:—

(1) Corporate Membership of the Town Planning Institute, and (2) Corporate Membership of either the Royal Institute of British Architects, the Institute of Civil Engineers, or the Royal Institute of Chartered Surveyors. The Officer appointed will be required to carry out his duties under the general direction of the Clerk of the County Council and to devote the whole of his time to the duties of his office.

Application forms and conditions of appointment may be obtained from the undersigned, to whom applications must be delivered by Saturday, the 10th December, 1949.

Canvassing, either directly or indirectly or on behalf of any candidate will disqualify the candidate concerned, and relationship to any member or senior officer of the County Council must be disclosed.

H. S. MARTIN.

Clerk of the County Council.

County Hall, Lewes.

15th November, 1949.

2731

CITY OF STOKE-ON-TRENT.
RECONSTRUCTION DEPARTMENT.
 Applications are invited for two appointments of **THIRD PLANNING ASSISTANT** in the Reconstruction Department. Salary A.P.T. Division, Grade III (£460 to £495 per annum). Preference will be given to candidates possessing an appropriate technical qualification, with practical experience of duties under the Town and Country Planning Act, 1947, particularly with reference to the preparation of development plans and redevelopment schemes.
 Housing accommodation for married applicants will be considered.
 The selected applicants will be required to pass a medical examination, and the appointments will be subject to the provisions of (a) the Local Government Superannuation Act, 1937, and (b) the National Scheme and Conditions of Service for Local Government Officers.
 Applications in writing, stating age and particulars of previous experience, and accompanied by copies of not less than two recent testimonials, should be forwarded to the Reconstruction Officer, Reconstruction Department, Woodhouse Street, Stoke-on-Trent, in a sealed envelope endorsed "Third Planning Assistant," not later than 9th December, 1949.

HARRY TAYLOR, Town Clerk.
 2678

BOROUGH OF SOUTHALE.
ARCHITECTURAL STAFF.
 Applications are invited for the following permanent appointments:—
 (1) **SENIOR ARCHITECTURAL ASSISTANT.** Salary in accordance with Grade A.P.T. Va, of the National Scheme (£550-£610), plus appropriate London weighting.
 (2) **ARCHITECTURAL ASSISTANT.** Salary in accordance with Grade A.P.T. IV, of the National Scheme (£480-£525), plus appropriate London weighting.
 (3) **ARCHITECTURAL ASSISTANT.** Salary in accordance with Grades A.P.T. II and III, of the National Scheme (£420-£495), plus appropriate London weighting.
 (4) **JUNIOR ARCHITECTURAL ASSISTANT.** Salary in accordance with Grade A.P.T. II, of the National Scheme (£420-£465), plus appropriate London weighting.
 Applicants for (1) must be Members of the Royal Institute of British Architects.
 Housing accommodation will be made available for the successful candidate for post (1), if married.
 Applicants for (2) and (3) should have passed the R.I.B.A. Intermediate Examination.
 Applicants for (4) should be well advanced in preparation for the R.I.B.A. Intermediate Examination.
 Candidates for all posts should have had previous Local Government experience.
 The posts are subject to one month's notice on either side and to the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.
 Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southale, must be returned to him not later than Monday, 5th December, 1949.

J. S. SYRETT,
 Town Clerk.

Town Clerk's Office, Southale.
 November, 1949. 2664

MERIONETH COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
 Applications are invited for the appointment of **ASSISTANT COUNTY PLANNING OFFICER**, at a salary in accordance with Grade VI (£595-£660), of the National Joint Council's Scale.
 Applicants must be Corporate Members of the Town Planning Institute (by examination), and possess one of the following additional qualifications:—University Degree or Diploma in Architecture, Surveying or Engineering, or Corporate Membership (by examination) of the Institution of Civil Engineers, Royal Institute of British Architects, Royal Institution of Chartered Surveyors, or Institute of Municipal Engineers.
 They must also have a wide experience in all matters appertaining to planning a large Rural Area.
 The County of Merioneth includes a considerable area of a suggested National Park, and the appointment offers special opportunities in this field. An appreciation of the planning problems appertaining to such an area, with good experience of architectural building control, is desirable.
 The successful applicant must be prepared to run a motor car for official purposes and for which a travelling allowance will be paid.
 The salary is consolidated and the appointment will be subject to the terms and conditions of service applying to the administrative, technical and clerical officers of the County Council. The appointment will be terminable at the end of any month by one month's notice in writing on either side. The successful applicant will be required to pass a medical examination and will be subject to the Local Government Superannuation Act, 1937.
 Applications, stating age, qualifications, present position and salary, previous appointments held, and full details of experience, accompanied by copies of two recent testimonials, are to be sent to the undersigned not later than Saturday, 10th December, 1949.

HUGH J. OWEN,
 Clerk of the County Council.
 County Offices, Dolgellau, Merioneth.
 10th November, 1949. 2709

CITY OF COVENTRY.
PLANNING DEPARTMENT.
 Applications are invited for the following appointments on the permanent staff of the Planning Department:—
 (a) **TWO JUNIOR PLANNING ASSISTANTS.** Grades A.P.T. I-III, according to experience.
 (b) **ONE STUDENT PLANNER.** Grade, General Division, plus merit increments for degrees.
 Applicants for appointments (a) should be neat and expeditious draughtsmen, and should have had experience in either Research and Survey Work in connection with the preparation of the Development Plan or the Preparation of Layouts for Housing Estates and Industrial Areas.
 Applicants for appointment (b) will be given every opportunity to obtain experience in various aspects of Town Planning with a view to ultimate qualification.
 The appointments are subject to the following: (a) National Scheme for Local Government Officers, as amended by Coventry Corporation; (b) Local Government Superannuation Act, 1937, as amended respecting annuities for widows by the Coventry Corporation Act, 1936, and Coventry Municipal Officers' Widows and Orphans Pension Fund; (c) medical examination, and (d) one calendar month's notice on either side.
 Applications must be made on the forms obtainable from the undersigned, and should be returned completed not later than Thursday, the 1st December, 1949.

D. E. E. GIBSON,
 City Planning Officer.
 Planning Department, Earl Street, Coventry.
 2nd November, 1949. 2654

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
 Applications are invited for the appointment of an **ASSISTANT QUANTITY SURVEYOR**, Grade VI. Salary £595 to £650 per annum, plus London allowance of £30 per annum.
 Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division), and who have an adequate experience in the preparation of Bills of Quantities, site measuring, and in settlement of final accounts.
 Full details of past and present appointments should be given.
 The appointment will be subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination.
 Applications, stating age, qualifications, full details of experience, salary required, and accompanied by copies of three testimonials, should be addressed to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, to reach him not later than the 3rd December, 1949.
 Canvassing, either directly or indirectly, will disqualify a candidate from consideration.
 The Council will be unable to provide any housing accommodation, and the successful applicants will be required to make their own arrangements in this direction.

DUDELAUKLAND,
 Clerk of the Council.
 County Hall, Kingston-upon-Thames.
 26th November, 1949. 2685

COUNTY BOROUGH OF EAST HAM.
BOROUGH ENGINEER'S DEPARTMENT.
 Applications are invited for the undermentioned appointments:—
ARCHITECTURAL ASSISTANT (Grade A.P.T. VI). Salary £595 to £660 per annum.
ARCHITECTURAL ASSISTANT (Grade A.P.T. V). Salary £520 to £570 per annum.
ARCHITECTURAL ASSISTANT (Grade A.P.T. IV). Salary £480 to £525 per annum.
ENGINEERING ASSISTANT (Grade A.P.T. IV). Salary £480 to £525 per annum.
 The appropriate London weighting is paid in addition to the above salaries, and salaries in excess of the minima of the grades may be paid, according to the qualifications and experience of successful candidates.
 The Council will be prepared to consider applications for a subsistence allowance in appropriate cases from persons appointed should they be unable to obtain suitable housing accommodation.
 Full particulars of the duties, terms and conditions of appointment and form of application (which must be returned by Monday, the 5th December, 1949) may be obtained from the undersigned.
 Canvassing in any form will disqualify.

H. A. EDWARDS,
 Town Clerk.
 Town Hall, East Ham, E.6.
 27th November, 1949. 2742

COUNTY BOROUGH OF BLACKBURN.
ARCHITECTURAL ASSISTANT (GRADE VIII).
 Applications are invited for the permanent post of **SENIOR ARCHITECTURAL ASSISTANT**, on Grade VIII of the National Scales of Salaries, viz., £685-£760 per annum.
 Applicants must be Registered Architects, with considerable experience in the design and construction of school buildings. Preference will be given to Associates of the R.I.B.A.
 It is the Council's practice to give sympathetic consideration to the provision of housing accommodation for newly-appointed officers.
 Applications, endorsed "Senior Architectural Assistant," together with copies of recent testimonials, should be submitted to the Borough Engineer and Surveyor, Town Hall, Blackburn, by Monday, 12th December.

CHAS. S. ROBINSON,
 Town Clerk.
 2741

COUNTY BOROUGH OF SUNDERLAND.
BOROUGH ARCHITECT'S DEPARTMENT.
 Applications are invited for the following vacancies on the permanent staff of the Borough Architect's Department from persons of initiative and ability who wish to participate in the growth of a new Department having before it an extensive, interesting and varied programme of new works.
 (1) **ASSISTANT ARCHITECTS.** A.P.T., Grade VI (£595-£660). Candidates to be Associates of the R.I.B.A. (or hold equivalent qualifications), and to have had adequate practical experience.
 (2) **ARCHITECTURAL ASSISTANTS.** A.P.T., Grades I, II, III and IV (£390-£525), according to experience and/or qualifications.
 (3) **SENIOR QUANTITY SURVEYING ASSISTANTS.** A.P.T., Grade V (£530-£570). Candidates to be Associates of the R.I.C.S., with adequate practical experience.
 (4) **QUANTITY SURVEYING ASSISTANT.** A.P.T., Grades I, II, III or IV (£390-£525), according to experience and/or qualifications.
 All appointments are permanent and are subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and to the provisions of the Local Government Superannuation Act, 1937. They are subject also to one month's notice on either side, given from the first day of any month.
 Successful candidates will be required to pass a medical examination.
 Forms of application may be obtained from Mr. Harvey C. Bishop, A.R.I.B.A., Borough Architect, Grange House, Stockton Road, Sunderland, and applicants should state clearly for which post they are applying.
 Applications, endorsed with the name of the particular post applied for, should be sent to the undersigned not later than Thursday, 8th December, 1949.
 Canvassing, directly or indirectly, will be deemed a disqualification.

G. S. MCINTIRE,
 Town Clerk.

Town Hall, Sunderland.
 15th November, 1949. 2723

Applications are invited for filling vacancies in the South-Eastern Regional Office at Tunbridge Wells.
MINISTRY OF WORKS DIRECTORATE
GENERAL OF WORKS.
ARCHITECTURAL AND ENGINEERING DRAUGHTSMAN, having had a full period of recognized training and experience in the preparation of drawings for road class building work. The work is varied and not confined to standard schemes. Starting pay will be assessed according to age, qualifications and experience within a scale rising to £495 per annum.
 Applications, stating age, present and previous appointments, training qualifications, etc., should be sent to the Assistant Regional Director (Administration), Ministry of Works, Government Buildings, Hawkenbury, Tunbridge Wells, Kent.

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD.

invite applications for the following appointments on the staff of the Manchester Architects' Department:—
THREE ASSISTANT ARCHITECTS. Salary £510-£625 per annum. Applicants are required to have a sound knowledge of building construction and be able to produce working drawings and details from sketch plans. Experience in design and planning of modern industrial buildings, or shopping emporiums and retail shops will be considered an advantage.

The above appointments are permanent and our prospects of up-grading to competent Assistants. Successful candidates will be required to undergo a medical examination for entry into compulsory superannuation scheme.
 Applications, stating age, experience, and qualifications, to be addressed to the Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester.

CORPORATION OF GLASGOW.
HOUSING DEPARTMENT.
ASSISTANT ARCHITECTS:

Grade II. Salary scales: A.P.T., VI, £595-£660; A.P.T., V, £520-£570; A.P.T., III, £480-£495; A.P.T., II, £420-£465.

Applications are invited for appointments to the Architectural Staff of the Department, at salaries in accordance with the above scales. Placing on these scales will be according to age and experience.

Applicants should have passed the Final Examination of the Royal Institute of British Architects or should hold other equivalent qualifications.

The appointments will be to the Permanent Establishment of the Department, and are subject to the provisions of the Corporation's Superannuation Scheme. Successful applicants will require to pass a medical examination.

The appointments are terminable on either side by one month's notice in writing.

Applications, stating age, particulars of training, experience and qualifications, should be addressed to the undersigned and should be received within 14 days of the publication of this advertisement.

A. G. JURY,
 Director of Housing.
 Housing Department, 20, Tronagate,
 Glasgow, C.1.

INLAND REVENUE—VALUATION OFFICE.
LOCAL GOVERNMENT ACT, 1948.

Applications are invited for the following appointments:

(1) **BUILDING SURVEYORS.** Salary £1,160-£1,370 p.a. in London, and somewhat lower elsewhere. The appointments will be in London and twelve regional towns. An extensive practical experience in pricing by reference to 1938 price levels, the cost of all trades, materials, fittings and fixtures employed in the construction of post-1918 dwelling houses and their appurtenances is essential. A sound general experience in estimating the current costs of construction of factories and like premises—public buildings, schools, etc.—would be an advantage. Building Surveyors will be required to organize and instruct junior professional staff in connection with surveying small post-1918 dwelling houses, and previous experience in the control and direction of staff is essential. Membership of the Royal Institution of Chartered Surveyors (Building or Quantity Sub-Divisions) or the Royal Institute of British Architects or other appropriate technical qualifications, whilst not absolutely essential, is desirable. The posts are not established, but, in appropriate cases, the grant of a contract for a period of service not exceeding 5 years will be considered.

(2) **TEMPORARY ESTIMATORS (RATING).** Salary £400-£750 p.a., according to age, experience and qualifications. Estimators are required to assist in the survey and costing of post-1918 dwelling houses. Some experience of building construction is essential and a knowledge of building trade prices will be an advantage.

(3) **REFERENCERS (RATING).** Salary £200-£450 p.a., according to age and experience. Referencers are required to measure land and buildings, compute areas and cubic contents of buildings, etc. Previous experience of similar work is necessary.

The posts, although unestablished, have long-term possibilities and, from time to time, competitions are held for recruitment to established posts.

There are vacancies under Nos. (2) and (3) above in practically all parts of England and Wales. The salaries quoted are London scales and are subject to provincial differentiation for officers serving outside London.

Successful candidates under (2) and (3) will not be required to take up duty before February, 1950.

Applications should be addressed to Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, London, W.C.2, quoting reference J. 340B/49/CB. 511A6(12) 2711

CAMBRIDGESHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of **PLANNING ASSISTANT, A.P.T., Grade IV.** Salary £480-£525 per annum. Candidates will initially be engaged in the Survey and Research Section of the County Planning Department, and must have had experience in the study of Government Statistics relating to Planning and Census Returns and possess a broad working knowledge of Planning Techniques.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, the Council's Conditions of Service, and a medical examination.

Applications, stating age, past and present appointments (with dates), qualifications, present salary, and the names of two referees, should be sent to the undersigned not later than the 12th December, 1949.

CHARLES PHYTHIAN,

Clerk of the County Council.
Shire Hall, Castle Hill, Cambridge. 2734

WEST SUSSEX COUNTY COUNCIL.

Applications are invited from suitably qualified candidates for the post of **ARCHITECTURAL ASSISTANT** at the County School of Art and Crafts, Worthing. The person appointed will be required to assist with the teaching of Architecture up to Intermediate R.I.B.A. standard. Salary in accordance with Burnham Technical Scale for Assistant Teachers. Forms of application may be obtained from the Director of Education, County Hall, Chichester, on receipt of a stamped (2d.), addressed, foolscap envelope, and completed forms should be returned by not later than 14 days from the appearance of this advertisement.

T. C. HAYWARD,

Clerk of the County Council.
2730

CANTERBURY EDUCATION COMMITTEE.
COLLEGE OF ART.
SCHOOL OF ARCHITECTURE.

Required as soon as possible two Full-time **STUDIO MASTERS**, for work in connection with the Finals Course. The College is approved by the R.I.B.A. as a Listed School. Candidates must be Associates or Fellows of the R.I.B.A., preferably school trained and with some professional experience in Architecture. Previous teaching experience is desirable, but not essential. Salary scale: £300, plus £15 to £555, plus a graduate allowance of £30. Up to ten increments may be allowed for suitable professional experience. Applications, giving full particulars of training, qualifications and experience, should be sent to the Principal as soon as possible.

N. POLMEAR, M.A.,

Chief Education Officer.
78, London Road, Canterbury. 2729

COUNCIL OF THE COUNTY OF ABERDEEN.
PLANNING DEPARTMENT.

Applications are invited for the undermentioned posts in the County Planning Officer's Department:

(1) **ASSISTANT COUNTY PLANNING OFFICER.** Salary £595 to £760 per annum. Placing within the scale may be granted according to the successful candidate's qualifications and experience. Applicants should have a qualification in Town and Country Planning.

(2) **TWO PLANNING ASSISTANTS.** Salary £390 to £495 per annum. Placing within the scale may be granted according to the successful candidate's qualifications and experience. Applicants should have experience of the technical duties of a Local Planning Authority.

(3) **TWO JUNIOR PLANNING ASSISTANTS.** Salary £205 at age 21, rising according to scale to £385 per annum. Applicants should have some knowledge of surveying and draughtsmanship.

All the above appointments are subject to the Local Government Superannuation (Scotland) Act, 1937, and the successful candidates will require to pass a medical examination.

Conditions relating to the appointments and forms of application may be obtained from the undersigned, with whom completed application forms should be lodged not later than 12 noon on Monday, 12th December, 1949.

Canvassing members of the Council, directly or indirectly, in connection with the appointments, will disqualify the candidate.

CHAS. HORNAL,

County Clerk.
County Buildings, 22, Union Terrace,
Aberdeen. 2736

NATIONAL COAL BOARD—WEST MIDLANDS DIVISION.

Applications are invited for the appointment of **ARCHITECTS, Grade II**, in the Board's Architect's Department, with Headquarters at Himley Hall, near Dudley, Worcs.

Salary scale £450 × £25—£700 per annum, according to qualifications and experience.

Applicants should be Associate Members of the R.I.B.A., with experience in the preparation of Sketch Plans, Working Drawings, Specifications, and supervision of Contracts.

Posts are eligible for the Board's Superannuation Scheme.

Applications, giving age, education, qualifications and experience, with dates in chronological order, should be made as soon as possible to:—

ESTABLISHMENT OFFICER,

National Coal Board,
West Midlands Division,
Himley Hall, near Dudley, Worcs.
Only those to be interviewed will be notified. 2720

CITY AND COUNTY OF BRISTOL.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent staff appointments:—

SENIOR ASSISTANT ARCHITECTS:

(a) Grade VIII (£686-£760).

(b) Grade V (£520-£570).

ASSISTANT ARCHITECTS:

(c) Grade IV (£480-£525).

(d) Grade III (£450-£495).

(e) Grade II (£420-£465).

Applicants for appointment (a) should be Associate Members of the R.I.B.A. or hold equivalent qualification, and have good general experience in design and construction, particularly in relation to Housing; experience in Local Authority Office work will be an advantage.

Applicants for appointment (b) should also be Associate Members of the R.I.B.A. or hold equivalent qualification.

Appointments are subject to provisions of Local Government Superannuation Acts, 1937 and 1939, and successful applicants required to pass medical examination. All appointments terminable by one month's notice in writing on either side.

Housing accommodation provided, if necessary, at an economic rent.

Applications, indicating specific appointment applied for, stating age, training, qualifications, experience, present appointment and salary and the names of two referees, must be delivered to the undersigned not later than Tuesday, 29th November, 1949.

J. NELSON MEREDITH, F.R.I.B.A.,

City Architect.
Eagle House, Colston Avenue, Bristol, 1.
14th November, 1949. 2719

BOROUGH OF DROITWICH.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the Borough Surveyor's Department of the Council.

The salary will be in accordance with Grade III of the A.P. and T. Division of the National Scale of Salaries (£450-£495 per annum).

The appointment will be subject to one month's notice on either side and to the provision of the Local Government Superannuation Act, 1937, and the passing of a satisfactory medical examination.

Applications, stating age, training, qualifications and experience, together with copies of two recent testimonials, are to be delivered to the undersigned not later than mid-day on Friday, 2nd December, 1949.

S. G. FOSTER,

Town Clerk.
Town Hall, Droitwich.
November, 1949. 2704

BOROUGH COUNCIL OF ENNISKILLEN.
APPOINTMENT OF ARCHITECTURAL STAFF.

The Borough Council of Enniskillen invites applications for the following posts in the Architectural and Planning Department:—

(1) **ONE ASSISTANT ARCHITECT AND PLANNING OFFICER.** The consolidated salary of the successful candidate will be fixed within the range of from £450 to £600 per annum, according to qualifications and experience.

(2) **ONE ARCHITECTURAL ASSISTANT.** The consolidated salary of the successful candidate will be fixed within the range of from £350 to £450 per annum, according to qualifications and experience.

The persons appointed will be engaged on the preparation of plans, etc., for the Council's Housing Schemes, Planning Schemes, and other public work.

The appointments will be on a temporary basis, but as far as can be foreseen will last for several years, and may be terminated at any time by one month's notice in writing on either side. Preference will be given to suitably qualified ex-Servicemen.

Applications, stating age and giving full particulars of qualifications and experience, together with copies of two recent testimonials, to be delivered to the undersigned not later than 12 noon on Saturday, 3rd December, 1949.

NOBLE J. CONNOR,

Town Clerk.
Town Clerk's Office, Town Hall,
Enniskillen, N. Ireland.
11th November, 1949. 2707

COUNTY BOROUGH OF BURNLEY.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(1) **SENIOR ARCHITECTURAL ASSISTANT.**

Grade V (£520-£570 per annum).

(2) **ARCHITECTURAL ASSISTANT.** Grade III (£450-£495 per annum).

Applicants for appointment (1) should be Associates of the Royal Institute of British Architects or hold equivalent qualifications, and considerable experience in the design and construction of Educational and General Municipal buildings is essential.

Applicants for appointment (2) should have passed the Intermediate Examination of the Royal Institute of British Architects or its equivalent and have had good general experience in a Municipal office, preference being given to applicants with experience in housing work.

Conditions of service are those formulated by the National Joint Council, and the appointments are on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937, the successful applicants being required to pass a medical examination. The appointments are terminable by one month's notice on either side.

Canvassing, either directly or indirectly, will disqualify the candidates, and any relationship to a member or senior officer of the Council must be clearly stated in the application.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Burnley, to whom applications should be returned in the envelope provided not later than 9 a.m. on Saturday, the 10th December, 1949.

C. V. THORLEY,

Town Clerk.
Town Hall, Burnley.
November, 1949. 2740

NORTHUMBERLAND COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited from persons with suitable qualifications for the following appointments:—

(a) **ONE SENIOR PLANNING OFFICER**, at a salary in accordance with Grade VIII (A.P.T.) of the National Joint Council's scale of salaries (£685-£760 a year).

(b) **THREE SENIOR PLANNING ASSISTANTS**, at a salary in accordance with Grade VI (£595-£660).

(c) **TWO PLANNING ASSISTANTS**, at salaries in accordance with Grade II (£420-£465).

(d) **ONE PLANNING ASSISTANT**, at a salary in accordance with Grade I (£390-£435).

Candidates for appointment (a) should be Members of the Royal Institute of British Architects, the Royal Institution of Chartered Surveyors, or the Institute of Civil Engineers, and should preferably be Corporate Members of the Town Planning Institute, and possess recent practical experience in the control of development. Candidates for appointments (b) should be Members of the Town Planning Institute or hold a professional qualification of the Royal Institution of British Architects or the Royal Institution of Chartered Surveyors. Candidates for appointments (c) and (d) should have had training or experience in planning work.

The appointments (which are whole-time ones, at offices in Newcastle-upon-Tyne) will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side, and each of the successful candidates will be required to pass a medical examination to the Council's satisfaction.

Applications, on forms to be obtained from the undersigned, must be submitted not later than the 3rd December, 1949.

E. P. HARVEY,

Clerk of the County Council.
County Hall, Newcastle-upon-Tyne, 1. 2708

UNIVERSITY OF SYDNEY.

Applications are invited for the post of SENIOR LECTURER in the Department of Town and Country Planning. Commencing salary will be fixed according to qualifications and experience within the range £750 (Australian) to £1,000 (Australian) per annum, plus cost-of-living adjustments, with annual increments of £50, and is subject to deductions under the New South Wales Superannuation Act. The appointment will be for a period of five years, subject to extension under such conditions as may be approved by the University of Sydney, and the successful applicant will be required to take up duties as early as practicable in 1950. Preference will be given to candidates with practical experience of planning work who have a special knowledge of regional planning. Further information may be obtained on application to the Secretary, Association of Universities of the British Commonwealth, 5, Gordon Square, London, W.C.1. Applications supported by testimonials and giving the names of three referees should be forwarded to reach the undersigned not later than 1st January, 1950, by airmail.

G. DALE,

Registrar.

University of Sydney, New South Wales, Australia. 2755

Amended Advertisement.

ISLE OF ELY COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments on the staff of the County Architect's Department:—

- (1) CHIEF ASSISTANT ARCHITECTS (TWO). Salary Grade VIII (£685×£25—£760).
- (2) SENIOR QUANTITY SURVEYOR. Salary Grade VII (£635×£25—£710).
- (3) SENIOR ASSISTANT ARCHITECT. Salary Grade VI (£595×£20—£660).
- (4) SECOND ASSISTANT ARCHITECT. Salary Grade V(a) (£550×£20—£610).
- (5) QUANTITIES CLERK. Salary Grade Miscellaneous (£315×£15—£360).

Commencing salaries in each grade to be according to qualifications and experience.

The appointments are permanent and are subject to the provisions of the National Scheme of Conditions of Service, to the Local Government Act, 1937, and to the passing of a medical examination.

The office is progressive, and excellent experience is available over the whole field of County Council building administration.

Forms of application may be obtained from the County Architect, County Hall, March, Cambs., and are to be returned not later than 12th December, 1949.

R. F. G. THURLOW,

Clerk of the County Council.

County Hall, March. 17th November, 1949. 2745

CITY OF NOTTINGHAM EDUCATION COMMITTEE. COLLEGE OF ART AND CRAFTS.

Principal: ALFRED H. ROWLEY, A.R.C.A., Head of School of Architecture: D. W. NOTLEY, B.A. (Hons. Arch.) Lpool, A.R.I.B.A.

Applications are invited for a POST OF SPECIAL RESPONSIBILITY on the full-time teaching staff of the School of Architecture, which is recognised for exemption from the R.I.B.A. Intermediate 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 be fully qualified Architects and should preferably hold the degree or diploma of a Recognised School. Subject to the conditions governing full-time teaching service, the person appointed will be given such opportunities as may be practicable to maintain his/her professional practice. Salary: Burnham Scale, plus an additional allowance at the rate of £125 per annum for a post of special responsibility, and additional allowances if appropriate for (a) training, (b) graduation, (c) full-time professional experience, (d) previous recognised teaching service, and (e) service in H.M. Forces or the recognised equivalent. Application forms can be obtained from the Principal, College of Art and Crafts, Waverley Street, Nottingham, to whom they should be returned within 14 days of the publication of this advertisement.

F. STEPHENSON,

Director of Education.

Education Office, South Parade, Nottingham. 2754

NORTHERN IRELAND HOUSING TRUST. APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the post of Assistant Architect, on the salary scale £700×£25—£900. Commencing salary will be determined by experience and qualifications. A pension scheme will be available.

Applicants must be Fellows or Associates of the Royal Institute of British Architects. Successful candidates will be engaged on the design, layout and preparation of working drawings, and the supervision of works for Urban and Rural Estates. Experience in the design of Community Buildings and Shops will be an advantage.

Assistance will be given in obtaining housing accommodation if necessary.

Preference will be given to ex-Service candidates. Application should be made not later than 16th December, 1949, on forms which may be obtained from:—

THE GENERAL MANAGER.

Northern Ireland Housing Trust, 5, Donegall Square South, Belfast. 2726

BOROUGH OF LEYTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

ARCHITECTURAL ASSISTANTS.

Applications are invited for the appointment of THREE ARCHITECTURAL ASSISTANTS in the Department of the Borough Engineer and Surveyor.

The salaries attaching to the posts will be:—
One Chief Architectural Assistant, Grade VII, £635 to £710;
One General Architectural Assistant, Grade VI, £595 to £660;
One General Architectural Assistant, Grade IV, £480 to £525,

plus London weighting, in accordance with the National Joint Council's Scheme of Conditions of Service for Local Authorities' Administrative, Professional, Technical and Clerical Services.

Candidates should possess the recognized architectural qualifications (preferably A.R.I.B.A.), and have had good Municipal experience.

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

Canvassing, directly or indirectly, will be a disqualification, and candidates must disclose in their application whether they are related to any member or senior officer of the Council.

Applications, stating age, details of qualifications and experience, together with copies of three recent testimonials, are to be delivered to the Borough Engineer and Surveyor, not later than the 10th December, 1949, in a sealed envelope, and endorsed "Architectural Assistant."

D. J. OSBORNE,

Town Clerk.

Town Hall, Leyton, E.10. 10th November, 1949. 2714

COUNTY BOROUGH OF HUDDERSFIELD. BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

- (1) SENIOR TOWN PLANNING ASSISTANT. Grade VI-VII, £595-£710 (salary to commence in Grade VI, appropriate to experience). Candidates must have had considerable experience in all aspects of statutory planning, development control, and planning procedure in general. Candidates should be Associate Members of the Town Planning Institute, and in addition, should have either an Engineering, Surveying or Architectural qualification.
- (2) TOWN PLANNING ASSISTANT. Grade II, £420-£465. Candidates must have had experience in Survey Work and Development Control in a Planning Office.

Housing accommodation will be made available, if necessary, and candidates are requested to state in their application if such accommodation is required.

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

Applications, suitably endorsed, giving age, qualifications, past and present appointments, and full details of experience, together with the names of three referees, must reach the Borough Architect, High Street Buildings, Huddersfield, not later than Monday, the 12th December, 1949.

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

HARRY BANN,

Town Clerk.

Town Hall, Huddersfield. November, 1949. 2752

Applications are invited for the following posts in the New South Wales Department of Technical Education:

ARCHITECTURE (BUILDING TECHNOLOGY AND BUILDING SCIENCE).

- (1) SENIOR LECTURER.

Salary £951 p.a. (Australian), ranging to £1,101 p.a.

- (2) LECTURER.

Salary £736 p.a. (Australian), ranging to £986 p.a.

Commencing rate in each instance dependent upon qualifications and experience.

Applicants should possess a Degree or Diploma, preferably in the Honours grade, or equivalent qualification, in Building, Civil Engineering, Structural Engineering or Architecture. Systematic training in building science and some practical experience in building are essential.

The successful applicants will be required to lecture to students undertaking Degree and/or Diploma courses in Building, Architecture and Quantity Surveying. Successful applicants will be considered for transfer at a later stage to the staff of the University of Technology.

Applicants should clearly indicate:—

- (a) Academic training and qualifications, post-graduate study.
- (b) Practical experience, including teaching experience.

Appointees will be required to contribute to the New South Wales Superannuation Fund, and the appointment will be subject to the furnishing of satisfactory evidence of physical fitness.

Actual travelling expenses of the appointee and his family will be allowed and the salary will commence when the appointee takes up his duty in New South Wales.

Six copies of applications, stating age, educational career, experience and other qualifications (also six copies of any testimonials and other supporting documents), must reach the Agent-General for New South Wales, 56, Strand, London, W.C.2, not later than the 9th December, 1949. 2746

SOUTH-EASTERN REGIONAL HOSPITAL BOARD (SCOTLAND).

CHIEF ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointment in the Chief Architect's Department, headquarters in Edinburgh.

ASSISTANT CHIEF ARCHITECT.

Salary scale £750×£25—£1,000 per annum. Applicants should be Members of the R.I.B.A. by examination or hold an equivalent qualification, and have had wide experience of the planning, design and construction of large building projects, preferably including hospital buildings.

The scope of the work will include the planning and design of new hospitals, etc., and applicants should possess a contemporary outlook on design.

The selected applicant will be required to deputise for the Chief Architect as and when required, and applicants should have had wide administrative experience.

The post is subject to the provisions of the National Health Service (Scotland) (Superannuation) Regulations, 1948, and the successful candidate will be required to pass a medical examination.

Applications, giving full details of age, education, technical training, qualifications, experience, present and previous appointments and salary, accompanied by copies of two recent testimonials and the names and addresses of two referees to whom reference may be made, should be addressed to R. Forbes Hutchison, Chief Architect, 6, Cambridge Street, Edinburgh, 1, on or before Tuesday, 6th December, 1949.

18th November, 1949. 2753

KENT COUNTY COUNCIL.

Applications are invited for the appointment on the permanent staff of the Buildings Department of ASSISTANT ARCHITECTS, at a salary in Grade A.P.T. V(a) (£550-£610).

Applicants must be Members of the Royal Institute of British Architects and have had experience in the preparation of sketch schemes and working drawings for modern building. Previous experience with a local authority is not essential.

The posts are superannuable, and the successful candidates will be required to pass a medical examination.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, must be delivered to him not later than 14 days after the appearance of this advertisement.

W. L. PLATTS,

Clerk of the County Council.

County Hall, Maidstone. 17th November, 1949. 2756

DURHAM RURAL DISTRICT COUNCIL. HOUSING ARCHITECT'S DEPARTMENT.

APPOINTMENT OF TEMPORARY ASSISTANT ARCHITECT.

Applications are invited for the appointment of Assistant Architect on the temporary staff of the Architect's Department, at a salary in accordance with Grade III of the National Scales, viz., £450-£495.

Applicants should have extensive experience in Local Authority Housing and be able to undertake surveys and levelling.

The person appointed will be required to provide a car, for which an allowance not exceeding that for a 10 h.p. car based on the National Scales will be paid.

A Council house will be made available for the successful applicant, if required.

The appointment will be subject to (a) the National Scheme of Conditions of Service, (b) termination by one month's notice on either side; (c) the Local Government Superannuation Act, 1937, and (d) medical examination.

Applications, on forms to be obtained from the undersigned, should be received not later than first post on Saturday, 3rd December, 1949.

Canvassing will be a disqualification, and applicants should disclose whether to their knowledge they are related to any member or senior officer of the Council.

ROSAMOND TAYLOR,

Clerk to the Council.

Byland Lodge, Hawthorn Terrace, Durham City.

12th November, 1949. 2705

WELSH REGIONAL HOSPITAL BOARD.

Applications are invited for the following permanent posts on the Board's Headquarters Staff:—

ARCHITECT'S DIVISION:

- (a) ASSISTANT ARCHITECT. Salary A.P.T. Grade VIII (£685-£760).

- (b) ASSISTANT ARCHITECT. Salary A.P.T. Grade V (£520-£570).

- (c) ARCHITECTURAL ASSISTANT. Salary A.P.T., Grade III (£450-£495).

Applicants for posts (a) and (b) must be Registered Architects, and have passed the Final Examination of the R.I.B.A. They should have had wide experience in planning and construction, and in the preparation of working drawings for important hospital buildings. Applicants for post (c) must have passed the Intermediate Examination of the R.I.B.A.

The appointments are subject to the provisions of the National Health Service (Superannuation) Regulations, 1947 and 1948.

Applications, stating age, qualifications and experience, together with the names of two referees, should be addressed to the Secretary, Temple of Peace and Health, Cathays Park, Cardiff, so as to reach him not later than 15th December, 1949. 2748

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.

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ARCHITECTURAL ASSISTANTS required, Inter. Final standard; also **QUANTITY SURVEYING ASSISTANT** (Worker-up); salaries up to £500 p.a. Reply, stating age, experience, and salary required, to Ruddle & Wilkinson, F.R.I.B.A., Long Causeway Chambers, Peterborough. Telephone 2166. 2589

APPOINTMENT OF ARCHITECT.

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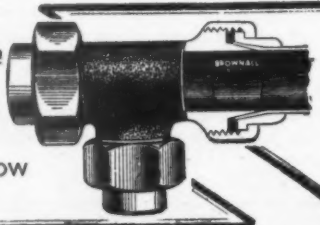
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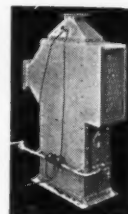
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