

THE ARCHITECTS' JOURNAL



Standard contents

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

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

IEE	Institution of Electrical Engineers.	Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society.	32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers.	17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers.	75, Eaton Place, S.W.1.	Sloane 3158
IIBD	Incorporated Institute of British Decorators.	Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects.	12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071	Museum 7197
IOB	Institute of Builders.	48, Bedford Square, W.C.1.	Monarch 7391
IR	Institute of Refrigeration.	Empire House, St. Martin's-le-Grand, E.C.1.	Abbey 6172
IRA	Institute of Registered Architects.	47, Victoria Street, S.W.1.	Sloane 7128-29
ISE	Institution of Structural Engineers.	11, Upper Belgrave Street, S.W.1.	Museum 9200
IWA	Inland Waterways Association.	11, Gower Street, W.C.1.	Whitehall 7264
LIDC	Lead Industries Development Council.	Eagle House, Jermyn Street, S.W.1.	Museum 3891
LMBA	London Master Builders' Association.	47, Bedford Square, W.C.1.	Euston 2158-9
MARS	MARS Group (English Branch of CIAM).	34, Gordon Square, W.C.1.	Whitehall 3400
MOA	Ministry of Agriculture and Fisheries.	55, Whitehall, S.W.1.	Mayfair 9400
MOE	Ministry of Education.	Curzon Street House, Curzon Street, W.1.	Whitehall 4300
MOH	Ministry of Health.	Whitehall, S.W.1.	Whitehall 6200
MOLNS	Ministry of Labour and National Service.	St. James's Square, S.W.1.	Gerrard 6933
MOS	Ministry of Supply.	Shell Mex House, Victoria Embankment, W.C.	Abbey 7711
MOT	Ministry of Transport.	Berkeley Square House, Berkeley Square, W.1.	Whitehall 8411
MOTCP	Ministry of Town and Country Planning.	32-33, St. James's Square, S.W.1.	Reliance 7611
MOW	Ministry of Works.	Lambeth Bridge House, S.E.1.	Abbey 1010
NAMMC	National Asphalte Mine-Owners and Manufacturers Council.	94, Petty France, S.W.1.	Abbey 5277/8
NAS	National Association of Shopfitters.	9, Victoria Street, S.W.1.	Kensington 8161
NBR	National Buildings Record.	37, Onslow Gardens, S.W.7.	Abbey 5111
NCBMP	National Council of Building Material Producers.	2, Caxton Street, S.W.1.	Langham 4041
NFBTE	National Federation of Building Trades Employers.	82, New Cavendish Street, W.1.	Macaulay 4451
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Whitehall 2881/2/3	Langham 4041
NFHS	National Federation of Housing Societies.	13, Suffolk St., S.W.1.	Molesley 1380
NHBRC	National House Builders Registration Council.	82, New Cavendish Street, W.1.	Abbey 1359
NPL	National Physical Laboratory.	Head Office, Teddington.	Whitehall 0211/2
NSAS	National Smoke Abatement Society.	Chandos House, Buckingham Gate, S.W.1.	Whitehall 7245
NT	National Trust for Places of Historic Interest or Natural Beauty.	42, Queen Anne's Gate, S.W.1.	Whitehall 9936
PEP	Political and Economic Planning.	16, Queen Anne's Gate, S.W.1.	Edinburgh 20396
RCA	Reinforced Concrete Association.	94, Petty France, S.W.1.	Langham 5721/7
RIAS	Royal Incorporation of Architects in Scotland.	15, Rutland Square, Edinburgh.	Whitehall 5322
RIBA	Royal Institute of British Architects.	66, Portland Place, W.1.	Whitehall 3935
RICS	Royal Institution of Chartered Surveyors.	12, Great George St., S.W.1.	Regent 3335
RFAC	Royal Fine Art Commission.	22A, Queen Anne's Gate, S.W.1.	Temple Bar 8274
RS	Royal Society.	Burlington House, Piccadilly, W.1.	Sloane 5134
RSA	Royal Society of Arts.	6, John Adam Street, W.C.2.	Wimbledon 5101
RSI	Royal Sanitary Institute.	90, Buckingham Palace Road, S.W.1.	Grosvenor Gardens, S.W.1.
RIB	Rural Industries Bureau.	35, Camp Road, Wimbledon, S.W.19.	Victoria 2186-8
SBPM	Society of British Paint Manufacturers.	Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Western 1571
SCR	Society for Cultural Relations with the USSR.	14, Kensington Square, London, W.8.	Abbey 7244
SE	Society of Engineers.	17, Victoria Street, Westminster, S.W.1.	Mansion House 3921
SFMA	School Furniture Manufacturers' Association.	30, Cornhill, London, E.C.3.	Central 4444
SIA	Structural Insulation Association.	14, Moorgate, London, E.C.2.	E.C.1. Metropolitan 8344
SIA	Society of Industrial Artists.	Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Scottish National Housing & Town Planning Council.
SNHTPC	Scottish National Housing & Town Planning Council.	Hon. Sec., Robert Pollock, Town Clerk, Ruthlerglen.	
SPAB	Society for the Protection of Ancient Buildings.	55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association.	28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association.	75, Cannon Street, E.C.4.	City 4771 (6 lines)
TGC	The Gas Council.	1, Grosvenor Place, S.W.1.	Sloane 4554
TPI	Town Planning Institute.	18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation.	81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission.	Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association.	61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association.	Lincoln House, Turl Street, Oxford	Oxford 47988

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[Vol. 111

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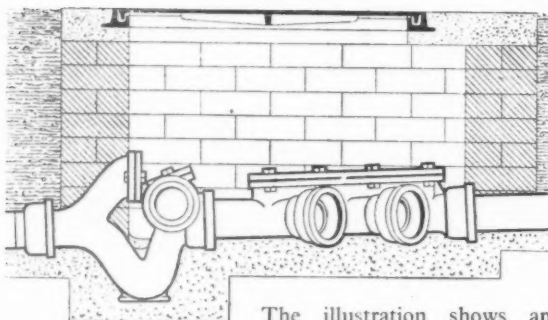
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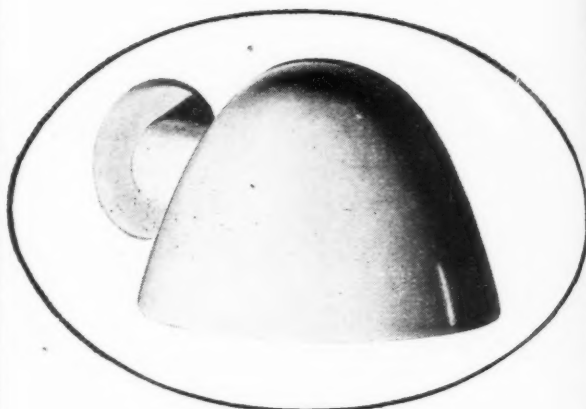
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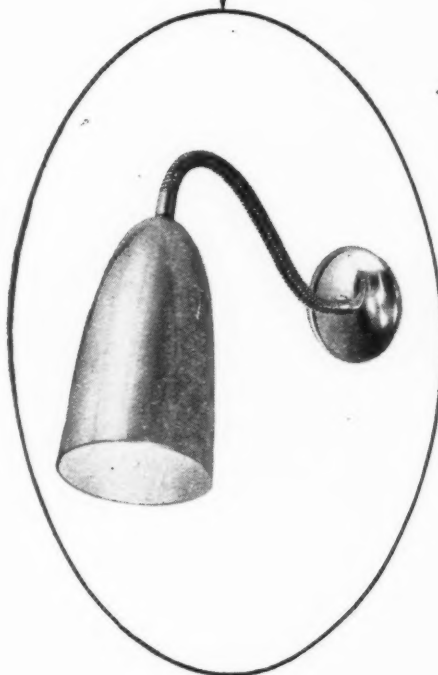
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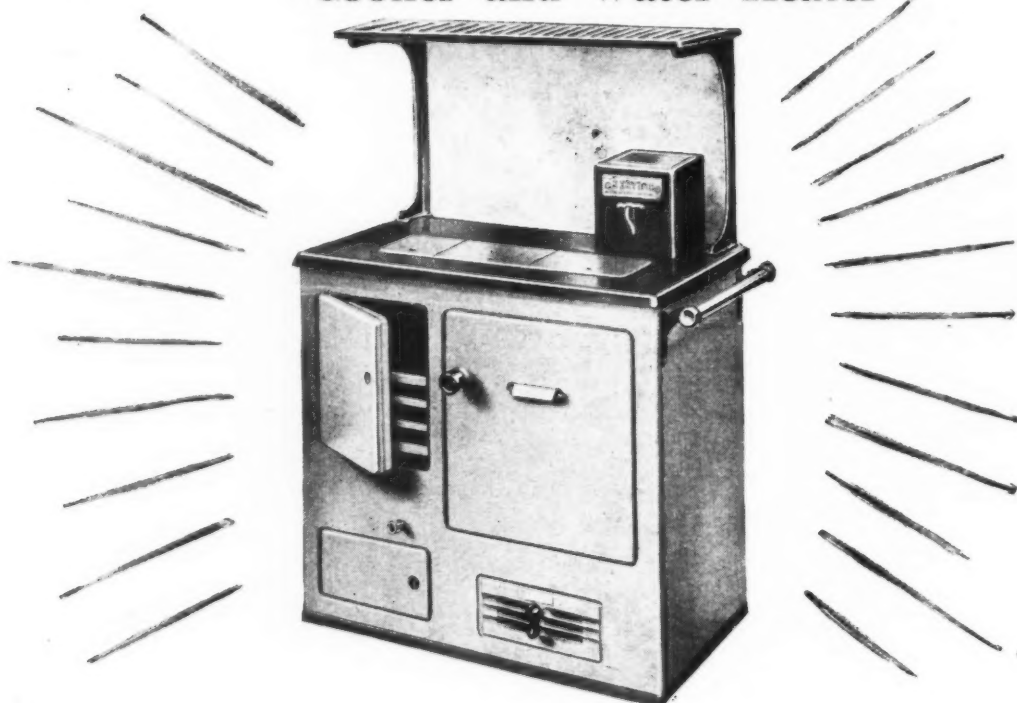
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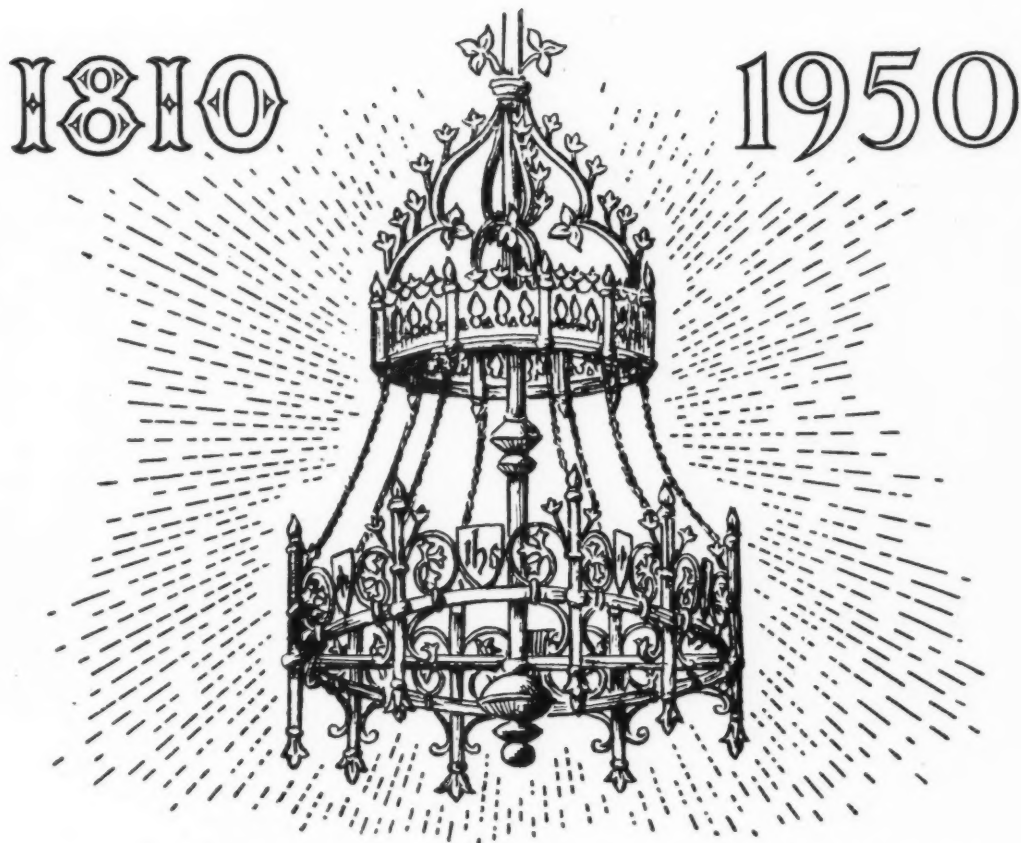
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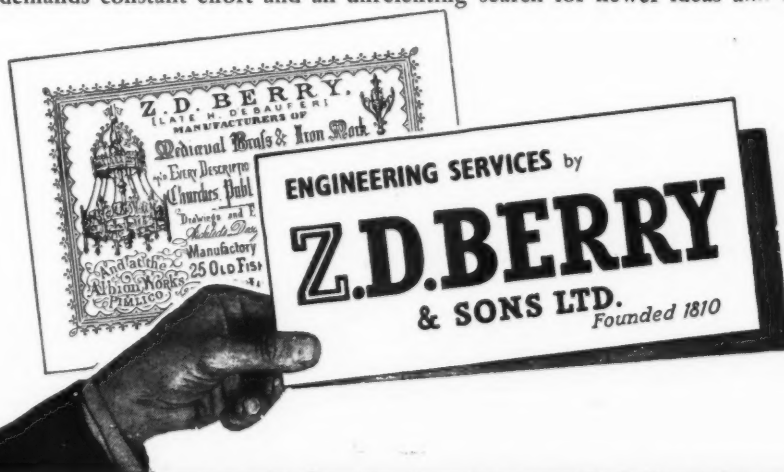
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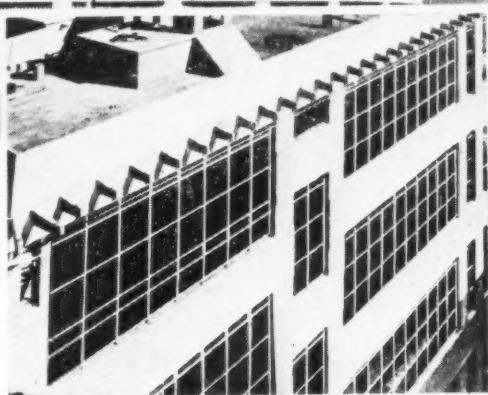
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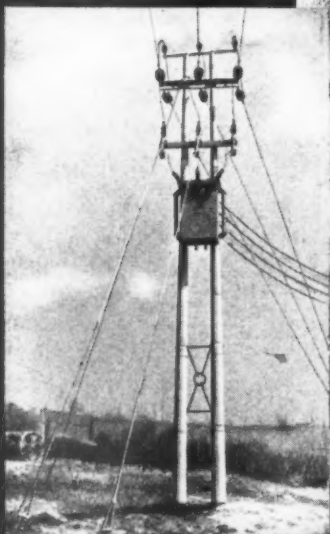


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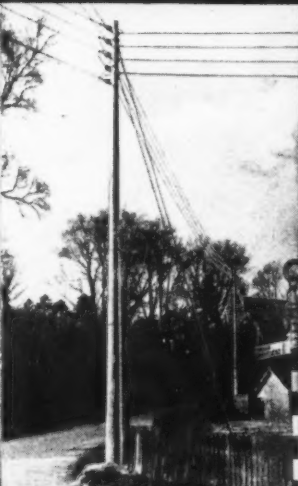
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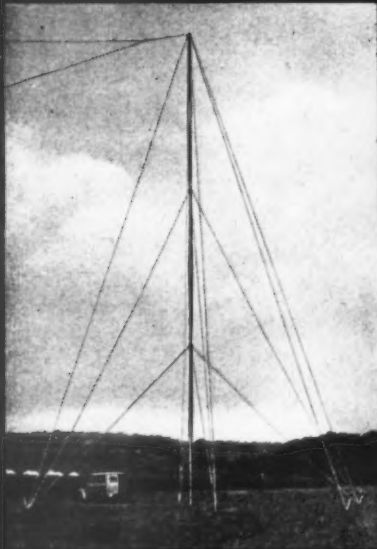
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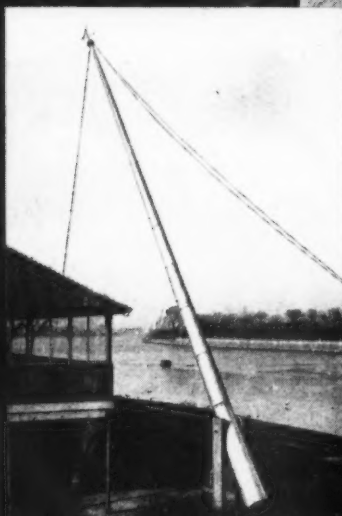
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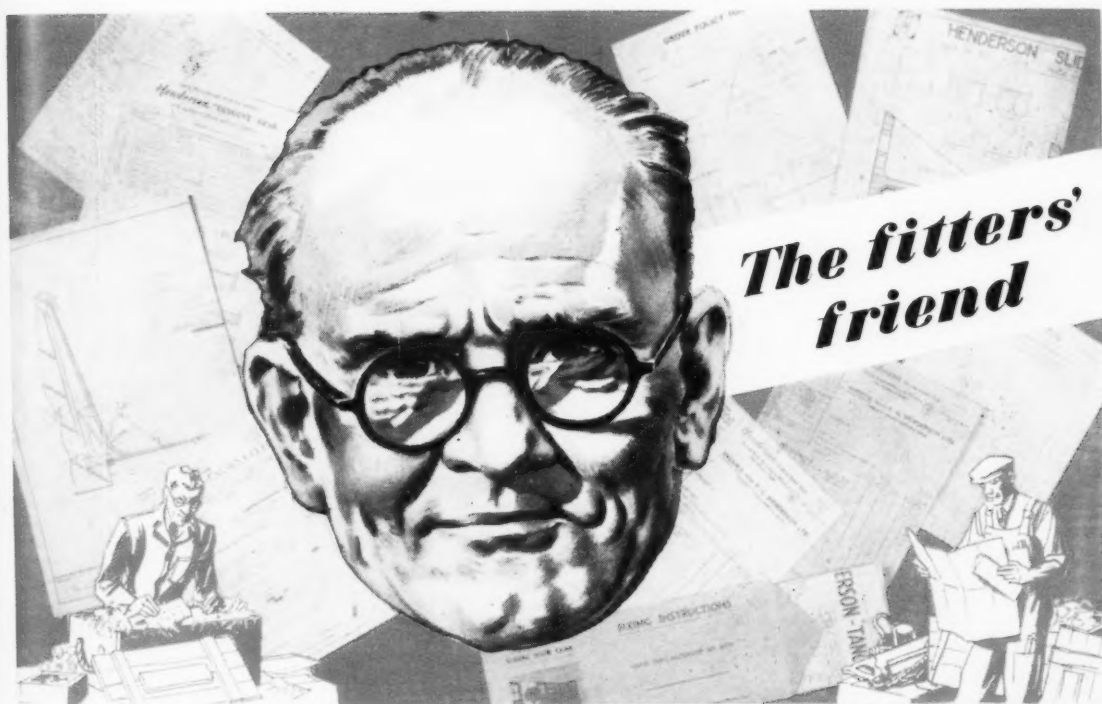


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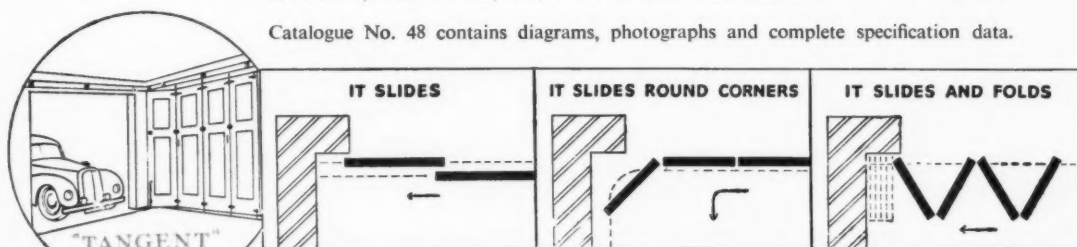
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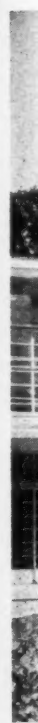


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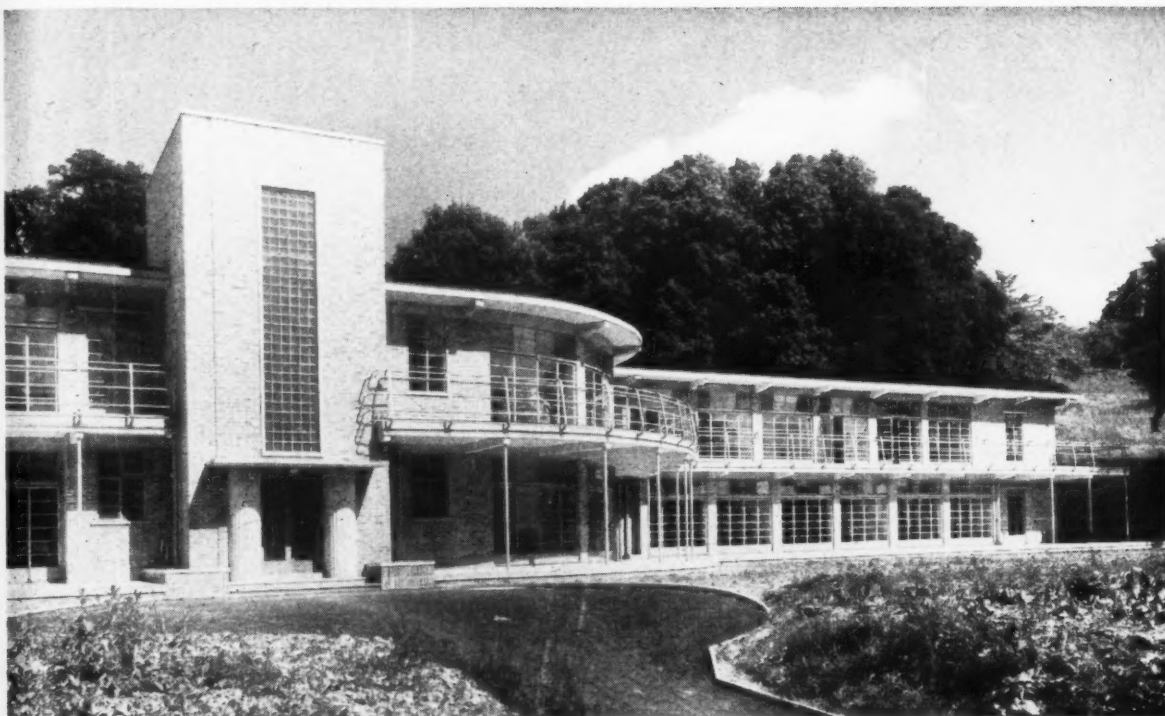
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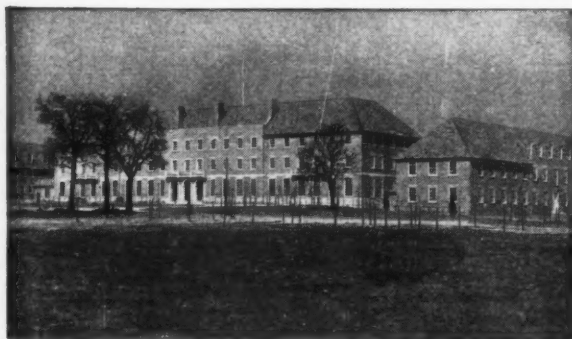
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My dear Roger,

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You and I want to know what will happen to a material when we put it into a house and we want it said in terms which a bear with very little brain can understand. (Just re-read House at Pooh Corner. What a deal of common sense it contains!)

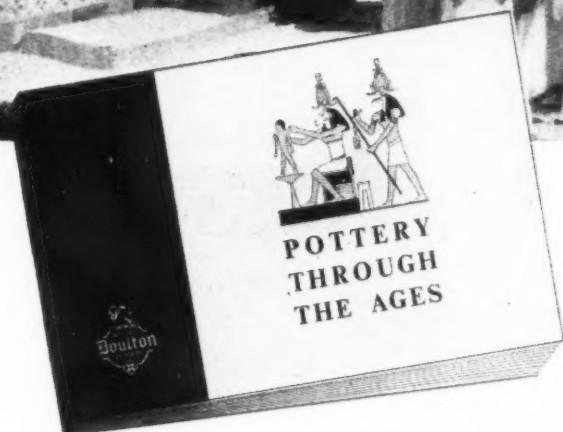
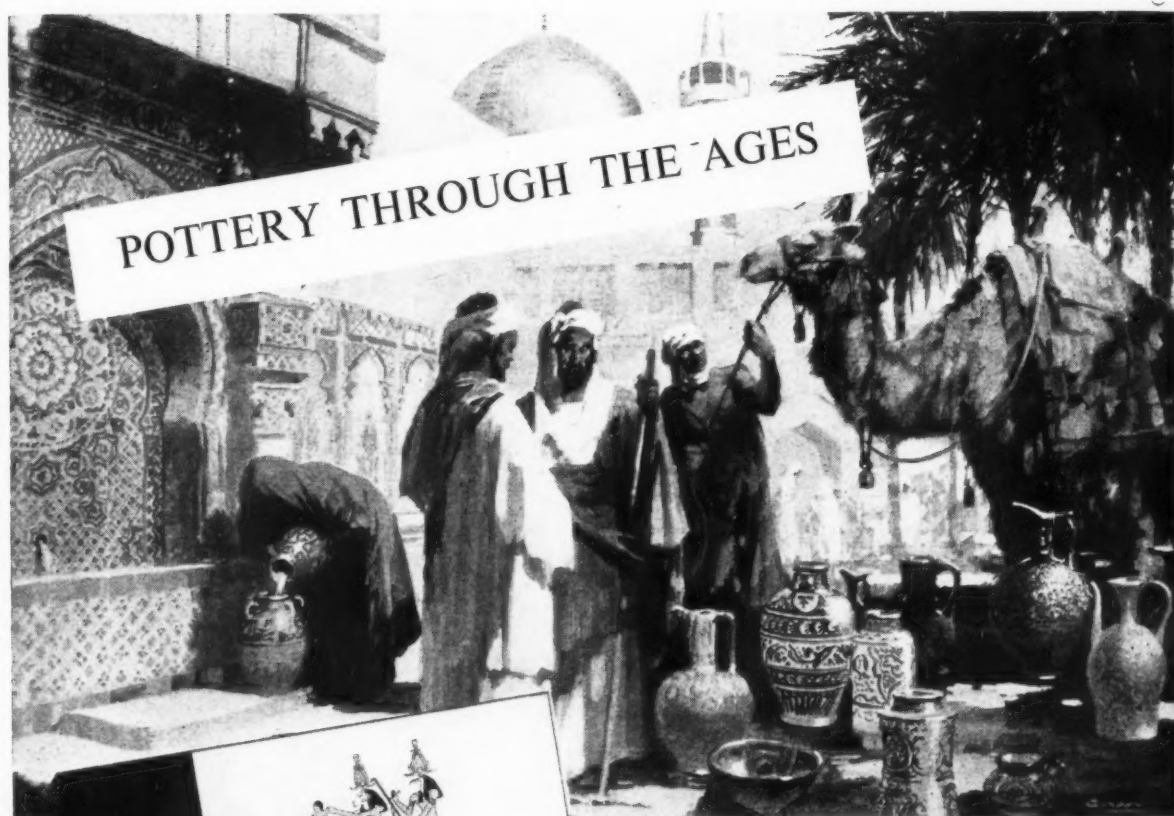
We don't want to know the "impact resistance in lbs. per sq. in." We want to know what happens when mother's darling quietly gets to work with father's hammer. The seat of little Tommy's pants may offer impact resistance and mother may throw hysterics but that's not the point. The point is that a houseowner wants to know how many tons of coal he shall save if he spends £X on lining his ceilings and roof with Keep-U-Warm insulation board. Then a very simple sum with a pencil and an old envelope will tell him whether it is worth the expense. And he expects you, or me, to give him the answer.

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Yours,

J.W. Kristie



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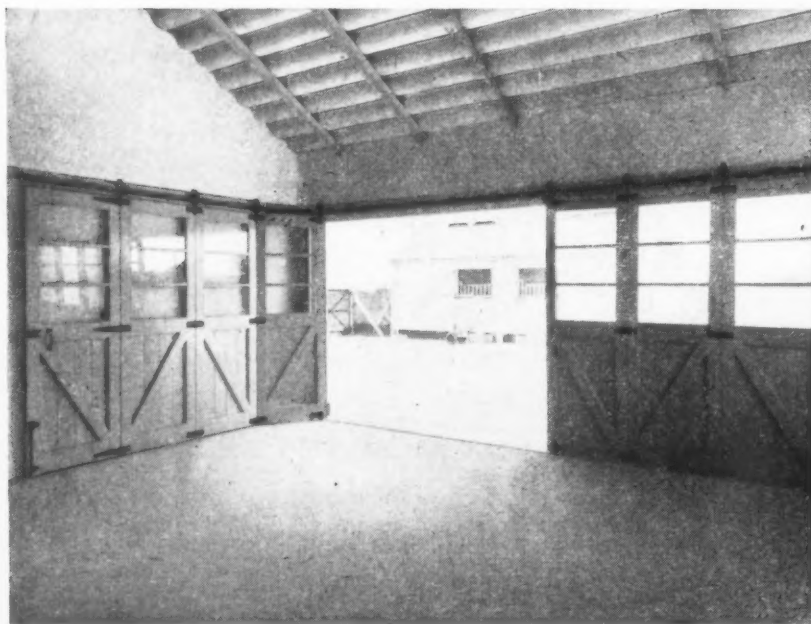
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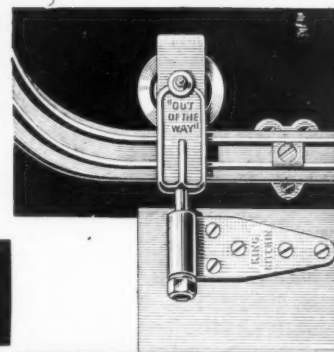
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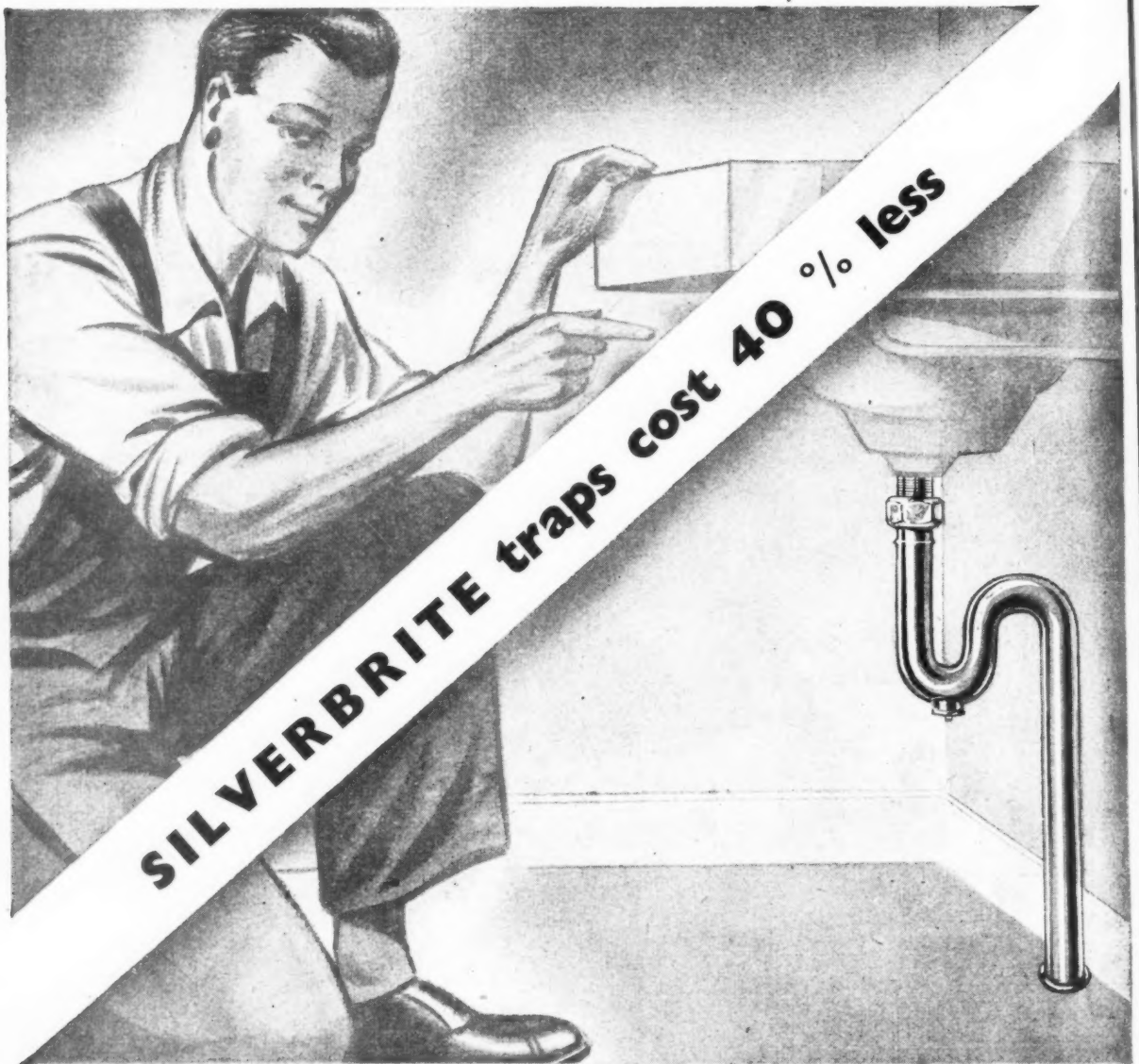


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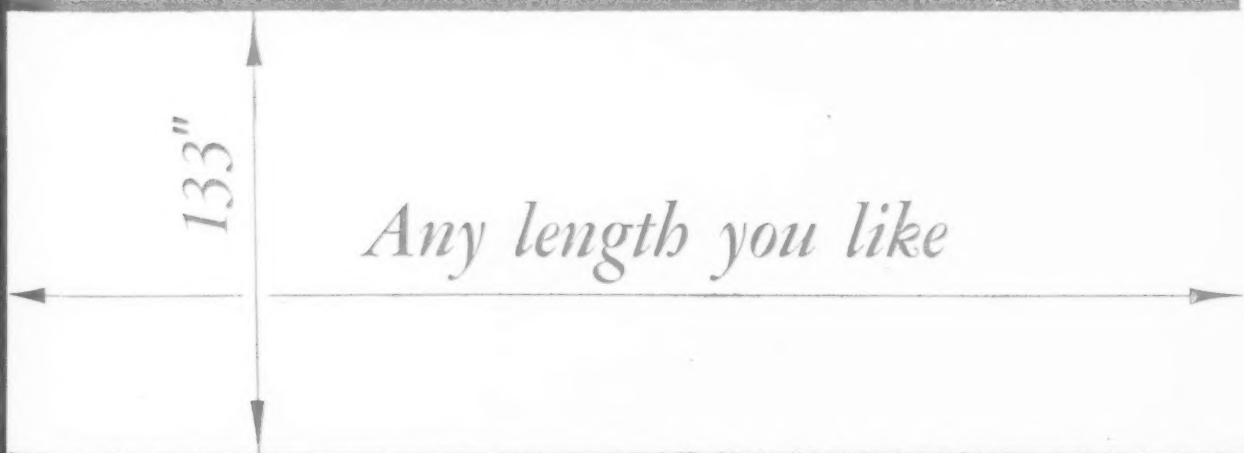
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Regent Street Quadrant 1825, 1840, 1848.

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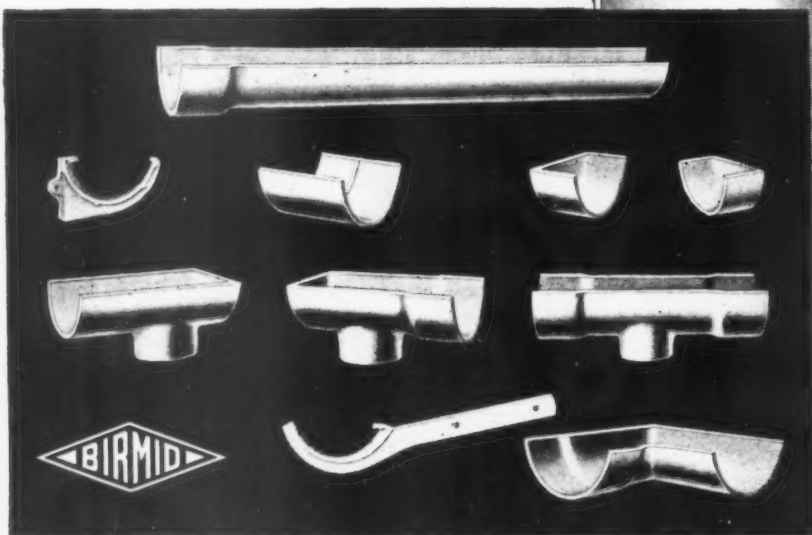
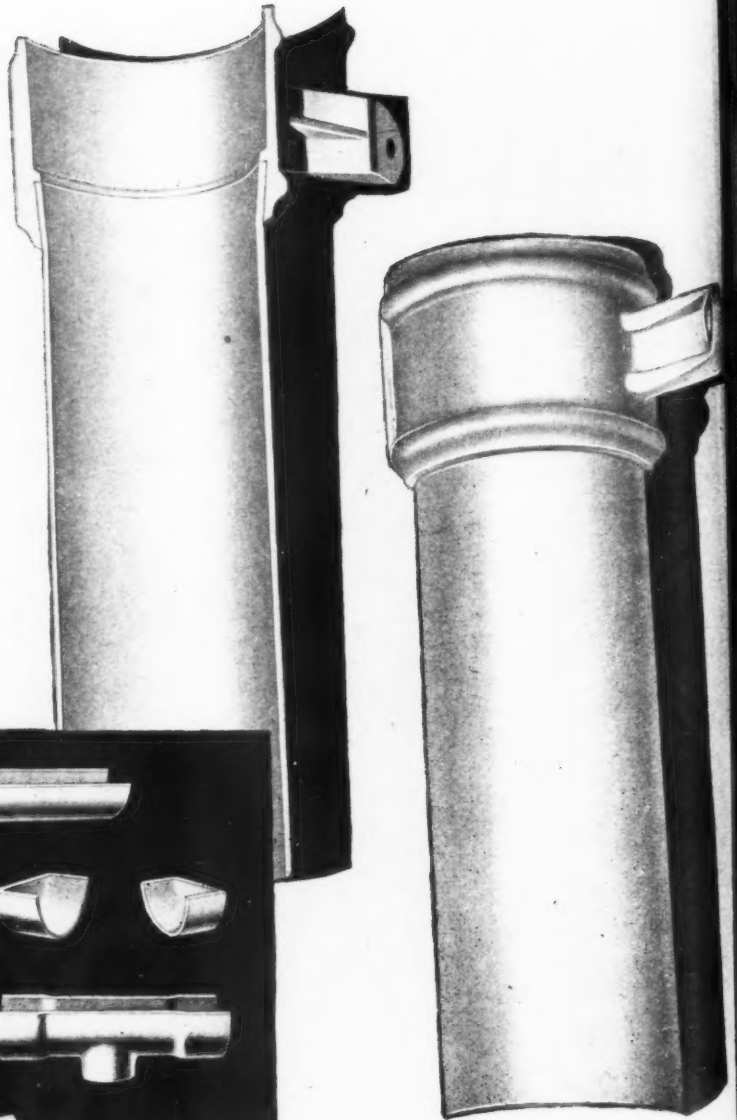
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★ The Colonnades were removed in 1848.

ALUMINIUM RAIN-WATER GOODS



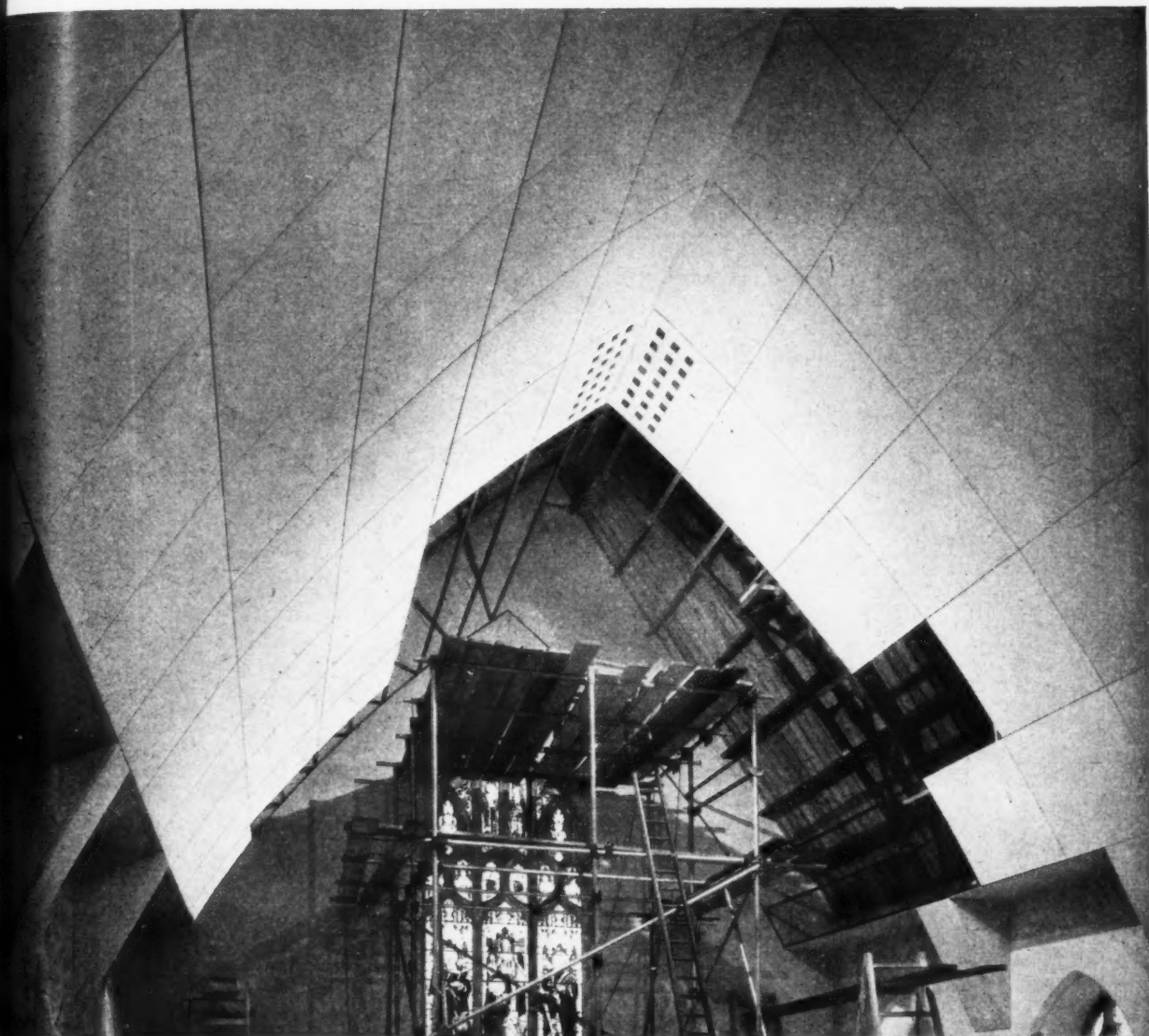
The "cast-on" socket (Patent No. 598,945) has been specially designed with the ears offset to eliminate the use of bobbins. The robust proportions and the strength of the aluminium alloy enable these projections to withstand rough handling in transit and on site. The rain-water pipes are made of extruded and drawn aluminium tubes which can be supplied in lengths up to 18 ft. A modern two-storey dwelling can be covered by a single pipe without the expense of jointing. Lightness, strength and ease of handling offer a worthwhile saving in erection costs



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Architects: Houchin, Harrison & Stevens, F.R.I.B.A.



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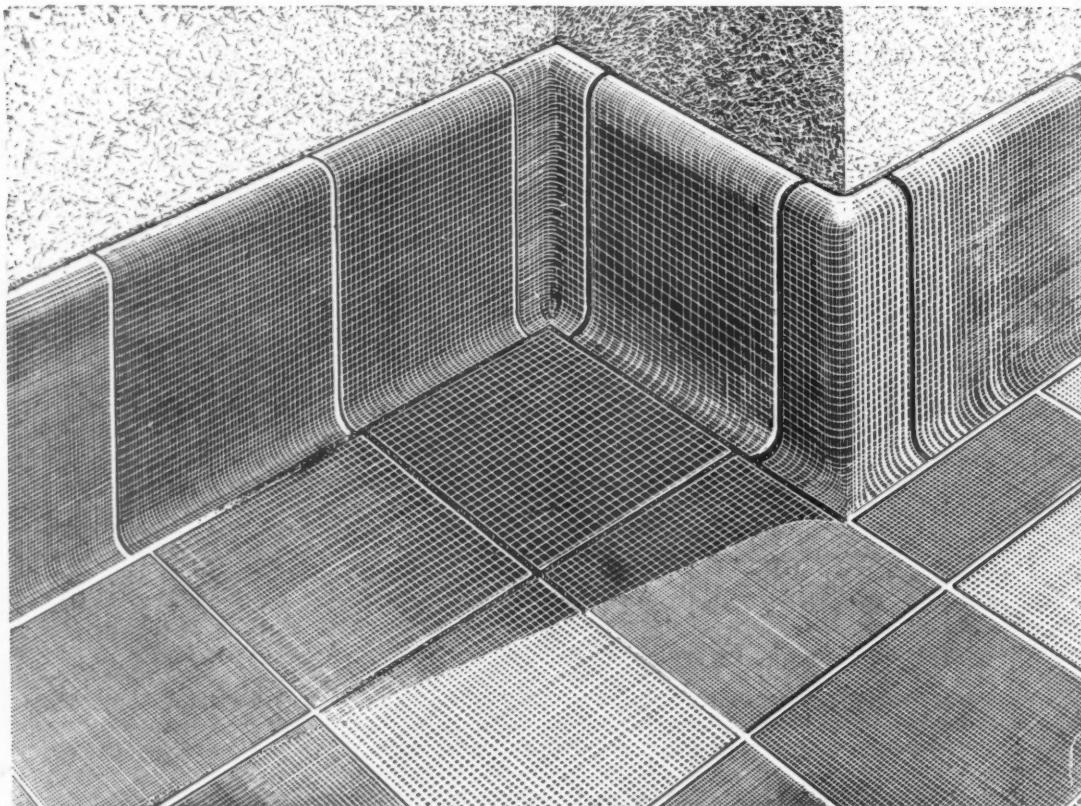
EIRE . . P AND I Ltd., 16 Christchurch Place, Dublin.
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Patent No. 519406

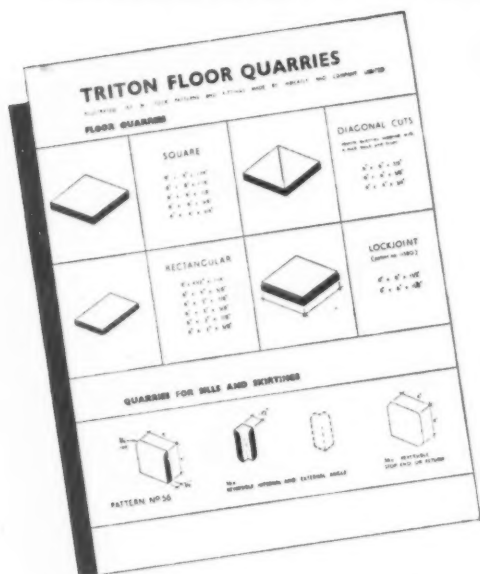


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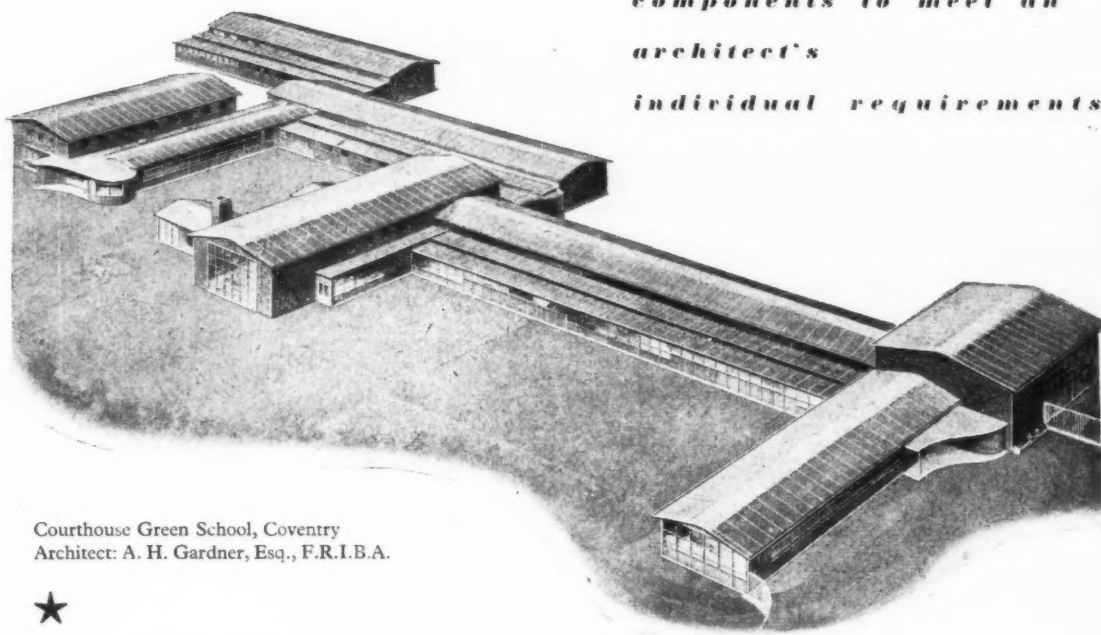
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Architect: A. H. Gardner, Esq., F.R.I.B.A.



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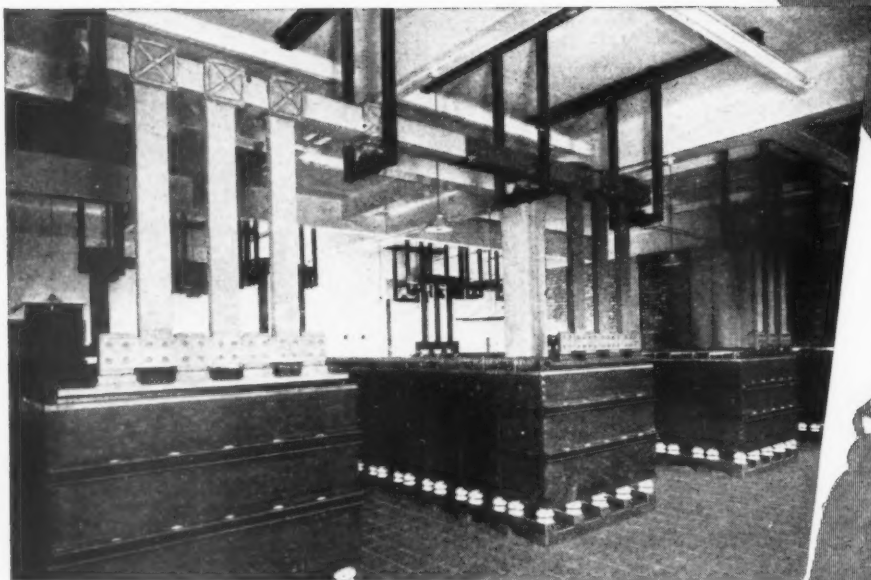
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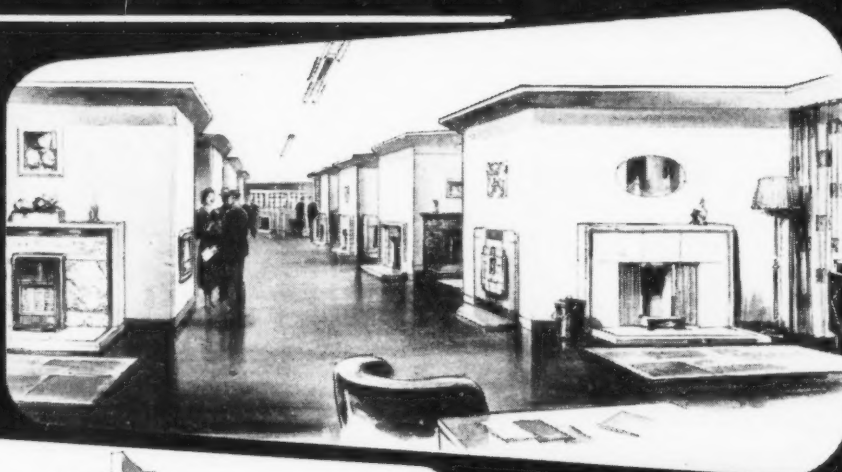
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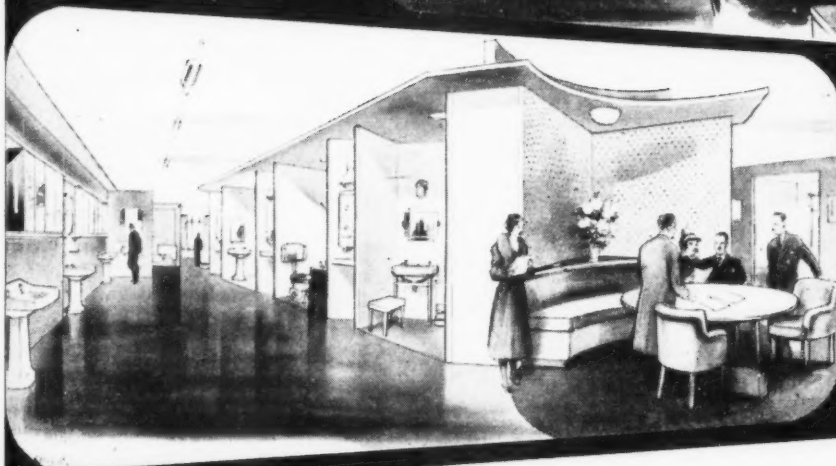
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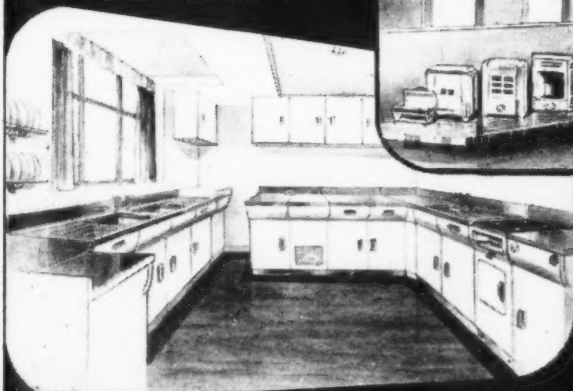
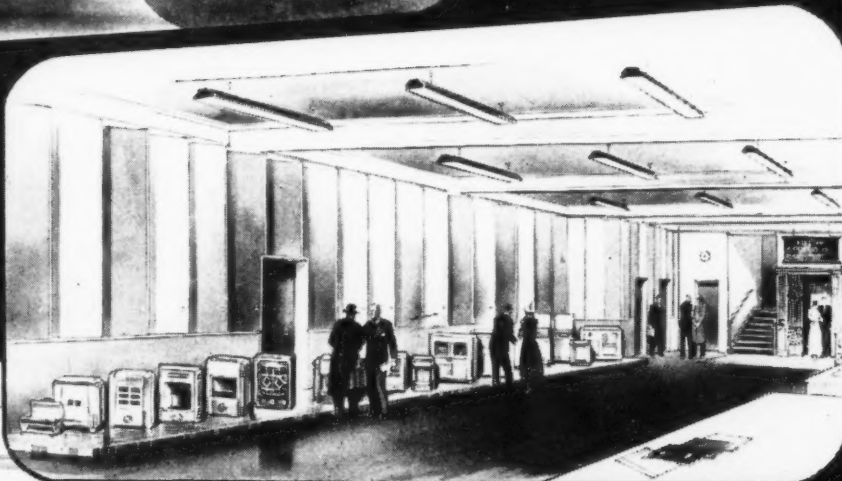


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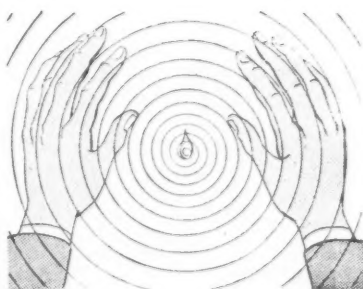
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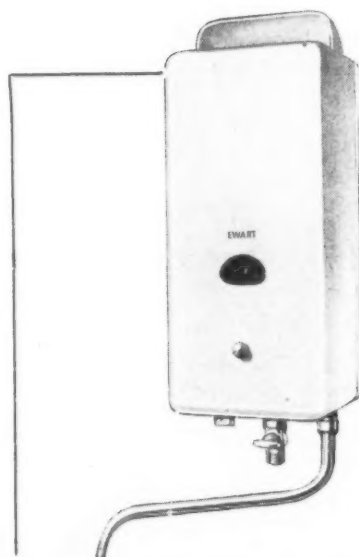
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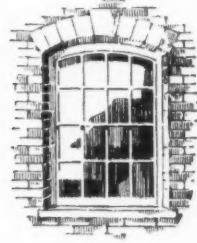
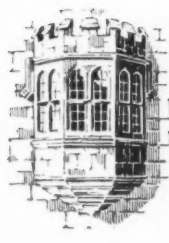
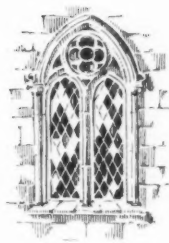
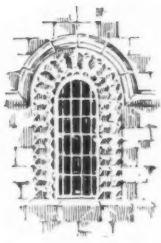
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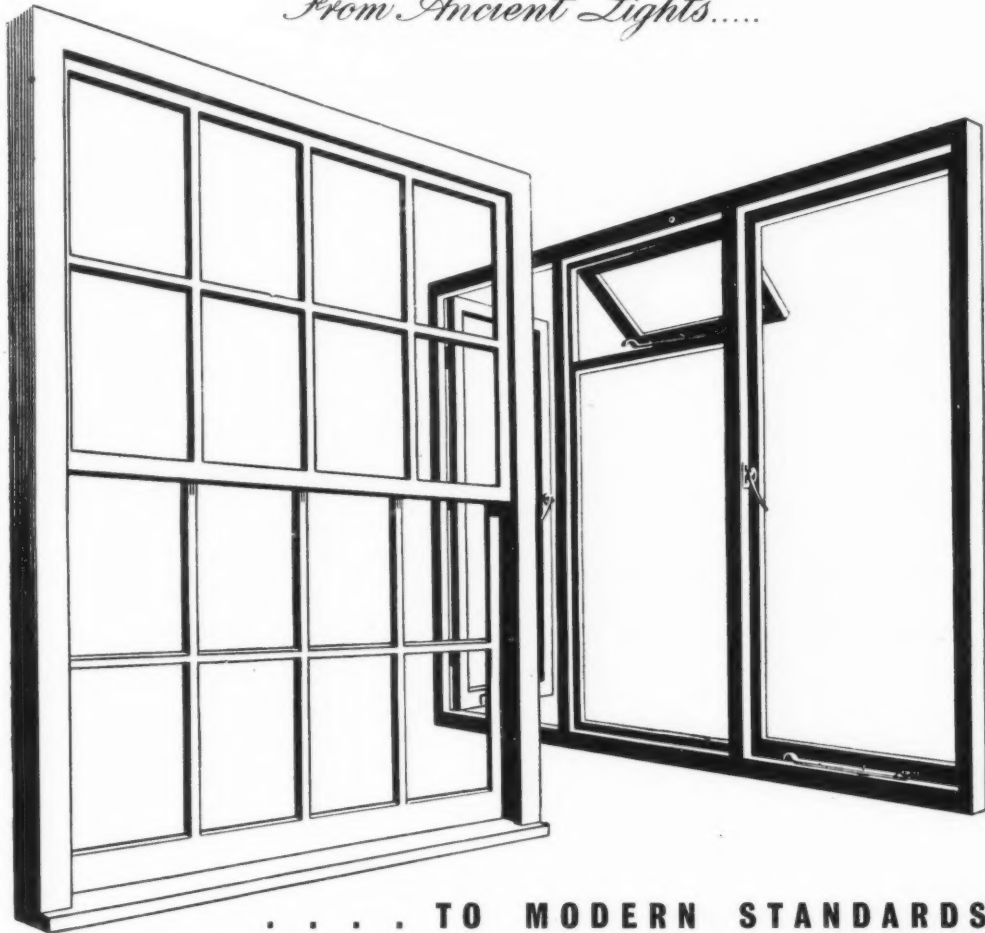
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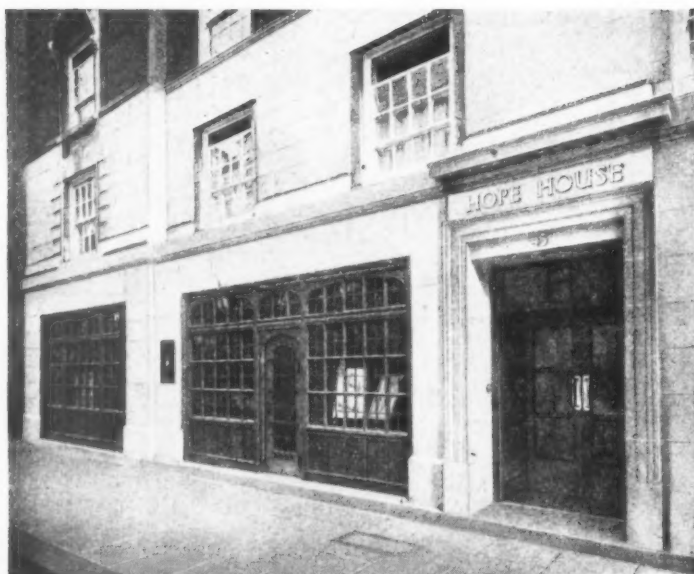


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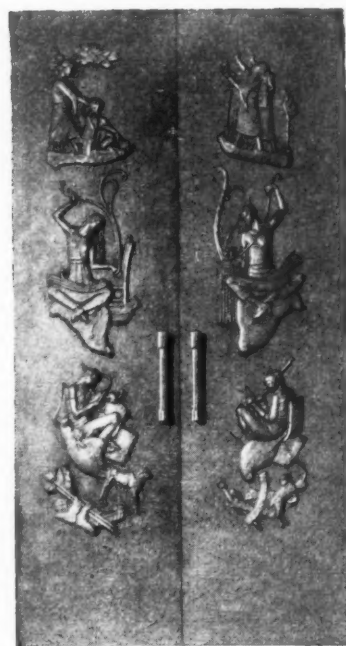


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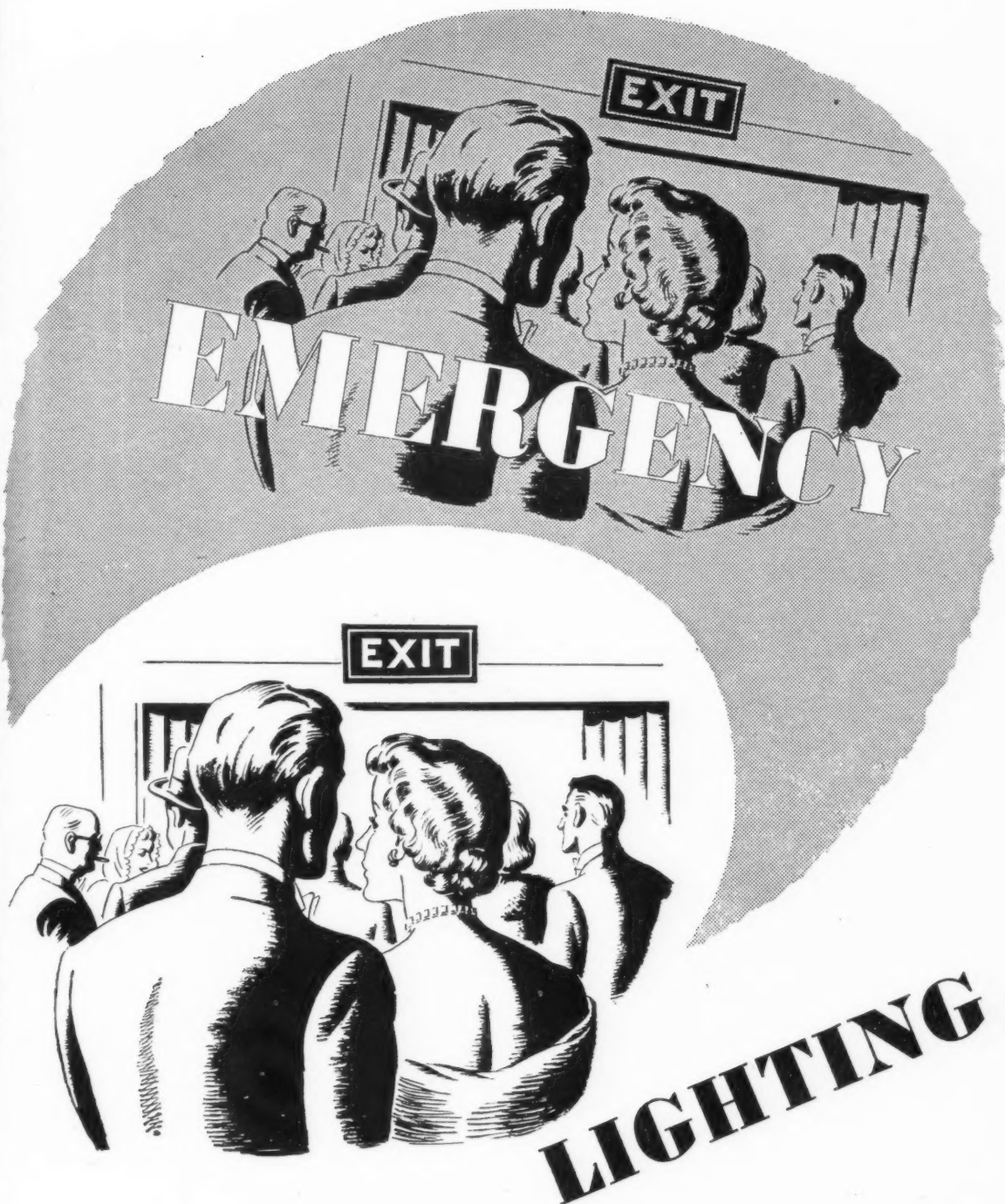
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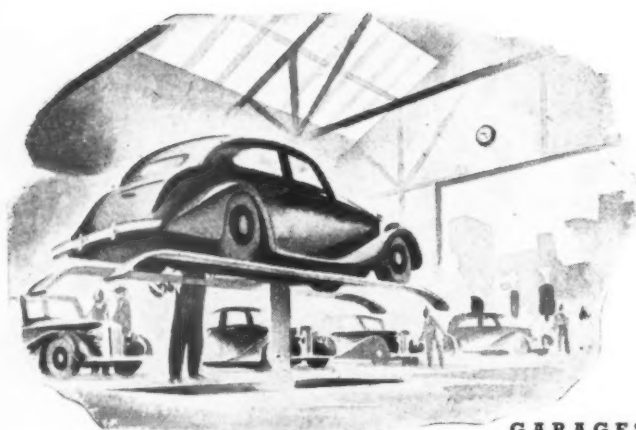


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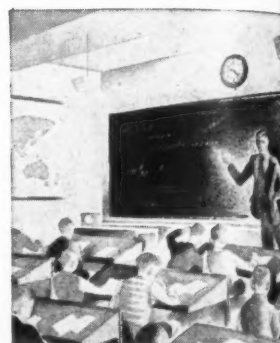
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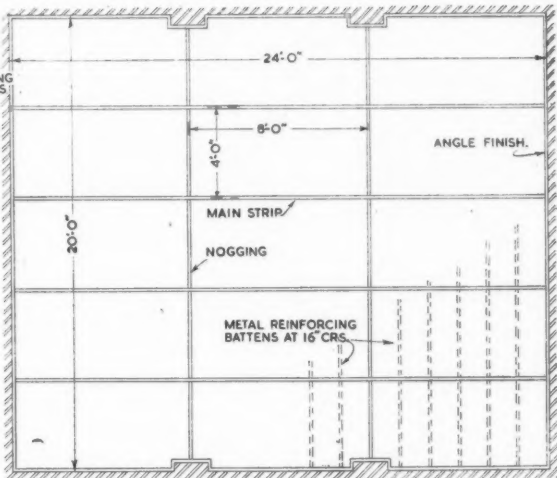
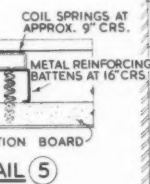
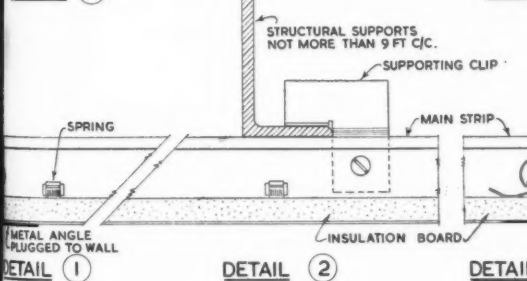
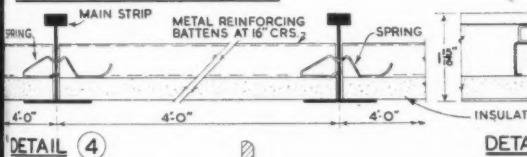
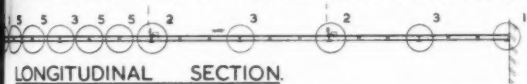
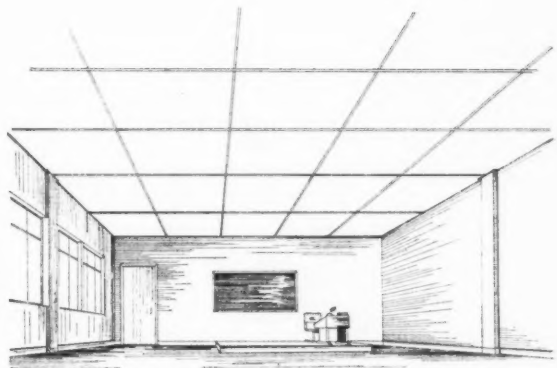
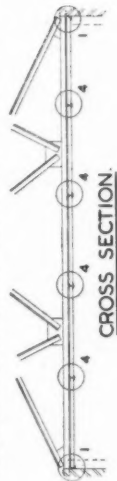
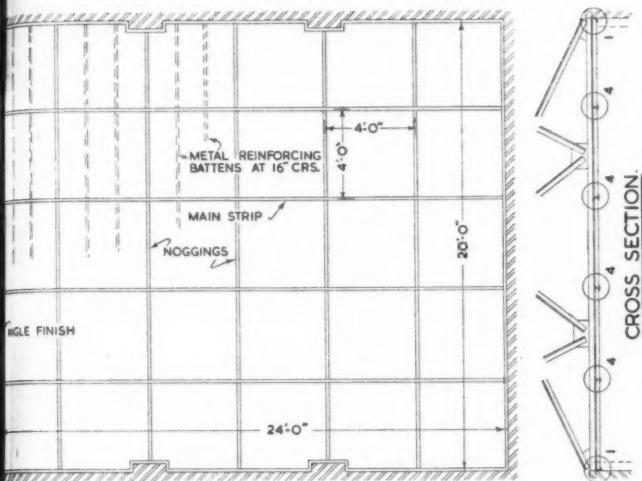
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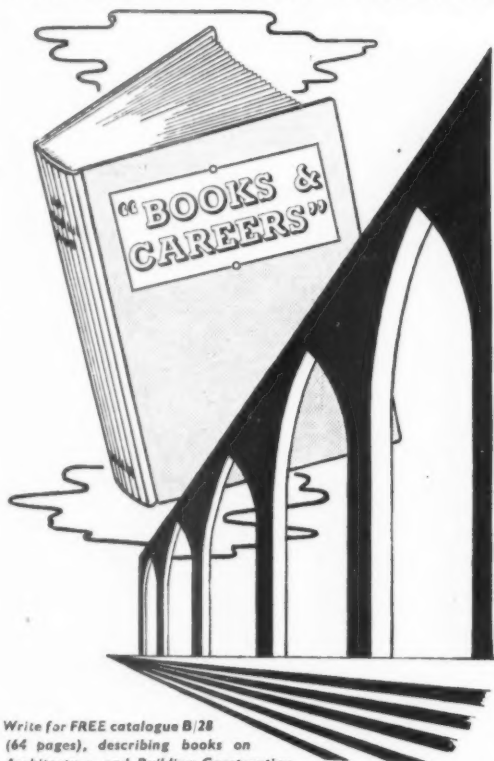
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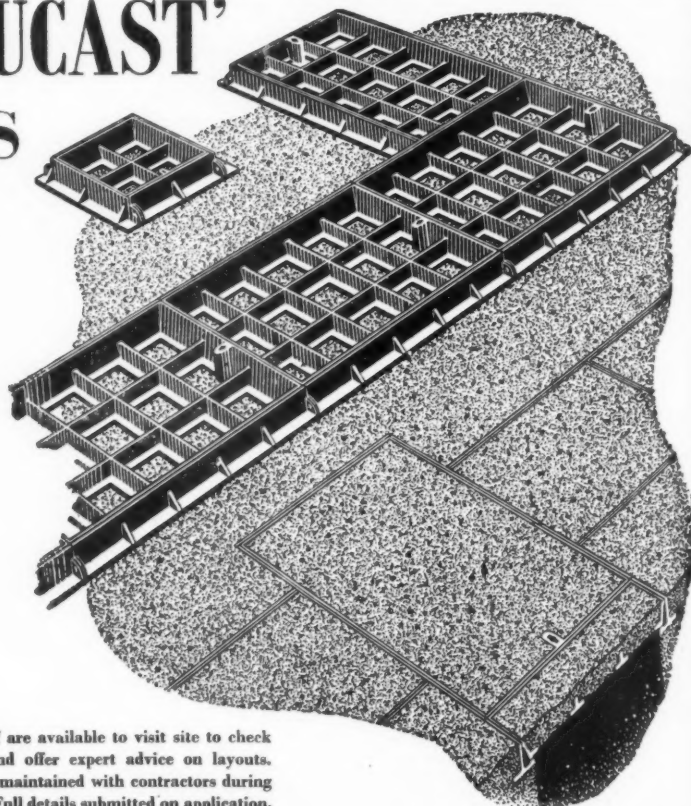
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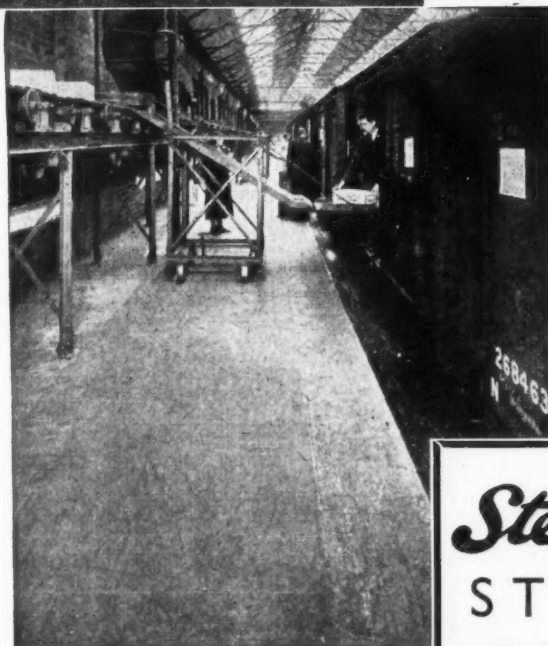
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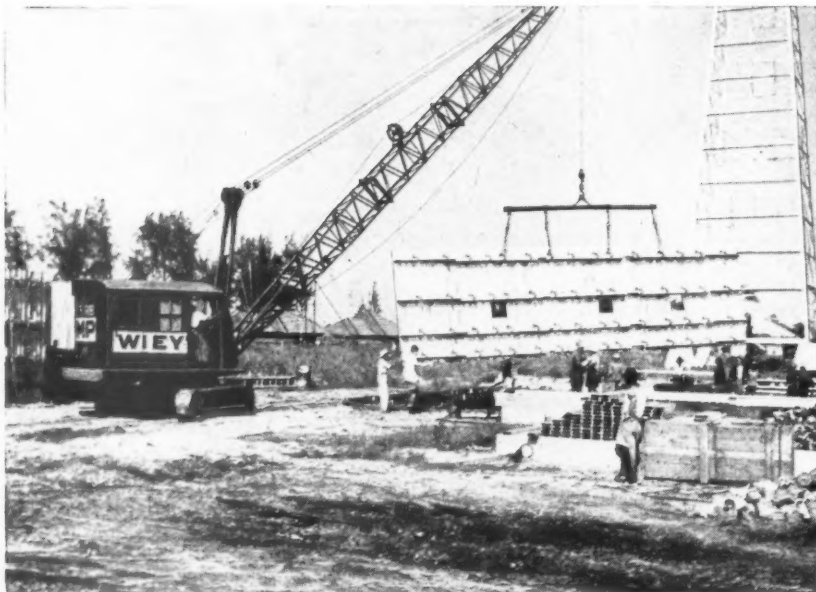
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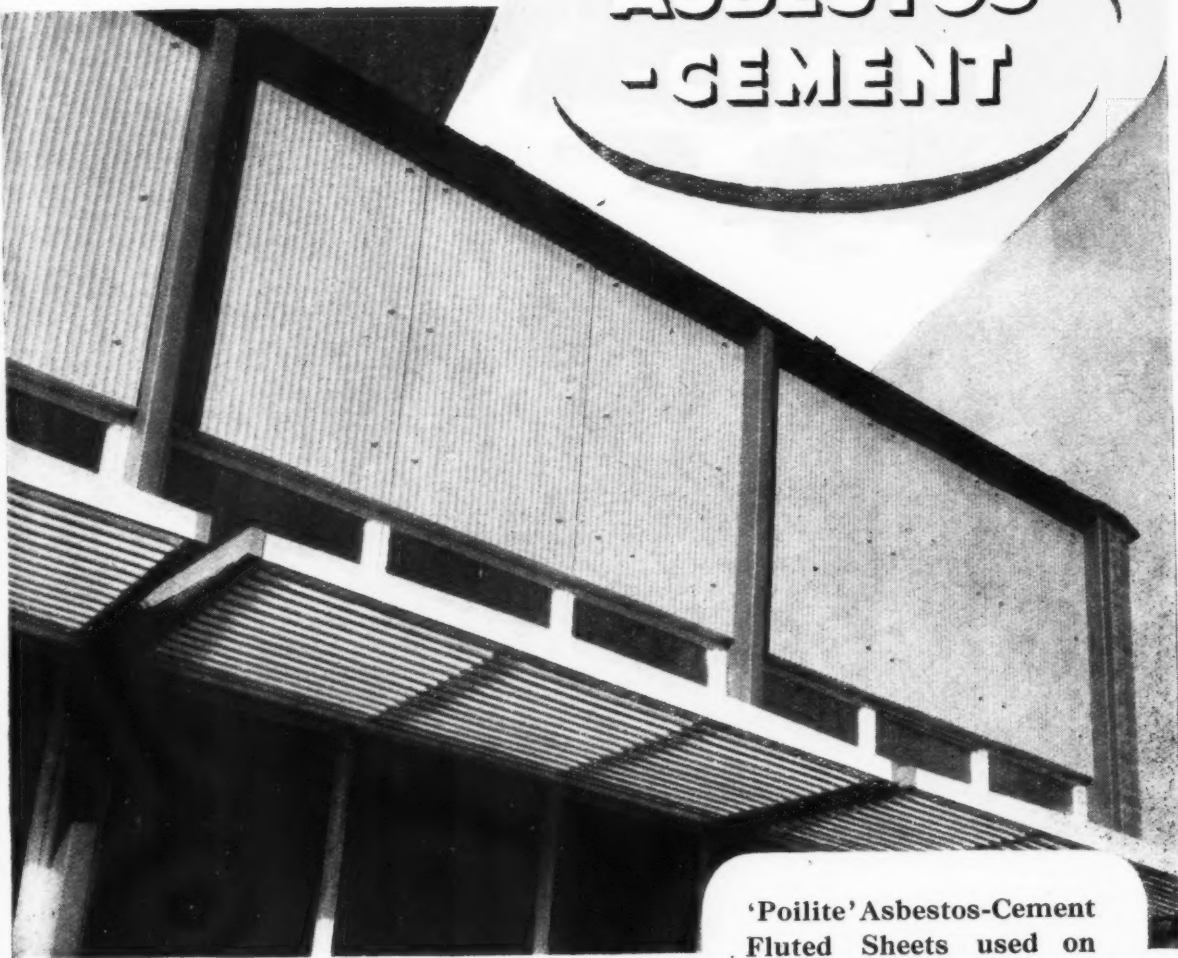
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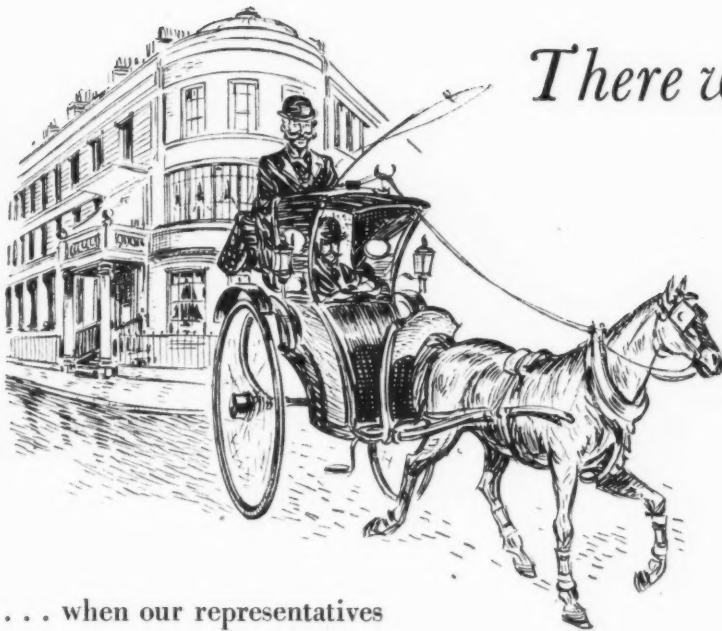


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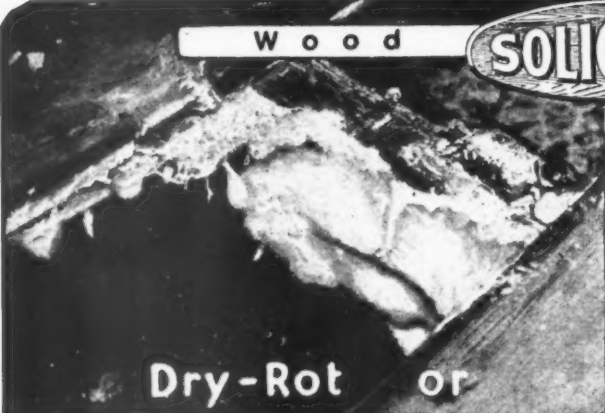
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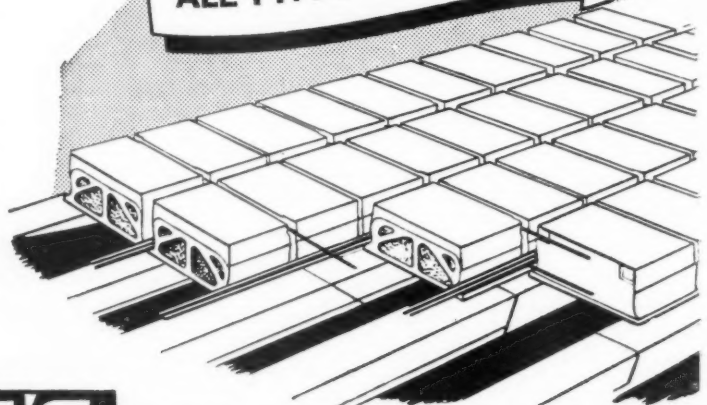
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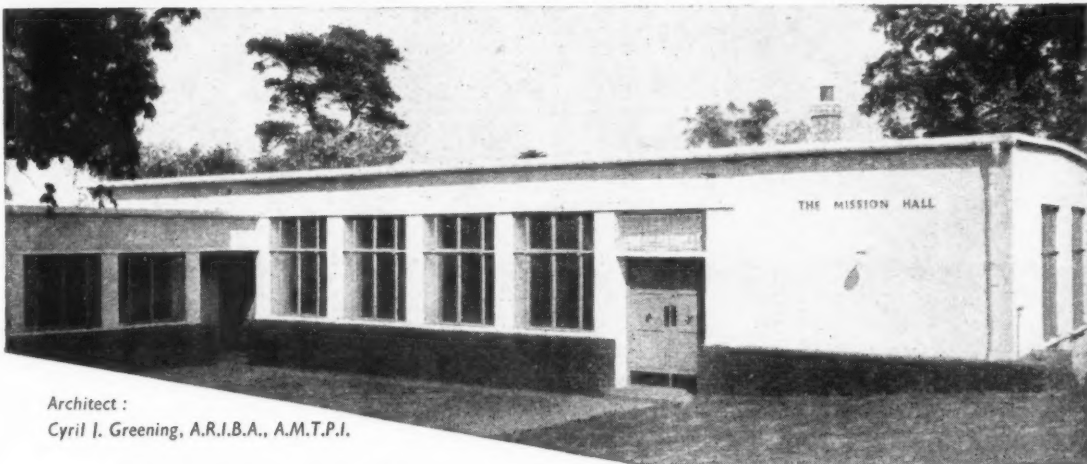
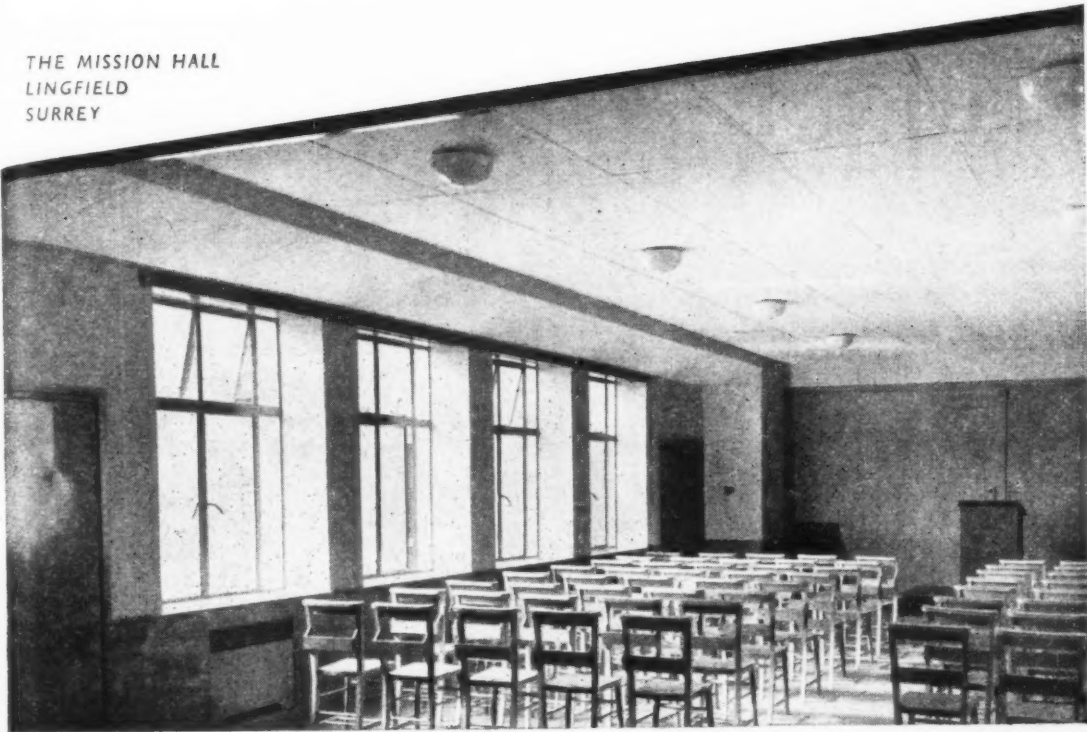
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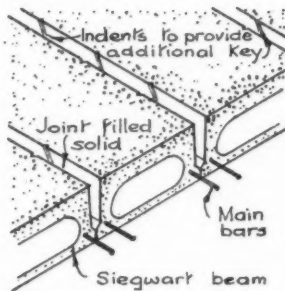
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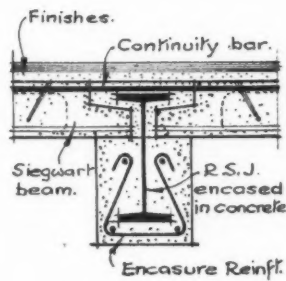
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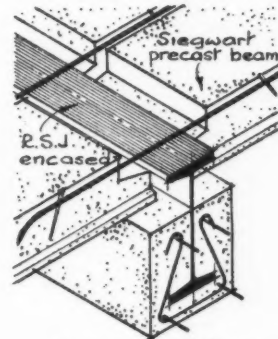
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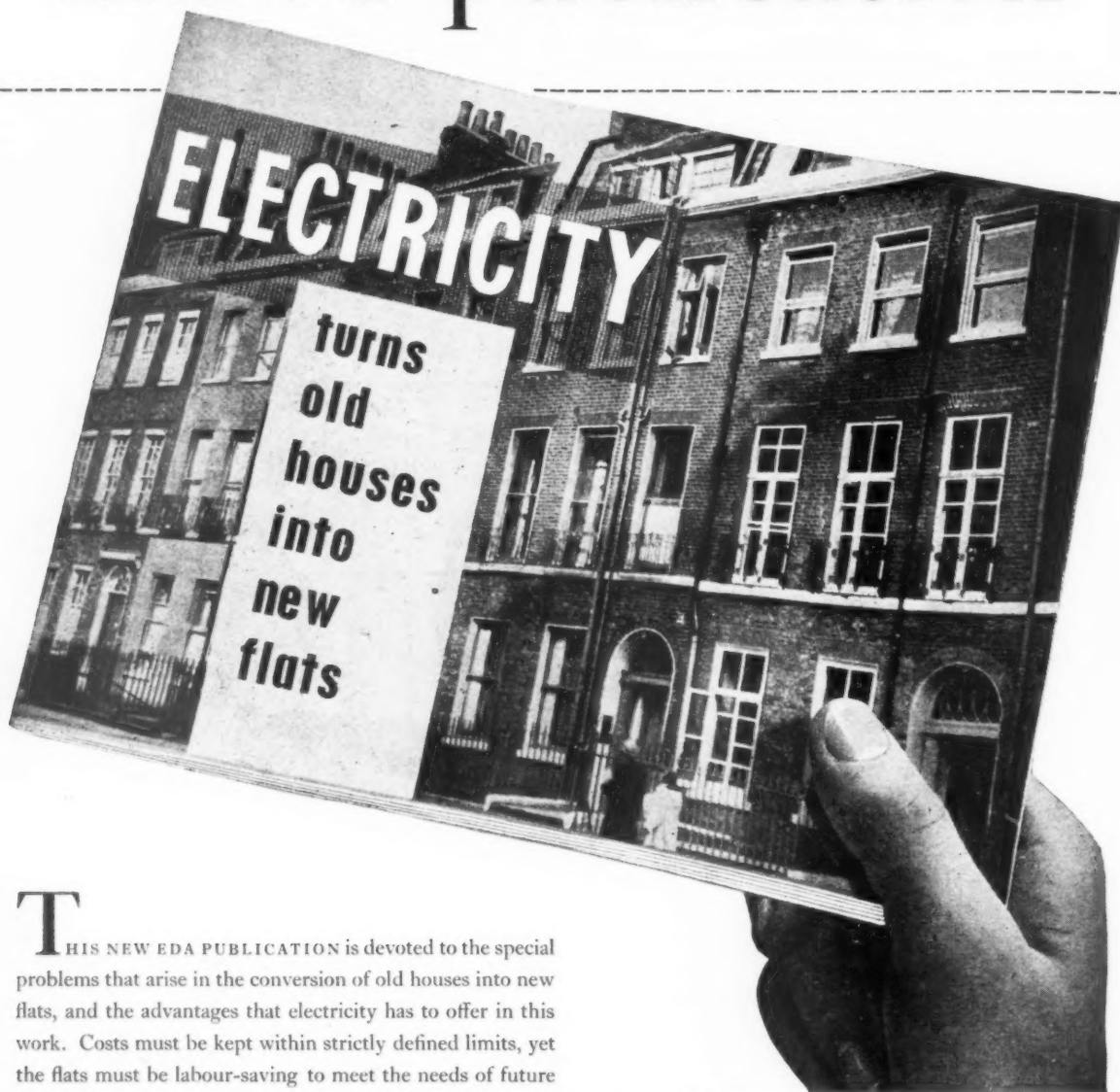
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THE ARCHITECTS' JOURNAL

No 2885 25 May 1950 VOL 111

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MECKLENBURGH SQUARE

I was a comparatively young man when I first realized that, having completed my weekly column, I was one week nearer to the last column which I should ever write. But, such is my sub-human nature, I got over the shock in no time. Unfortunately, the essentially transitory state of the world does not appear to be understood by all. All this arises because I have been hotly taken to task by a reader for spoiling the case of those who wish to preserve Mecklenburgh Square for ever, and who were saying so at the public enquiry held by the MOTCP last week. Readers will remember that a row of Georgian houses on the north side of the Square, with an estimated life of ten years or so, are to be pulled down and replaced by Sir Herbert Baker and Scott's design for a hall of residence

for students. The organizing secretary of the Lord Mayor's National Thanksgiving Fund, which is proposing these developments in the Square, in a letter in the *New Statesman*, quotes me in defence of the scheme. As my previous remarks appear to have been misunderstood I will endeavour to make my views clear.

*

Firstly, in my opinion, the ideal solution to Mecklenburgh Square was to have rebuilt all the bombed houses on all three sides and to have filled them with residents who could afford the upkeep of large Georgian houses. Unfortunately, however, Baker's London House has already encroached on to the south side, thus partly destroying the residential quality of the Square. The second best solution would therefore appear to be to rebuild the north side in a contemporary manner with houses suitable for present-day living conditions, and to preserve only the east side.

*

My plea was a general one for a sense of proportion in these matters. Many individual houses, terraces, crescents, and squares are worth preserving, but it is senseless to try and preserve them all. If people could agree now to keep a certain limited number of the best examples of Georgian architecture for as long as they can be held up, and to leave the rest to the normal town-planning laws of deterioration and development, then a great deal of energy would be released for the yet more important task of securing good new buildings to replace the old.

*

Nevertheless, doubts about the usefulness of trying to preserve what remains of the Square, are not the same thing as approval of what it is proposed to build

next. The important thing about Bloomsbury is its consistent, intimate residential scale, which should surely be preserved. This cannot be done by building any more high blocks of a monumental design.

TWO GREAT HOUSES

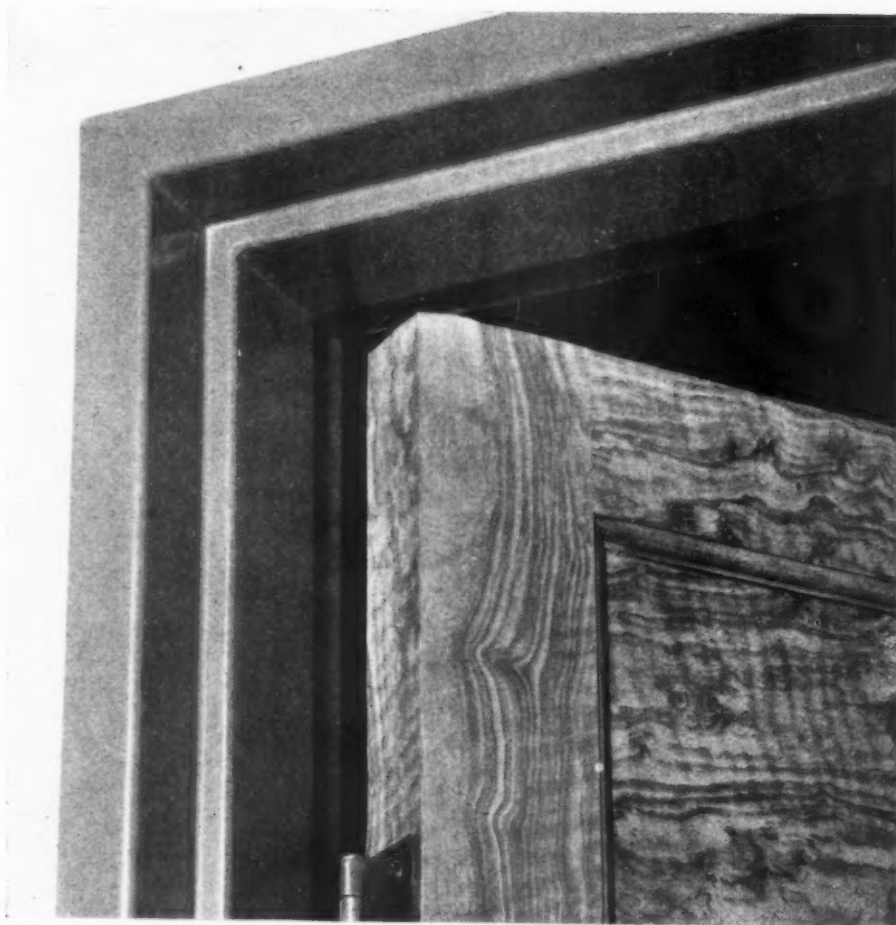
Ham House is now open to the public. On a first visit, not forearmed with knowledge—I did not even know that here Rose, the gardener, presented Charles II with England's first home-grown pineapple—it seemed difficult to absorb anything but the general atmosphere and one's personal likes and dislikes, particularly on a crowded opening day.

*

Because Ham House is an English country house rather than a palace, and has belonged to one family for some three centuries, it possesses an intimate unity and history which the V and A—who are administering the place—have been careful to preserve. Apart from the fact that most of the portraits, miniatures, tapestries and furniture are worthy of any museum, the people who look down on you from the walls are the people who lived at, or visited, the house, mainly during that robust age of cavaliers and roundheads. Their ambitions and activities are recorded in inventories, diaries and accounts for building work, and reflected in the general ensemble of garden, galleried hall and grand staircase, all of which—especially the staircase—are worth going a long way to see.

*

Ham House and Kenwood, which is open again after many years, are both serious attempts to exhibit furniture and pictures *in situ*, the problem being to preserve the vitality of the house as such and avoid the effect of a mere



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sequence of museum galleries. In spite of the fact that Kenwood is now frankly a picture gallery and Ham House is completely furnished, I find Kenwood has the more spontaneous atmosphere. But Ham must certainly be visited.

LEEDS LEADS

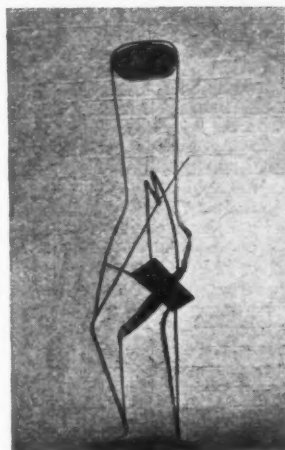
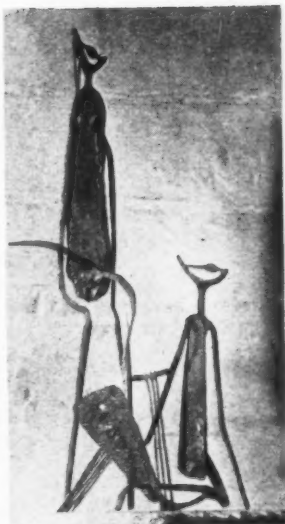
The announcement made elsewhere in this issue about Cotterell Butler's retirement from the technical editorship of the JOURNAL (and the arrival in his place of that very eminent expert R. Fitzmaurice), refers to Butler's new appointment in the north of England. I am surprised that this appointment has not received more attention; it arises from a most enterprising scheme on the part of Leeds University, which might well be copied by universities elsewhere.

*

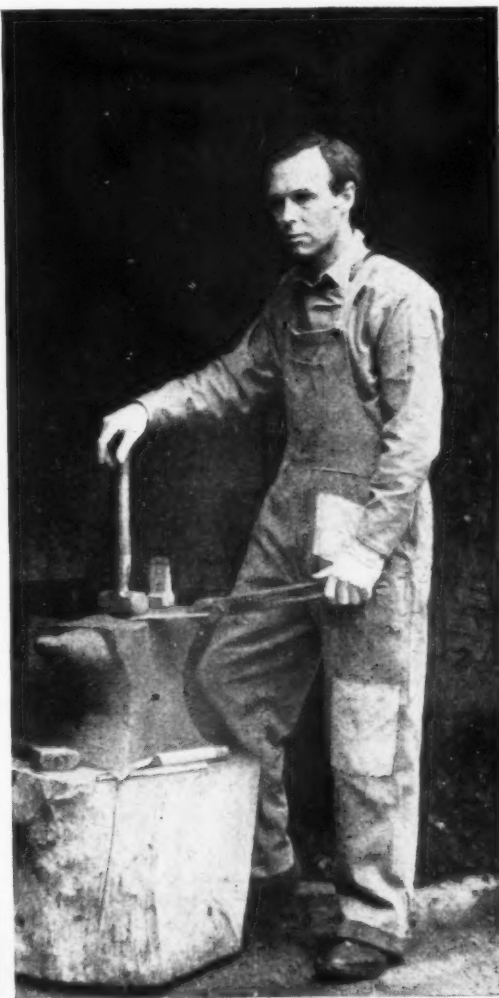
The idea came from Eric Gregory, who has already done so much in the cause of modern art. He was concerned by the tendency of all artists with something new to say to congregate in London, and the consequent absence in provincial centres of opportunities for contact with creative art. He felt that in a northern university city like Leeds it would be of great value simply to have an artist with ideas actively at work in the place, even if he had no official part in the University hierarchy. His studio would provide a focus for discussion and the interchange of ideas—a window, as it were, on to a wider world—and it might even happen that, from the artist's point of view, continual contact with the varied public, especially the student public, of a city like Leeds, would make a stimulating change from the more art-conscious circle in which an artist tends to move in the metropolis.

*

With these possibilities in mind Eric Gregory has endowed three fellowships at Leeds University, the holders of which will be required to reside in or near Leeds during a certain proportion of the year, and will be provided with a studio and given every other encouragement to work. Otherwise they will have no obligations except the general one of furthering, in any way they can, the purpose behind the scheme.



Cotterell Butler and two of his sculptures. Left: top, "The Children"; bottom, "Torso".



The first appointment made under the scheme is a fellowship in sculpture to Cotterell Butler. This will only cause surprise to those of my readers who had not realized that he and Reg Butler, whose sculpture in wrought iron has caused so much interest in many recent exhibitions, are one and the same person. There could be no better choice, and no one more likely to put to good use the opportunity of making sculpture a full-time occupation. The fellowship is for two, three or four years, according to how the idea works out, and two more appointments will be made in due course. The present intention is that one shall go to a painter and the other to a poet.

*

So Cotterell Butler, technical editor of the AJ, becomes Reg Butler, first Gregory Fellow at Leeds University. He takes up his fellowship this

summer, and I am sure, although the JOURNAL will miss him, the goodwill of all my readers will go with him.

DUTCH OUTING

A recent visit to Hilversum enabled me to see that sprightly young man Dudok, who, having just topped 65, has given up his responsibility as architect to the municipality but remains on hand as consultant. This does not mean that he is retiring from the world of architectural practice. Indeed he is busier than ever with his work on the reconstruction of The Hague and the replanning of Zwolle.

*

"These are hard times for planners," sighed Dudok, "high-up authorities have no vision, and money is scarce." He has on hand a number of building schemes, finds it hard going to run a staff of 50, and is disappointed because one of his pet schemes cannot go ahead



Our New Technical Editor

In our editorial on the opposite page we welcome R. Fitzmaurice as technical editor of the JOURNAL. Following is a brief note of his career:—Prior to joining the Building Research Station in 1924, he was lecturer in Civil Engineering and Building at Bradford Technical College for one year. He was later given charge of the building industry section of BRS. At the beginning of the

war he spent a year at the Home Office ARP department, where he drafted codes of practice for ARP shelters in factories and commercial buildings. He then returned to BRS to work on war-time problems, as assistant director under I. G. Evans. In 1944, he became deputy chief scientific adviser at the MOW. He is now a part time officer with the DSIR and is also in practice.

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owing to the impossibility of getting lifts. The scheme consists of two large blocks of flats, facing each other on a wide road in the newer part of Amsterdam. The flats are intended for old people, and are linked up by a wide bridge spanning the intersecting road at about fifth floor level. The bridge contains a common dining room and lounge for the inhabitants who will, no doubt, thoroughly enjoy their parties up in a sort of "no man's land." It will be interesting to see how this scheme works.

*

I found the famous Hilversum Town Hall had weathered well in spite of its 25 years' life, including occupation by the Germans. Incidentally, I heard that it was seized during the war by the Germans and used as headquarters for the Gestapo who, to save their skins, set about producing a scheme of camouflage. The commanding officer of the engineers telephoned Dudok one morning, and told him that he was an architect and that he felt it was his duty to do all could to preserve a fellow architect's masterpiece. He was proposing to paint it green all over. Dudok told him he would prefer the building to be destroyed, and that, in any case, it was quite unusual for anyone who wished to murder a child to ask its mother's help.

*

Eventually an elaborate scheme of camouflage with steel scaffolding and tree cuttings was worked out. Whether it was effective or not it was common knowledge that the RAF abstained from bombing it.

LEADER RETREATS

Some months ago I was encouraged to note that Hulton's re-vamped *Leader*, an attempt to appeal to the moderately intelligent, had thought it worthwhile to include a weekly snippet of architectural comment. I admit it was not startlingly original, but it was pleasant to find in our popular press, which does not seem architecture-conscious. And now the *Leader* is to end next month; not I imagine because of its architectural comment or my friend Acanthus's drawings, but because of the regrettable truth that if you want a circulation of half a million or more you have to give your readers pictures and not reading matter.

ASTRAGAL

The Editors

FITZMAURICE JOINS THE AJ

THIS issue welcomes to the editorial board of THE ARCHITECTS' JOURNAL R. Fitzmaurice, the very eminent expert on building research and building technique. He becomes Technical Editor of the JOURNAL in succession to Cotterell Butler, who is moving to the north of England to take up a fellowship at Leeds University.* There is no need to describe to architects the special qualifications Mr. Fitzmaurice possesses for supervising the technical side of the JOURNAL. His name is a household word throughout the profession, by reason of his work at the DSIR and BRS, his book, *The Principles of Modern Building* (which is generally accepted a standard work) and, during the last few years, his work as Deputy Chief Scientific Adviser to the Ministry of Works.

A portrait and some further notes on his distinguished career as a building scientist are given on the opposite page. The JOURNAL editors, now his colleagues, are delighted to have his encyclopædic knowledge at their disposal and to be able to place it at the disposal of their readers.

HOUSING CENSUS

It is a regrettable fact that we have no reliable figures for housing requirements. Our basic source of information about the number of houses needed in this country is the section relating to housing in the population census. But the information given here is, as a rule, inadequate.

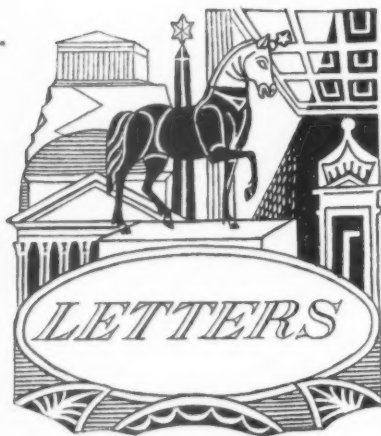
To emulate the example set by the United States and Canada, which have had very comprehensive special housing censuses taken in conjunction with their population censuses, is perhaps beyond our limited resources at the present time. But, as Alexander Block, has pointed out in detail in his book, *Estimating Housing Needs*,† our own census could give more information without much change in procedure, and certainly without new legislation.

In fact, a wealth of data on housing needs has been collected at each census on the household schedule, which virtually has not altered during the last hundred years. Only a very small part of this information has ever been made known; the rest has invariably been buried in the archives of the Registrar General. It would surely be comparatively easy to select, tabulate and publish the additional information, which is so urgently required.

Housing surveys should be regarded as supplementary to this census rather than a substitute for it. The next census is to be taken in 1951. It is in the public interest that those responsible for its preparation should be made to realise that the sections relating to housing must be greatly improved if it is to be of any value at all to those concerned with our planning economy.

* See Astragal's note on p. 625.
† The Architectural Press 10s. 6d.

Cotterell Butler will continue to be editor of the Library of Information Sheets



Sir L. H. Keay, F.R.I.B.A.

R. Carton Tickell, A.R.I.B.A.

E. T. R. Lawson

Two Competitors

Michael A. McGrath

Fourth Year Students, School of Architecture

The RIBA Committee

SIR,—I am always reluctant to enter into public correspondence over the purely domestic matters of any of the bodies with which I happen to be connected. If there are matters to be put right there are acknowledged methods by which this can be done. I should, therefore, hesitate to reply to the letter of Mr. John Swarbrick, which appeared in your issue of May 11, but for the fact that the purpose of his letter may not be immediately apparent to those members of the Institute who do not follow its proceedings closely and who, aware of Mr. Swarbrick's long service on the council, might feel justified in accepting his statements without question and thereby assuming his proposals justified.

Mr. Swarbrick and I were members of the council continuously over the same period of ten years, but I have no recollection that during that period he ever submitted proposals for altering the procedure for the election of committees and their chairmen in the way he now suggests. May I explain this procedure quite simply for the benefit of those interested, and hope that it may be more easily understood than the garbled account given by Mr. Swarbrick.

At the end of June in each year the committees of the Institute go out of office. Until the first council meeting, usually held in the first week of July, there are no committees or honorary officers of those committees. Before the dissolution each committee, with the knowledge of the work involved, suggests the names of possible successors. The executive committee considers these and at the same time has before it names submitted from other sources and those of newly elected members of the council and the committees on which they volunteer to serve. In drawing up the lists for submission to the council the executive committee must also take note of the resolution of the council of March, 1947, which requires that each committee shall be infused with new blood by the introduction, annually, of at least two persons

who have not been members of the Institute for more than ten years.

The lists decided upon by the executive committee are submitted to the July meeting of the council and at that meeting it is competent for any member of the council to propose other names to be added to the lists. Mr. Swarbrick speaks for himself alone when he says the task of approving or amending these lists is "regarded by most of the busy members as an irksome imposition" and that the names on them "convey absolutely nothing, or next to nothing" and that he and any who feel as he does—if there are any—"realize that they are hopelessly unqualified to assess the relative qualifications of men they have, in most cases, never seen."

Whether the task before the council is irksome, or otherwise, hardly arises. It has a duty to discharge—that of electing the most efficient committees possible—and it would not appear unreasonable to expect that members who have no knowledge of those whose names appear on the lists should satisfy themselves as to their suitability for election. The procedure obtaining up to 1937 was varied for the very reason that members of the Institute, scattered throughout the country, had less opportunity of judging the merits of "men they had never met" than members of the council probably had. The opinion of the council upon the relative merits of the two procedures could have been tested quite easily had Mr. Swarbrick so desired.

Mr. Swarbrick's second point touches the method of election and period of office of committee chairmen. The chairmen are, in fact, elected by the majority vote of the committees and, except in the case of the Board of Architectural Education, where the chairman changes every two years, the council imposes no limiting period. Opinions are always divided as to the relative advantages of continuity and frequent changes in responsibility. Here again the feeling of the council could be tested quite easily. I suggest the chairmen are elected democratically. Mr. Swarbrick contends they are selected by a "coterie of supporters." I regard the suggestion that these elections are effected by a "set of persons with exclusive interests"—for that is what the word "coterie" implies—as an offensive one.

So far as my memory serves, Mr. Swarbrick has failed to bring either of the matters he deems so vital before the council of the Institute. If and when he is again elected a member he will have another opportunity of taking up these matters in the proper place.

(SIR) L. H. KEAY

Surrey.

Where Does the Money Go?

SIR,—For want of accurate statistical data the stimulating discussion you initiated on the financial prospects of architects still lacks realism. Commenting in a recent leader on this criticism of mine you challenged the profession to provide figures more accurate than your own.

I had hoped this would bring about the intervention of some RIBA pandit to announce the imminent publication of the questionnaire report. Here, at least, there may be some facts about the percentage of architects in private practice at the beginning of 1949. No information as to the publication date can yet be obtained from Portland Place. Why the delay that daily diminishes its potential value? Are the facts revealed so unpalatable to its sponsors?

Another approach is provided by the report of the working party on the Building Industry just published. They find that today's building costs are 2½ times those existing before the war. This means, *ipso facto*, that fees received by private architects should be over 200 per cent. of the pre-war figure. Has the remuneration of assistants increased in this ratio? If not, where is the money going? A

little information on this subject might assist in elucidating the low salary standards prevalent today.

R. CARTON TICKELL

Harrow.

Hunstanton Competition

SIR,—May I, through your columns, offer my congratulations firstly to the authors of the winning design and secondly to the assessor of the competition for a secondary school at Hunstanton.

Although I have not been able to examine the original drawings, it is apparent from the illustrations in the JOURNAL that at last the architect of a modern school has had the courage to decide at the outset what he wants and the ability to plan the accommodation and design the building to achieve this end.

As far as I can remember the school designs I have seen during the last few years have almost without exception consisted of a stringing together of various units to give what may or may not ultimately prove to be good circulation, and a visual composition of rather haphazard, more or less balanced asymmetry.

In contrast, the Smithsons' design, in addition to being a truly contemporary building in its own right without the aid of the usual clichés, has that air of completeness and inevitability which only results from unceasing work and the ability and confidence to design the building the way you want it, instead of allowing it to go where it likes.

Such an attitude is unhappily not encouraged by the schools of architecture where diffidence and over-broadmindedness rule the day and which to my mind help produce the generally mediocre standard of many modern English buildings.

These remarks are prompted by my admiration for a school design; they also largely apply to many other building types produced by contemporary architects.

E. T. R. LAWSON.

Cheltenham.

Whitehaven Competition

SIR,—Your correspondent from Edinburgh [May 11], while very rightly calling attention to the rejection of some of the designs for "the wrong siting of entrances" and, incidentally, to the rather vague conditions, overlooks the fact that practically the whole of clause 15 of the promoters' conditions has been disregarded.

Clause 15 runs as follows:—"The Promoters will communicate that Assessor's award to each of the competitors, and the time and place of the exhibition of the designs. Thereafter the whole of the designs with the names of the authors attached, excepting any which may be disqualified, will be exhibited, together with the Assessor's award, for a period of not less than six days, after which all the designs submitted, excepting that selected for execution will be returned to the competitors within fourteen days of the closing of the exhibition, carriage paid."

With regard to this we have the following observations to make:—(1) The names of authors were not attached to the designs when exhibited. (2) The Assessor's award and report was not exhibited. (3) The drawings were on view for three days only. (4) The designs have not yet been returned (it is now four weeks since the exhibition).

Moreover, it is usual to thank competitors for submitting designs, and to give due notice of the exhibition.

We should also like to comment on the lack of interest in the competition shown by the people of Whitehaven, during the whole of the time we spent at the exhibition (sixty-five minutes) the only other visitor (apart from our own staff) was a fellow competitor.

This apparent apathy was probably due to the lack of publicity given to the exhibition, but one cannot help feeling sorry for a community which is apparently resigned to losing some of its more intimate architecture for a Public Hall, in the same way that it lost its eighteenth century Trinity Church for a public park.

Perhaps some of your readers who did not enter the competition might voice an opinion on the Assessor's choice. We can only regret that so few of the submitted schemes were able to live up to the high standard set by Whitehaven's outer harbour.

TWO COMPETITORS.

London

Official Architects

SIR.—There is an old saw which says something about one's best friend being one's worst enemy in potency; and there is a lot in it. Some years ago men began to realise that the overpopulated country in which we live needed architects to supervise the planning of towns, roads, etc., so some architects were picked for the job of planning. Now it would seem that, because of this, there is going to be a proper feud in the body of architects as a whole. Official architects are fast becoming a class apart—a class cursed to the rest of us. What is the reason for this break?

Take an example. A private architect is approached by a client for plans for a home. He visits the proposed site and plans a house to fit artistically into the surroundings. Then, with the approval of his client, he takes the plans before the planning officer, who straightaway alters them. Why? Because the private architect has a "bull's-eye window" in one gable and the planning officer does not like "bull's-eye windows," so in his capacity of civil servant he cuts it out. Or the private architect has proposed a certain colour of tiles for the roof, and the civil servant does not like that particular colour, so it must be changed to gratify his whims. Now this is quite unfair to the private practitioner, who, after all, is the artist and a qualified man. His house, when altered, is no longer the work of art which he conceived, but becomes, in comparison, something like a children's edition of Shakespeare.

I do not regard architecture as a fine art. It is not its own end as the fine arts are. A house, as Corbusier puts it, is a "machine for living in." It seems to me, therefore, that an official architect's task is to see that the house is a good machine, in so far as it comes up to the required standards and government regulations.

The difficulty is that the official architect is inclined to become officious; and officiousness is a hateful vice. We do not mind a planning officer who is reasonable and acts within limits, but we hate those who act as little despots in their own demesne.

MICHAEL A. MCGRATH

Ireland

Errors of Duality

SIR.—It appears that the "errors of duality" [referred to in ASTRAGAL'S notes, March 30] committed by the Birmingham Corporation are a post-Edwardian lapse. According to a picture postcard, dated 1909, the grouping was originally three—Queen Victoria, flanked by Priestley and Wright.

As this trio was a very satisfactory arrangement, and its members quite appropriate to the name Victoria Square, it seems regrettable that later duality should now be amended by monotony.

FOURTH YEAR STUDENTS,
SCHOOL OF ARCHITECTURE

Birmingham

The EDITORS reserve the right to shorten letters from readers. Whenever possible, however, they are published in full.



TCPA

New Director Appointed

Russell W. Kerr, a 29-year-old Australian, has been appointed director of the Town and Country Planning Association in succession to Desmond Donnelly.

Mr. Kerr is a chartered secretary and an economics graduate of Sydney University, where he specialized in public administration and local government.

MOT

Memorial to Lord Ashfield

Last week, the Minister of Transport, Alfred Barnes, performed the unveiling ceremony of a memorial to the late Lord Ashfield, at 55, Broadway. The architectural setting of the memorial, which consists of a stone plinth on the cast exterior wall, bearing a bronze plaque of Lord Ashfield's head by Herbert W. Palliser, was designed by Adams, Holden & Pearson, the original architects of 55, Broadway.

RIBA

Maintenance Scholarships

The RIBA offer for award in July the following maintenance scholarships in architecture, tenable from October 1:—

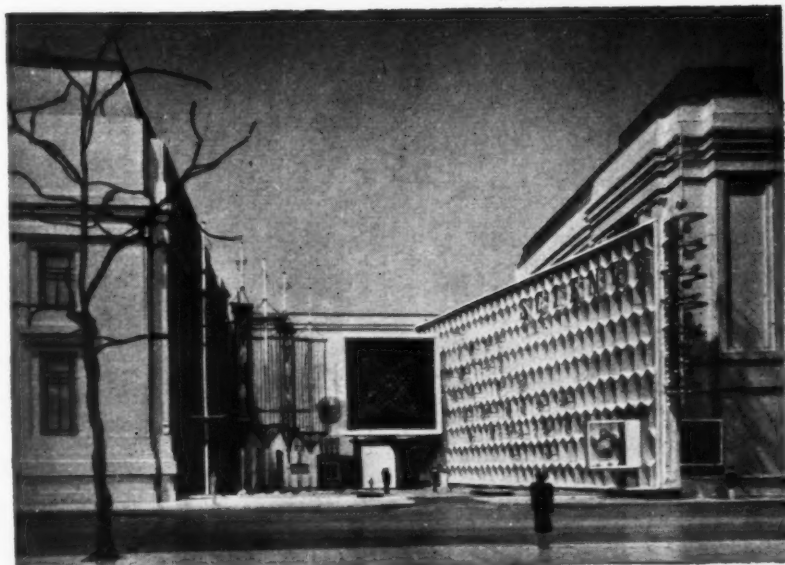
(1) A RIBA 4th and 5th year Maintenance Scholarship of £60, to enable students who have passed the Intermediate stage to complete an approved course at a school of architecture recognized for exemption from the RIBA Final Examination.

(2) The Ralph Knott Memorial Maintenance Scholarship of a maximum value of £45 per annum (tenable only at the school of architecture, The Architectural Association, London).

(3) The Howe Green 4th and 5th year Maintenance Scholarship of £40, to enable students who have passed the Intermediate stage to complete an approved course at a school of architecture recognized for exemption from the RIBA Final Examination.

(4) The Hartley Hogarth Scholarship to provide grants towards the fees for architectural study at any school of architecture recognized for exemption from the RIBA Intermediate Examination or from the RIBA Intermediate and Final Examinations, is available to any student or students who produce satisfactory evidence of having been resident in the Borough of Keighley for a period of 10 years prior to October 1 of the year in which the application is made. Its value will be that of the fees of the school of architecture selected.

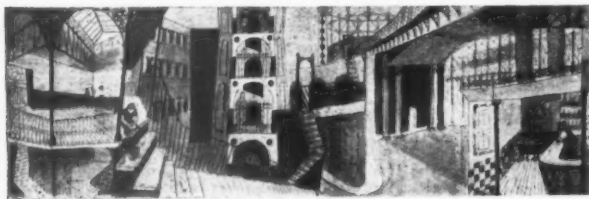
The scholarships are intended to enable promising students, whose parents or guardians have not the necessary means, to attend approved courses at the schools of architecture recognized for exemption from the RIBA examinations. Students already taking such a course are also eligible to apply for a scholarship. The scholarships are available only for students who are British subjects by birth or naturalization. Applications for the scholarships (in accordance with the regulations for applications) must be made to the secretary to the Board of Architectural Education, RIBA, 66, Portland Place, W.1. The closing date for the receipt of applications duly completed, is July 1, 1950. The award will be made towards the end of July.



Preliminary model of proposed treatment by Brian Peake of entrance to Festival of Britain Science Exhibition at the Science Museum, South Kensington.

LONDON SCENE, DESIGNED BY STUDENTS OF MURAL PAINTING

This mural, in a corridor at Morley College, Westminster Bridge Road, S.E.1, is the work of two young artists, Fred Millett and Brian Probyn, who are studying mural painting at the college under Angela Latham. At this college every student is given the chance of designing and executing a mural. This is extremely useful for the would-be mural designer, who often has difficulty in finding a wall to practise on, and consequently fails to realize that mural painting is an art in itself and does not consist merely of painting pictures more suited to paper or canvas, on to a wall. In this case, the artists have attempted to portray their feelings about a certain type of London scene. Mrs. Latham teaches the "Presafix" technique, which enables paintings to be done in ordinary powder paint on untreated plaster or cement surfaces. When dry they are sprayed or varnished with a new resin known as "Presafix", which ensures permanency for the paintings by giving them a matt, non-discolouring, and water-resistant coating.



GOLF

Building and Allied Trades Golfing Association

The spring meeting of the above association was held at the Berkshire Golf Club on Tuesday, May 2. The Dyke Cup was won by Leonard Trower with a net score of 73. The winner of the scratch prize was C. E. Hetherington who returned a 74. In the foursomes bogey competition W. Warren and C. G. Stevens were the winners (all square), Matthew Torit and Patrick Roger being second with 1 down.

Applications for membership of this association should be addressed to the hon. secretary, Hubert H. Hill, Monument Station Buildings, King William Street, E.C.4. Only directors and chief executives are eligible for membership.

HARLOW

New Members of Development Corporation

Richard Costain, head of the firm of contractors of that name and president of the LMBA, has been appointed chairman of Harlow Development Corporation by the Minister of Town and Country Planning.

Two other new members are Dr. Stephen Taylor and R. B. Williams-Thompson. Members of the Development Corporation reappointed are R. O. C. Hurst, now vice-chairman; Mrs. E. A. Newton, T. H. Joyce, and A. Reed.

RIBA

Golfing Society's Meeting

A meeting of the RIBA Golfing Society was held on Tuesday, May 16, at Moor Park Golf Club, Herts. The results were as follows:—The Allensby Bowl was won by C. Tucker with a score of 87-14-73. Runners-up: R. Scott, 79-4-75; W. D. White, 89-14-75.

The afternoon 4-ball Stapleford Competition was won by R. Scott and A. V. Farrier with a score of 36½ points.

Competition Results

In the United Kingdom 483 competitors took part in the RIBA's Tite Prize *en loge* Competition. The following competitors have been selected to proceed with the final drawings for the Competition:—B. Austin (Leicester College of Art), A. G. Batt (LCC School of Building, Brixton), P. Del Nevo (Oxford School of Architecture), S. D. Dray (Canterbury College of Art), G. A. Macnab (Aberdeen School of Architecture, Robert Gordon's Technical College), R. L. Marshall (Department of Architecture, Municipal College, Southend-on-Sea), L. B. Morton (Department of Architecture, University of Sheffield), J. S. Walker (Hull College of Art), P. G. Wilson (Hull College of Art).

A hundred competitors took part in the Victory Scholarship *en loge* Competition. The following have been selected to proceed with the final drawings:—A. B. Fuller (Nottingham College of Art), G. V. Howes (Edinburgh College of Art), F. M. D. McIntosh (Dundee College of Art), T. F. A. Manning

(Bartlett School of Architecture, London University), A. E. Moody (Department of Architecture, The Northern Polytechnic, London), H. S. Morel (Architectural Association, School of Architecture), J. D. Shearer (Edinburgh College of Art), B. D. Smith (Department of Architecture, The Northern Polytechnic, London), W. R. Ussner (Architectural Association, School of Architecture), P. L. A. Williams (Glasgow School of Architecture).

LBFA

Regional Council of Foremen

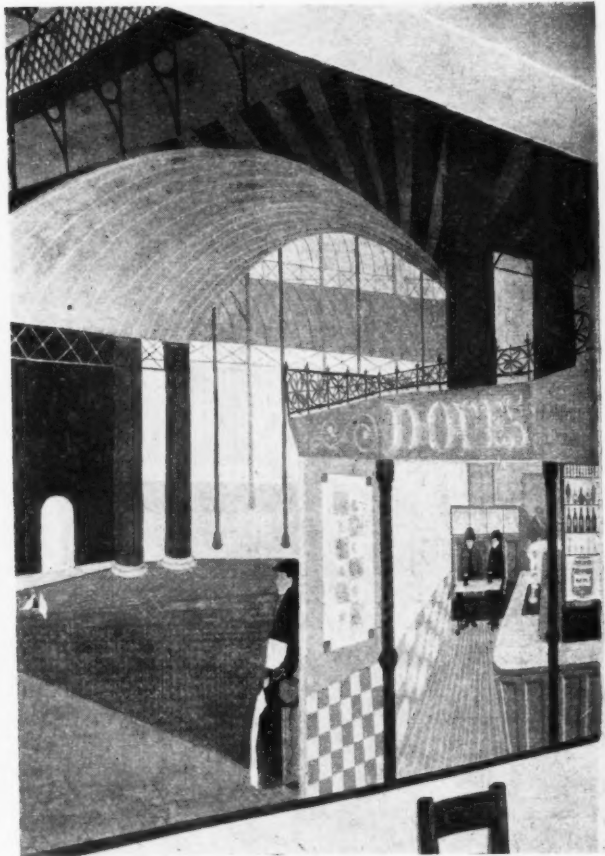
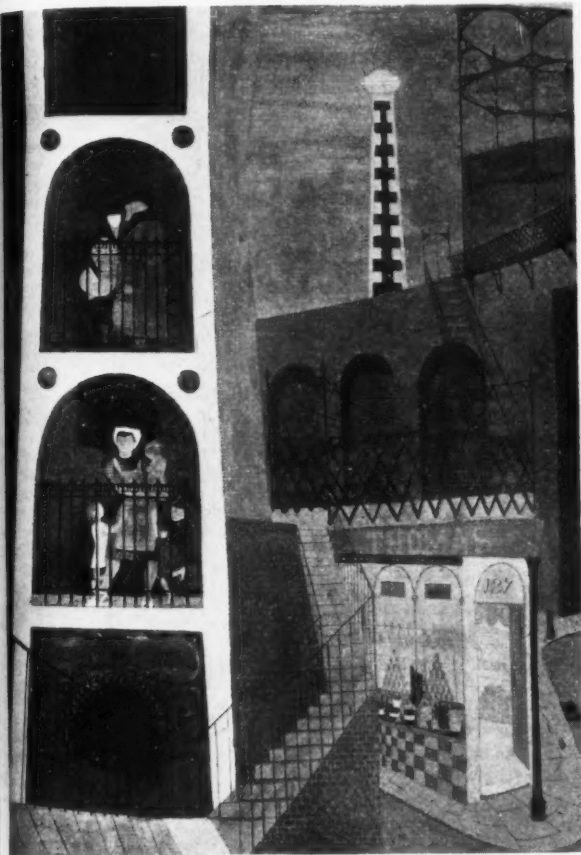
The LBFA announce that a regional council of Builders' Foremen and Clerks of Works has been set up in London to co-ordinate the work of the London Builders' Foremen's Association, the London Association of Builders' Foremen and Clerks of Works and the Provident Institution of Builders' Foremen and Clerks of Works.

G. T. B. Winstanley, President of the LBFA, has been elected chairman, with A. C. Taylor, of the Provident Institution, senior vice-chairman and R. Toogood, of the London Association, as junior vice-chairman.

The LBFA has agreed to provide secretarial service for the Foremen's Council and R. E. Stenning, the secretary, is acting as secretary to the council. A liaison committee has been formed between the Foremen's Council and the LBFA.

The president of the RIBA and the president of the LMBA are giving a reception to all the members of the three associations forming the Council in the headquarters of the RIBA on Monday, June 12, at 6 p.m. This

PAINTING AT MORLEY COLLEGE, WESTMINSTER



will be followed at 6.45 p.m. by an address by Sir Thomas Bennett, on "General Foremen and Clerks of Works—The Importance to the Building Industry of their dual function."

NFBTE

Meeting of Building Productivity Team

W. John Kenney, the Minister in charge of Economic Co-operation Administration Mission to the United Kingdom, is to speak at the public meeting at the Kingsway Hall, London, at 7 p.m., on June 9, at which members of the Building Industry's Productivity Team will be talking about their US visit.

R. R. Stokes, Minister of Works, will be taking the chair at the meeting; Richard Coppock will initiate the discussion. Robert O. Lloyd, president of the NFBTE and leader of the Team, Robert H. Matthew, and Frank W. Beazley, will address the meeting.

BSI

M. Caquot's appointment

M. Caquot has been elected president of the International Organization for Standardization in succession to Howard Coonley of the USA. He has had a distinguished career as a civil engineer. His achievements include the construction of the Madeleine Bridge at Nantes, the Lafayette Bridge in Paris, and the Pont de la Caille in Haute-Savoie, the

construction of which constitutes the world's record in reinforced concrete.

Membership of the ISO is confined to representatives of the national standards bodies throughout the world. The BSI represents the United Kingdom, and implements international recommendations by reference to them in the appropriate British Standards.

RIBA

Prizes and Studentships

The RIBA Prizes and Studentships Pamphlet for 1950-1951 has now been published. It contains full information upon the various Prizes and Studentships, together with, where applicable, the detailed programmes for the competitions. Copies of the pamphlet are obtainable from the RIBA, 66, Portland Place, W.1, price 2s., exclusive of postage.

Golfing Club News

A match was played between the Institution of Civil Engineers Golfing Society and the RIBA Golfing Society on May 4, at New Zealand Golf Club, Byfleet, resulting in a win for the architects by 10½ matches to 7½.

MOW

Demonstration of Building

The MOW, in association with the Midland Region Building & Civil Engineering Joint

Committee, is to hold a demonstration of mechanical aids to building in the Midlands. This demonstration, "Machines for the Modern Builder," will be held on Warwick Racecourse during the last week in June. The official opening ceremony will be at 2.30 p.m. on Monday, June 26, and the demonstration will remain open daily from 11 a.m. to 7 p.m. until the evening of Saturday, July 1. Admission will be free of charge.

The exhibition will give architects, surveyors, contractors, their supervising officials and operatives, an opportunity to see some of the latest mechanical aids now available for building work—for housing in particular. More than 60 firms will show their products, some of which are new to the industry. The MOW exhibit, "Modern Site Organization," will also be on view.

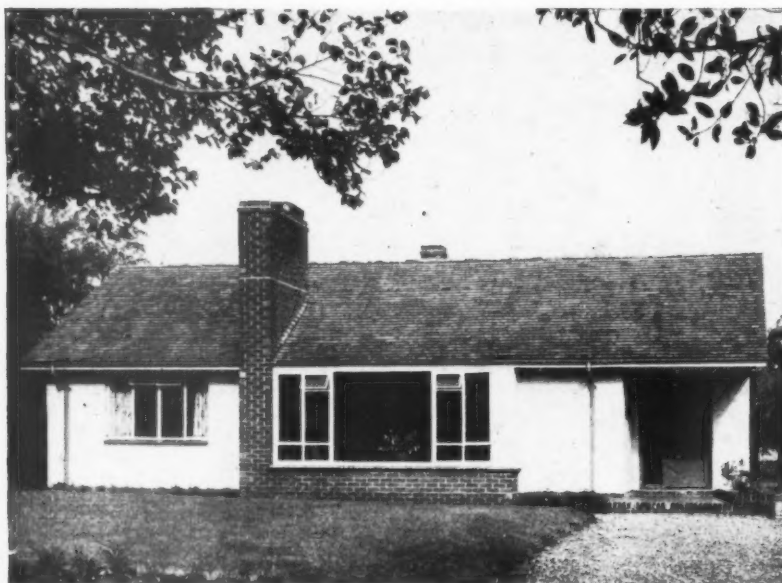
IHVE

Napier Shaw Premium Competition

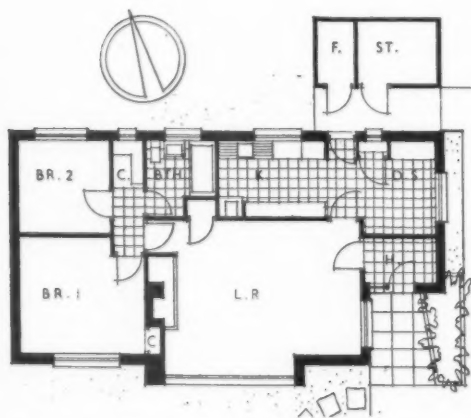
The Institution of Heating and Ventilating Engineers has decided that the Napier Shaw Premium for 1951 (value £25) will be awarded for the best paper on some subject of air conditioning, or on a subject closely allied thereto, submitted in an open competition. The competition is open to any person, and the closing date will be December 31, 1950.

Copies of the conditions governing the award may be obtained on application to the Secretary of the Institution, 75, Eaton Place, S.W.1.

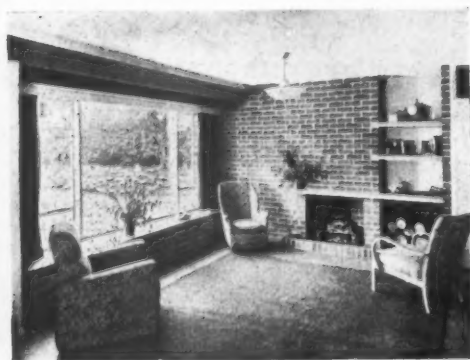
HOUSE AT REDBOURN, HERTFORDSHIRE



This house at Redbourn, Hertfordshire, was designed by F. M. Widdup, of the Peter Dunham Group, and R. S. Williamson. It was constructed by Mr. Williamson for his own occupation. The site is beside a lane just off Redbourn Common. No licence was granted originally for the house, but permission to build was given provided the work was done by the applicant himself with no paid labour. After the carcass was erected, the Local Authority granted a licence for the specialist work to complete the house.



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



The walls are of 11-in. cavity construction, rendered white. Sand-faced bricks with raked horizontal joints are used for the chimney. The timber framed roof is covered with cedar shingles. The floors have a solid concrete base and in the living room and bedrooms are covered with asphalt-based 9-in. by 9-in. grey tiles; the kitchen floor is covered with 6-in. by 6-in. quarry tiles. The fireplace wall in the living room is of local hand-made bricks, and the other walls of the living room and hall are of fair-faced bricks distempered white; bedroom, bathroom and kitchen walls are plastered. The ceilings are of fibre-board. The price for the house, with the land, was £1,200. Left, the interior of the living room.

RIBA

Distinction in Town Planning Awarded

The Council of the RIBA have conferred the RIBA Distinction in Town Planning upon Thomas E. North, borough architect and planning officer of the county borough of West Ham, for his outstanding services to town planning in the reconstruction of this heavily war-damaged borough.

MOTCP

Woodlands near Snowdonia Saved

The Minister of Town and Country Planning, Hugh Dalton, has used his powers to save a well-known stretch of woodland country on the Plas Madoc Estate, Denbighshire, near the area of the proposed National Park in Snowdonia. An appeal had been made by the Wrexham Saw Mills against the refusal of the Denbighshire County Council to permit the felling of 755 trees. Permission has been given by the Minister for the felling of 174 trees, which will be duly marked. Conditions imposed are that felling operations should be carried out so that damage to the remaining trees is avoided, and that all lop and top and deadwood should be removed and the area left clean and tidy.

Peak District Park Boundary

Sir Patrick Duff, chairman of the National Parks Commission, visited the Peak District recently with Lord Lawson, vice-chairman, and members of the Commission in order to study the possible boundary for the proposed Peak District National Park.

Tree Preservation Orders

The Minister of Town and Country Planning has confirmed a Tree Preservation Order in respect of two woodland areas on the Tilford Manor Estate, Hambledon Rural District, which was recently broken up and sold by auction. The two woodland areas cover about 20 acres and stand on land rising from the River Wey and overlook the village of Tilford. The Minister has also confirmed an Order for the trees standing in the grounds of Wotton Church in the Leith Hill area, Dorking and Horley Rural District. These trees surround the small 13th Century Church, which is closely associated with the diarist, John Evelyn.

LMBA

Talks on Building in US

Steps are being taken by the LMBA to let its members know all about the way things are done in the building industry in the United States. It has arranged for N. S. Farrow, who was a member of the Productivity Team, whose report has just been published, and who is a member of the LMBA administrative committee, to visit all its areas in turn to give an address on his impressions of the tour. He will also show a film on "productivity," taken in the United States by members of the team.

AA

Scholarships awarded

The council of the AA announce the award of the following scholarships in architecture at the AA School of Architecture: *The Leverhulme Scholarship* (value £1,000), J. P. Drinkwater, of Cheltenham (North Gloucester Technical College); *The Minter Open Entrance Scholarship* (value £100), J. Y. Bell, of Carlisle (Carlisle Grammar School and School of Art); *The Sir Walter Lawrence Open Entrance Scholarship* (value £100), D. J. Bottoms, of Northampton (Northampton Grammar School); *The Metal Window Scholarship* (value £75), presented by the British Metal Window Manufacturers' Association, Ltd., M. Denn, of London, N.W.10 (Willesden County Grammar School); *The Natural Asphalte Council Scholarship* (value £50), presented by the Natural Asphalte Mine-Owners' and Manufacturers' Council, K. B. Frampton, of Woking (Woking County Grammar School); *The Metal Window Senior Scholarship* (value £50), presented by the British Metal Window Manufacturers' Association, Ltd., A. J. Short, of Southsea (Southern College of Art, Portsmouth).

SCOTLAND

Housing in March

The number of new permanent houses completed in Scotland during March was 2,393, compared with 2,369 in the corresponding month last year. Altogether 103,470 houses (including 32,170 temporaries) have now been built in Scotland under the post-war housing programme. These figures are contained in the Department of Health for Scotland's quarterly housing return, published recently.

The return shows that during the first quarter of this year 6,208 new permanent houses were completed. Other accommodation made available by conversions, adaptations, etc., bring the total number of homes provided during that period to 6,289. March's total of 2,393 new permanent houses includes 2,299 built by local authorities, 48 by private enterprise, and 46 by Government departments. Houses under construction at the end of March totalled 29,787.

DIARY

A Quantity Surveyor's Views on the Relative Parts to be played by the various Components forming the Industry of Building. Col. H. A. Acland. At Hammersmith School of Building and Arts and Crafts, Lime Grove, Shepherd's Bush, W.12. 3.15 p.m. MAY 25

New Ideas in Furniture: Exhibition. At the Tea Centre, 22, Regent Street, S.W.1. (Sponsor, CID). Daily, 10.30 a.m. to 6.30 p.m. Saturdays, 10.30 a.m. to 12.30 p.m. UNTIL MAY 27

Annual General Meeting. Address by J. Wentworth Day. 66, Portland Place, W.1. (Sponsor, CPRE.) 2.30 p.m. JUNE 1

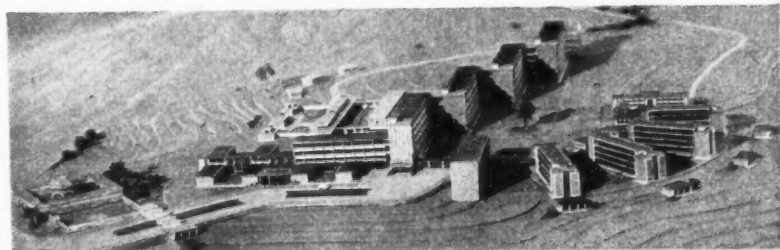
Exhibition of Drawings and Prototypes of the Day-Latimer Storage Units. At Messrs. Heal & Son Ltd., 196, Tottenham Court Road, W.1. Daily, 9 a.m. to 5.30 p.m.; Saturdays, 9 a.m. to 1 p.m. UNTIL JUNE 3

FURNITURE DESIGNED BY ARCON GROUP



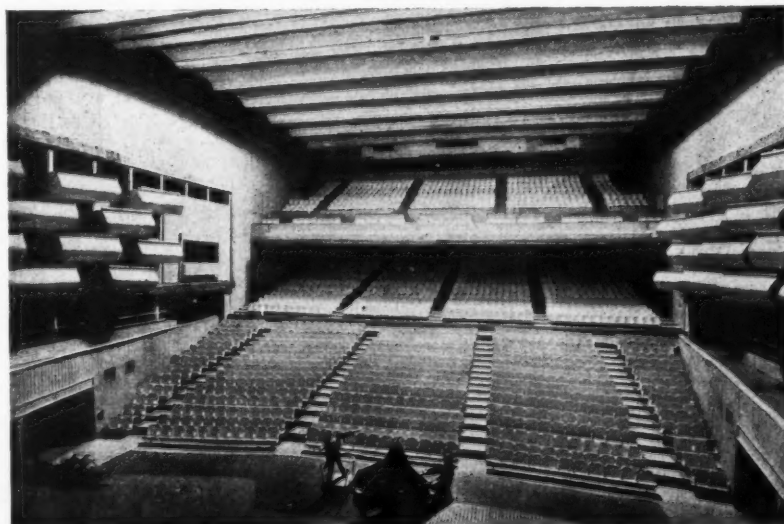
Above are some of the items of demountable furniture designed by Arcon for export purposes. The furniture will be made in the Southern Province of Tanganyika where the building of a sawmill and joinery works for the manufacture of prefabricated buildings and furniture has been sponsored by the Overseas Food Corporation as part of its development of the area.

NEW HOSPITAL FOR THE GOLD COAST



This model shows the design for a central hospital and nurses' training centre at Kumasi. It is one of several major projects scheduled for construction on the Gold Coast. A. F. D. Searle, chief architect of the Gold Coast Public Works Department, appointed A. G. Paton to be responsible for the design. The associate architect was J. P. Lomax and H. M. Clark was consulting architect.

MODEL OF LCC CONCERT HALL INTERIOR



A view from the stage of the model of the interior of the LCC concert hall.



The recently published reports of the MOW's Working Party on Building Operations and of the Productivity Team are reviewed here by Raglan Squire, architect, S. Marshall Andrew, builder, Professor Ian Bowen, economist, and R. Fitzmaurice of the DSIR, who this week takes up the appointment of Technical Editor of the JOURNAL.

REVIEW of Working Party and Productivity Team Reports

R. Fitzmaurice, Raglan Squire, S. Marshall Andrew, Professor Ian Bowen.

The first reaction to both these reports is one of disappointment. The building industry, and in that term we include: the professions, builders, sub-contractors, manufacturers and operatives, has been waiting for a long time for someone, omnipotent and kind, who would shake out the tangles into which it had become twisted, and to set it on its true course again. Both reports set out to do this, but neither go far enough. Nevertheless, congratulations are due to the members of the Working Party for producing an extremely comprehensive report which outlines clearly the complex structure of the building industry in this country, and to the Productivity

Team for their rather more critical and much more readable study of building techniques in America.

TWO FAILINGS

With that sincere salute to two competing protagonists we will now attempt, with some deference, to point out some of the failings of both these reports and to indicate those courses of action which will repay further study. Originally, the idea behind the formation of the Working Party was that men of vigorous mind, chosen mainly from the industries and professions concerned, should thoroughly and impartially examine an industry with a view to its technical improvement and development. This Working Party, however, seems to have played a rather different rôle. It refers, for instance, to the industry being "generally satisfied" with this or that arrangement, and its recommendations could not possibly be described as either vigorous or far reaching. The Anglo-American Productivity Team, on the other hand, does make some suggestions which might be described as revolutionary. The disappointing feature here is the absence of any scientific spirit in relation to the economic and sociological problems involved in the organization of a major industry. The report tends to gloss over the fundamental differences in the British and American way of life and in the economic structure of two very different societies.

NO SUGGESTIONS FOR IMPLEMENTATION

The disappointment felt on reading both reports is due largely to two main factors. Firstly, because neither report attempts to measure the effect of various recommendations for increased productivity against existing standards. For instance, the Productivity Team indicate the major circumstances which contribute to the higher productivity in the United States, such as a higher tempo of work, high morale, competition, pre-planning, plentiful materials, absence of control and so on. But they do not attempt to assess the quantitative effect of these factors. It is easy to list factors which will have an effect on productivity, but unless an attempt is made to judge the relative effect of each, it is unlikely that the industry over here will turn itself inside out (which is, in effect, what it would have to do if it were to adopt American methods) in order to attain an unassessable end.

A second cause for disappointment is the fact that no clear lead is given and no clear suggestions made for a method of implementing the reports. Two first-class teams have been assembled who have reviewed their respective fields, partially analysed their findings and have then packed up and ceased work.

The next step, obviously, is to ensure that certain concrete recommendations are made and that the industry starts to carry them out. The MOW should now promptly organize a conference of official representatives of all members of the industry with the object, firstly, of deciding which of the recommendations in the reports can be accepted and put into practise immediately, and secondly, of the steps to be taken to ensure that the industry carries out the measures decided upon. If nothing is done immediately, then the effect on the industry will be no greater than that of the mission, headed by Sir George Burt, whose report said much the same things at the end of the war.

[Since writing this, certain steps have actually been taken. It has been announced that the condition attached to the issue of building licences demanding the commencement of work within two months is no longer to be enforced, and Mr. Stokes, the Minister of Works, has met the National Consultative Council of the Building Industry to discuss further action to be taken by the industry.]

THE ARCHITECTS' TASK

There is one aspect of what can best be described as the production line in the building industry which is not dealt with as fully as it might be in either of the reports, and that is the sequence of cause and effect in the industry today, and how it will be affected by the adoption of some of the proposals made. To take an example, it is proposed that architects over here should adopt the American practice and complete, before putting out to tender, all working drawings, specifications and schedules to a degree considerably more numerous and detailed than is customary in Britain today. Supposing this to be done, and incidentally, it is doubtful if many British architects could readily prepare drawings of such complexity, it is extremely unlikely that, with the existing set-up, any firm of contractors would be sufficiently organized to take advantage of such an achievement. For instance, one advantage of having all the details cut and dried in advance is that the plumber can come on to the job immediately after the carcassing and be followed in turn by the finishing trades. If this were to be attempted here the carpenters and plasterers would mess up the work of the plumber, thus not only wasting time, labour and materials, but also destroying good relationships in what should be a co-operative building team. It will take many years to train the operatives in this country to a pitch of efficiency in this respect comparable with that of the Americans, and the contractors equally would be hard put to it to provide the synchronization of trades and material deliveries necessary to achieve the American slickness.

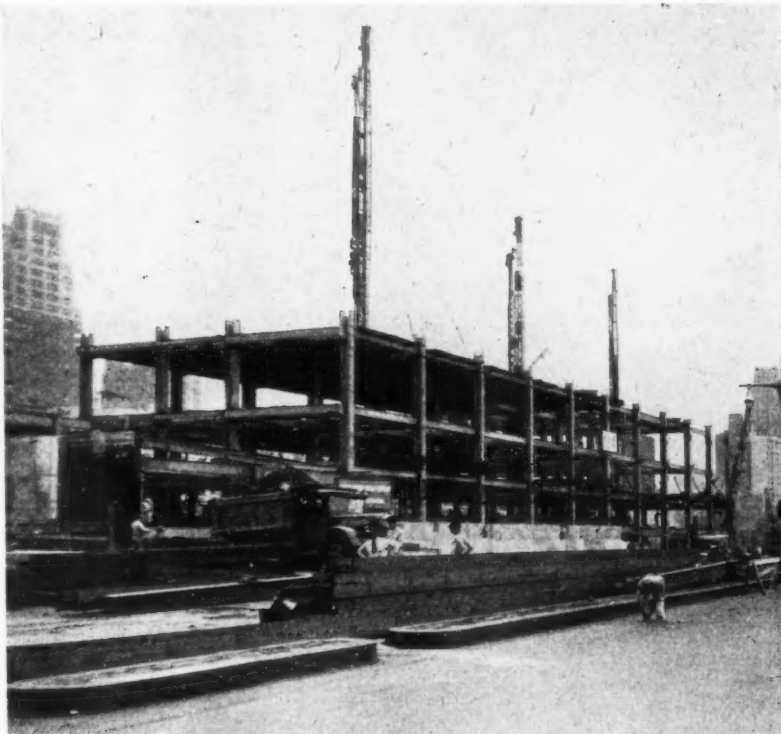
There are three further factors which materially reduce or negate the advantages of this detailed advanced work on the part of the architect: shortages of materials, delays and uncertainties with regard to the issue of licences and permits, and alterations in the programme on the part of the client.

THE ONUS ON THE ARCHITECT

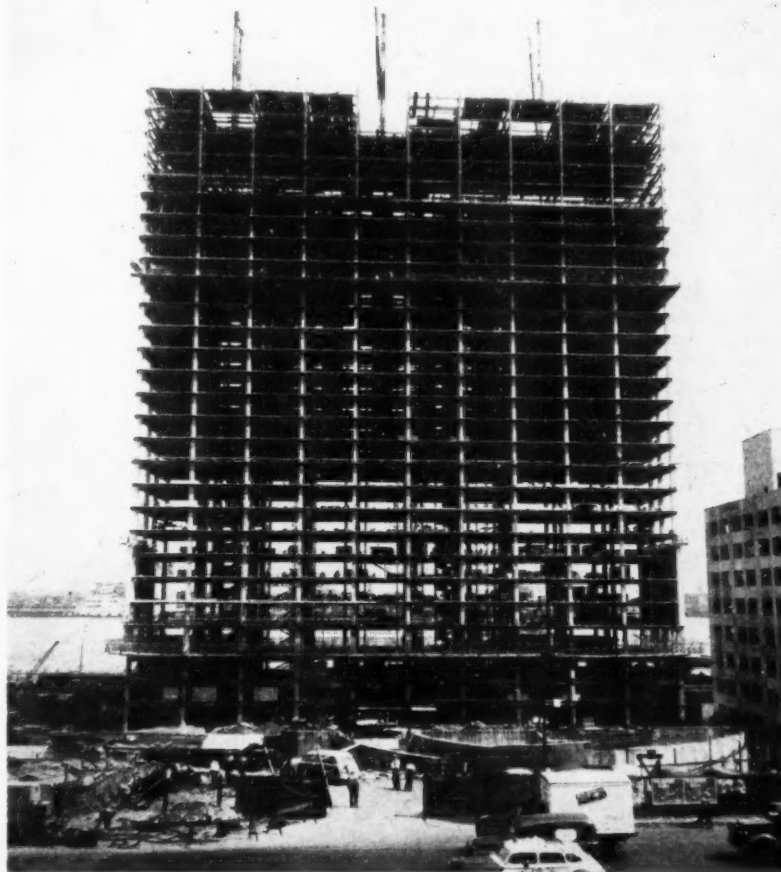
The sum of all these obstacles to progress would thus appear in this instance too large to be surmounted. However, there are steps to be taken which could begin to set the ball of efficiency rolling, some of which are suggested in the reports. The first, and most vital factor in the whole sequence of building operations at the moment is the attitude of the architect. He is the prime mover if many changes are to be made. The whole responsibility for improving efficiency in the industry now depends upon him, and on him alone. There is no doubt about it. If the architectural profession allows this opportunity to slip, its whole status in the industry may well be affected. The first task, therefore, that the architect has to attempt, is to learn to discipline his client, whoever he may be. He must learn to have a more businesslike relationship with him. For instance, once the design has been settled, no alterations should be allowed. Once the working drawings have been commenced, the whole machinery of building production should have been got under way, and any changes from that point on must be prevented. The provision for alterations in the scale of fees is not an adequate safeguard. At the best it only tends to cause a loss of goodwill. The vital point is that full confidence must be established between the client and the architect so that no interference from the building owner will affect the sequence of production.

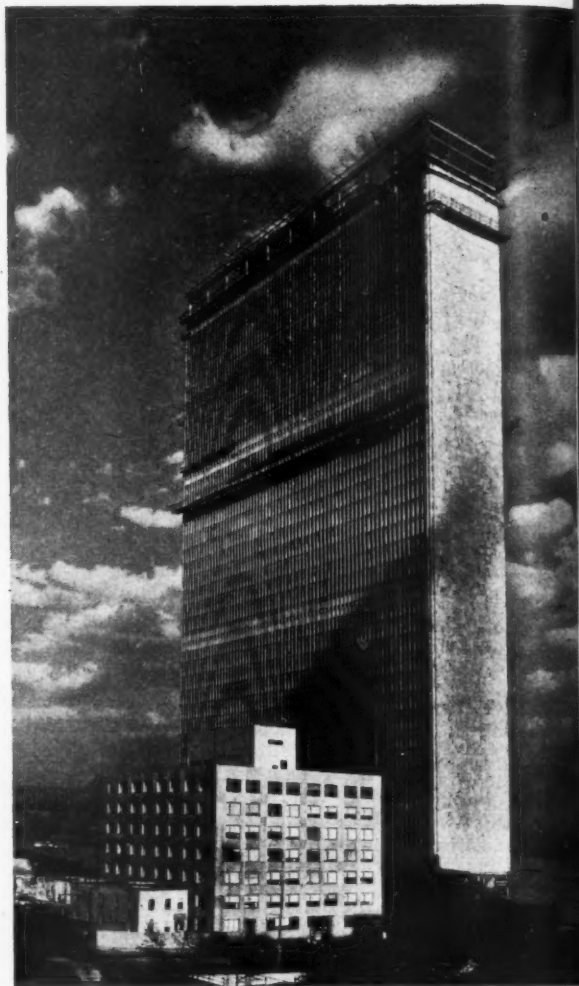
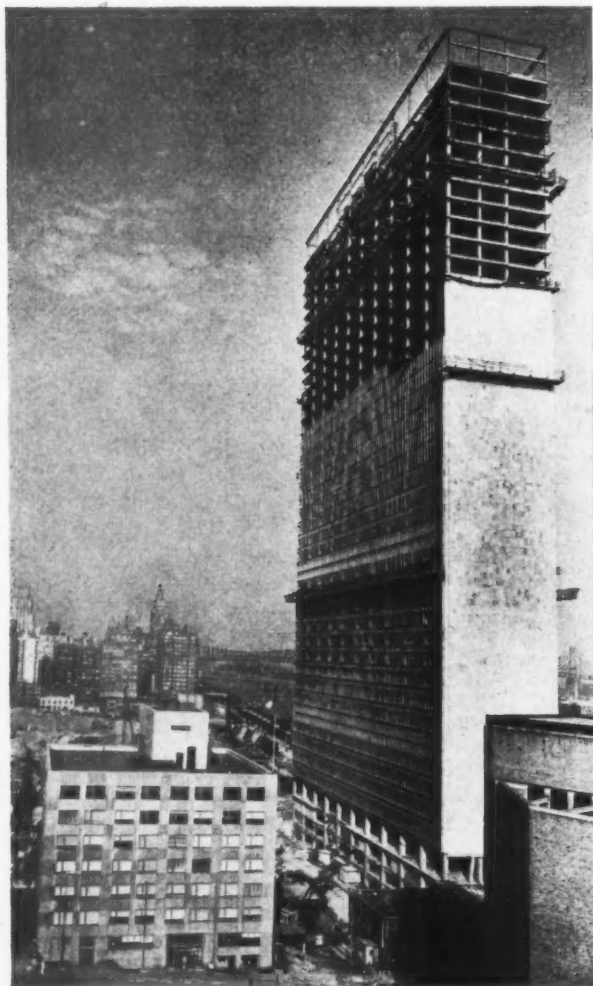
The second task for the architect, and one to which both reports pay some attention, is that he should make an attempt to follow the American pattern. This means considerably more work being done in advance than is the practice now. All the working drawings, specifications, schedules and bills of quantities (the latter, incidentally, are not taken in America) in fact, all the information needed by the builder to enable him to fulfil his function properly, must be completed before tenders are invited.

If the architect can manage to improve his performance on these lines the second step to higher productivity will have been taken. The good results will not necessarily follow immediately, but the opportunity for the keen, enterprising contractor, fore-armed with this knowledge, to effect a cut in prices, will have been made, and this opportunity



Above, the United Nations Secretariat Building in New York on May 23, 1949. Below, the same building on August 19, 1949. These photographs, reproduced from the Productivity Team's report, show clearly the speed of American construction. See next page for further progress photographs.





Left, the United Nations Secretariat Building in New York on October 20, 1949. The east and west facades are composed of grids of aluminium and glass, the short north and south facades are of Vermont marble with brick backing. Right, the same building, only a month later, on November 21. The heating system was in operation so that interior work could go on throughout the winter. See also previous page.

will sooner or later be taken, thus causing other contractors to follow suit. Once the architect has organized his job well, the contractor can begin in his turn to plan, and so on, all the way down the production line.

There is a third step which the architect must take to ensure greater efficiency and higher productivity to which we will return later, but from the foregoing points a general picture of the suggested version for practice procedure can be built up.

CONTROLS

These remain the main impediment to replanning in this country: the question of controls, shortages and licences. These all tend to cause uncertainty and therefore hamper preplanning and lower morale. Both reports emphasize that the methods of control should be kept continuously under review, but this,

in our view, does not go far enough. Licensing authorities should be made to realize their responsibility to the industry as a whole. It is time a panel was set up to study the question of licensing in all its aspects so as to ensure that a speedier and more reliable system of control can be evolved.

PERSONNEL

We agree with most of the points made by the Working Party under this heading and would emphasize three of them. Firstly, that the apprenticeship scheme, though an excellent one, trains boys in highly skilled crafts at which they can get singularly little practise in the building world today and which may well never be in great demand again. Secondly, that greater efforts should be made towards getting a more intelligent type of man in the supervisory grades of the building industry. Thirdly, archi-

tectural students should receive more practical training, both as regards office work and work on the site. "... his training should give him adequate knowledge of the practical aspects of building; he should be prepared to adopt new materials and methods whenever appropriate." It is worth noting here that the American student after a five-year course at school must have had three years' practical experience under a licensed architect before he is eligible to take the admission examination to the State Register.

LABOUR PRODUCTIVITY

High labour productivity in America relies on three things: fear of unemployment, the high effect on morale of belonging to one of the best paid and most efficient industries in America, and a rising standard of living. There is no incentive bonus, such as we have over

here. With regard to the first factor, we all hope that it will never again act as an incentive in this country. The second and third are not operating very effectively at the moment, but may do so in time. Clearly, then, we must rely on some form of bonus scheme to obtain increased output. The important point is that incentive schemes must not be related only to quantity but also to quality. This does not receive nearly enough attention in either of the reports. Some system of incentive payment is always possible, whatever the kind of job, if need be in the form of profit sharing. However, a further source of increased production lies in better tools and equipment, and a third and less tangible source lies in the inculcation of an effective team spirit among the operatives and the industry as a whole.

IMPROVING TECHNICAL PERFORMANCE

We now come to another of those sequences of cause and effect. The Working Party report tritely says that building bye-laws should be kept up to date and promptly amended, and should take account of British standard specifications and codes of practice. No suggestion is made as to how this action can be assured, and yet the question of out-of-date bye-laws is one of the factors which hamstrings building research and development in this country.

Building regulations are usually very simple, rule of thumb procedures which do not represent the highest economy possible in building. They take that form because the person doing the building work may have very little qualification for doing it. Unfortunately, competent people have to abide by them as well, and that is why they are so restrictive. They are designed to cope with both the unprincipled and the incompetent, and people of honesty and competence and those anxious to experiment are handicapped by them. The essential point is that it is the performance of the structural and material side of a building which mainly requires the controlling influence of bye-laws. By comparison, the means adopted to attain the desired amenity and performance do not matter at all. This desirable state, however, can never be reached until the bye-laws do not have to cater for knaves and fools. The latter, at least, can be removed by the qualitative registration of builders. This is not recommended by the Working Party and it is hard to see why.

RESEARCH

The Working Party are against research being carried out by the industry itself. Some time ago Sir Reginald Stradling suggested that there should be a development and research council which the industry could sponsor. The re-

search would be financed by a small levy on contracts completed. Such a system would surely make the partnership between the industry and research much closer, and, in addition, there would be an extra incentive for the industry to use an organization for which it was itself paying. It is interesting to note that such a method has been adopted in France, where both the professions and the builders support a technical building institute which sponsors the building research station of the country.

COSTING

This is a subject which has received too little attention from architects. The major problem before the industry today is to reduce costs and to make everyone costing-conscious. Adequate costing is an essential factor in management, as the Working Party report says. A point not emphasized, however, is that the architect should try and ensure that he knows the probable cost of isolated elements in his design and should endeavour to establish the machinery whereby he will have ready access to the costing system of his builder.

MATERIALS AND MECHANICAL AIDS

Both reports have been extremely feeble when dealing with these subjects. They both need very much more detailed treatment than either party was apparently able to give.

LAYOUT OF PERSONNEL

We now come to our last point, and a very fundamental one, which is not touched upon at all in the Working Party report, and only very briefly on page 9 of the Productivity Team report, paragraph 5, where reference is made to "several architect-engineer-contractor organizations which undertake both the design and the execution of work. Although few in number, such firms carry out a great deal of work in all parts of the United States and abroad."

The building industry is probably the only industry in the world in which the functions of design and of manufacture or construction are carried out by separate independent entities. For instance, in shipbuilding, aircraft and motor-car construction and nearly all of the large industries, the design element is a part of the one organization concerned in carrying out the particular operations in hand. In the traditional building industry, however, there may be as many as three or four separate professional firms all collaborating on the design of one project which may ultimately be built by a team of builders or by a building firm sometimes completely strange to the design teams that have worked out the plans. This fact is due largely to the manner in which the building industry in this country has

developed. The position is now further consolidated by the fact that the architect, at any rate, is not allowed by his code of practice to become a director of a building organization.

In the case of civil engineers, this is not so, and it is interesting to note that many large civil engineering concerns today do carry professional design members on their boards. Thus any large project can be tackled at the outset on the basis of complete collaboration between the design and construction elements of that one particular firm.

This point is significant in so far as the more involved modern building technique becomes the more important it is that such collaboration should exist. It is interesting to note that this fact is recognized, in a sense, by what might be termed the subterfuge of the nominated sub-contractor.

By nominating a certain sub-contractor for a special job before a contract ever proceeds to tender, the architect may, in fact, collaborate with the firms he intends to nominate and it is significant that the principle of the nominated sub-contractor is becoming more and more used today. This device, while enabling the architect to collaborate with the manufacturers of complicated special installations, still allows the appearance of a competitive price for a complete job to be obtained. It is not, however, possible by this method to collaborate with the principal construction element of the contract (*i.e.*, the main building) as the builder of this must still, by precedence, be selected as a result of competitive tender. A further step has recently been taken by the method of employing builders on a competitively priced schedule. Such a schedule may be priced before design work is completed, and the selected builder may then be called in to advise upon matters of layout and design.

These devices have merely evolved owing to the increasing necessity of closer collaboration and in themselves, as such, are useful. They are still, however, only temporary in nature and it may be that permanent collaboration between a team of architects, engineers and contractors under one controlling organization will ultimately prove the most efficient pattern for building.

Such a suggestion, however, implies a very considerable overhaul of the existing status and relationship of the professions to the building industry. If such developments are likely, it is of paramount importance that the architectural profession should ensure that they are represented at the top level in any such organization. The results on architecture as an art would be disastrous if such organizations as we have suggested were to be formed without the professions, and particularly the architect, having the principal say in the operation of that concern.

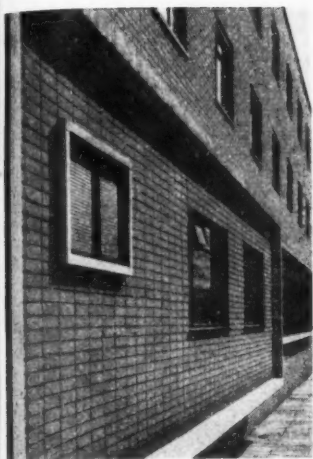
NURSES' HOME EXTENSION

at ST. JOHN'S HOSPITAL, LEWISHAM, S.E.13
designed by BERTRAM CARTER

A scheme for the complete rebuilding of St. John's Hospital has been approved in principle. An extension to the nurses' home, erected in 1937, forms the first part of this scheme. Allowance has been made for the addition of two floors at the south end ; the columns and bases have been strengthened with this in view.

From the south-east.





Above, built-out windows to the study and ante-room. Right, view from the south-west with the original nurses' home on the left.



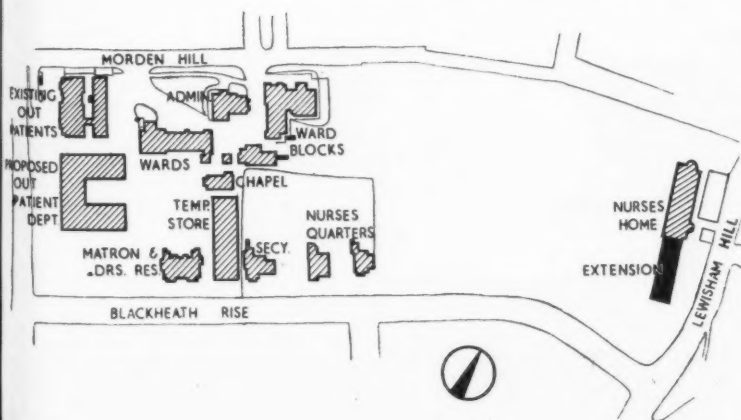
SITE.—The nurses' home lies at the eastern end of the long 7-acre hospital site. It has a north-south axis and gives equal sunlight to all bedrooms. The outlook is over Blackheath to the east and over gardens and a wide valley to the west.

PLAN.—The sitting rooms, which are placed on

the south side of the second and third floors, will become bathrooms, etc., when the proposed additional floors are built.

CONSTRUCTION.—The new wing has a cantilevered reinforced concrete frame with 11-in. cavity brick walls externally and 4½-in. brick and 3-in. and 2½-in. breeze partition walls. The ceiling of the lecture theatre is of 9½-in. hollow tiles with reinforced concrete beams within the slab thickness. The other floors and the roof are of 4½-in. reinforced concrete slabs. All reinforced concrete beams and columns in the extension are concealed, except for the isolated columns in the lecture theatre, demonstration room and ante-room.

FINISHES.—Roofs are covered with ½-in. insulation board, ¾-in. asphalt, and 1½-in. shingle as insulation. The windows are coupled steel domestic type. This was the only type available. (The coating of black bitumen paints was asked for.) The balcony

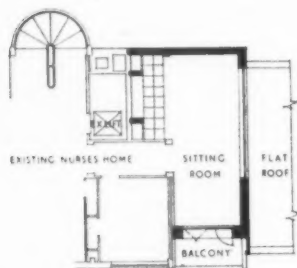


Site plan

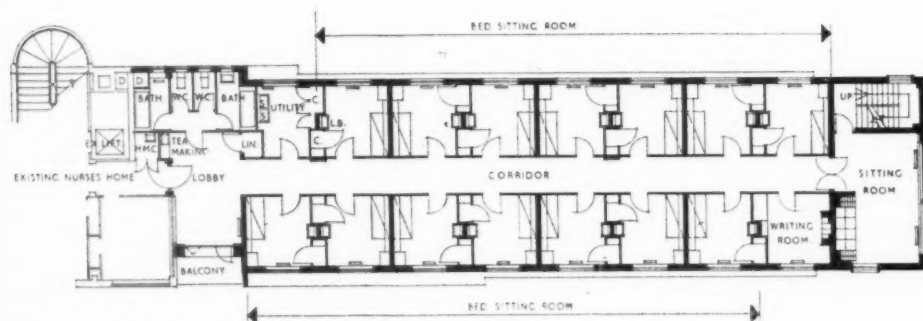
balustrade is of tubular aluminium. Floors: hair cord carpet laid over felt on building paper direct to screed in the bedrooms; pile carpets of rust and blue in the sitting rooms; grey rubber tiles in corridors and bathrooms; rubber squares in lecture theatre; wood blocks on stage; composition tiles in entrance hall and jointless cement-mastic in demonstration room. Walls: distempered mushroom in bedrooms; painted stone grey in lecture theatre; panelled with hardboard, painted blue with white joints, around proscenium opening; painted grey in corridors. Lecture theatre radiators are blue. The ceiling of the lecture theatre is painted a matt sky blue.

NURSES' HOME EXTENSION

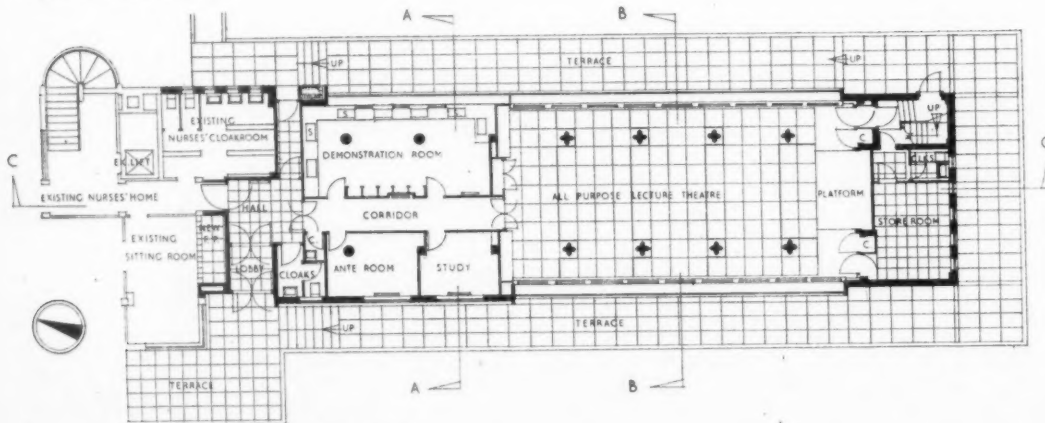
at ST. JOHN'S HOSPITAL, LEWISHAM, S.E.13
designed by BERTRAM CARTER



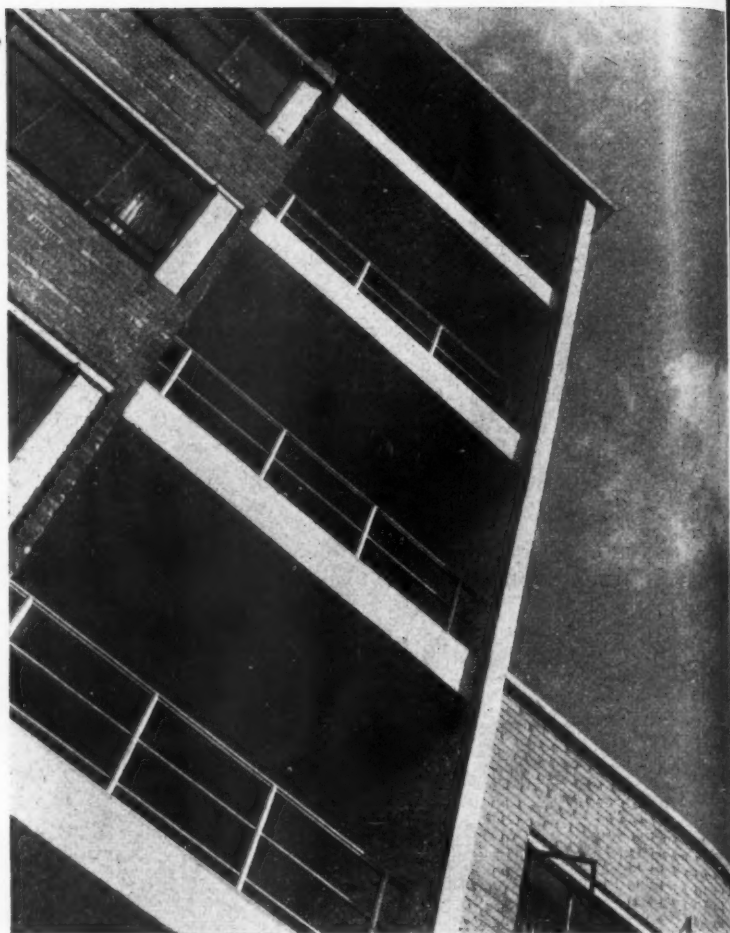
Second and third floor plans



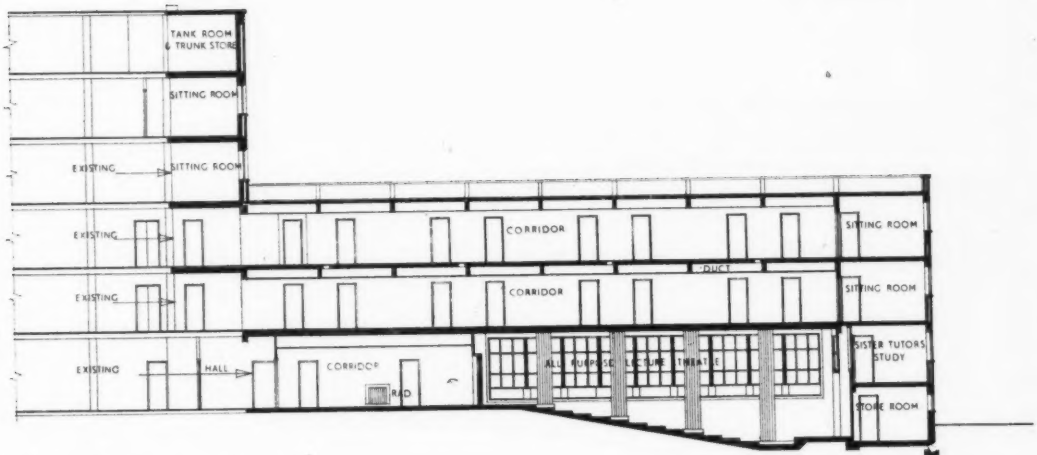
Upper ground floor plan



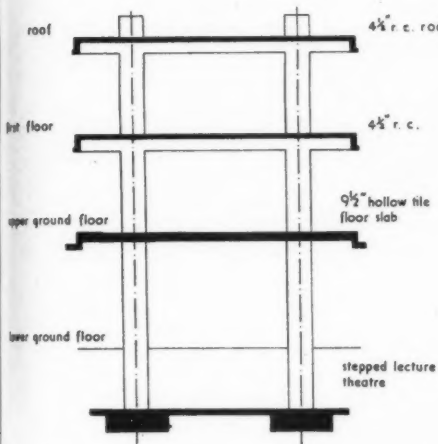
Lower ground floor plan [Scale: 1/4"=1'0"]



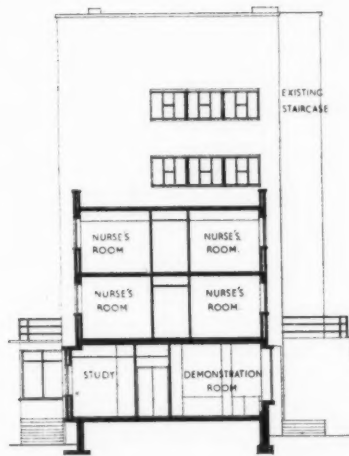
Above, part of the west façade showing the juncture of the new extension and the original home on the left.



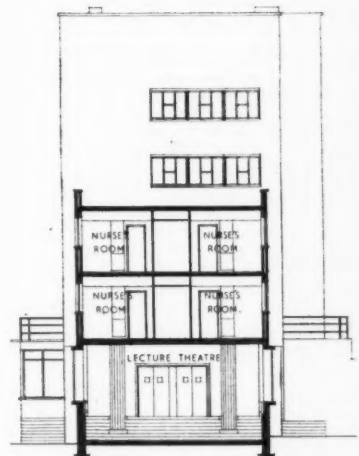
Section C-C [Scale: $\frac{1}{4}'' = 1'-0''$]



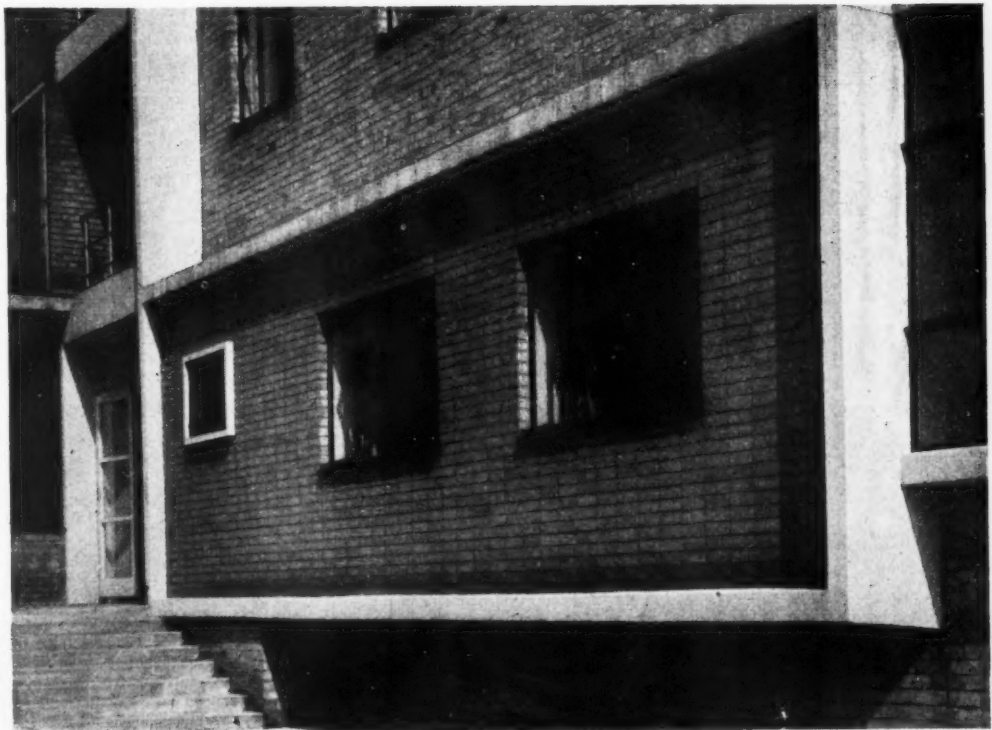
Principle of frame construction [Scale: $\frac{1}{8}'' = 1'-0''$]



Section A-A



Section B-B



Right, the entrance and windows to the study and ante-room in the north-east corner of the new extension.

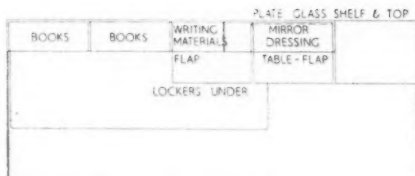


Bed-sitting room fitment.

EQUIPMENT.—The bed-sitting room furniture was designed by the architect. Each room has a settee which draws out from the wall on rails to full bed width. Above is a wall unit of natural waxed mahogany for books, writing materials, dressing requisites, etc., with a chest of drawers adjoining. In the lecture theatre the windows along the east and west sides are operated by special

NURSES' HOME EXTENSION

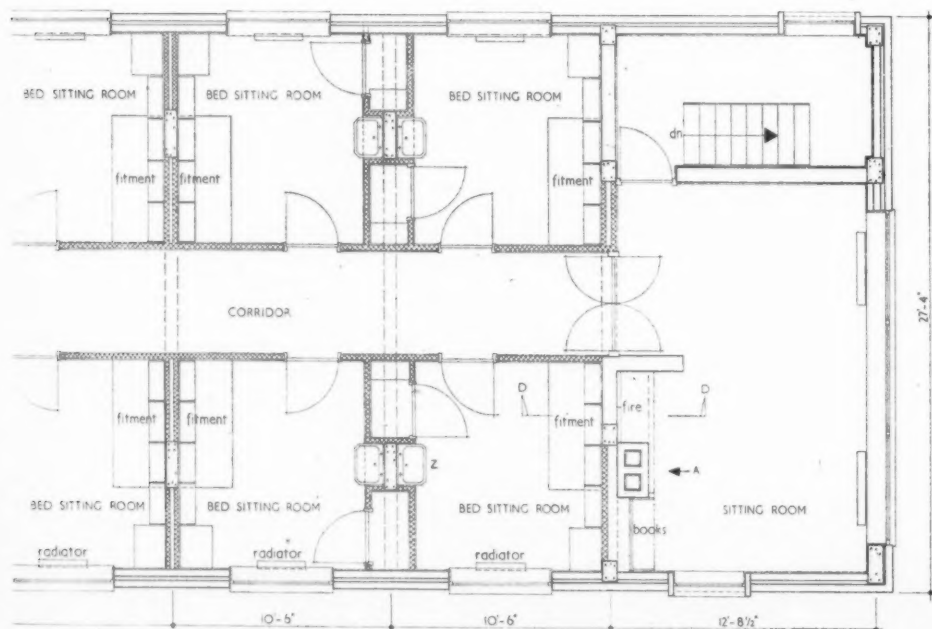
at ST. JOHN'S HOSPITAL, LEWISHAM, S.E.13
designed by BERTRAM CARTER



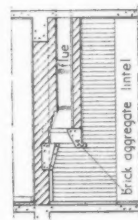
Plan of fitment [Scale: $\frac{1}{4}$ " = 1'0"]



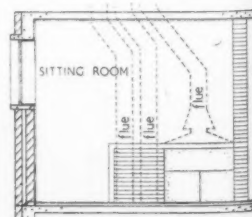
Isometric projection [Scale: $\frac{1}{4}$ " = 1'0"]



Part of first floor plan [Scale: $\frac{1}{8}$ " = 1'0"]



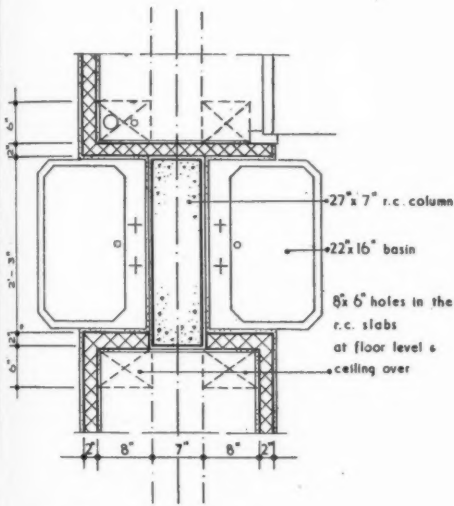
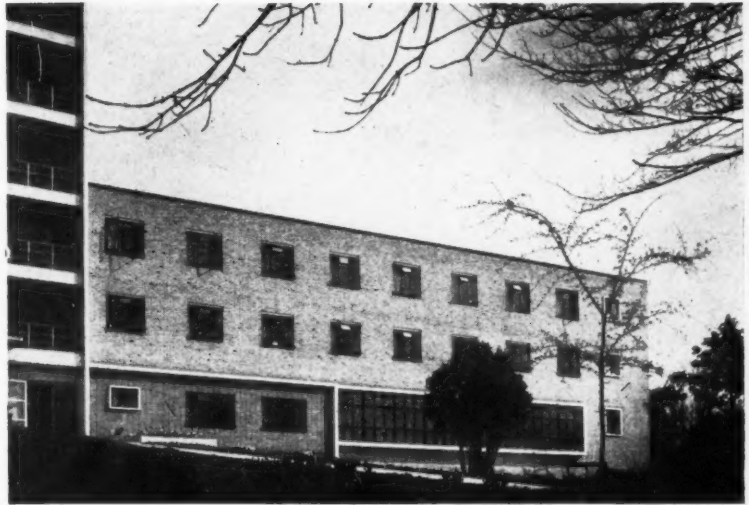
Section D-D
[Scale: $\frac{1}{8}$ " = 1'0"]



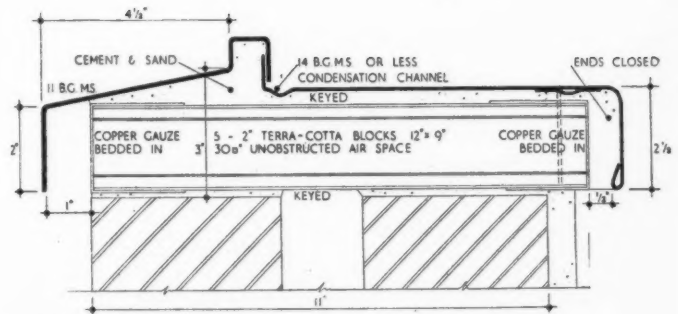
Elevation at A [Scale: $\frac{1}{8}$ " = 1'0"]

gearing whereby the top vents can be opened and closed by one handle over the 47-ft. run. The demonstration room is equipped with laboratory benches and fittings. A portable lecture desk of laminated cellular board and a sink are provided in the lecture theatre.

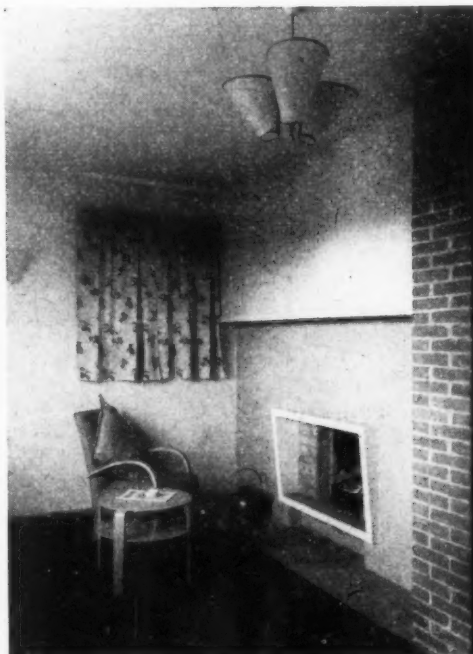
SERVICES.—Heating: a low-pressure hot-water system. Hot water supply: a domestic hot-water system. Both are provided by coke-fired boilers. These two installations, together with the cold water supply, run in a service duct at ceiling level on the upper ground floor. They serve fittings above and below this level and pass through prepared holes in the beams. The contract price was £35,390, including all built-in furniture. The general contractors were Thomas & Edge, Ltd. For list of sub-contractors, see page 652.



Detail at Z [Scale: 1/4" = 1'0"]



Detail of under-cill ventilation [Scale: 3" = 1'0"]



Above, the west façade. Extreme left, a built-in wash basin between wardrobes, in a bed-sitting room. Left, an open fireplace in a sitting room.

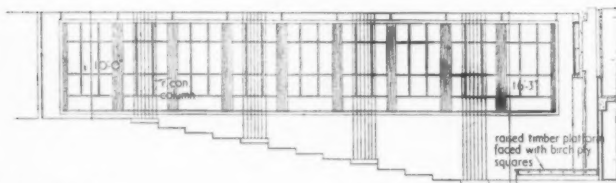


Left, the lecture theatre on the lower ground floor, looking towards the platform.

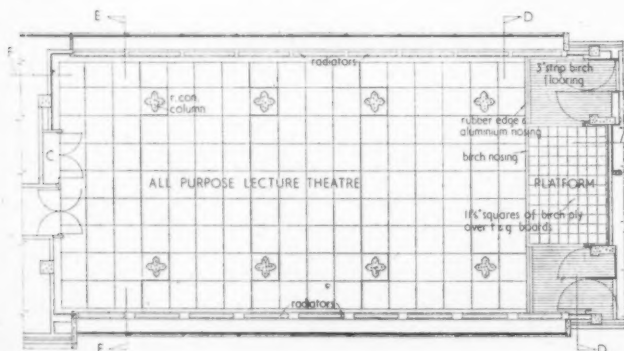
NURSES' HOME EXTENSION

at ST. JOHN'S HOSPITAL, LEWISHAM, S.E.13

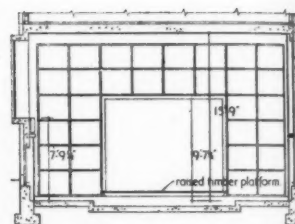
designed by BERTRAM CARTER



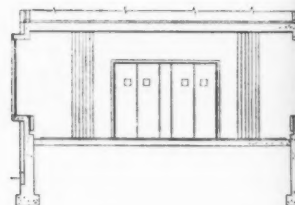
Section F-F



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

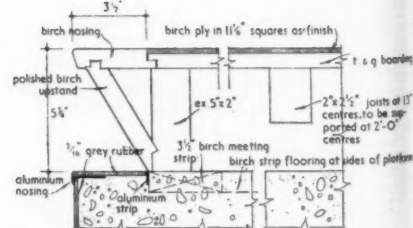


Section D-D



Section E-E

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



Section through front of platform [Scale: $\frac{1}{8}'' = 1'-0''$]

EXHIBITION STAND

for SCOTTISH FURNITURE MANUFACTURERS' LTD.
at BRITISH INDUSTRIES FAIR, EARLS COURT
designer of stand and co-ordinating architect : BASIL SPENCE

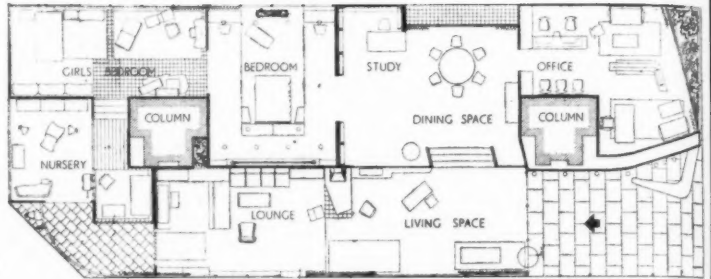
The stand has been arranged to show the interior of a house of good contemporary American design. Seven of Britain's leading furniture designers were commissioned to provide designs for the various rooms ; Jacques Groag for the lounge ; Brian O'Rorke for the dining space, R. D. Russell and R. Goodden for the study and bedroom ; Neville Ward and Frank Austin for the girl's bedroom and nursery and Dennis Lennon for the office.

Part of the living space and lounge.



EXHIBITION STAND

for SCOTTISH FURNITURE MANUFACTURERS' LTD.
at BRITISH INDUSTRIES FAIR, EARLS COURT
designer of stand and co-ordinating architect: BASIL SPENCE



A corner of the study showing the bookcase: shelf, glazed front and fall front units are fitted any height. Structural moulds and veneers are of walnut.

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



THERMAL INSULATION | GENERAL DATA

28.A2

The Architects' Journal Library of Information Sheets 277. Editor: Cotterell Butler, A.R.I.B.A.

THERMAL CONDUCTIVITY AND RESISTIVITY OF VARIOUS BUILDING MATERIALS

This Sheet, the second of a group on thermal insulation, tabulates the thermal conductivity and resistivity of various building materials. The figures given are those of the National Physical Laboratory, with the exception of those for beech, deal, pitch pine and teak, which are Forest Products Research Laboratory figures. The units used are as follow:

Density : lb. per cu. ft. (dry weight).

Moisture content : Per cent. of dry weight.

Conductivity k : B.th.u. per sq. ft. per hour per deg. F. diff. per in. thickness. (To convert to calories per sq. cm. per sec. per deg. C. diff. per cm. thickness multiply values given by 0.0003445).

Resistivity $\frac{1}{k}$: Deg. F. per in. thickness for one B.th.u. per sq. ft. per hr.

Material	Density	Conductivity	Resistivity	Material	Density	Conductivity	Resistivity
Aluminium foil (emissivity 0.10 or less)				Cork			
plain sheets $\frac{1}{8}$ in. apart ..	—	0.27	3.70	granulated, raw	5.4	0.33	3.03
crumpled sheets	—	0.3	3.33	granulated, baked	7.3	0.36	2.78
value depends upon degree of contact between sheets				slab, raw	6.5	0.27	3.70
Asbestos cement sheet ..	85	1.5 to 2.0	0.67 to 0.5	slab, baked	10	0.34	2.94
	125	3.0	0.33	slab, soaked in water for one month	7	0.27	3.70
Asphalt	140	8.5	0.12	slab, high density	10	0.31	3.23
Bitumen	66	1.1	0.91	with cement binder	8†	0.34	2.94
composition for floors ..	150	5.9 at 79° F.	0.17	with bitumen or asphalt binder	16.5	0.34	2.94
bitumen emulsion, cement and aggregate	100	3.2	0.31	with rubber latex binder ..	17.5	0.49	2.04
	125	4.2	0.24		15	0.38	2.63
Brickwork					65	2.0	0.50
common bricks*	110	8.4	0.12		20	0.43	2.33
pressed engineering	137	5.5	0.182		60	1.25	0.80
diatomaceous*	44.6	0.99	1.01	Eel grass	4.8	0.27	3.70
firebrick	125	7.4 at 800° F.	0.135	Felt			
sand-lime	115	7.5	0.13	hair	5	0.27	3.70
Building paper	—	0.45	2.22	wool	8.5	0.26	3.85
Coke breeze slab (aggregate to pass $\frac{1}{2}$ in. sieve)	—	4.0	0.25	Fibre building board			
Concrete*				insulating board	15	0.37	2.70
ballast 1 : 2 : 4	140 to 155	10.0	0.10		25	0.45	2.22
cellular	20	0.58	1.72	insulating board, fire-proofed	18	0.40	2.5
clinker, light	80	3.0	0.33	medium hardboard	35	0.55	1.82
heavy	95	2.3	0.44	hardboard	47	0.65	1.54
expanded slate, light ..	55	1.7	0.59		63	1.0	1.0
heavy	68	2.1	0.48	Glass	157	7.3	0.14
foamed slag 1 : 2½ : 7½ ..	65	1.7	0.59	fibre	9	0.28	3.57
no fines 1 : 6				cellular slab	11	0.44	2.27
expanded clay	67	2.5	0.40	Granite	165	20.3	0.05
Accrington brick	115	5.2	0.19	Linoleum, inlaid	77	1.3	0.77
no fines 1 : 10				Marble	170	17.4	0.06
foamed slag	41	1.2	0.83	Mortar			
whinstone	120	5.1	0.20	cement : sand 1 : 3	—	7.8	0.13
pumice 1 : 2½ : 7½	45	1.3	0.77	cement : sand 1 : 4	—	7.7	0.13
sawdust concrete—cement:				compo—Portland cement :			
sawdust 1 : 2	66	2.6	0.38	hydrated lime : sand			
sawdust concrete—cement:				1 : 3 : 9	116	4.8	0.21
sawdust 1 : 4	45	1.35	0.74	lime : sand 1 : 2	—	3.3	0.30
sawdust concrete—cement:				Paper	68	0.96	1.04
sawdust : sand 1 : 1½ : 1½	90	5.0	0.20	Pisé			
				Peterborough clay : gravel			
				2 : 1	—	8.7	0.12
				Pitch	—	1.0	1.0
				mastic	115	4.7	0.21
					140	7.5	0.13

* Specimens conditioned in an atmosphere at 64°F and 65 per cent. relative humidity.

† Actual density 12.0 owing to 50 per cent. moisture content.

28.A2 THERMAL CONDUCTIVITY AND RESISTIVITY OF VARIOUS BUILDING MATERIALS

Material	Density	Conductivity	Resistivity
Plaster			
gypsum	80	3.2	0.31
lime, sand, cement	90	3.3	0.30
sand, cement	98	3.7	0.27
sand, gypsum	88	4.5	0.22
Plastics			
cellular	6	0.26	3.85
.. ..	11	0.30	3.33
sheet	—	1.0 to 3.0	1.0 to 0.33
Rubber			
latex, cement and aggregate	80	2.2	0.45
.. ..	120	4.0	0.25
sponge	10	0.3	3.33
.. ..	15	0.38	2.63
Sand, building, dry ..	94	2.1	0.48
Sawdust	12	0.41	2.44
Cement slab	45	1.2	0.83
.. ..	75	2.7	0.37
Slag wool			
felted	11	0.29 at 105° F.	3.45
loose	15	0.31	3.23
water repellent	8 to 11	0.27	3.70
Slate	170	13.0	0.08
Soil			
Brighton chalk crushed	—	1.7	0.59
(moisture content 0)	—	3.8	0.26
(moisture content 10)	—		

Material	Density	Conductivity	Resistivity
Liverpool clay	130	12.0	0.08
Stoneware	135	10.0	0.1
Strawboard	16	0.6	1.67
Thatch, straw	15	0.5	2.0
Tiles			
burnt clay	120	5.8	0.17
concrete	135	8.0	0.125
cork	33	0.58	1.72
Timber (across grain)			
beech	44	1.16	0.86
deal	38	0.87	1.15
oak	48	1.11	0.90
pitch pine	41	0.96	1.04
plywood	33	0.96	1.04
teak	45	0.96	1.04
Vermiculite exfoliated mica			
aggregate and cement ..	45	1.4	0.71
.. ..	60	2.0	0.5
aggregate and plaster ..	30	0.9	1.11
loose granules	5 to 7	0.45	2.22
Wallboard			
plaster	60	1.1	0.91
wood pulp	5.5	0.29	3.45
Wood wool			
cement slab	30	0.6 to 0.7	1.67 to 1.43

Further Information.

Structural Insulation Ltd., maintains a technical department for the preparation of thermal insulation and heat loss calculations, which is available to advise on problems dealing with this subject generally.

Compiled from information supplied by :

Structural Insulation Ltd.

Address : 5, Queen Anne's Gate, London, S.W.1.
Telephone : Whitehall 4176/7.
Telegrams : Thermecon, Parl, London.

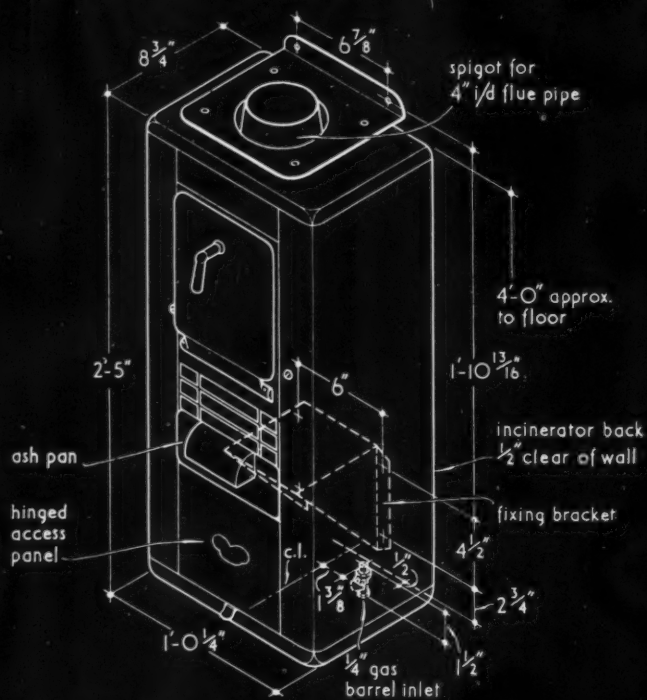
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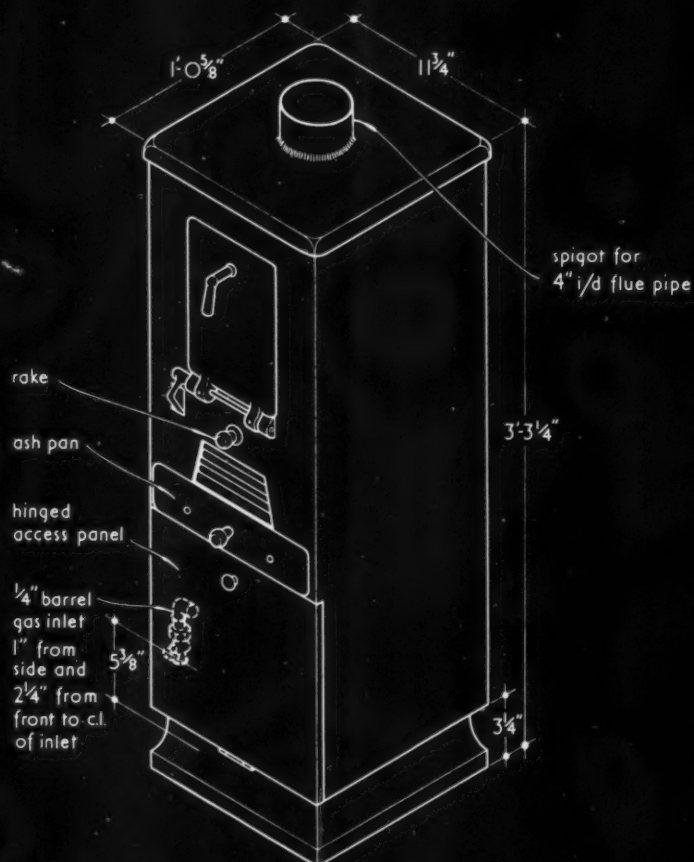
SANITATION | DISPOSAL UNITS

33.K1

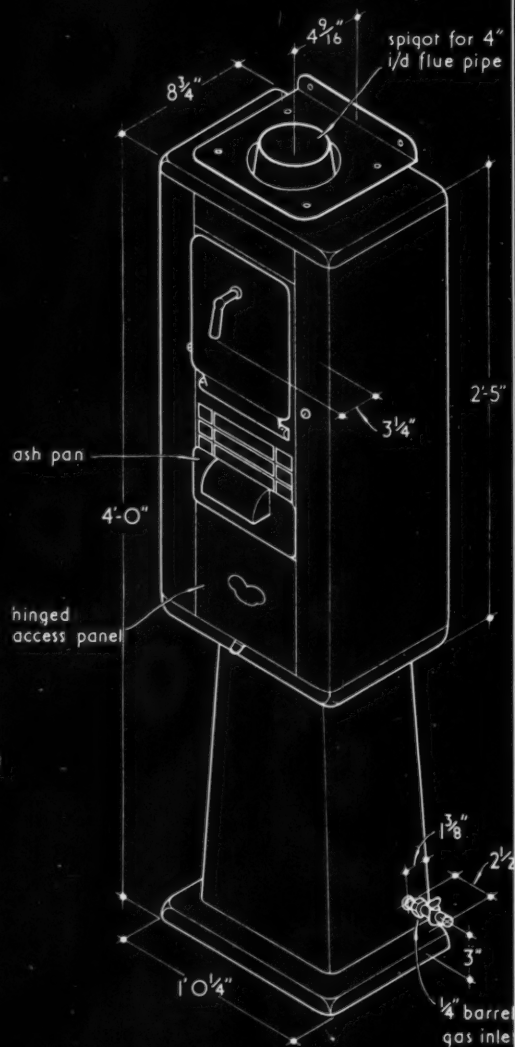
The Architects' Journal Library of Information Sheets 278 Editor: Cotterell Butler, A.R.I.B.A.



WALL MOUNTED TYPE NO. 3705.



FLOOR TYPE NO. 3700.



PEDESTAL TYPE NO. 3706.

33.K1 GAS-FIRED INCINERATORS

This Sheet describes a range of gas-fired incinerators. Three types are available—floor, pedestal and wall mounted. The incinerators effect the immediate disposal of infected swabs, dressings, sanitary towels etc. and are for use in hospitals, surgeries, institutions, stores, offices, factories, schools etc.

Capacity

The capacity of the combustion chambers of the smaller models, Nos. 3705 and 3706 is 488 cubic inches. The larger model, No. 3700, has a capacity of 756 cubic inches. Incinerators may be bulk loaded to full capacity without impairing combustion, as an auxiliary flue is provided within the casing. For bulk loading a longer burning period may be required.

For use in hospitals one incinerator per ward or, elsewhere, one per ladies' cloakroom provides the most convenient arrangement and minimises handling of undesirable material

Operation

The action of the incinerator is automatic, the burner being ignited by the opening of the door. After a pre-set period the burner is extinguished by a patent automatic cut-off device which controls the burning time and is adjustable between 3 and 120 minutes. The normal setting is 10 to 15 minutes; longer periods are necessary where bulk loading is commonly carried out.

Construction Generally

Wall mounted (No. 3705) and pedestal (No. 3706) types: Made with sheet steel inner casing, cast aluminium door frame and grille, cast door with vitreous enamelled cover plate, sheet metal hopper, cast iron crown plate and fire bars with automatic ash disturber, vitreous enamelled sheet metal ash pan with polished cast aluminium handle. The fire-box is lined with firebrick. The removable surround is of sheet metal finished in stove enamel. The matching pedestal is of sheet metal with cast base.

Floor type (No. 3700): This model is of larger capacity than the wall and pedestal models. The front, top and door are of vitreous enamelled cast iron and the back and sides of vitreous enamelled sheet steel. The base is cast iron. The incinerator is fitted with a manually-operated agitator for clearing the cast iron fire bars. The firebox is lined with firebrick, and the ash pan is vitreous enamelled sheet metal.

Installation

Position: The position is usually decided with reference to the convenient running of the flue and accessi-

bility to the users. The wall mounted type (No. 3705) is complete with concealed brackets. Other types are free-standing but the pedestal model should be fixed to the wall at the top for additional stability. Normal methods of fixing are applicable.

Gas Connections: For all types $\frac{1}{2}$ -in. barrel gas inlet. In the case of the floor type the connection is normally on the left-hand side. The pedestal type is connected on the right-hand side unless otherwise ordered.

Gas Rating

Wall mounted and pedestal types (Nos. 3705 and 6): 12.5 cu.ft./hr. of 500 c.v. gas, at 25/10ths w.g. pressure (governor fitted).

Floor type (No. 3700): 25 cu. ft./hr. of 500 c.v. gas, at 25/10ths w.g. pressure (governor fitted).

Flues

All types take 4-in. internal diameter flue pipe. Separate flues are necessary for each incinerator and should extend approximately 3 ft. above the eaves to reduce the possibility of down draught. Horizontal flue runs should be avoided if possible but if these are necessary they should preferably have a rise of 1 in 12 and should not exceed in length the amount of vertical flue employed. Obtuse bends with cleaning eyes should normally be used; no flue break is required.

Finish

Wall mounted and pedestal types (Nos. 3705 and 6): Cream or white.

Floor type (No. 3700): Grey mottled enamel or as required.

Weights

The weights of the various models are—No. 3705; 72 lb., No. 3706: 84 lb., No. 3700: 122 lb.

Compiled from information supplied by:

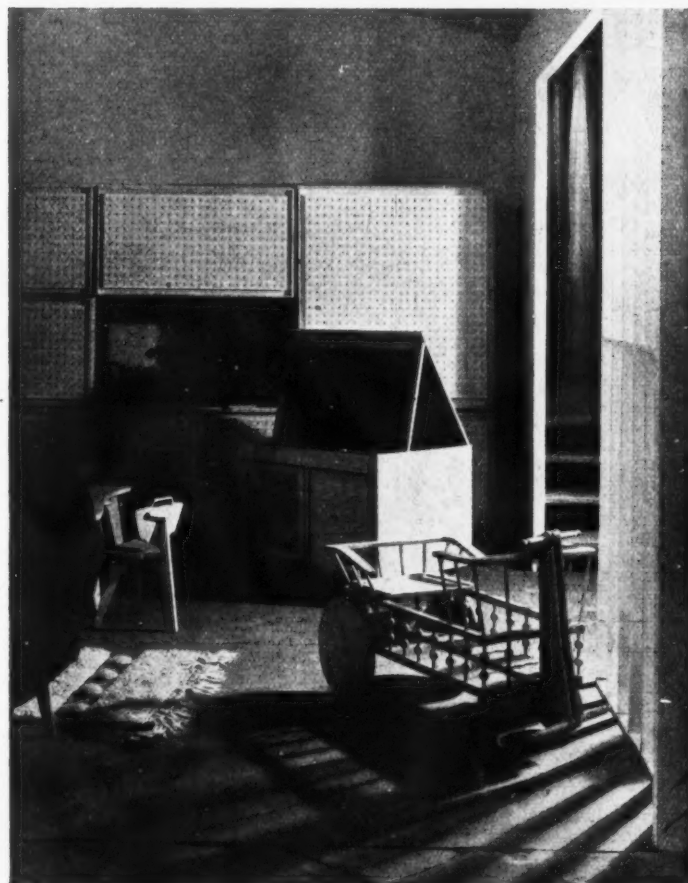
William Sugg and Co. Ltd.

Address: Chapter Street, Westminster, S.W.1.
Telephone: Victoria 3211 (4 lines).
Telegrams: Sugg, Sowest, London.

Right, part of the bedroom. Two chests of drawers form the headboard. The head and foot of the bed are covered with the same material as the bed cover. Also included is a built-in wardrobe with sliding doors, part glazed. Below, right; the nursery. The five storage units consist of drawer, cupboard with swinging doors, cupboard with trays, fall front cupboard and a hanging unit. These units are faced with decorated plastic panels. The wood used is English ash.



An all-purpose chair, settee and low table; part of the office furniture.



LOUNGE.—Items included are a collapsible occasional table, four chairs which, when placed side by side form a settee, a mirror and glass-lined cocktail cabinet and a chest with a pig-skin cover to the lid. Woods used are mahogany, sycamore, cherry, walnut, oak, beech and rosewood.

DINING SPACE.—Items included are a table to seat four to six, with a centre panel which revolves, and a sideboard with overhanging ends, 2 ft. 6 in. high. Beech has been used throughout with tops of plane tree veneer.

STUDY.—Items included are a library table covered with hide, and chairs with solid wood seats covered by a layer of felt and one of hide.

BEDROOM.—The writing table, with the addition of a mirror, becomes a dressing table. Unstained, matt finished, Honduras mahogany has been used in this room.

NURSERY.—Includes a sewing chair with detachable tray, which, when not required, swings under the seat.

OFFICE.—The desk and table have red plastic tops. The upholstered settee has an aluminium back and arms covered with sponge rubber. All furniture is of mahogany and tenon joints are pegged with ebony.

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

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed so that readers may cut out items for filing and paste them up in classified order. Headings below.

INFORMATION CENTRE

19.91 construction: details

RC CONSTRUCTION TECHNIQUE

New Reinforced Concrete Construction Technique. (Engineering, April 14, 1950, p. 411.)

Floor and roof slabs poured on base slab, hoisted after curing. Saving in cost.

This method was recently developed by the Institute of Inventive Research, Texas, USA. Foundations and base slabs are poured first, then follow the columns. The base slab is used as a bottom form for the roof slab and the first floor slab, and only edge forms are required. Concrete is poured over a separating medium and allowed to cure for at least seven days. The slab is lifted to its permanent position by special hoists attached to the columns, then secured by welding of a collar incorporated in the slab. Forms and shoring for upper floors and roofs are eliminated and reduction in construction cost is claimed.

Readers who are interested in the method will find a large block of flats near the Porte St. Denis, Paris, where five floors and roof have been poured on the base slab.

20.180 construction: complete structures OFFICE BLOCK, MOSCOW

Bâtiment Administratif Place de Smolensk, à Moscou. (L'Ossature Métallique [Belgium], 1950, pp. 128-132.)

Description of a 26-storey office block in course of construction. Several similar projects as a result of an architects' competition.

The first of a series of skyscraper type office buildings is about to be completed. 400 ft. high from street level to roof, it has a ground floor height of 15 ft., and the other storeys are 13 ft. 8 in., which is much more than the usual figure in other countries. The framework is of steel encased in concrete, the concrete taking part of the load. A 30 per cent. saving of steel is claimed for this method of design. The columns in the central portion of the building have cross sections up to 28 in. by 28 in., taking loads up to 1,400 tons, those in the wings are up to 20 in. by 20 in., with loads up to 700 tons. The lateral deflection of the structure due to wind has been calculated as 1/1,000 of its height. About 5,000 tons of steel are used for the tower portion of the building, which works out at only 1.28 lb. per cu. ft. Another 400 tons of reinforcing steel is used for the concrete casing. Extensive use of welding provided semi-rigid connections between beams and columns, the beams being slipped in between the shop-welded column cleats and secured by bolts before site welding. Another unusual feature is

the fabrication of the I-shaped columns by welding three plates together, probably because broad flange beams were not available. About 70 to 150 tons of steelwork were erected per day. More than 250,000 facing blocks of sandstone are being used for the exterior walls, the blocks having the same horizontal depth of 18 in. throughout.

23.126 heating and ventilation

SOLID FUEL HEATING FOR DOMESTIC PURPOSES

Digest No. 16. (Building Research Station, 1950. 2d.)

Summary of present position with regard to solid fuel heating for small houses and salient features of appliances.

This is a useful summary: it provides in concise form much information about solid fuel heating and appliances. It should be considered in relation to the various papers recently read by members of the Building Research Station, reported in this Journal.* It is pointed out that improvements in appliances have brought about changes in methods of heating: whereas before, a multiplicity of appliances was necessary to heat a house, modern equipment and improved insulation enable better standards to be reached with only one or two fires.

* *Economics of House Heating.* Richard Eve and Dr. J. C. Weston. (Special Article.) December 2, 1948. *Heating Research and House Design.* Richard Eve (Special Article.) January 26, 1950. *Domestic Water Heating.* Dr. J. C. Weston. (Special Article.) March 2, 1950. *Experiments in Natural Ventilation Systems of Houses.* J. B. Dick. (Information Centre, 23.124: 27.4.50.)

General Considerations. The points brought out are these:—

1. Heating cannot be considered without also considering the construction and use of the house: especially must insulation be considered: recommended standards are:—

For ground floors: 0.15 to 0.20

For walls: 0.20 to 0.25

For roofs: 0.15 to 0.20

Such values can be achieved with little or no extra cost over "pre-war" construction.

2. Losses are not only dependent on the "U" values of the exposed parts of the structure, but also upon their area. Table 1 gives relative areas for various types of dwelling.

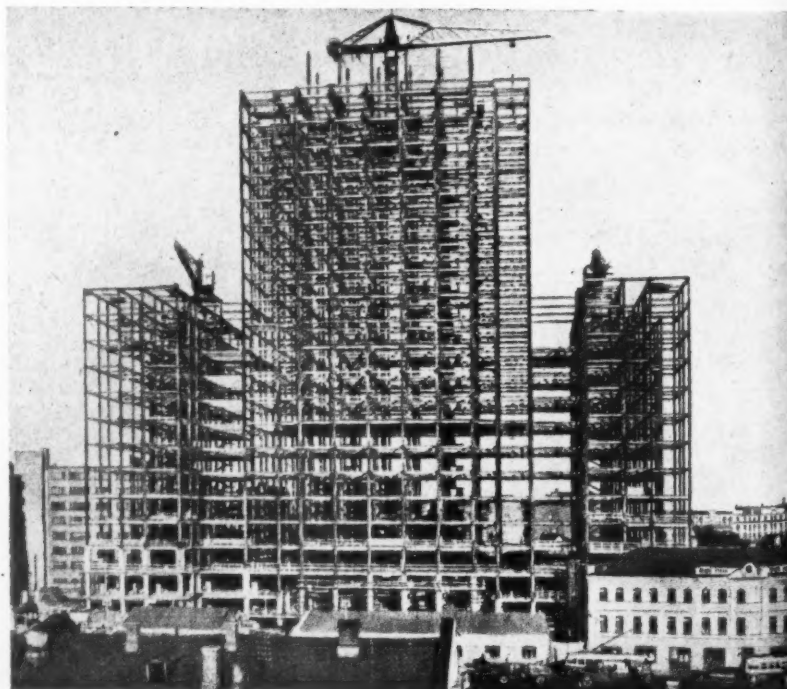
3. The losses due to excessive ventilation are emphasized and the consequent importance of well fitting doors and windows. Weather stripping of external doors reduced the average air-change rate in some experimental houses from 3.00 to 2.50 per hour.

4. In well insulated houses with well fitting doors and windows, the natural spread of heat from heated to unheated parts of the house prevents unduly low temperatures even in the latter parts.

5. 10 per cent. or more of the heat value of the fuel may be transmitted to the house by an internal flue. This will be lost if external flues are used.

6. Provided that it is built in accordance with the foregoing standards of insulation, a 950 ft. super house in which the first cost of equipment must be limited, can be heated and supplied with hot water, to a satisfactory standard, from one solid fuel appliance. This may conveniently be a modern fire or stove in the living room, with back boiler: additional heat by gas or electricity, particularly in bedrooms, may be necessary. Where lack of these heat sources necessitates a second solid fuel appliance for cooking, the boiler may well be combined with this, as its use is more likely to be continuous than that of the heating appliance. For houses of much over 950 ft. super, two appliances will generally be necessary.

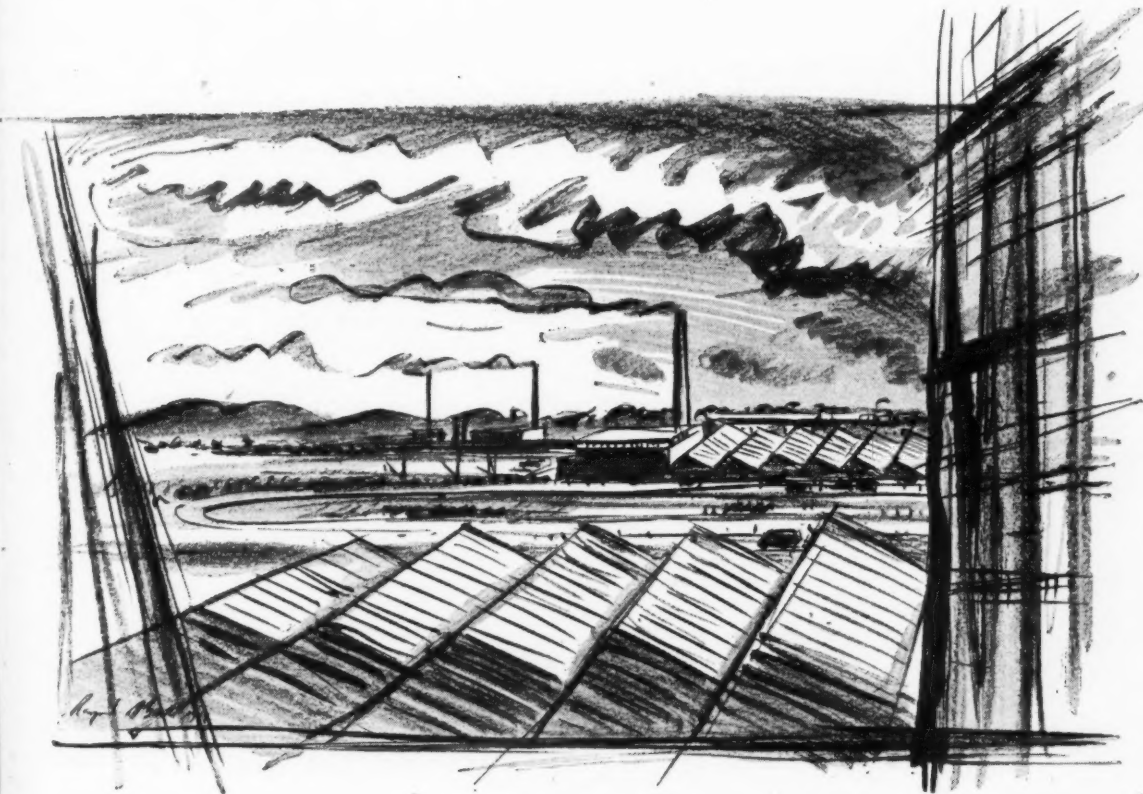
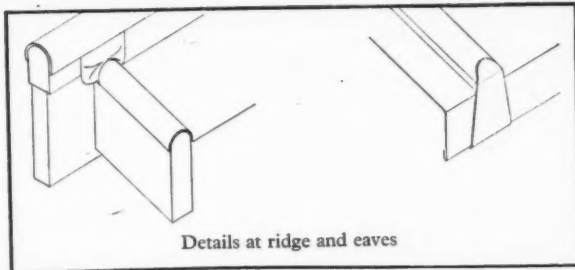
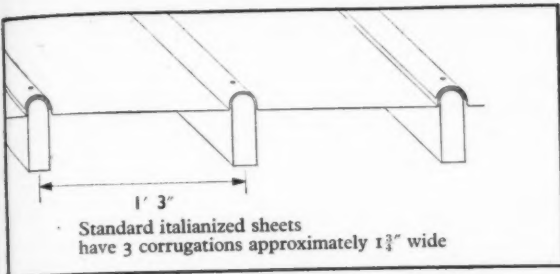
7. Where there is one appliance only, placed in the living room, the kitchen may be inadequately heated. A radiator heated from the back boiler is a good solution. Where radiators are operated from a boiler



The steel framework during erection of the 22nd storey. See 20.180.

DATA SHEET FOR ARCHITECTS No. 8

ITALIANIZED ZINC ROOFING



Italianized zinc roofing enables zinc roofs to be laid directly on to rafters or purlins without the use of boarding. It is thus both cheaper and easier to lay than other systems, since the sheets are factory-formed; and it is especially suitable for large buildings, such as warehouses, railway stations, etc. It can be adapted to housing, if used with a decking material to provide sound proofing and thermal

insulation. The standard italianized sheet of Z.G.16 (19 I.S.W.G.) measures 8' long by 2' 8" wide, the rolls being spaced at 1' 3" centres. The sheets are fixed by galvanized screws directly to the rafters or purlins. Further information on roofing systems and other uses of zinc in building can be had from the Association, together with a list of publications.

ZINC DEVELOPMENT ASSOCIATION

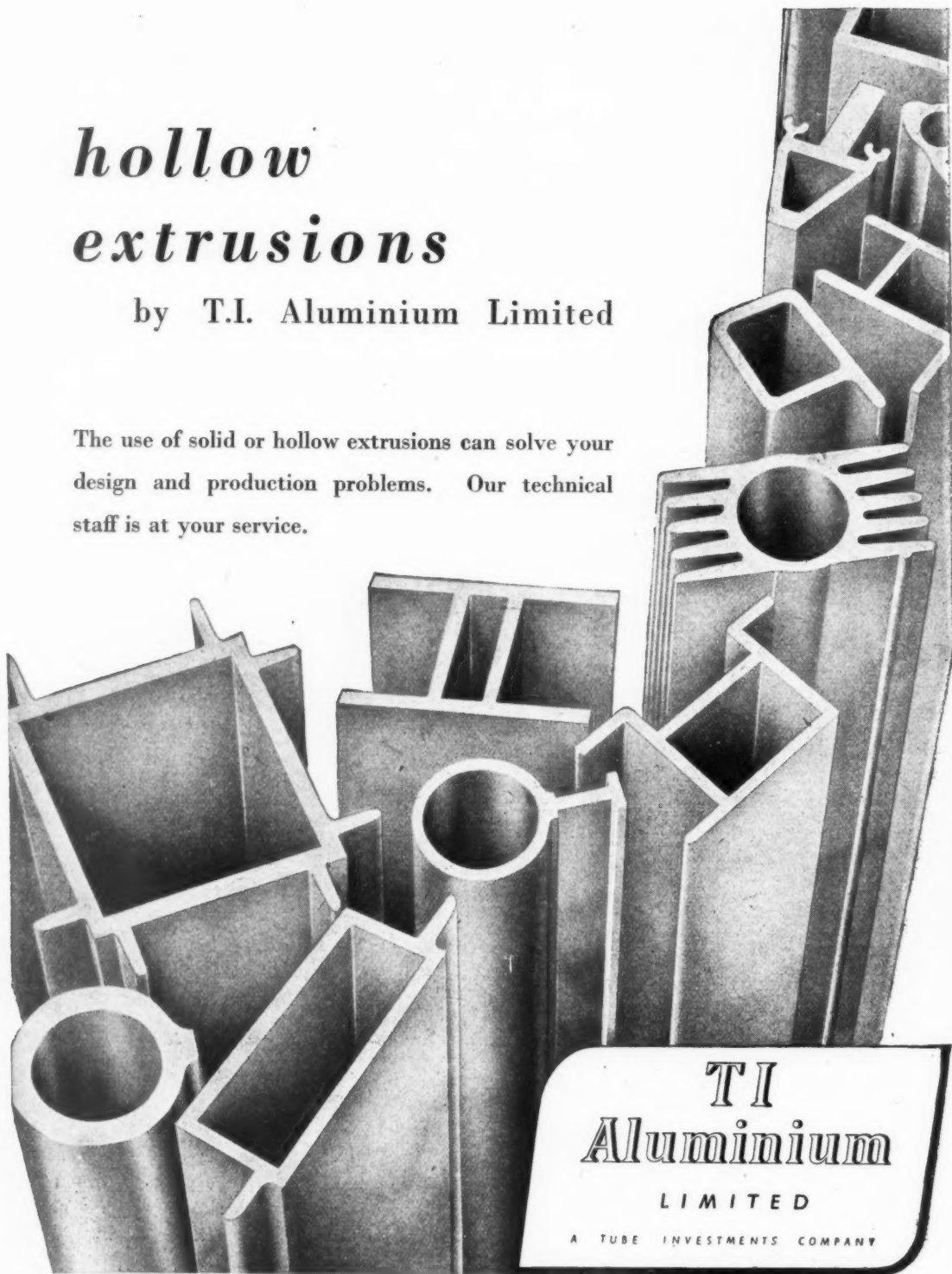


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which also supplies domestic hot water, an indirect system is advisable.

8. A large back boiler may operate a second radiator, whether downstairs or in a bedroom. Convected warm air may be used to convey heat to other rooms. The air should usually be drawn from the hall. Underfloor ducts for combustion air are usually not necessary with modern equipment. Great care must be taken to prevent flue gases escaping into the convected air. It is essential that the appliance, of whatever kind, is big enough for its work.

9. In the case of a combined hot water and space heating boiler, a very low minimum burning rate for summer use is essential, or it will be wasteful, unless a large amount of hot water is used. Often gas or electric auxiliary heaters will be an economy. Where sufficient money is available, a complete combined low pressure hot water heating and domestic hot water service will prove efficient.

10. Solid fuel cookers provide some space heating. Fully insulated cookers are efficient but dear. Lightly insulated cookers may be used where gas or electricity are not available; they provide more space heating than the former; this may overheat a small kitchen in the summer. It is important that the adjacent surfaces should be of fireproof materials. Some types, e.g., combination grates, give high temperature radiation as well.

11. In selecting appliances, detail matters should be considered. Thus, controls which become too hot discourage proper use. Combustion air controls must be a good fit. A minimum of mess must be caused by refuelling or ash disposal. Correct installation with airtight flue joints and ample provision for sweeping flues is essential.

12. A large number of appliances is now available. A list of recommended ones has been issued by the Coal Utilization Joint Council. Some have been passed by the Ministry of Health for use by Local Authorities for housing schemes.

Appliances. There follow diagrams of various heating appliances, with remarks as to their performance.

Fig. 1. Well designed open fire. Small throat, vertically over fire. Rounded lintel Fireback sloped forward. A sunk fire is shown. If a stool grate is used, a controlled air supply should be provided. A throat damper, to reduce air-change rate when the fire is not in use is advantageous. Will not burn smokeless fuels (coke and anthracite).

Fig. 2. Open fire with hood, combustion air control, and provision for convected warm air to escape to the room. Smokeless fuels cannot be burned.

Fig. 3. Open fire as before, but having back boiler with damper to direct flue gases round boiler when quick heating is required. No smokeless fuel, no over-night burning.

Fig. 4. As above, but "improved" by provision of suitably spaced firebars and extra deep firebed for burning smokeless fuels as well as bituminous coal. A detachable or sliding front may be provided further to deepen the firebed, and so provide for over-night burning.

Fig. 5. A similar fire, but provided with a hinged lid enabling the fire to be closed for overnight burning, and having a casing round it to provide warm air for distribution in the same or other rooms by convection.

Fig. 6. A freestanding openable stove, with back boiler, and provision for the distribution of convected warm air to the room in which it is fixed.

Fig. 7. A small domestic "independent" boiler. Gives satisfactory efficiency if doors fit well. Suitable for partial central heating, where indirect cylinder for hot water is provided.

Fig. 8. A modern magazine boiler. Has the advantage of a very low slumbering rate—as little as $\frac{1}{2}$ lb./hr.—will stay alight for very long periods at this low rate. Very selective as to fuel—usually sized anthracite. Due to supply difficulties, experiments are being made to enable coke, or other fuels, to be burned. Suitable for full central heating and indirect hot water supply.

Fig. 9. A modern warm-air heating furnace: this type of equipment, suitable for warming a whole house by forced warm air, has only recently become available in this country.

Heating Costs. Improved post-war heating appliances are often regarded as more expensive than their predecessors in first cost. It must however be borne in mind that they may take the place of a number of appliances; each with flue and installation costs; all of which must be taken into consideration when comparing costs. Extra capital cost may in any case be justified by reduced running costs. Table 2 gives estimates of annual expenditure on fuel, when heated to different standards by the systems described, based on the work on the experimental houses at the Building Research Station.

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

3023 REPAIR OF CRACKED BRICK WALLS

Q We wish to have advice on the repair of vertical cracks which have formed in 11-inch cavity walls of sand-lime brickwork. The cracks occur between external buttresses which carry the load from steel roof trusses.

The internal plastering is cracked following the cracks in the inner leaf of the brickwork.

We wish to make a permanent repair of the fractured brickwork and to replaster the wall but do not see how to do this if the movements which gave rise to the cracking are still continuing.

A Vertical cracking in sand-lime brickwork is sometimes due to drying shrinkage of the bricks to which certain classes of sand-lime brick are particularly prone. It would be very surprising, however, if cracks due to drying shrinkage corresponded exactly in the internal and external leaves of the wall. If you note such a correspondence in the crack formation we think it more likely that the trouble may be due to unequal foundation settlement due to the concentration of load under the buttresses and trusses.

The only practicable remedy we can suggest to obtain an interior surface clear of cracks would be to plug the wall and fix a paper-backed metal lath and render on this with a cement undercoat with finish in Keene's or hardwall plaster as required. By keeping the new inner surface out of contact with the moving brickwork the likelihood of further cracking should be eliminated. The same process with a suitable finish coat might be used for the exterior, between the buttresses, and would have the effect of tying the brickwork together quite strongly.



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TO APRIL 27, 1950.

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All Information Sheets published since the inception of the new series in October, 1947, have been reprinted. Specially designed binding cases to hold approximately 100 Sheets may be obtained at the price of 4s. 6d. each. Individual Sheets

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

THE INDUSTRY

By Brian Grant

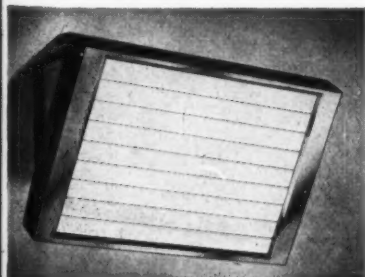
PANEL HEATING

For some years Messrs. E. K. Cole have been producing both built-in and free standing Thermovent heaters, which are warm air convectors available in both 1 and 2 Kilowatt sizes. They have now produced a further model, a high temperature panel heater which is a radiator in the true sense of the word, and is intended for buildings where the heat loss is high or where the rate of air change makes warm air heating uneconomic: open or semi-open air schools, hospitals or factories.

The panel is all metal and is rectangular in shape measuring 24 in. by 15 in. and is generally mounted on a wall, either upright or horizontal, at a height of 8 or 9 ft., and at an angle of approximately 30 deg. (variable between vertical and 40 deg.). It can be suspended from roof structures or ceilings or used at low level when protected by a suitable guard.

The design of the panel is quite new, and could be described as of multi-element cellular construction in that the front radiating surface is made up of a number of cells or channels, each of which carries a robust low temperature element. These are interconnected by suitable busbars to common mains wiring terminals and if element replacement is necessary it is a very rapid and simple operation.

Efficient heat insulation of the back tray ensures about 90 per cent. effective output from the front plate, evenly distributed over the whole of the face.



The new Thermovent HT Panel Heater for wall mounting.

Finish of the radiating surface is cream vitreous enamel and the heater casing is bright cadmium plated steel. Adjustable fixing brackets are provided which allow for either horizontal or vertical mounting, with suspension hooks as an alternative.

Standard loading is 1,500 watts but 1-kW. can be supplied, and the voltage range is 220/250 volt AC or DC, while 100/120 volt or 200/220 volt can be supplied to special order. (E. K. Cole Ltd., 5, Vigo Street, Regent Street, London, W.1.)



SMALL THERMOSTATS

HMV Household Appliances have just announced a small adjustable room thermostat which sells at 45s. It is designed for the direct control of loads of up to 3 kilowatts at 200 to 250 volts AC, though larger loads (3 phase or otherwise) can be controlled through contactor panels. The thermostat is quite small and neat and can be set to operate at any temperature between 50 deg. and 80 deg. F, and is sensitive to plus or minus 1 deg. It should be mounted about 4 ft. 6 in. to 5 ft. from the floor, avoiding outside walls or positions near doors or windows. A free circulation of air is desirable at the chosen position, but it should not be directly in the stream of hot air from the heater, nor should it be in a position to receive a large quantity of radiant heat. (HMV Household Appliances Ltd., Hayes, Middlesex.)

ROOF FINISHES

Shown for the first time, so far as I know, at the Manchester Building Trades Exhibition last month, the Bainbridge combined fascia and soffit is made of aluminium sheet and should help with the inescapable problem of timber saving. It is made in inter-



Left, an adjustable room thermostat produced by HMV Household Appliances Ltd. Above, part of one of the three replanned showrooms of Broad & Co. Ltd., Paddington, designed by John Grey.

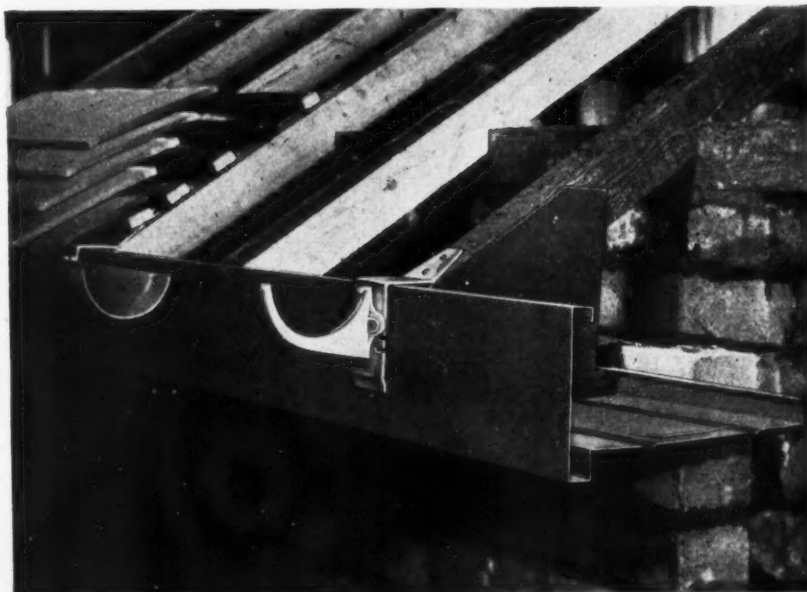
locking lengths of 8 ft. with the necessary stop ends and angles, while the method of fixing can be understood from the illustration below.

Interlocking aluminium brackets are cut on a splay to correspond with the roof pitch and are nailed to the foot of every third rafter. Gutter brackets and clips in aluminium are also produced for use with this system and are fixed to the rafter by nails without the necessity for a wooden tilting fillet. The actual gutter bracket is bolted to the clip, and three fixing slots are provided so that the necessary fall for the gutter can be arranged without measurement.

Three sizes of unit are produced, all with a 6 in. fascia, but with 7, 9 and 12 in. soffits, the price varying from 2s. 1d. to 2s. 6d. per foot run, corner pieces and stop ends also being made as required. It is claimed that it takes two men only two hours to fit the average pair of houses, and this method has been used by a number of housing authorities, including the LCC. (Bainbridge Bros. Ltd., Upland Works, Flixton, Manchester.)

SEEING IN COMFORT

The showrooms of most builders merchants are all too often something of a mess in



A combined fascia and soffit of aluminium, produced by Bainbridge Bros. Ltd., Manchester

which it is hardly possible to see less than eight different things at once, and for this reason it is interesting to find that Broad's of Paddington have had the three display floors of their premises replanned by an architect. Nearly two years ago R. Y. Gooden designed some tiled fireplaces for them which were a very welcome change from the usual horrors, and now John Grey has added two more designs in addition to carrying out the replanning. The result is a series of showrooms to which it would be possible to take clients and give them a really adequate idea of what various fittings really look like. The fireplaces are in small cubicles with appropriate wall finishes, the bathrooms look like bathrooms and serve also to show various wall and floor finishes, while the solid fuel appliances and cookers on the ground floor are spaced widely enough for one to be able to get a reasonable view of each fitting. There is also room to sit down and look at catalogues in comfort without sitting on a boiler and using a mortuary slab as a table. Full marks to Broad's for realizing that people want to see what they are going to buy, and for asking an architect to arrange it all. (*Broad & Co. Ltd., 22, Praed Street, Paddington, London, W.2.*)

FIREPLACE FOOTNOTE

An excellently designed machine with a hydraulic jack and rubber tyres has been produced so that labourers can carry slabbed up fireplaces without breaking them. The best comment so far: "Necessary and useful, I suppose; but it seems a pity." (*Copy-right, Charles Crichton.*)

Announcements

Martin & Martin, quantity surveyors, of Eastbourne, Sussex, have moved to new premises at 5, Hyde Gardens, Eastbourne (tel.: Eastbourne 6225). Latest trade catalogues will be welcomed.

A practical guide for the builder on the use of sand in plastering and mortar mixes has been published for the DSIR by HMSO: National Building Studies Bulletin No. 7, "Sands for plasters, mortars and external renderings," price 9d. (by post 11d.). The bulletin starts with a description of the different types of sand and their classification under various headings, and deals in some detail with the practical requirements for sands for plastering and rendering, and also for mortars for brickwork and for stonemasonry. Other sections deal with methods of avoiding failures due to the sand, and with methods of testing sands.

Buildings Illustrated

House, Redbourn, Hertfordshire. (Page 632). Architects: F. M. Widdup, A.R.I.B.A., and R. S. Williamson. Sub-contractors: Floors, living room and bedroom, Marley Tile Co.; electric wiring, R. Clark; sanitary fittings, independent boiler and door furniture, Gibbs and Dandy Ltd.

Nurses Home Extension, St. John's Hospital, Lewisham. (Pages 638-644). Architect: Bertram Carter, F.R.I.B.A., F.R.S.A. General Contractor: Thomas & Edge Ltd. Quantity Surveyors: Sheffield & Read. Sub-contractors: Excavation, strip foundations, dampcourses, glass, woodblock flooring, curtain tracks, plaster, desks for lecture theatre, cupboards, lettering, Thomas & Edge Ltd.; column foundations, reinforced concrete, fireproof construction, Trussed Concrete Steel Co. Ltd.; asphalt, Ragusa Asphalt Paving Co. Ltd.; bricks, Cement Marketing Co.; partitions, Breeze & 4½ Brickwork; waterproofing materials, Aquacrete Cement Marketing Co. Ltd.; central heating, G. N. Haden & Son Ltd.; gas fixtures, gasfitting, plumbing, water supply, F. J. Churchill & Co. Ltd.; boilers, Ideal Boilers and Radiators, Ltd.; electrical wiring, electric fires, bells, clocks, Haden Electrical Ltd.; electric light fixtures (fluorescent), Thorn Electrical Industries Ltd.; electric light fixtures, Troughton & Young [Lighting] Ltd.; sanitary fittings, John Bolding & Sons Ltd.; special removable demonstration sink unit for lecture theatre, Denny, Mott & Dickson Ltd.; fire escape in aluminium, casements, special ventilating cill, steel architraves to lecture theatre windows and special Teleflex gearing, balcony and balustrading, Williams & Williams Ltd.; fire-resisting doors, Joinery & Builders Supplies Ltd.; rubber tiling, Stevens & James Ltd.; Semtex tiling, Semtex Ltd.; textiles, loose furniture, Maple & Co. Ltd.; shrubs and trees, Hospital Authorities; blackboards, Educational Supply Association Ltd.; chairs for lecture theatre, J. Avery & Co. Ltd.

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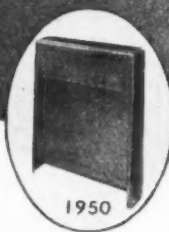
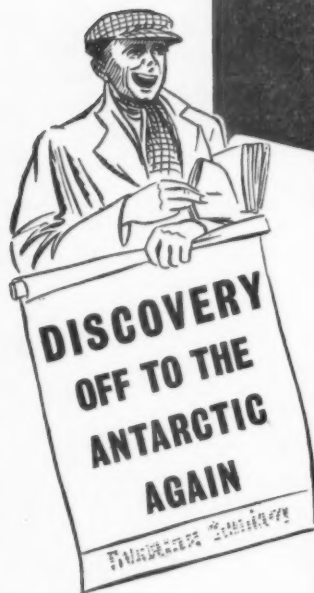
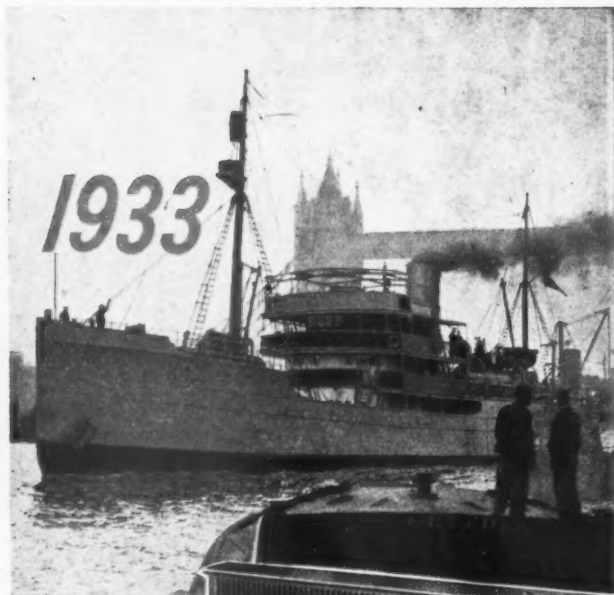


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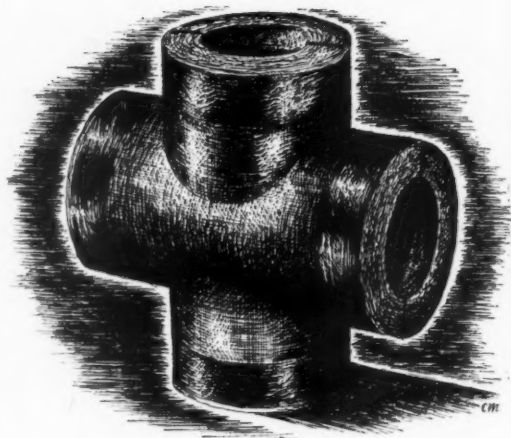
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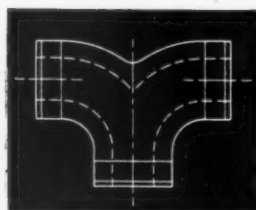
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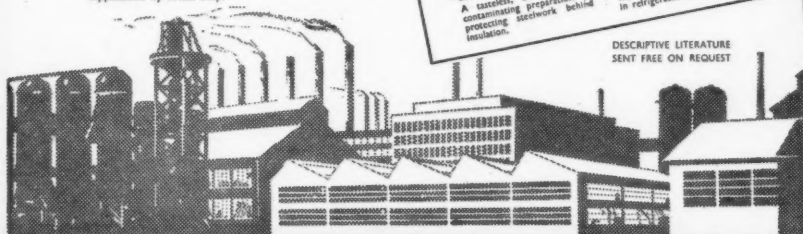
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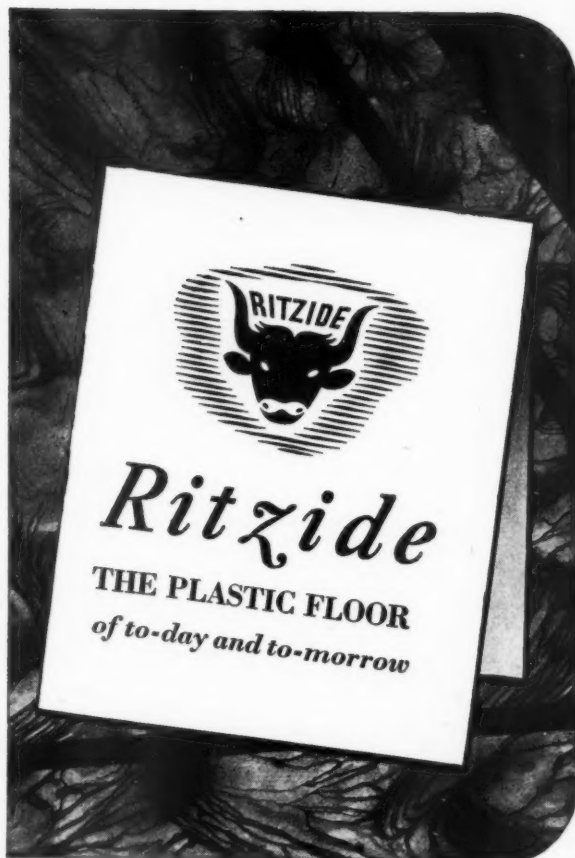
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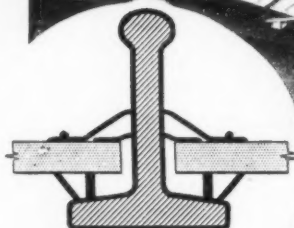
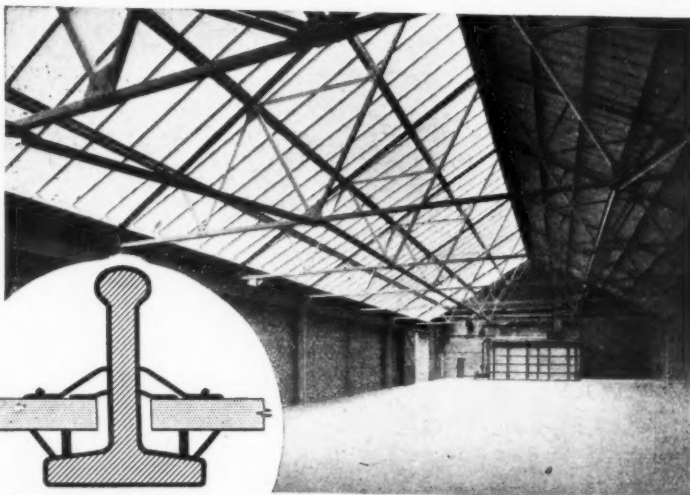
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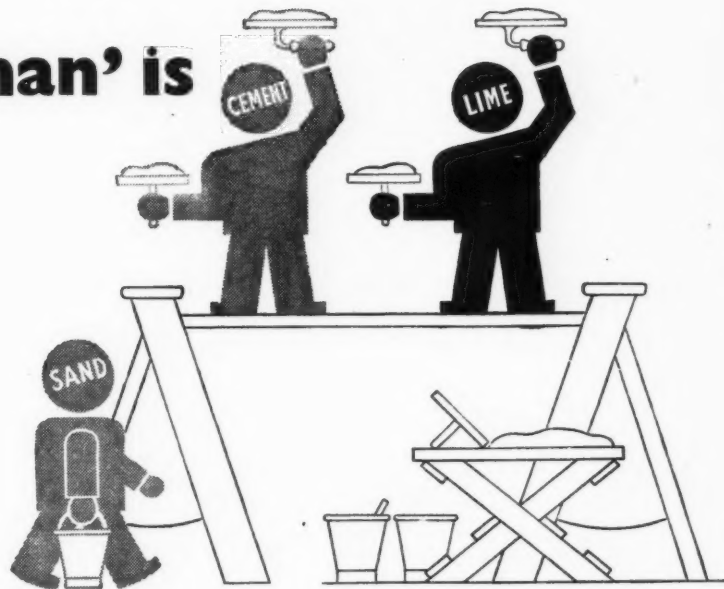
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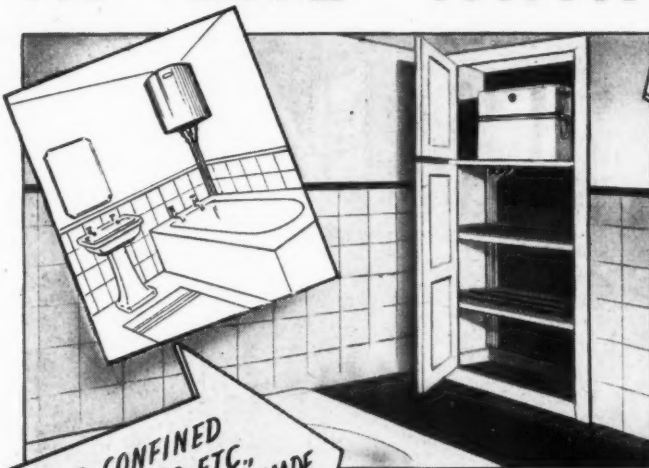
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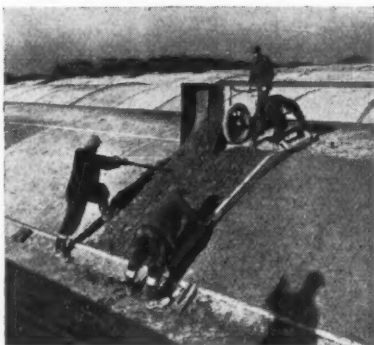
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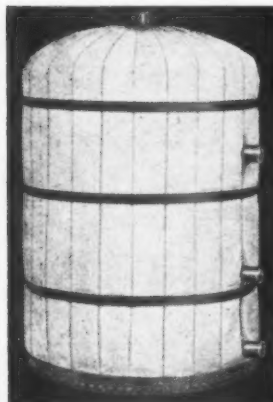
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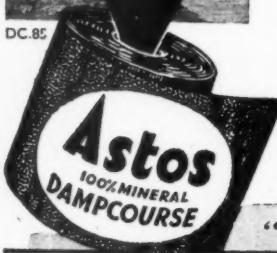
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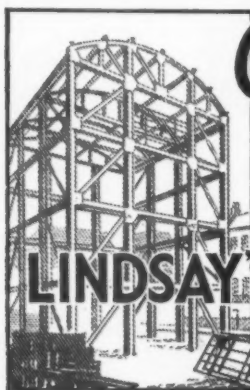
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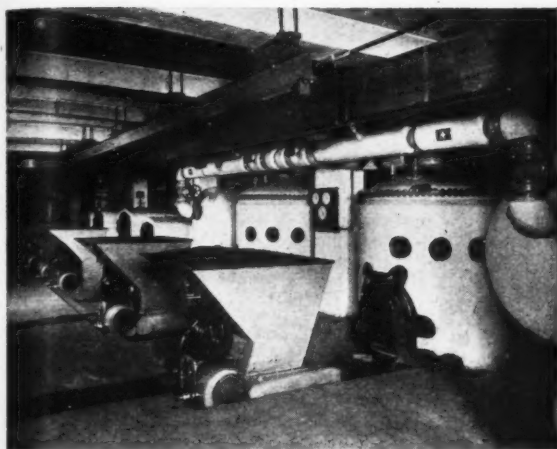
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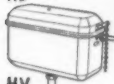
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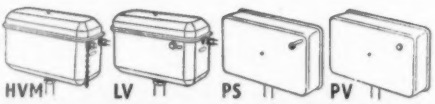
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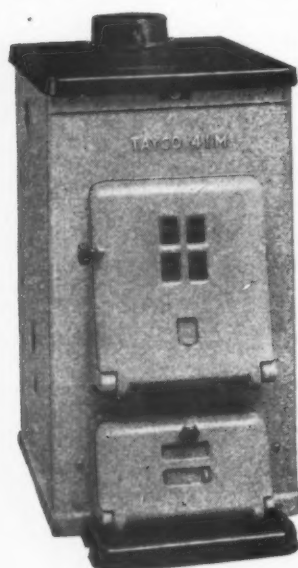
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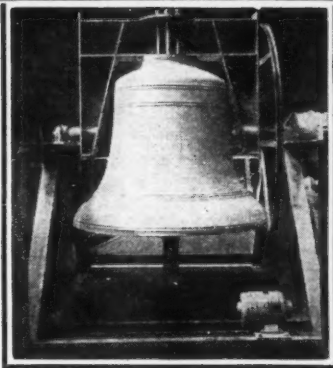
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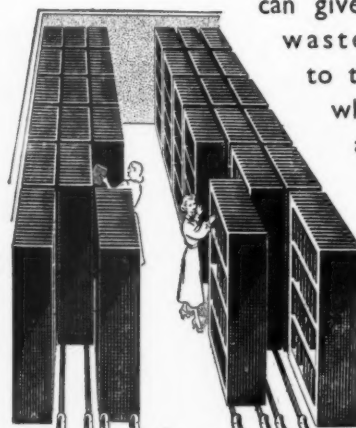
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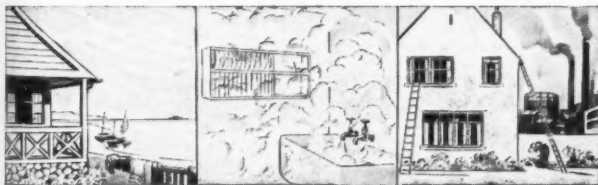
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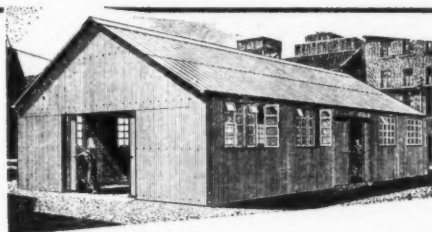
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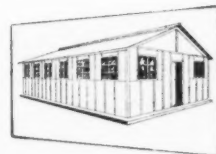
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Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

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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 recognised 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. (2269) 1046

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The salary will be within the range of Higher Grades II and III, £500-£255-£750, and the commencing salary will be arranged according to qualifications and experience. Applicants should be Associate Members of the Royal Institute of British Architects or Registered Architects, and should be between 30 and 45 years of age. The appointed officer will be required to pass a medical examination and to contribute to the Superannuation Fund of the Corporation.

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 sent to the City Surveyor, Corporation of London, 55-61, Moorgate, London, E.C.2, not later than the 3rd June. 4320

BOROUGH OF COLCHESTER. APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant in the Borough Engineer's Department, at a salary in accordance with the recommendations of the National Joint Council for Local Authorities' Administrative, etc., Services (A.P.T., Grade II, £420-£465 per annum).

Applicants should have passed the Intermediate Examination of the R.I.B.A. or its equivalent, and experience with Local Authority Housing Schemes will be an advantage.

The appointment will be terminable by one month's notice on either side.

Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, must reach the Borough Engineer, 64, West Stockwell Street, Colchester, not later than Saturday, 3rd June, 1950.

Canvassing will disqualify and candidates must state whether they are related to any member or senior officer of the Council.

N. CATCHPOLE.

Town Hall, Colchester.

15th May, 1950.

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Applications are invited for the following appointments in the Architect's Section of the Chief Engineer's Department in Central London:—

(a) ARCHITECTURAL ASSISTANTS. Commencing salary will be from £500 per annum, dependent upon qualifications and experience.

Applicants should be studying for or have passed the Intermediate Examination of the R.I.B.A., be capable draughtsmen, and have had several years' experience in an Architect's office.

(b) DRAUGHTSMEN. Commencing salary will be from £350 per annum, dependent upon ability and experience.

Applicants should be neat draughtsmen, and preferably have had several years' experience in an Architect's office.

The salaries for the above posts are provisional, pending grading of the posts under the National agreement of the appropriate negotiating body. Application forms obtainable from Establishments Officer, 46/47, New Broad Street, E.C.2, on receipt of an addressed foolscap envelope, to be returned duly completed not later than 3rd June, 1950. Please mark envelope EST/V/670/A. 4313

CITY OF BRADFORD. CITY ENGINEER AND SURVEYOR'S DEPARTMENT

APPOINTMENT OF TECHNICAL STAFF (PLANNING).

Applications are invited for the following appointments in accordance with the National Scale of Salaries, on the grades indicated:—

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(b) Post No. 15: SENIOR PLANNING ASSISTANT. A.P.T., VI, £595-£660.

(c) Post No. 16: SENIOR PLANNING ASSISTANT. A.P.T., V, £555-£620.

(d) Post No. 32: PLANNING ASSISTANT. A.P.T., III-V, £450-£570.

(e) Post No. 55: JUNIOR PLANNING ASSISTANT. A.P.T., I-IV, £390-£525.

(f) Post No. 56: DRAUGHTSMAN. A.P.T., I, £390-£435.

(g) Post No. 57: JUNIOR PLANNING ASSISTANT. A.P.T., I-IV, £390-£525.

Where more than one grade is shown for any post, successful candidates will be appointed on the appropriate grade, depending on their qualifications and experience, and strictly in accordance with the National Scheme of Conditions of Service.

In addition to general planning, engineering or architectural experience, applicants for the various posts should preferably have had particular experience as shown below, should preferably hold a recognised engineering, architectural or surveying qualification, and must hold the qualifications indicated.

(a) Applicants for this post must be Associate Members of the Town Planning Institute, should preferably hold an Engineering Degree, and in addition to Survey and Research experience should have taken a responsible part in the preparation of Development Plans.

(b) and (c) Preparation of Development Plans, A.M.T.P.I. (preferably A.R.I.B.A. in addition).

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

Intending applicants must inform the City Engineer and Surveyor of the number of the post in which they are interested and the appropriate form of application will then be forwarded; which form, together with details of experience, and accompanied by not more than three testimonials, should be received by the undersigned not later than the 6th June, 1950.

Canvassing will disqualify, and an applicant who is related to a member of, or a senior officer of, the Council must disclose the fact in his application. No assistance can be given to the provision of housing accommodation.

W. H. LEATHAM, Town Clerk.

Town Hall, Bradford. 4281

CITY OF LIVERPOOL. ARCHITECTURAL AND HOUSING DEPARTMENT

Applications are invited for the under-mentioned appointments:—

(a) TWO ASSISTANT ARCHITECTS (Housing). A.P.T., Grade VI. Salary £595-£660.

(b) ONE ARCHITECTURAL ASSISTANT (Housing). A.P.T., Grade IV. Salary £480-£525.

(c) TWO ASSISTANT ARCHITECTS (General). A.P.T., Grade VI. Salary £595-£660.

(d) ONE ARCHITECTURAL ASSISTANT (General). A.P.T., Grade IV. Salary £480-£525.

(e) ONE SENIOR ASSISTANT ARCHITECT (Redevelopment). A.P.T., Grade VII. Salary £635-£710.

(f) TWO ASSISTANT ARCHITECTS (Redevelopment). A.P.T., Grade VI. Salary £595-£660.

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(h) TWO ASSISTANT SURVEYORS. A.P.T., Grade V. Salary £520-£570.

(i) ONE ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade VI. Salary £595-£660.

(j) ONE JUNIOR ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade III. Salary £465-£495.

Candidates for the above posts should be experienced in large scale housing development, preferably in Local or Central Government service, and must be Registered Architects, preferably qualified A.R.I.B.A.;

(b) should have good experience in housing design and layout and have passed the Intermediate Examination of the R.I.B.A. or equivalent;

(c) must be Registered Architects, preferably qualified A.R.I.B.A., and should have good experience in general architectural practice, and possess a knowledge of the design and construction of modern public buildings, including schools;

(d) should preferably have passed the R.I.B.A. Intermediate Examination and possess similar experience to (c);

(e) and (f) must be Registered Architects, preferably qualified A.R.I.B.A. and/or A.M.T.P.I. and should possess planning experience and have an aptitude for the detailed redevelopment of central areas;

(g) and (h) should possess wide experience in surveying and site development of housing estates and schemes of flats, and have passed the Final Examination of the R.I.C.S. or equivalent;

(i) should possess experience in site measurement of Road and Sewer works and "taking off" minor building works, valuations for interim certificates and the settlement of final accounts and preferably have passed the Final Examination of the R.I.C.S. (Quantity Surveying Division);

(j) should possess experience in site measurement of Road and Sewer works and "taking off" minor building work, and preferably have passed the Intermediate Examination of the R.I.C.S. (Quantity Surveying Section).

Application forms may be obtained from, and should be returned to, the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2, by 30th May, 1950, endorsed "Application for..." adding the title of the post applied for, and accompanied by copies of three recent testimonials.

The appointments are subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER, Town Clerk.

Municipal Buildings, Liverpool, 2. 4259

May, 1950.

COUNTY BOROUGH OF CROYDON. SCHOOL ARCHITECT'S SECTION.

Applications are invited for this appointment from qualified Architects, preferably experienced in school works.

Salary Grade A.P.T., V, £520 to £570 p.a., plus London weighting.

The appointment is established, and pensionable, subject to medical examination.

Forms of application may be obtained from the Chief Education Officer, Katharine Street, Croydon (by sending stamped foolscap envelope, and must be returned to him within 14 days from the publication of this advertisement.

Living accommodation is not offered.

Canvassing will disqualify.

E. TABERNER, Town Clerk.

May, 1950. 4287

BOROUGH OF WIDNES. BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited from registered Architects for the appointment of Architectural Assistant in A.P.T. Division, Grade V (£520-£570).

Housing accommodation will be made available to a married applicant if required.

The appointment will be subject to the National Scheme of Conditions of Service and the Local Government Superannuation Act, 1937, and to the candidate passing a medical examination.

Applications, stating full particulars of experience (with dates), with the names of two referees should be sent to T. A. Brittain, Dip.Arch., A.R.I.B.A., Borough Architect, Brendan House, Widnes Road, Widnes, not later than Friday, 2nd June, 1950.

Canvassing, directly or indirectly, will disqualify.

FRANK HOWARTH, Town Clerk.

Town Hall, Widnes. 13th May, 1950. 4281

METROPOLITAN BOROUGH OF POPLAR. (a) SENIOR ARCHITECTURAL ASSISTANT FOR RECONSTRUCTION PLANNING. (b) SENIOR ARCHITECTURAL ASSISTANT (THREE).

Applications are invited from suitably qualified persons for the above temporary posts in the Borough Engineer and Surveyor's Department. Salary scale: £635 per annum, rising by annual increments of £25 to a maximum of £760 per annum, plus £30 if 26 years of age and over. The commencing salary will be fixed according to experience and qualifications.

The Council has a large programme of development embracing the planning of large areas, site planning and the design of dwellings and amenities to provide mixed development. The scope of the work is varied and interesting. Full details of the appointments and forms of application may be obtained from the Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3, to whom completed forms should be returned not later than first post on Monday, 5th June, 1950.

Requests for application forms should state clearly for which post the form is required. 4254
3rd May, 1950.

BURGH OF HAMILTON.

Applications are invited for the following appointments:—

(a) CHIEF ASSISTANT PLANNING OFFICER. Applicants should be Chartered Architects, Civil Engineers or Surveyors, and must have a sound knowledge of Town Planning Law and Practice.

If the successful applicant is a Member of the Town Planning Institute he will be placed in A.P.T. Grade VII (£635-£710), otherwise placing will be within Grade VI (£595-£660).

A house will be made available, if required.

(b) SENIOR ARCHITECTURAL ASSISTANT. Applicants should have a sound knowledge of contemporary design and be experienced in the preparation of layout plans and working drawings. The salary will be in accordance with A.P.T. Grade V-Va (£520-£610). Placing within the Grade will be in accordance with the experience of the successful applicant.

(c) ARCHITECTURAL DRAUGHTSMAN (Town Planning). Applicants should give full particulars of their experience. The salary will be in accordance with Grade H.D.1 (£395-£440).

Applications for the above posts, stating age, and with full particulars of qualifications and experience, together with copies of recent testimonials, should be lodged with the undersigned not later than Thursday, 1st June, 1950. The appointments are subject to the Local Government Superannuation (Scotland) Act, 1937, and canvassing, either directly or indirectly, will be a disqualification.

JOHN R. McLEAN.

Town Clerk.

The Town House, Hamilton.

10th May, 1950.

4274

COUNTY BOROUGH OF GREAT YARMOUTH. BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments for Housing and General work:—

(a) ONE SENIOR ASSISTANT ARCHITECT. Salary A.P.T. Grade VI (£595-£660). Candidates should be Associates of the Royal Institute of British Architects.

(b) ONE ARCHITECTURAL ASSISTANT. Salary A.P.T. Grade V (£520-£570). Candidates should have sound knowledge of design, construction and specification, and in this appointment a general knowledge of quantity surveying is required to include site measuring, taking off, abstracting and billing of housing and general minor works.

Candidates need not have had previous Local Government experience.

The appointments will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination. Applications, stating age, qualifications and experience, together with the names of three persons to whom reference may be made, should be enclosed in an envelope endorsed with the title of the appropriate appointment, and must reach me not later than Friday, 2nd June, 1950. Canvassing will be deemed a disqualification, and candidates must disclose in writing any relationship to any member of or holder of any senior office under the Council. Candidates who fail to do so will be disqualified, and if appointed will be liable to dismissal without notice.

FARRA CONWAY.

Town Clerk.

Town Hall, Great Yarmouth.

3th May, 1950.

4283

CITY OF LEICESTER. APPOINTMENT OF MAINTENANCE ARCHITECTURAL ASSISTANT, in the City Surveyor's Department. The

salary will be in accordance with Grade A.P.T. IV-VI (£480-£660), according to qualifications and experience, and the appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applicants should have a good knowledge of architectural practice and be experienced in the maintenance of buildings, preparation of specifications, plans, and supervision of work.

Applications, including age, qualifications and experience, together with copies of testimonials, should reach the undersigned not later than 3rd June, 1950.

JOHN L. BECKETT, M.I.C.E.,

City Surveyor.

Town Hall, Leicester.

4300

CITY OF BRADFORD. CITY ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments in accordance with the National Scale of Salaries on the grades indicated:—

(a) Post No. 122: ARCHITECTURAL ASSISTANT, A.P.T., VI, £595-£660.
(b) Post No. 123: ARCHITECTURAL ASSISTANT, A.P.T., IV, £480-£525.

Candidates for appointment (a) should be Associates of the R.I.B.A., and should have had experience in the design of houses, flats and shops and the layout of housing estates. Candidates for appointment (b) should have passed the Intermediate Examination of the R.I.B.A., and experience of house design and estate layout will be an advantage.

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

Intending applicants must inform the City Engineer and Surveyor of the number of the post in which they are interested and the appropriate form of application will then be forwarded; which form, together with details of experience, and accompanied by not more than three testimonials, should be received by the undersigned not later than the 6th June, 1950.

Canvassing will disqualify, and an applicant who is related to a member of, or a senior officer of, the Council must disclose the fact in his application. No assistance can be given in the provision of housing accommodation.

W. H. LEATHEM, Town Clerk.

Town Hall, Bradford.

4282

MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS, with recognised 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.

Salary: Architectural Assistants, £300-£525 per annum, plus overtime. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a small 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.G.10/A.T. Ministry of Works, Abell House, London, S.W.1.

4083

BOROUGH OF SWINDON. APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the above appointment in the Borough Architect and Planning Officer's Department, at a salary in accordance with A.P.T. Grade V (£520-£570) of the National Scale of Salaries.

Applicants should have had experience in Housing and the general architectural work of a Local Authority, and must be Associate Members of the Royal Institute of British Architects.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination, if required, and is terminable on month's notice on either side.

Applications, on forms obtainable from me, must be returned not later than 3rd June, 1950.

Canvassing in any form will be deemed a disqualification.

D. MURRAY JOHN,

Town Clerk.

Civic Offices, Swindon, Wilts.

9th May, 1950.

4271

BOROUGH OF EALING. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following permanent appointments at salaries in accordance with the under-mentioned Grades of the A.P.T. Division of the National Scheme of Conditions of Service:—

(a) CHIEF ARCHITECTURAL ASSISTANT (Grade IX), commencing at £750 per annum, rising by annual increments to a maximum of £900 per annum, plus £30 London weighting.
(b) TWO ARCHITECTURAL ASSISTANTS (Grade VI), commencing at £595 per annum and rising, by annual increments, to £660 per annum, plus £30 London weighting.

Applicants must be Corporate Members of the Royal Institute of British Architects, or possess a recognised equivalent qualification. Preference will be given to candidates with Municipal experience.

The Council are unable to provide housing accommodation for the successful candidate. Candidates who have replied to the previous advertisement need not submit further applications.

Forms of application, together with conditions of appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 12th June, 1950.

E. J. COPE BROWN,

Town Clerk.

Town Hall, Ealing, W.5.

4353

BOROUGH OF SOUTHALE. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment on the permanent staff of the Corporation. Salary in accordance with Grades A.P.T. IV and V, of the National Scheme (£480-£570), plus appropriate London weighting, the commencing salary being dependent upon qualifications and experience.

Candidates should have passed the Intermediate Examination of the R.I.B.A. and have had previous Local Government experience.

Housing accommodation will be made available for the successful candidate if married.

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

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southale, must be returned to him not later than 5th June, 1950.

J. S. SYRETT,

Town Clerk.

Town Clerk's Offices, Southale, Middx.

4244

DURHAM COUNTY COUNCIL. ARCHITECT'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the appointment of Architectural Assistants in the following grades, in accordance with the National Joint Council for Local Authorities, Administrative, Professional, Technical and Clerical Services scales and conditions:—

Grade A.P.T., VIII, £685-£760.

Grade A.P.T., VII, £635-£710.

Grade A.P.T., VI, £595-£660.

Grade A.P.T., V, £520-£570.

Grade A.P.T., IV, £480-£525.

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

Canvassing will disqualify, and a candidate who is related to a member or a senior officer of the Council must disclose this fact in his application.

Applications, giving particulars of age, experience and qualifications, previous and present appointments, etc., and giving the names of three persons to whom reference can be made, should be forwarded at once to Mr. G. R. Clayton, F.R.I.B.A., County Architect, Court Lane, Durham, and in any case not later than Tuesday, 30th May, 1950.

J. K. HOPE,

Clerk of the County Council.

Shire Hall, Durham.

12th May, 1950.

4312

CITY OF STOKE-ON-TRENT. CITY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments to the permanent staff:—

(a) SENIOR ASSISTANT ARCHITECTS. Salary A.P.T. Division Grade VII, £635-£710.

(b) ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade VI, £595-£660.

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

Previous experience of Local Government work is not essential.

Suitable housing accommodation can be made available to the successful candidates for appointments (a) and (b).

Applications, giving date of birth, particulars of training, experience, etc., with copies of two recent testimonials, should be received by J. R. Piggott, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Friday, 9th June, 1950.

HARRY TAYLOR,

Town Clerk.

Town Hall, Stoke-on-Trent.

16th May, 1950.

4334

NOTTINGHAMSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments in the Development Control Section on the Staff of the County Director of Planning:—

(a) ASSISTANT AREA PLANNING OFFICER. Salary £535-£710. Applicants should have had considerable experience in the preparation of planning proposals for Urban and Rural areas, the control of development, the practical application of Town and Country Planning Legislation, and the general administrative work connected with a Planning Office.

(b) SENIOR PLANNING ASSISTANT. Salary £595-£660. Applicants should have had considerable experience in the control of development and the general administrative work connected with a Planning Office.

Applicants should hold the qualification of Corporate Member of the Town Planning Institute, and an additional qualification in engineering, surveying, or architecture would be an advantage.

Further particulars are obtainable from the County Director of Planning, Shire Hall, Nottingham, by whom completed applications must be received not later than 10th June, 1950.

K. TWEEDALE MEABY,

Clerk of the County Council.

4354

NORTHAMPTONSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. APPOINTMENT OF TEMPORARY TECHNICAL ASSISTANT.

Applications are invited for the appointment of Technical Assistant on the Temporary Staff of the County Architect. Candidates should have had experience in all types of building work and will be expected to assist in the taking off, abstracting and billing of quantities for all trades; practical experience in measuring up on the site for small contracts, and the preparation of interim and final certificates is required and a preliminary professional qualification will be an advantage.

Salary will be in accordance with Grade III of the A.P.T. Division of the National Scale of Salaries, viz., £450-£495.

If the selected candidate is married, is unable to obtain a house in or near Northampton and is compelled to maintain his family elsewhere, his salary will be temporarily increased by 25s. per week, together with such sum as will reimburse him for the cost of a third-class return railway ticket to his family's home once every two months, his circumstances to be reviewed by the appropriate Committee of the Council every three months.

The County Council have adopted the Conditions of Service as set out in the National Scheme for their temporary employees. The appointment will be determinable by one month's notice on either side, and the selected candidate will be required to pass a medical examination before the appointment is confirmed.

Travelling allowance under the scale approved from time to time by the County Council will be payable, and the selected candidate will be permitted to use a motor car or motor bicycle. Candidates should state whether they hold a driving licence.

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

No form of application will be issued, but candidates should forward particulars of age, education, qualifications and experience, together with the names of two persons to whom reference can be made, and a copy of a recent testimonial, in a sealed envelope endorsed "Temporary Assistant," to the County Architect, County Hall, Northampton, so as to reach him not later than 10 a.m. on Thursday, 1st June, 1950.

J. ALAN TURNER,

Clerk of the County Council.
County Hall, Northampton.
12th May, 1950. 4304

COUNTY OF KENT. PLANNING DEPARTMENT. SENIOR PLANNING ASSISTANTS.

Applications are invited for posts of Senior Planning Assistants in the Planning Department. The salary scale is £520-£710 per annum, in combined grades A.P.T., V-VI-VII, of the National Scales of Salaries. The commencing point in the scales will be fixed according to qualifications and experience. Applicants must possess an appropriate professional qualification and have had experience in town and country planning. Preference will be given to Corporate Members of the Town Planning Institute.

The principal duties will be connected with the preparation of the Development Plan and not with Development Control.

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

Applications in own handwriting, stating age, education, qualifications, previous experience, present position and salary, and the names and addresses of two persons to whom reference may be made as to professional ability and character, and endorsed "Senior Planning Assistants," must reach the County Planning Officer, County Hall, Maidstone, Kent, not later than 3rd June, 1950.

W. L. FLATTS,

Clerk of the County Council.
County Hall, Maidstone.
11th May, 1950. 4319

IMPERIAL WAR GRAVES COMMISSION. Branch in London for QUANTITY SURVEYORS, with good training and experience, as follows:—

(a) One post. Salary £750-£1,000 per annum, plus extra duty allowance of 3 per cent. of salary for 45½ hour week. Applicants must be over 35 years of age and have had pre-war experience in taking off quantities without supervision for buildings of a high architectural standard. Must also be capable of taking complete charge of contracts from their commencement to completion and supervising staff.

(b) Two posts. Salary £475-£750 per annum, plus extra duty allowance of 3 per cent. of salary for 45½ hour week. Applicants must have had experience in taking off on good permanent buildings. Pre-war experience an advantage.

(c) Two posts. Salary £330-£450 or £400-£525 per annum. Applicants should be capable of squaring dimensions and abstracting and billing with the minimum of supervision. In the higher scale applicants should have passed the Intermediate examination of the R.I.C.S. (Quantities) or other similar recognised examination.

Applicants for post (a) should be Fellows or Associates of Royal Institution of Chartered Surveyors, Quantities sub-division. Applicants for post (b) should be Associates in the same sub-division or have passed a recognised final examination, with Quantities as typical subject. In both posts a knowledge of stonework an advantage.

Starting pay will be assessed according to age, qualifications and experience. Although the above are not established posts, the duration will not be less than five years.

Applications should be addressed to Appointments Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks. 4307

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

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

(a) CHIEF QUANTITY SURVEYOR. Salary (A.P.T., Grade VIII), £685-£760 per annum. Applicants should be Members of the R.I.C.S. and have a wide experience in the preparation of estimates, Bills of Quantities, specifications, Schedules, adjustment of final accounts and other work incidental to such an appointment.

(b) CHIEF BUILDING SURVEYOR. Salary (A.P.T., Grade VII), £635-£710 per annum. Applicants should possess appropriate qualifications and experience of all branches of the building trades. They should be capable of the organisation and supervision of the work of the District Building Surveyors, and of the preparation of specifications, schedules, reports and estimates for maintenance and minor improvement works.

(c) QUANTITY SURVEYOR'S ASSISTANT. Salary (A.P.T., Grade III), £450-£495 per annum. Applicants should have had experience in the preparation of Bills of Quantities, etc., site measurement and settlement of Final Accounts.

(d) QUANTITY SURVEYOR'S CLERK. Salary (Clerical Grade), £395-£440 per annum. Applicants should have had experience in a Quantity Surveyor's or Builder's office and be conversant with the preparation of contracts, settlement of accounts, etc.

In the cases of (a) and (b) the successful candidates will be required to provide a motor car, in respect of which a mileage allowance will be paid in accordance with the Council's scale.

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

Applications, stating age, training, qualifications and experience, with particulars of past and present employment, with salaries, and accompanied by copies of three recent testimonials, must be received by the County Architect, County Hall, Beverley, not later than Friday, 2nd June, 1950. Applicants should disclose relationship to any member or senior officer of the Council, and canvassing will be a disqualification.

T. STEPHENSON,

Clerk of the County Council.
County Hall, Beverley.
May, 1950. 4301

FIFE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT, CUPAR.

Applications are invited from parties having suitable qualifications for appointment as ARCHITECTURAL ASSISTANT. Candidates must be qualified Architects, holding A.R.I.B.A. and registered Architects. Previous local authority experience would be an advantage. Salary £570, rising by annual increments of £25 to £710 per annum. Consideration will be given to meeting the housing needs of the successful candidate should the same be necessary. The appointment is superannuable and the successful candidate will require to pass a medical examination. Applications, stating age, experience and qualifications, accompanied by recent testimonials, to be lodged with the undersigned by 30th May, 1950. No canvassing.

J. M. MITCHELL,

County Clerk.
County Buildings, Cupar.
12th May, 1950. 4305

BOROUGH OF BRENTFORD AND CHISWICK. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of an Architectural Assistant on the permanent staff, at a consolidated salary according to A.P.T. Division, Grade VI, of the National Scheme (£550 to £660 per annum, plus appropriate London "weighting") commencing 1st year, the appointment being determinable by one month's notice on either side.

Applicants should be qualified as Associate Members of the Royal Institute of British Architects (or hold a similar qualification), but consideration will also be given to applicants intending shortly to take the Associate Examination. Applicants should have had extensive knowledge in general architectural work, house planning and design, including preparation of working drawings and specifications.

The Council have under consideration the possibility of providing housing accommodation for the successful applicant.

Applications for the above-mentioned appointment must be made on the prescribed form (which contains all particulars and conditions of appointment), obtainable from the undersigned, to whom applications should be sent not later than the 5th June, 1950.

W. F. J. CHURCH,

Town Clerk.
Town Hall, Chiswick, W.4. 4333

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

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

(a) CHIEF ASSISTANT ARCHITECT. A.P.T., Grade VIII (£685×£725-£760).

(b) QUANTITY SURVEYOR. A.P.T., Grade VII (£635×£725-£710).

(c) SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VI (£595×£720-£660).

(d) SECOND SENIOR ASSISTANT ARCHITECT. A.P.T., Grade V(a) (£550×£720-£510).

(e) ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade III (£450×£515-£495).

(f) JUNIOR ARCHITECTURAL ASSISTANT. A.P.T., Grade I (£390×£515-£435).

(g) QUANTITY SURVEYOR'S CLERK. Miscellaneous, Grade I (£315×£15-£360).

The appointments are permanent and are subject to the provisions of the National Scheme of Conditions of Service, 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 Monday, 5th June, 1950.

R. F. G. THURLOW,

Clerk of the County Council.
County Hall, March, Cambs.
15th May, 1950. 4329

WAR DEPARTMENT.

Applications are invited to fill three vacancies for CIVILIAN QUANTITY SURVEYOR (Main Grade) in the Far East (Singapore or Malaya). Applicants must be Corporate Members of the Royal Institution of Chartered Surveyors (Quantities Section) or have passed a degree or other examination necessary for obtaining Corporate Membership, and should in addition have considerable experience.

Salary range, £750-£1,000, which is liable to United Kingdom income tax. In addition, a foreign service allowance not liable to United Kingdom income tax is payable: single, £75, with free food and accommodation; married (unaccompanied), £240, with free food and accommodation; married (accompanied), £250. Starting salary will be determined by age, qualifications and experience. An initial outfit grant of £30 is also payable. Successful married applicants will be expected to proceed unaccompanied, but may apply on arrival for passage for family at public expense if accommodation is found.

Write for form of application to "K," Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, London, W.C.2. Quoting reference J62/50. 4294

BRECONSHIRE COUNTY COUNCIL.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT (Male or Female) in the County Architect's Department. The successful applicant will be paid a salary within the General Division (£200-£365 per annum) or A.P. and T. Grade II (£420-£465 per annum) of the National Scale of Salaries dependent upon experience and qualifications.

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

Applications must be made on a form to be obtained from the County Architect, Mr. H. C. W. Strickland, F.R.I.B.A., Rhyl, Offices, Brecon, S. Wales, and must be received by the undersigned not later than the 3rd June, 1950.

Canvassing, directly or indirectly, will definitely disqualify the candidate for the appointment. No housing accommodation can be provided by the Council for the successful applicant.

C. M. S. WELLS,

Clerk of the County Council.
County Hall, Brecon. 4338

PERTH AND KINROSS JOINT COUNTY COUNCIL.

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

(a) ARCHITECTURAL ASSISTANT. Salary scale A.P.T., Grade II-III (£420 to £495 per annum), with placing according to qualifications and experience.

(b) ARCHITECTURAL DRAUGHTSMAN (General Division). Salary according to age. Applicants for post (a) must have experience in an architect's office, preferably that of a Local Authority, and be capable of undertaking surveys and preparing working drawings under supervision.

Applicants for post (b) must have experience in architectural drawing and be able to prepare neat and accurate drawings and tracings.

The appointments are subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937.

Applications, stating post applied for, and giving particulars of age, training, experience and qualifications, together with copies of not more than three recent testimonials, should be lodged with the County Clerk, County Offices, York Place, Perth, not later than 12th June, 1950.

4310

SUDAN GOVERNMENT.

The Public Works Department requires a DISTRICT ENGINEER, aged 26 to 34, for service in the Sudan. The duties consist of the organisation and control of the construction and maintenance of buildings, roads, and other works. Candidates should be Corporate Members of the Institution of Civil Engineers or hold qualifications exempting them from Parts A. & B. of the Institution's Associate Membership Examination or be Associates of the Royal Institute of British Architects.

Appointment will be on short term contract on a salary between £2,600 and £2,900.

Cost-of-living allowance, varying between £180 and £230 per annum, according to the number of dependents, is at present payable, and, subject to certain limitations, an outfit allowance of £260 is payable on appointment. There is at present no income tax in the Sudan. Free passage on appointment. Full particulars and general information may be obtained on application to:—Sudan Agent in London, Wellington House, Buckingham Gate, London, S.W.1. Please mark envelope "District Engineer, P.W.D."

4211

BOROUGH OF HESTON AND ISLEWORTH.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:—

TWO SENIOR ARCHITECTURAL ASSISTANTS.

Salary in accordance with Grade VI of the A.P.T. Division, at the rate of £595 × £20 × £200 = £25-£660 per annum, plus London weighting of £30 per annum.

Applicants must hold the examination qualification for the A.R.I.B.A. or a University degree or diploma in architecture approved by the Institution.

Applicants must have had good experience in architectural design of a general character, and preference will be given to candidates experienced in housing and other local government work.

The appointments are to be established posts and subject to the National Scheme of Conditions of Service. Forms of application may be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, Middlesex, by sending a stamped addressed envelope.

Application on the forms provided, endorsed "Senior Architectural Assistant," to be delivered to the Borough Surveyor not later than noon on 5th June, 1950.

Canvassing will disqualify.

HAROLD SWANN,

Town Clerk.

4327

METROPOLITAN BOROUGH OF SHOREDITCH.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of one Architectural Assistant, in Grade A.P. and VI, salary £595-£660 per annum, plus London weighting, or in Grade Va, salary £550-£610, plus London weighting, dependent on the qualifications and experience of the applicants.

Applicants should have good architectural experience and be competent to undertake the preparation of working drawings and details for housing schemes, including multi-storey flats.

Preference will be given to Associates of the Royal Institution of British Architects, and the appointment will be subject to medical examination, the Council's Superannuation Scheme, and general conditions of service.

Applications, stating age, training and experience, together with the names of two persons to whom reference may be made, should be submitted to the undersigned not later than Monday, 5th June, 1950, and endorsed "Architectural Assistant."

Any applicant who is related to a member of the Council or the holder of any senior office under the Council must disclose the fact in his application.

C. A. JAMES,

Town Clerk.

4322

Town Hall, Old Street, E.C.1.

May, 1950.

COUNTY BOROUGH OF BOURNEMOUTH.
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:—

ASSISTANT ARCHITECT (unestablished post)—salary Grade A.P.T., VI, £595-£660 per annum—required for reconstruction works on beach buildings.

Applicants must be Members of the R.I.B.A. The successful candidate will be appointed at his present salary if such salary is within the incremental scale of the advertised post.

The above appointment will be terminable by one month's notice, in writing, on either side, and subject to the provisions of the Local Government Superannuation Act, 1937, also to the conditions of service in accordance with the National Scheme.

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

No assistance can be offered regarding housing accommodation.

Applications, on forms to be obtained from the Borough Architect, Town Hall, Bournemouth, accompanied by copies of three recent testimonials, to be returned to the undersigned in envelopes endorsed "Staff Architectural," not later than 9 a.m. Saturday, 10th June, 1950.

A. LINDSAY CLEGG,

Town Clerk.

4342

NORTH THAMES GAS BOARD.

Applications are invited for the following appointment in the Architects' Section of the Chief Engineer's Department of Westminster: SENIOR ARCHITECTURAL ASSISTANT, minimum starting salary £550 per annum.

Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

Applications, stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 9757.

4341

NEWMARKET URBAN DISTRICT COUNCIL.
TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the Architect's Department. Salary Grade III, A.P.T. Division, £450, rising by annual increments of £15 to £465 per annum.

Preference will be given to candidates who have passed the R.I.B.A. Intermediate Examination and who have had experience of housing work. The Council are prepared to find the successful applicant, if married, housing accommodation in the district.

The appointment is subject to the National Joint Council Scheme of Conditions of Service.

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, past and present appointments, accompanied by copies of two recent testimonials, must be submitted to the undersigned not later than Saturday, 10th June, 1950.

JOHN CRABB,

Clerk of the Council.

Severals House, Newmarket.

16th May, 1950.

4338

DUNDEE COLLEGE OF ART SCHOOL OF ARCHITECTURE.

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

Applicants should be Members of the R.I.B.A. and should preferably be holders of a degree or diploma of a recognised School of Architecture.

Salary scales: Men, £450 by £20 to £700; women, £400 by £15 to £575, with placing according to qualifications and experience.

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

J. CAMERON FREER,

Clerk and Treasurer.

Bell Street, Dundee.

8th May, 1950.

4330

COUNTY BOROUGH OF READING.

SENIOR ASSISTANT ARCHITECT.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the above post. Candidates must have had experience of handling schemes from conception to completion.

The post is Grade VI (£595-£660).

The appointment will be subject to (1) the National Scheme of Conditions of Service (2) the Local Government Superannuation Act, 1937, (3) the passing of a medical examination by the successful candidate, and (4) determination by one month's notice in writing on either side.

Applicants must state their age, qualifications, full details of experience and previous appointments, together with the names and addresses of three persons to whom reference can be made.

Applications, endorsed "Senior Assistant Architect," should be received by the Borough Architect, Town Hall, Reading, not later than Saturday, 17th June, 1950.

G. F. DARLOW,

Town Clerk.

4366

Town Hall, Reading.

May, 1950.

CITY AND COUNTY OF KINGSTON-UPON-HULL.

TOWN PLANNING DEPARTMENT.

Applications are invited for appointment as follows:—

(1) PLANNING ASSISTANT. A.P.T., Grade V, £520-£570 per annum. Qualifications—at least one of the following: A.R.I.B.A., A.M.I.C.E., A.M.I. (an.E.), A.R.I.C.S., A.M.T.P.I.

(2) PLANNING ASSISTANT. A.P.T., Grade IV, £480-£525 per annum. Qualifications—Intermediate Examination of a recognised professional Institution.

(3) PLANNING ASSISTANT. A.P.T., Grade III, £450-£495 per annum. Qualifications—Degree in Economics, Geography or an allied subject. Preference will be given to candidates who have had experience in the carrying out of surveys for the preparation of Development and Reconstruction Schemes.

The appointments will be subject to the Local Government Superannuation Act, 1937, and to the National Conditions of Service for Local Authorities' Administrative, Professional, Technical and Clerical Services, to such other conditions of service as have been specified from time to time by the Council and to one month's notice in writing on either side.

Successful candidates will be required to pass a medical examination.

Applicants should state whether or not they are related to any member of the Kingston-upon-Hull County Borough Council or chief official of the Corporation.

Canvassing will be a disqualification. Applications, stating age, qualifications, experience and present salary, together with the names and addresses of two persons to whom reference may be made, should be delivered to the undersigned on or before Saturday, 10th June, 1950.

U. AYLMER COATES, B.Arch.,

F.R.I.B.A., M.T.P.I.,

Town Planning Officer.

Guildhall, Kingston-upon-Hull.

4367

NORFOLK COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

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

Applications must state clearly age, qualifications, full details of training, experience and previous appointments with dates, salaries and designations; the names and addresses of three persons to whom reference may be made must be stated. Applications must be delivered to Mr. C. H. Thurston, L.R.I.B.A., F.R.I.C.S., County Architect, 25, Thorpe Road, Norwich, by not later than Wednesday, 7th June, 1950.

H. OSWALD BROWN,

Clerk of the Council.

County Offices, Thorpe Road, Norwich.

4356

METROPOLITAN BOROUGH OF FULHAM.

ARCHITECTURAL ASSISTANTS.

Applications are invited for appointments in the Architectural Section of the Director of Housing and Public Buildings' Department. Salary A.P.T., Grade II (£420 × £15 to £465 p.a.), plus weighting of £10, £20 or £30, according to age.

Applications on forms obtainable from me; closing date 5th June, 1950.

CYRIL F. THATCHER,

Town Clerk.

Town Hall, Fulham, S.W.6.

15th May, 1950.

4340

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

STAFF.

Applications are invited for the above on the National Salary Scales:—

Grade V, £520-£570 per annum,

Grade Va, £550-£610 per annum,

Grade VI, £595-£660 per annum,

Grade VII, £635-£710 per annum,

Grade VIII, £685-£760 per annum,

according to experience and qualifications.

A temporary lodging allowance of £1 5s. per week is payable for a period not exceeding six months, plus 3rd class return fare home every two months, to newly appointed married staff whose homes are outside this geographical County, and who are unable to secure housing accommodation.

The appointments will be subject to the Scheme of Conditions of Service of the National Joint Council and to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating the particular appointment applied for, and giving full details of experience and qualifications, age, etc., together with copies of three recent testimonials, should be delivered to the County Architect, Martin Street, Stafford, within 14 days of the appearance of this advertisement.

Applicants must disclose whether or not they are related to any member or senior officer of the Council.

T. H. EVANS,

Clerk of the County Council.

County Buildings, Stafford.

18th May, 1950.

4364

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).

Applicants for both posts must be registered Architects, must have passed the Final Examination of the R.I.B.A., and have had wide experience in planning and construction, and in the preparation of working drawings for important hospital buildings. The appointments are superannuable.

Applications, stating age, qualifications and experience, with the names of two referees, should be addressed to the Secretary, Temple of Peace and Health, Cathays Park, Cardiff, to reach him not later than 20th June, 1950. 4365

The Civil Service Commissioners invite applications for two permanent posts of ARCHITECTURAL ASSISTANT in the Post Office.

Candidates must be under 22 years of age on 1st June, 1950, with extension for regular service in H.M. Forces and, up to two years, for service in H.M. Forces otherwise than on a regular engagement.

Candidates must have passed the Intermediate Examination of the Royal Institute of British Architects and have had five years' experience of architectural work.

Inclusive London salary scales:—£300-£525 (men), £300-£450 (women). Rates outside London somewhat lower. Starting pay according to age.

Further particulars and application forms from the Secretary, Civil Service Commission, Scientific Branch, 7th Floor, Trinidad House, Old Burlington Street, London, W.1, quoting No. 3105; completed applications must be returned by 22nd June, 1950. 4358

COUNTY BOROUGH OF DARLINGTON. BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the permanent appointment of ASSISTANT ARCHITECT, Salary Grade VI (£595-£660).

The Department is dealing with a large programme of education work, including large secondary schools and a new Technical College. Housing, Welfare Buildings and other general work, and candidates who have had previous experience and are Members of the R.I.B.A. will receive preference.

Note.—A well equipped self-contained flat, with garden, in good locality, will be made available if required.

Applications, giving full particulars of age, qualifications, present appointment with salary, previous experience with dates, and the names of three referees, to be sent to E. A. Tothill, O.M., A.R.I.B.A., A.M.T.P.I., Borough Architect, Central Buildings, Darlington, not later than Monday, 12th June, 1950. 4361

COIMISIUN NA STAT-SHEI RBHISE—POSITIONS VACANT.

ASSISTANT ARCHITECTS (EIGHT) (Established in the Office of Public Works. Salary scales: Man, £670-£885; woman, £400-£720, with higher initial salary in certain circumstances. Maximum age limit: 40 years, with extensions of the upper limit in certain cases. Essential: University Degree, or equivalent in Architecture, and satisfactory experience of Architectural work. Further particulars obtainable from the Secretary, Civil Service Commission, 45, Upper O'Connell Street, Dublin. Latest time for accepting completed application forms: 5 p.m. on 2nd June, 1950. 4303

WOLVERHAMPTON AND STAFFORDSHIRE TECHNICAL COLLEGE.

Principal: W. E. FISHER, O.B.E., D.Sc.
Appointment of SENIOR ASSISTANT in the Building Department, to commence duty 1st September, 1950. Salary on Burnham Technical Scale for Senior Assistants, namely £700 by £25 to £800 per annum, with additions for recognised training, for Degree, and for First Class Honours. The duties will include the development of Building Science and the application of modern materials and techniques in Building. Applicants should have suitable technical qualification (e.g., a degree in Civil Engineering), combined with recent practical experience in the building industry or in building research. Further particulars from the undersigned.

F. LONSDALE MILLS,
Clerk to the Joint Education Committee,
Education Offices, North Street,
Wolverhampton. 4321

SEDGEFIELD RURAL DISTRICT COUNCIL. JUNIOR TECHNICAL ASSISTANT IN HOUSING ARCHITECT'S DEPARTMENT.

The District Council require a Junior Assistant, to carry out General Technical Work in their Housing Architect's Department.
The salary will be in accordance with Grade I of the A.P.T. Division, the appointment to be subject to the conditions laid down by the National Scheme for Local Government Officers and to one month's notice on either side.

Applications, preferably from persons who have served over three years in a Drawing Office, stating age, experience, present occupation and whether married or single, together with the names and addresses of two referees, should be in my hands by the first post on Wednesday, 7th June, 1950, at the latest.

F. J. DAVISON,
Clerk to the Council. 4352

STAFFORDSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. APPOINTMENT OF JUNIOR PLANNING ASSISTANTS.

A.P.T., Grades I-IV. Salary £390-£525.
Applications are invited for appointments as Junior Planning Assistants on the established staff of the County Planning Department. Vacancies exist in the Headquarters and Central Area Planning Offices at Stafford, the Eastern Area Planning Office at Lichfield, and the Southern Area Planning Office at Wolverhampton.

Applicants for appointments should have had training in an Architect's, Engineer's, Surveyor's or Planning Office, and preference will be given to those who have passed the Intermediate Examination of the Town Planning Institute or its equivalent.

The County Council has adopted the decisions of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services of 26th July, 1949, relating to the grading of special classes of officers. Planning Assistants will be appointed in accordance with grades approved for architectural and engineering and surveying assistants. Each appointment will be made within the range of grades stated, in accordance with the qualifications and experience of the person appointed.

A lodging allowance of 25s. per week, and 3rd class return railway fare home every two months, will be paid for a maximum period of six months where the successful candidate is married and has to continue to maintain his home outside the geographical county while seeking housing accommodation.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937; the National Joint Council's Scheme of Conditions of Service as adopted by the County Council; the passing of a medical examination; and to one month's notice on either side.

Canvassing, directly or indirectly, will be deemed a disqualification, and relationship to any member or senior officer of the Council must be disclosed.

Applications should give details of age, education and training, qualifications, present and previous appointments and experience, and should include copies of two recent testimonials and the names of two other persons to whom reference can be made.

Applications should be sent to D. W. Riley, County Planning Officer, County Planning Department, 41a, Eastgate Street, Stafford, not later than 3rd June, 1950.

T. H. EVANS,
Clerk of the County Council.
County Buildings, Stafford. 4362

COUNTY BOROUGH OF SOUTHEND-ON-SEA.
Applications are invited for the appointment of an ASSISTANT ARCHITECT, Grade V (£520-£570), in the Department of the Borough Engineer and Surveyor.

The appointment will be subject to medical examination and to the Local Government Superannuation Act, 1937.

Applications, stating age, education, training and qualifications, and previous and present employment, and accompanied by one copy testimonial and two professional references, to be sent to the Borough Engineer and Surveyor, Municipal Buildings, Southend-on-Sea, by Saturday, 10th June, 1950.

ARCHIBALD GLEN,
Town Clerk.
Southend-on-Sea. 4370

CARDIFF RURAL DISTRICT COUNCIL. APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant in the Engineer and Surveyor's Department, at a salary in accordance with Grade VII, A.P.T. Division of the National Scale of Salaries (£635-£710 per annum). The appointment, which will be subject to one month's notice on either side, is subject to the Local Government Superannuation Acts and the National Scheme of Conditions of Service, and the successful applicant will be required to pass a medical examination.

Applications, giving the names of two persons to whom reference may be made, should be delivered to me in a sealed envelope endorsed "Appointment of Architectural Assistant," not later than Wednesday, the 31st May, 1950.

S. P. YOULDON, M.C., F.R.I.C.S.,
M.I.Mun.E.,
Engineer and Surveyor. 4308

H.M. Prison Commission have a vacancy in London for an ARCHITECTURAL ASSISTANT. Commencing salary £300-£412 10s. per annum, according to age and qualifications, rising to £525 per annum. Unestablished (i.e., non-pensionable) post, but candidates may later enter Civil Service Commission Competition for establishment. Hours of duty 44 a week. Annual leave 24 working days, after three years 28 working days. Must have a recognised training with a good general knowledge of construction and surveys. Apply the Establishment Officer, Prison Commission, Horseferry House, Dean Ryle Street, London, S.W.1, quoting E.126/2/3. 4293

COUNTY BOROUGH OF WEST HAM. BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for ASSISTANT ARCHITECT, Grade A.P.T. VI (£595-£620), on Establishment of above Department. Preference given to applicants who are A.R.I.B.A., and have experience in housing and education works.
Application form (returnable by 13th June 1950) obtainable from Thomas E. North, F.R.I.B.A., Borough Architect and Planning Officer, 70, West Ham Lane, E.15. 4301

Tenders for Contracts

6 lines or under, 12s. 6d.; each additional line, 2s.

The Agent-General for Western Australia desires to advise prospective tenderers that the closing date in Perth Western Australia for the receipt of tenders for the supply and erection of 750 Prefabricated or Precut Houses for the State Housing Commission of Western Australia has now been extended to the 13th July, 1950. 4338

Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

ASSISTANT to Technical Editor of "The Architects' Journal"; qualifications required. Interested in building construction, R.I.B.A. Inter. standard, or equivalent qualifications; experience in architect's or builder's office an advantage. Replies to Cottrell Butler, 9-11 Queen Anne's Gate, S.W.1. 423

STUDENT or JUNIOR ARCHITECT for editorial work; applicants to have a bias towards building technology and the science of building; salary according to qualifications and experience. Box 493.

YOUNG ASSISTANT, interested in Ecclesiastical work required in private East Midland office; student considered. Full particulars to Box 4167.

EDITORIAL ASSISTANT required for architectural journal. Applicants should be interested in current building problems, capable of understanding working drawings, and with a good command of English. Box 510.

QUALIFIED ASSISTANT, A.R.I.B.A., preferred, required for general practice, Isle of Wight; capable of taking complete charge of office; Partnership considered for suitable applicant; salary £600-£700, according to experience, etc. Write full particulars of qualifications and experience to V. Aldridge, F.R.I.B.A., 35a St. James Street, Newport, I.W. 4138

CHANNEL ISLANDS—Qualified ARCHITECTURAL ASSISTANT required, to take control of Office at Jersey; knowledge of the Channel Islands an advantage; ultimate partnership for suitable applicant. Applications, giving full particulars, to Box 4275.

ARCHITECTS' ASSISTANT required for private practice, S.W. England; working drawings, details, surveying and levelling; living accommodation available. Write, stating age, experience, salary required, Box 4279.

SENIOR ASSISTANT required, to work under Principal, small London office with general practice; must be practical and a good draughtsman; experienced in industrial building and contemporary architecture; opportunity for a man with initiative, with prospect of profit sharing salary £650 to £700 p.a. Write, giving particulars of age and experience, to Box 4284.

ARCHITECTS' ASSISTANT required immediately. Write, stating age, experience and salary, to W. L. Jones, L.R.I.B.A., 21, High Street, Great Missenden, Bucks. Tel.: Great Missenden 306 or 375. 4207

ARCHITECTURAL ASSISTANT required, up to Inter. standard, by Chartered Architect; good opportunity in small progressive office. Tel.: Putney 6081/2. 4246

ARCHITECTURAL ASSISTANTS (TWO) required for the design and detail of Industrial Buildings in connection with the coal, gas, iron and steel industries; 3 years' minimum office experience essential. Apply, stating age and experience, to Personnel Manager, Simon-Carrés Ltd., Stockport. 4295

ARCHITECTURAL ASSISTANT required in general Country Practice; about Intermediate standard. Reply, with full particulars and salary required, to Jackson & Jackson, F.A./L.R.I.B.A., 13, North Street, Ashford, Kent. 4234

ARCHITECTURAL ASSISTANT required in Architect's Department of large South London Building Company, for housing details, prefabricated and otherwise; salary £350-£500, according to experience and qualifications. Box AC 51687, Samson Clarks, 57/61, Mortimer Street, W.1. 4233

ARCHITECTURAL ASSISTANTS required, of Intermediate standard, for private Architect's offices in Norwich and Yarmouth; all classes of work in progress; applicants should state their age and give full particulars of their qualifications and experience. A. D. Cooke, A.R.I.B.A., 78, Prince of Wales Road, Norwich. 4246

WANTED, for Railway Civil Engineer's Office in Glasgow, **TEMPORARY ARCHITECTURAL ASSISTANT**, with good general practice experience. State age, qualifications and experience. Box 4346.

ARCHITECTURAL ASSISTANTS required for a general architectural practice. Apply, stating experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 4351

ARCHITECTURAL ASSISTANT required, Ipswich; Intermediate standard; capable of preparing working drawings and details. Write, stating experience, qualifications and salary required, to Box 4350.

ARCHITECTURAL ASSISTANT required immediately by Patrick Gwynne, The Home-wood, Esher, Surrey. Tel.: Esher 3310. 4349

ARCHITECTURAL ASSISTANT required for general practice; good draughtsman, capable of making surveys and inspections; £450-£500. Ingram, Son & Archer, Chancery 8036. 4348

SENIOR ASSISTANT required in Central Hertfordshire office; must be quick, accurate draughtsman, capable of supervising contracts from sketch plan to final stage; preferably experienced in schools and factories; good prospects and salary for suitable applicant. Write in confidence, stating age and experience, etc., to Box 4347.

ARCHITECTURAL ASSISTANTS, Intermediate standard, required for office in Watford/St. Albans area; good draughtsmanship essential; salary according to qualifications and ability. Full particulars to Box 4318.

ASSISTANT required in general practice in London; Intermediate standard, with office experience or recently qualified. Kenchington, Farms & Nield, 130, Crawford Street, W.1. 4296

ARCHITECTURAL ASSISTANT required for contemporary store and exhibition design by Gaby Schreiber and Associates. Sloane 6127. Salary according to ability. 4302

MANAGING ASSISTANT ARCHITECT required for private practice in Portsmouth; must be able to take full charge of office, and act on own initiative; excellent opportunities for the right man. Applications, giving full particulars to Box 4309.

ARCHITECTURAL ASSISTANT required by Gollins, Melvin & Partners, F./A.R.I.B.A.; capable working drawings; salary £350-£550; office experience essential; 5-day week. Telephone Museum 0883 for appointment. 4315

PERMANENT positions available for competent ASSISTANTS in established London office; salary: Juniors, £350-£550; Seniors, £650-£850 per annum. Reply, with full details of experience, to Box 4316.

EXPERIENCED ARCHITECTS' ASSISTANT required; flat available. Reply, stating age, experience, and salary required, and if married, to Burgess, Holden & Watson, Architects, Beaconsfield, Bucks. Telephone 1198. 4323

SENIOR ARCHITECTURAL ASSISTANT required; preference given to one with knowledge of large office buildings. Write, stating age, qualifications, etc. Box 4326.

SENIOR and INTERMEDIATE ARCHITECTURAL ASSISTANTS required, preferably with experience of commercial and city practice; interesting and varied work; 5-day week; good salaries. Please apply in writing to Lewis Solomon & Son, 21, Bloomsbury Way, W.C.1. 4328

ARCHITECTS. SENIOR ASSISTANTS required. Should have good knowledge of commercial and industrial buildings and contemporary design. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.5. Envelopes to be endorsed "Architect." 2025

REQUIRED, at Company's Head Office, Guildford, **ARCHITECTURAL ASSISTANT**, A.R.I.B.A.; varied work, mainly factory; 5-day week; salary by arrangement. Box 4332.

QUANTITY SURVEYORS. SENIOR ASSISTANTS required. Preferably with pre-war experience in Scheduling; probable costing; measuring and agreeing Final Measurements. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.5. Envelopes to be endorsed "Surveyor." 2026

ARCHITECTURAL ASSISTANT wanted, qualified, with office experience in Housing and Industrial work; five-day week; commencing salary £625. Percy V. Burnett & Partners, 12, Bloomsbury Square, London, W.C.1. Holborn 6177. 4357

ARCHITECT/SURVEYOR required at Head Office for current maintenance and improvement of approx. 60 shops and restaurants (majority in London area). Applicant should have several years' practical office and site experience, be capable of carrying out record surveys of all firm's properties, and of drawing up small alteration schemes, including specifications, putting these out to tender and seeing them through to completion (larger schemes are being handled by independent outside firm of Architects, who are prepared to give successful applicant occasional guidance). Apply in writing, giving full particulars of training, qualifications and previous experience, to the Secretary, Fuller's, Ltd., 45, Great Church Lane, Hammer-smith, W.6. 17th May, 1950. 4337

ARCHITECTURAL ASSISTANT, with experience in design of industrial buildings and capable of preparing surveys, working drawings and details, required by a large industrial firm in the Midlands; a house is available. Write, stating age, education, experience, salary required, Box 4343.

ARCHITECT'S ASSISTANT, at least Inter. R.I.B.A. standard, required at once; salary according to experience; accommodation can be provided. Gotch, Saunders & Surridge, F./A.R.I.B.A., High Street, Kettering, Northants. 4368

EXPERIENCED ARCHITECTURAL ASSISTANT, preferably A.R.I.B.A., required at Rugby; basic salary scale equivalent Local Authority; Staff Superannuation scheme in line with Local Authority; profit sharing scheme; variety of experience in private practice. Apply first place, stating age, experience, qualifications, and salary required. 4360

Architectural Appointments Wanted

REQUIRED position as **CHIEF ASSISTANT**, preferably in busy country office; good general experience includes design, supervision, etc., of L.A. and private housing, layouts, survey work, conversions, farm and church work, specifications, etc.; aged 32; used to taking charge. Salary and details to Box 521.

CHARTERED ARCHITECT, with wide experience in England and overseas, requires engagement. G. Shields, 4, Inverness Terrace, W.2. 524

TWO 5th Year STUDENTS, Inter. R.I.B.A., recognised school, 4 years' previous experience, desire employment during summer vacation, London area; available individually. Box 525.

EXPERIENCED ASSISTANT, studying for Final R.I.B.A., requires responsible post in North-West; salary about £500 p.a. Box 527.

POST required as **SENIOR ASSISTANT**, preferably in busy country office; aged 32, school trained, A.R.I.B.A.; 11 years' varied experience, with responsibility; South or South-West preferred. Box 528.

A. R.I.B.A. (Dist. Th.). M.R.San.I., Student Dip. T.P., 15 years' general experience, requires progressive appointment in London, preferably with some T.P. experience. Cox, 42, Barrow Road, S.W.16. 526

Other Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

INTELLIGENT and enthusiastic, young man, with some knowledge of building construction and materials, wanted for unusually interesting, selling job, mainly in London (full-time). Write, with full particulars of age, training, experience, salary required, to Box 366.

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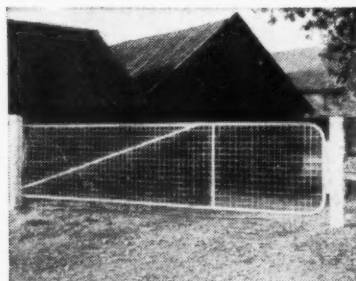
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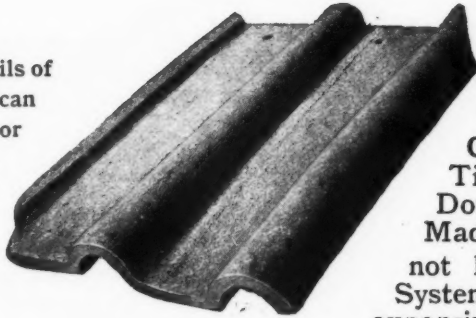
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