

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 in 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.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill, Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Welbeck 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. Department of Architecture, School of Building, Ferndale Road, Brixton, S.W.4.	Brixton 7048
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Welbeck 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 43, George Street, Croydon.	Croydon 5452
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Newport 3111
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A., Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Regent 3074
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzer and.	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 8161
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUJC	Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1.	Victoria 1534
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 1761
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EC	Electricity Commission. Savoy Court, Strand, W.C.2.	Temple Bar 7565
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FB 1951	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.	Waterloo 1951
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Whitehall 9606
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37 Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 5615
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577

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[Vol. 111

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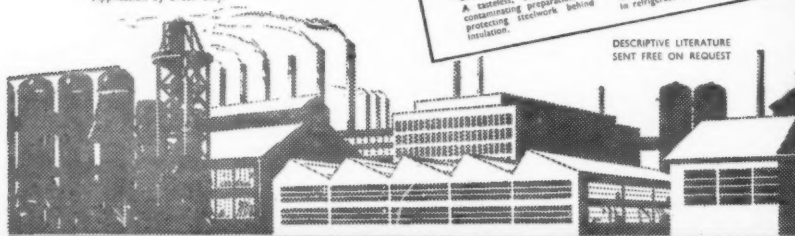
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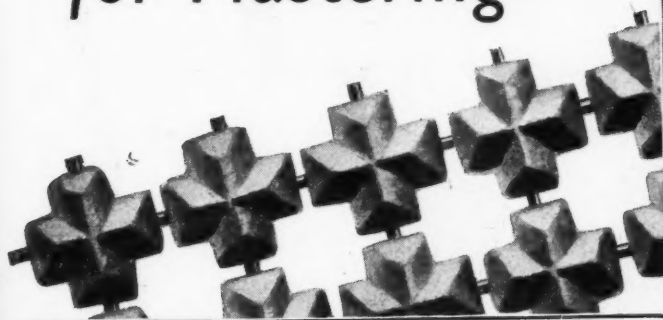
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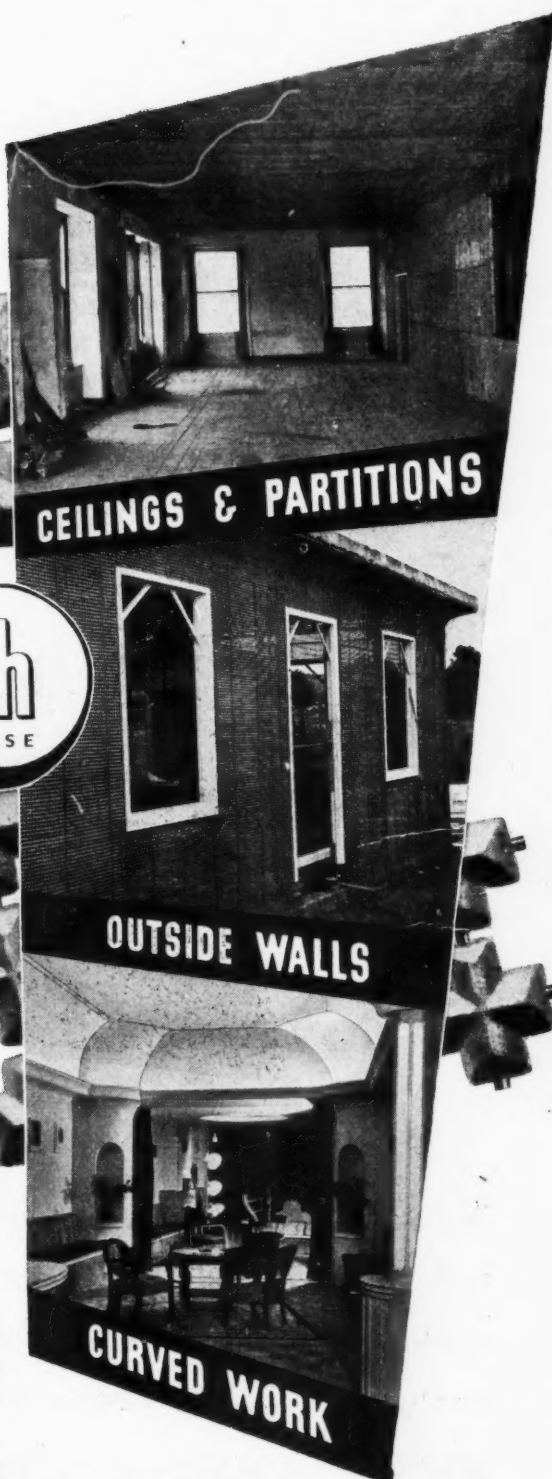
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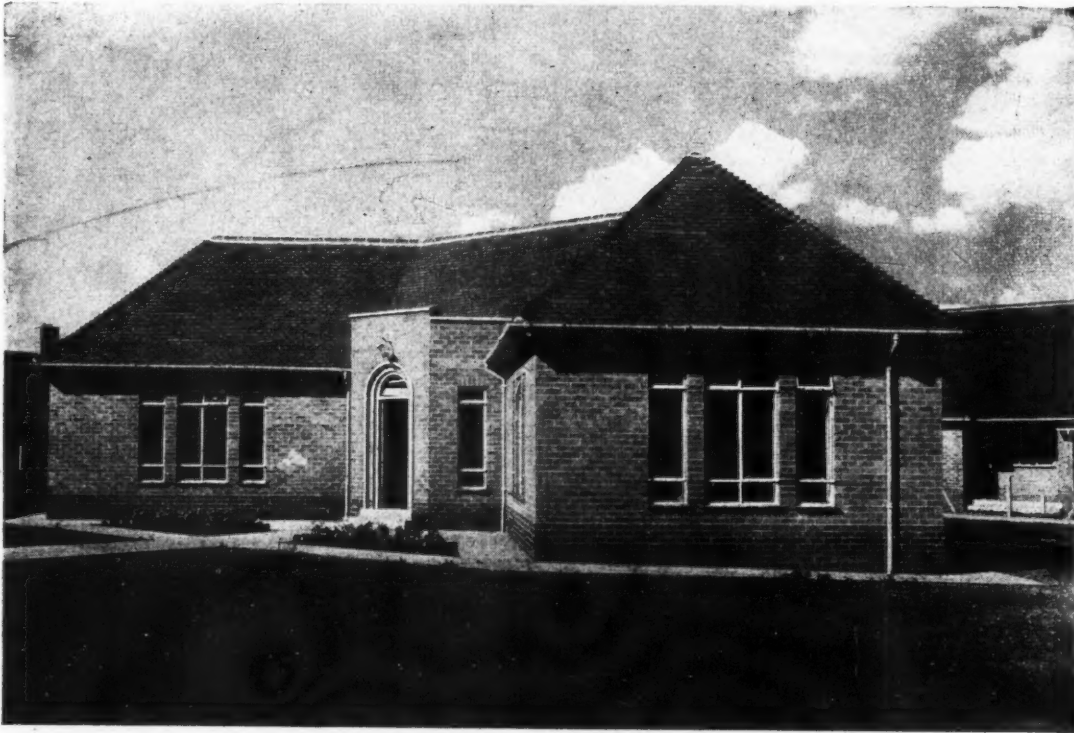
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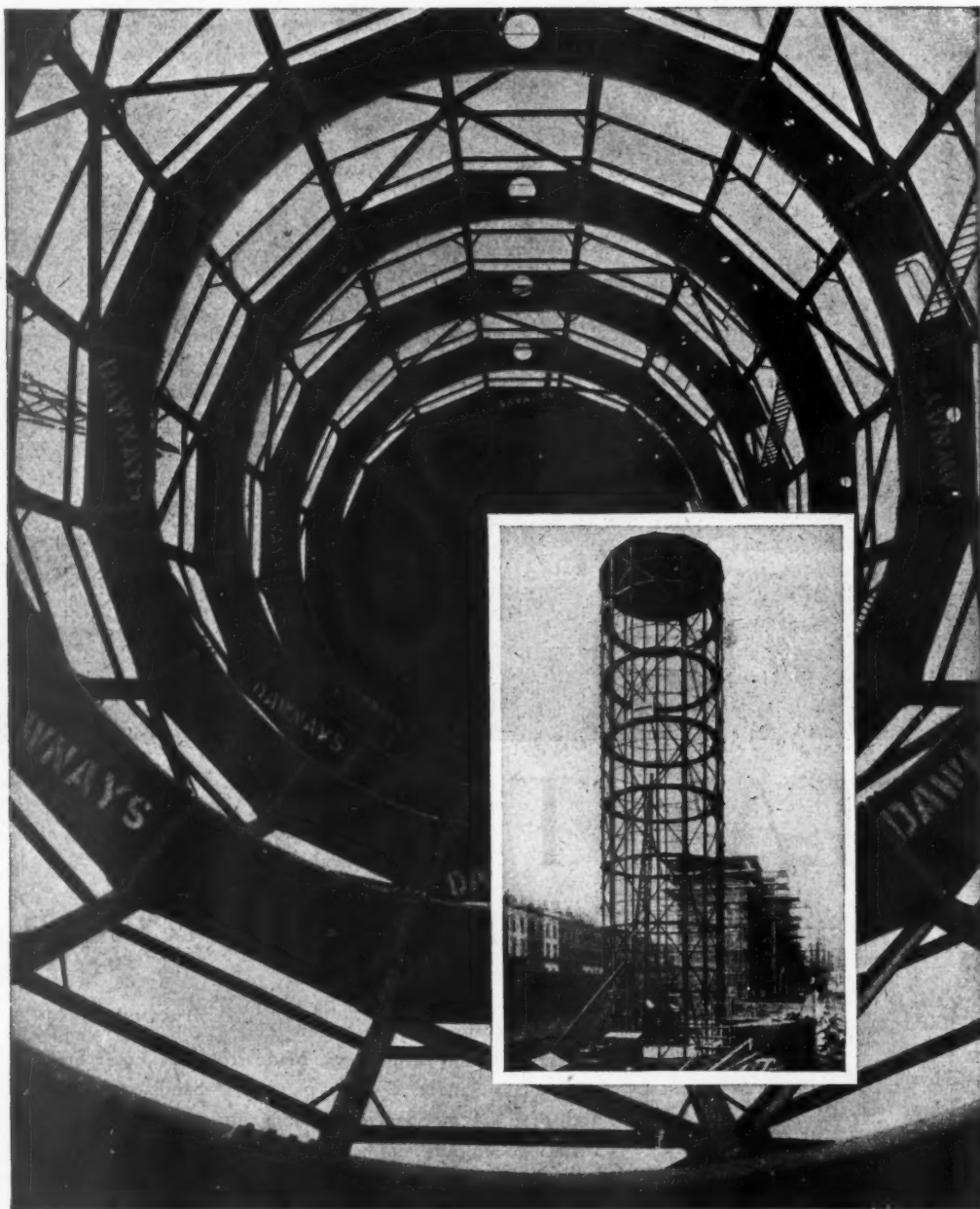
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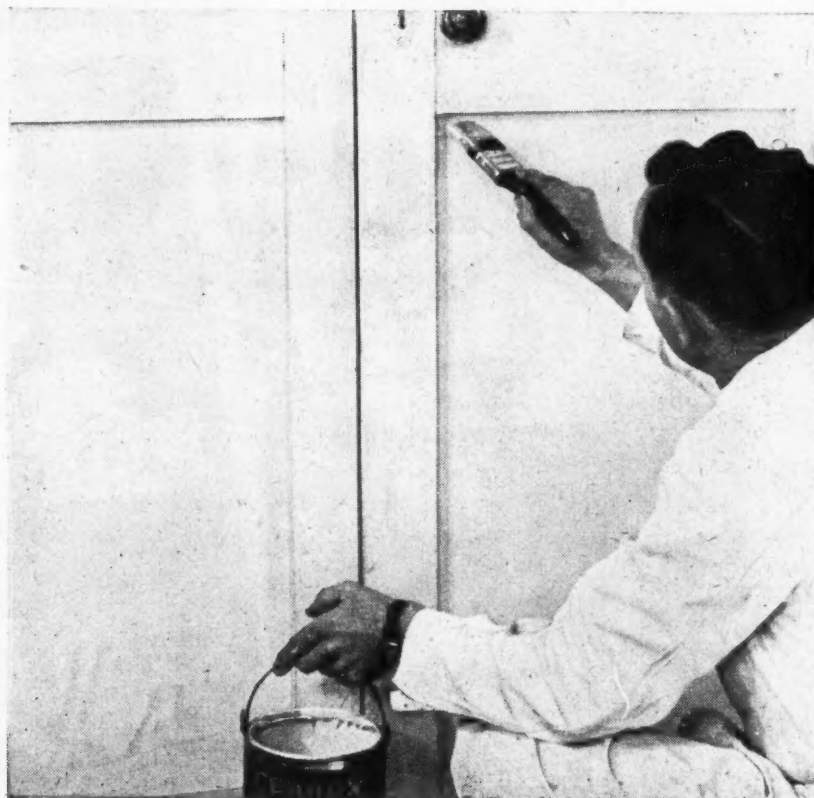
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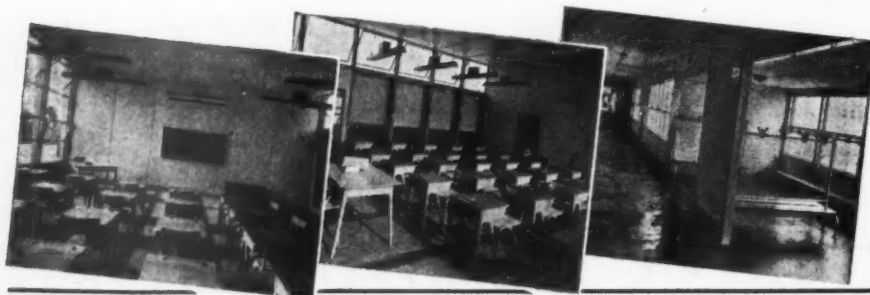
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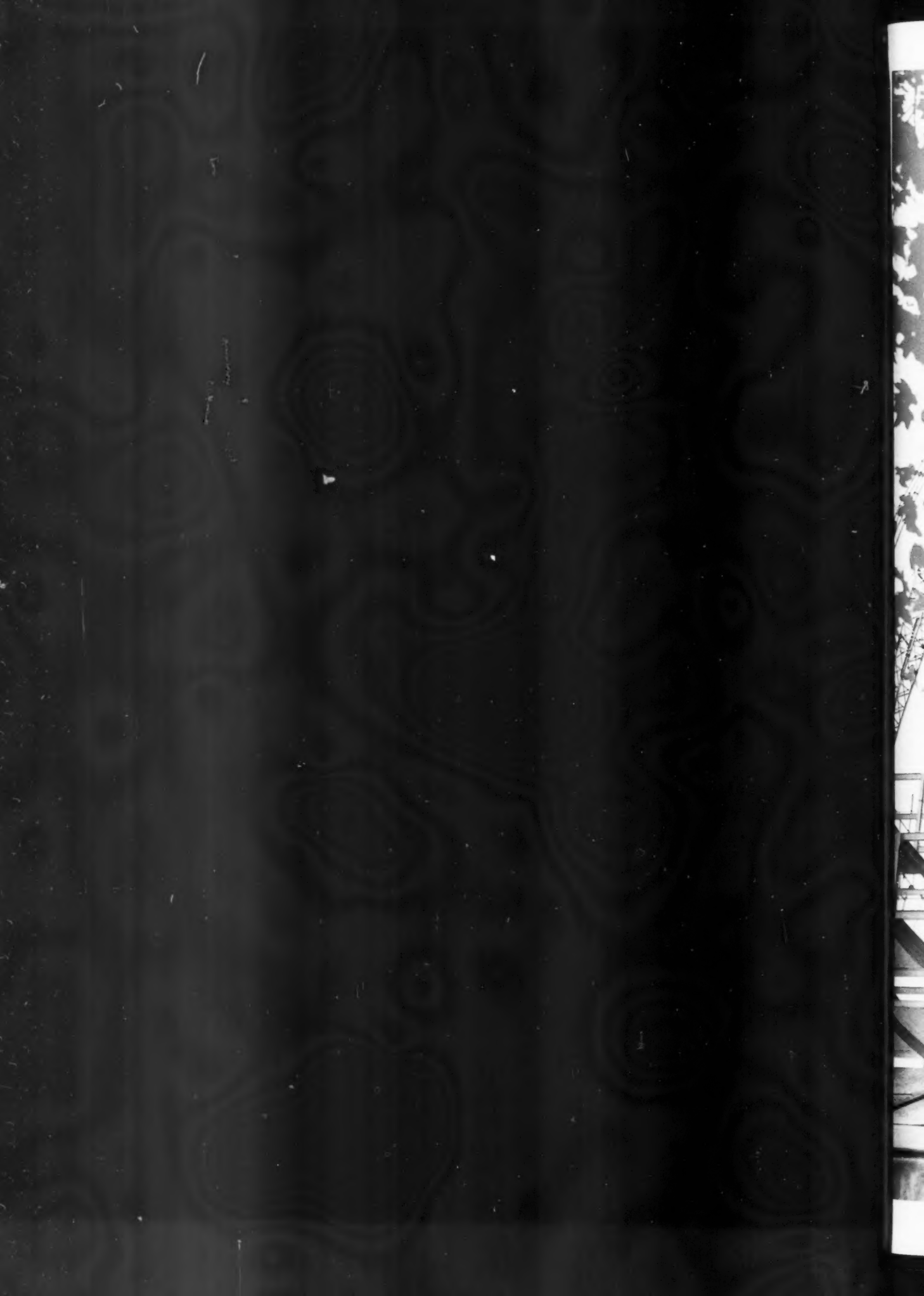


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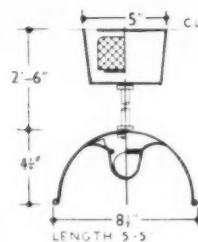
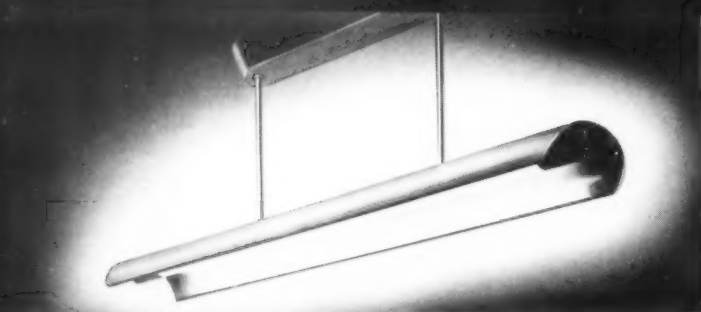
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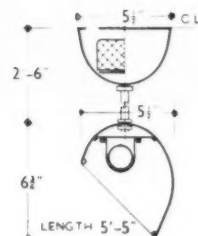
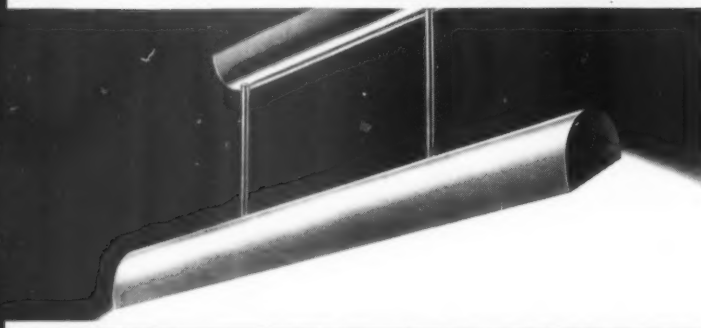
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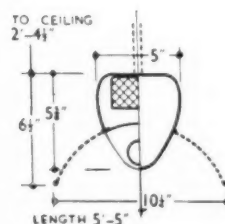
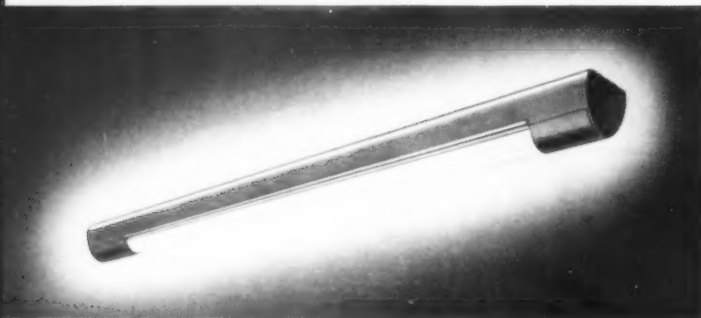
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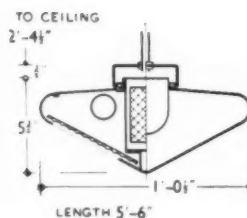
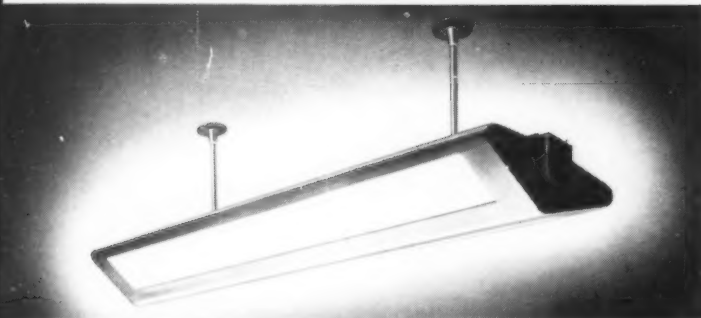


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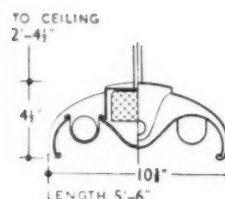
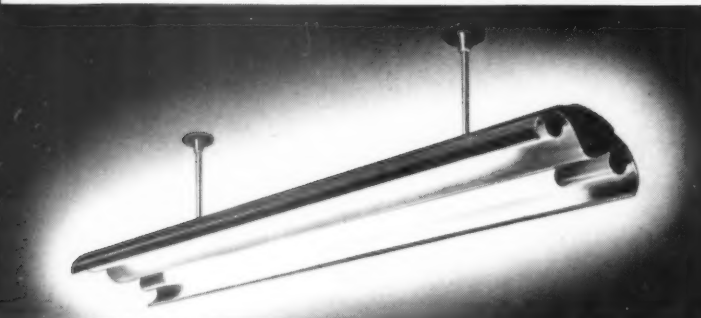
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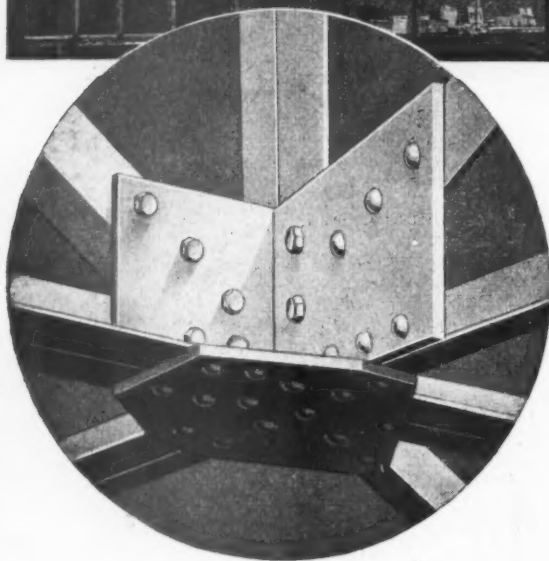
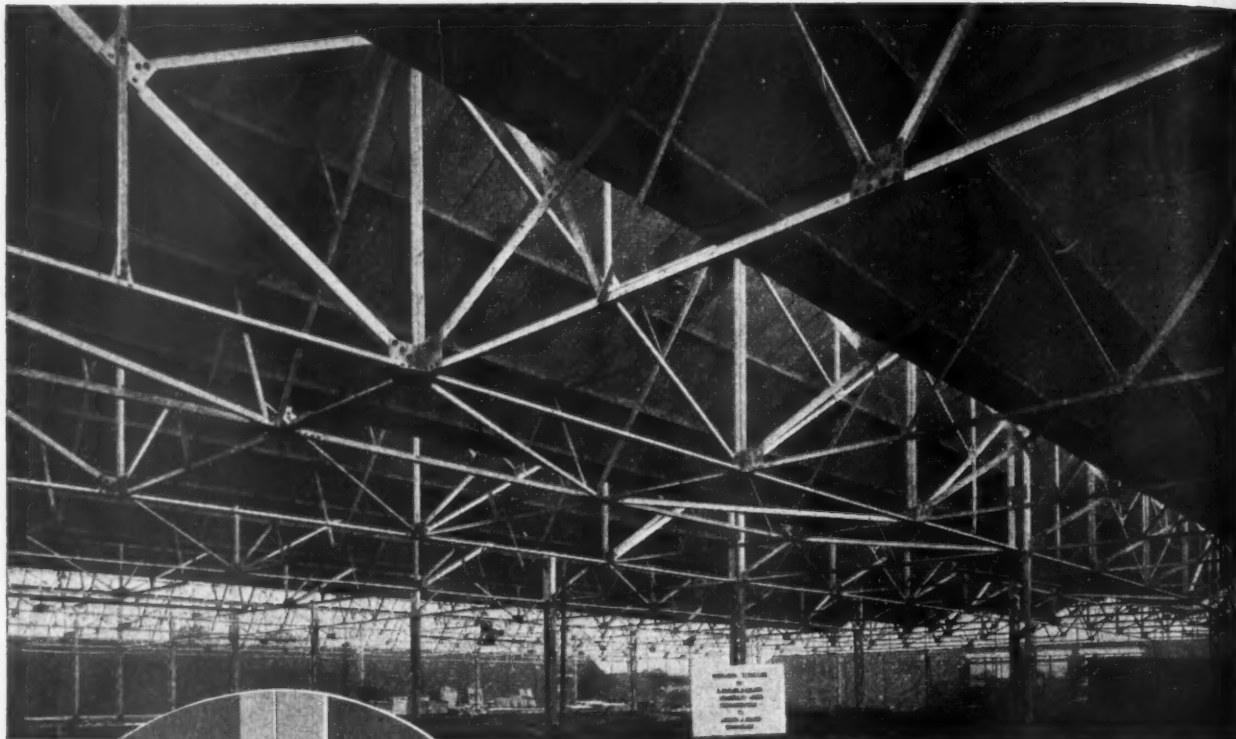
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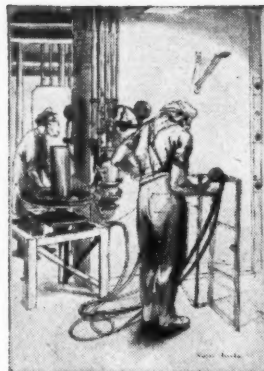
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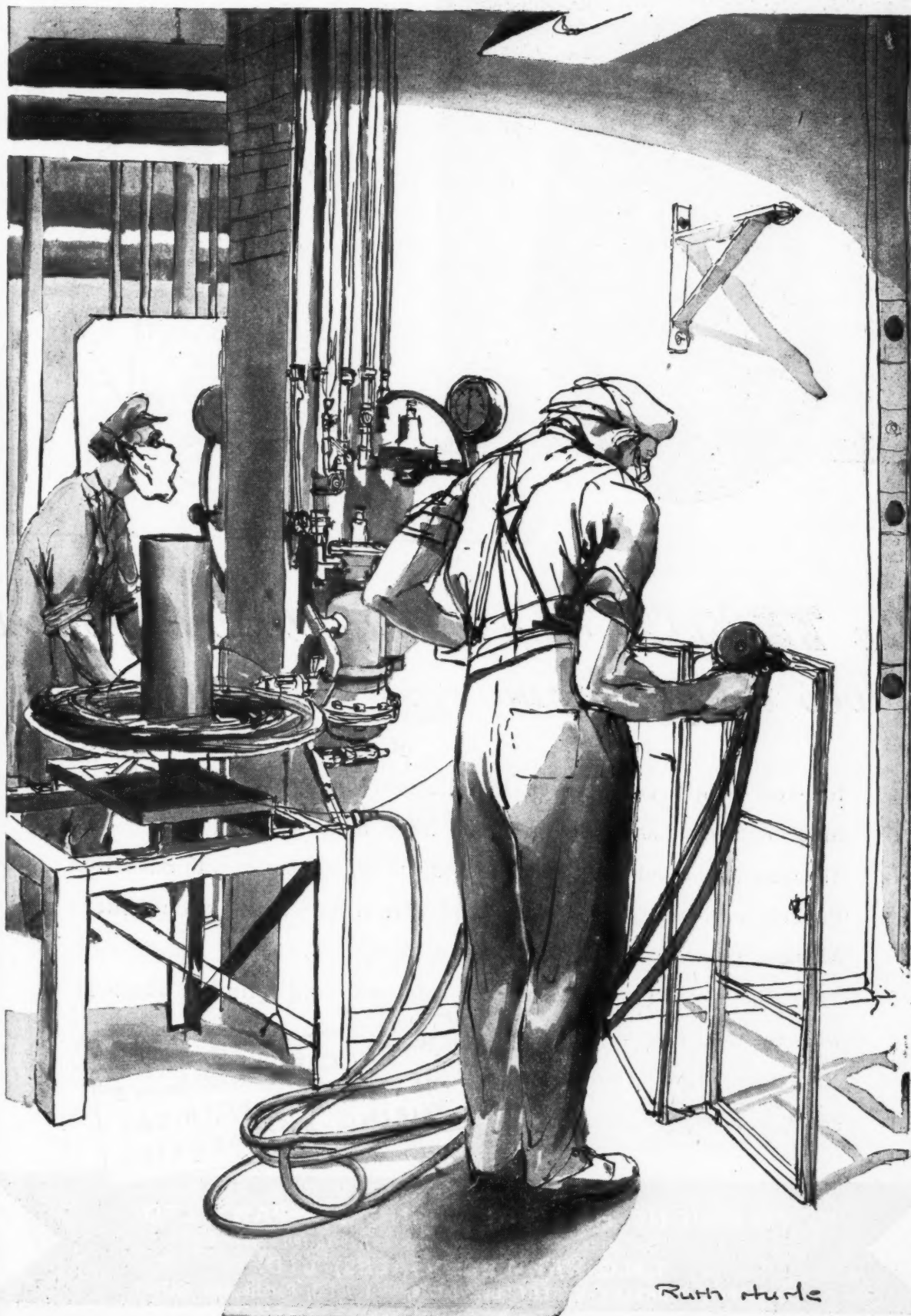
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the day the Architect, seeing the windows
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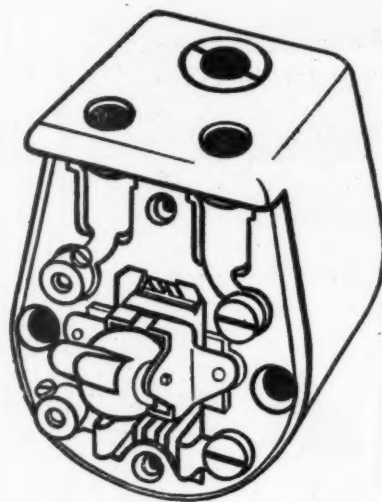
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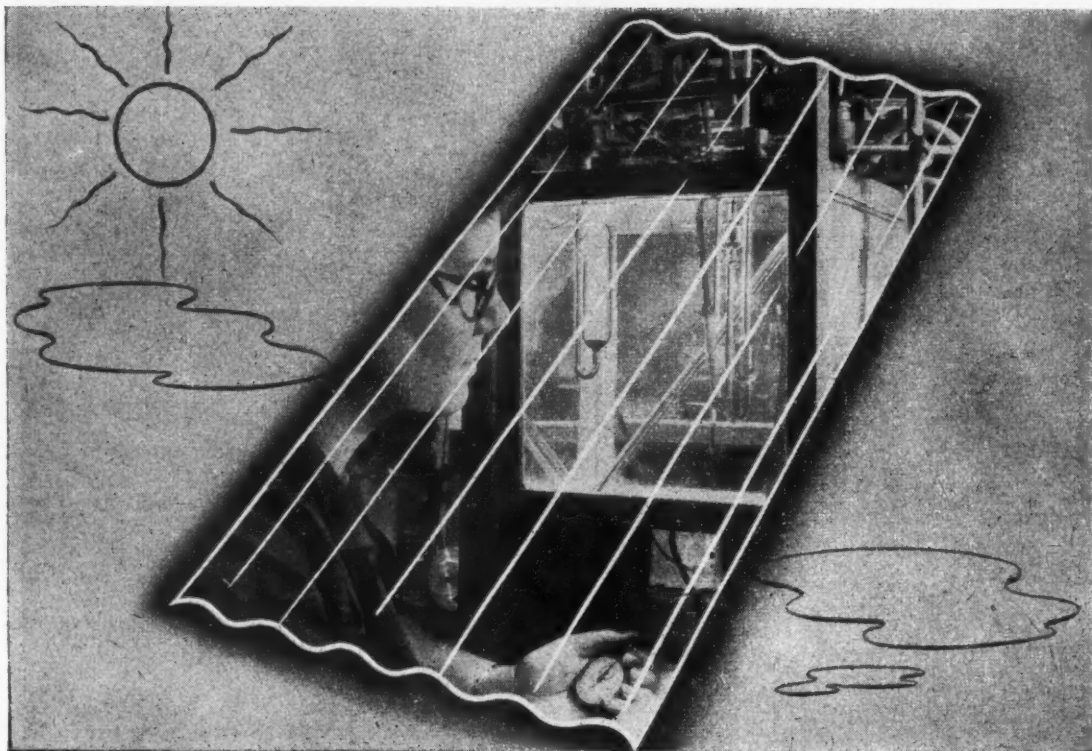
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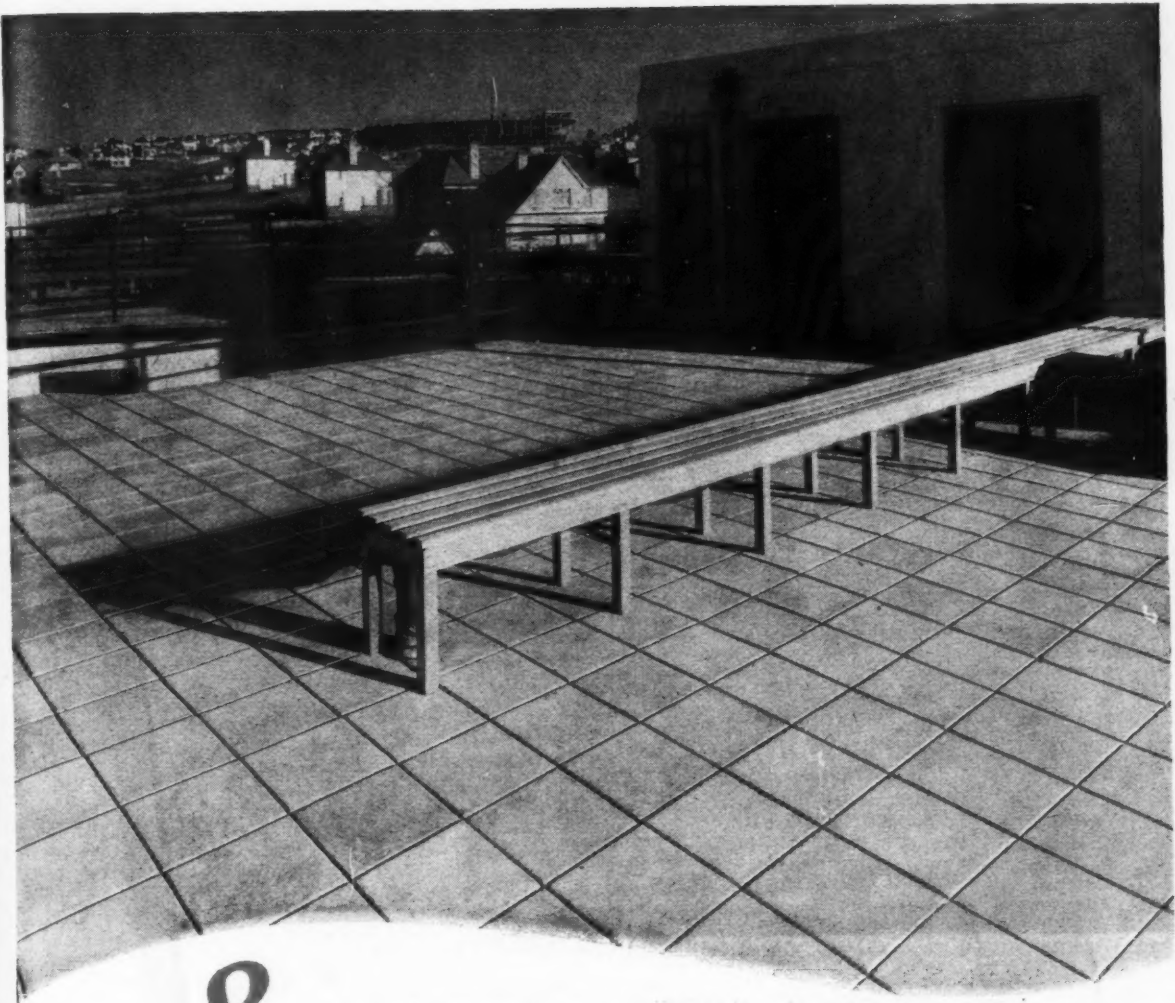
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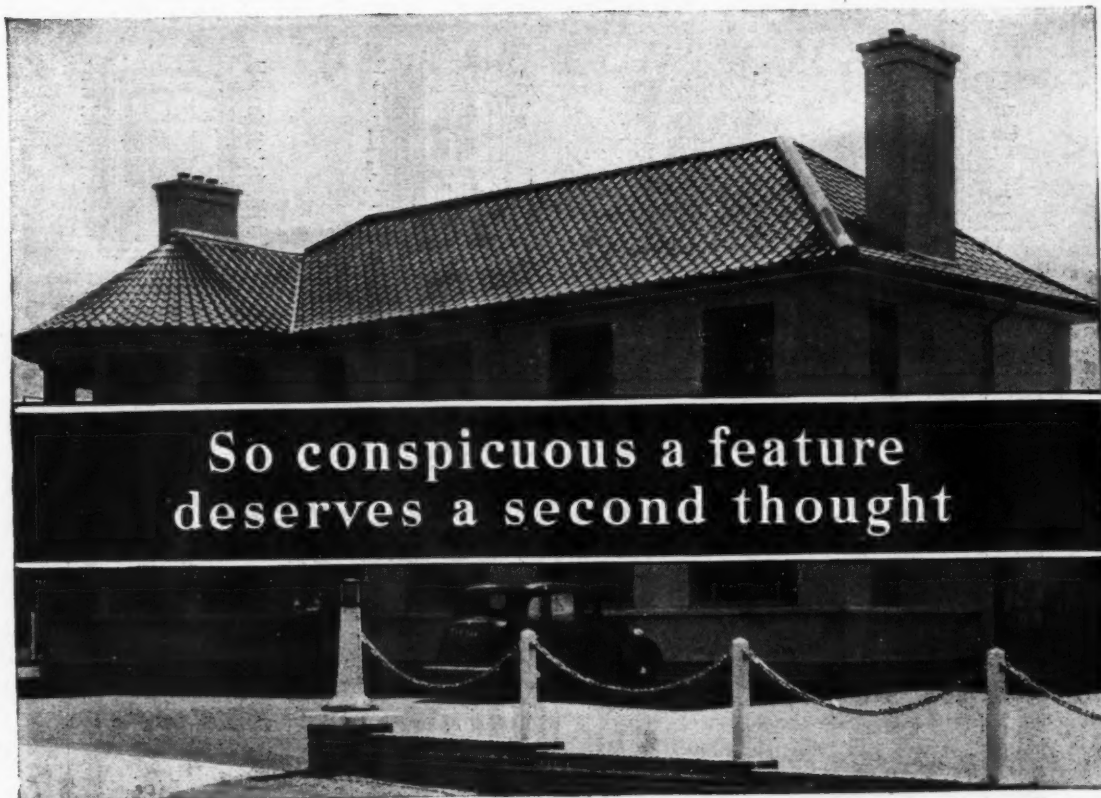
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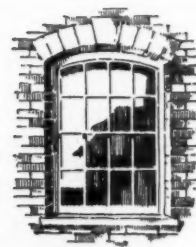
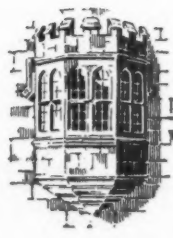
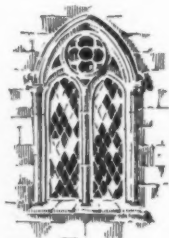
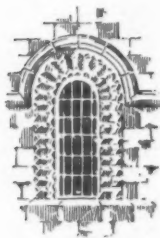
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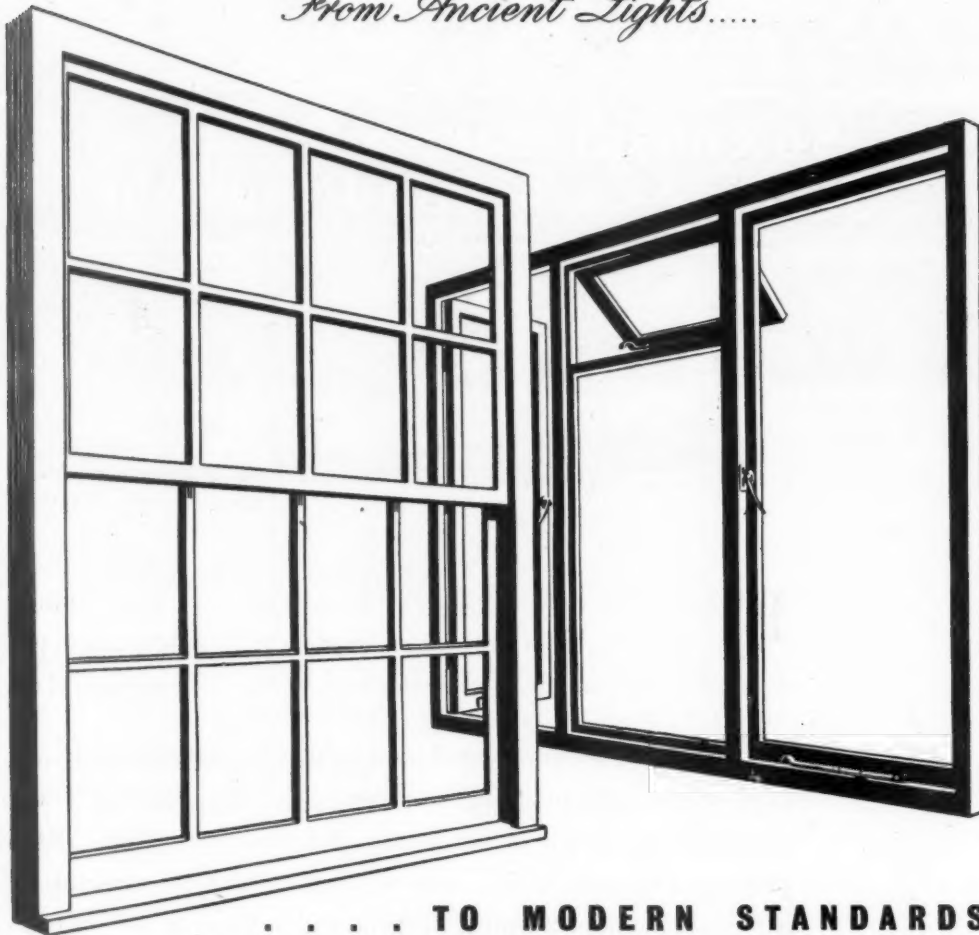
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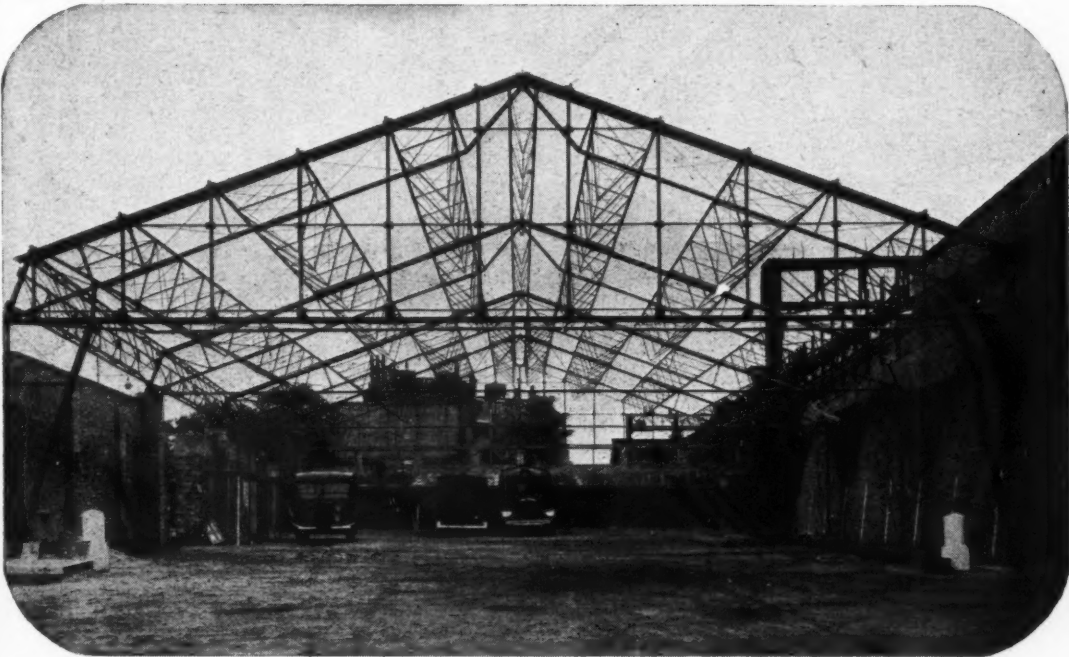
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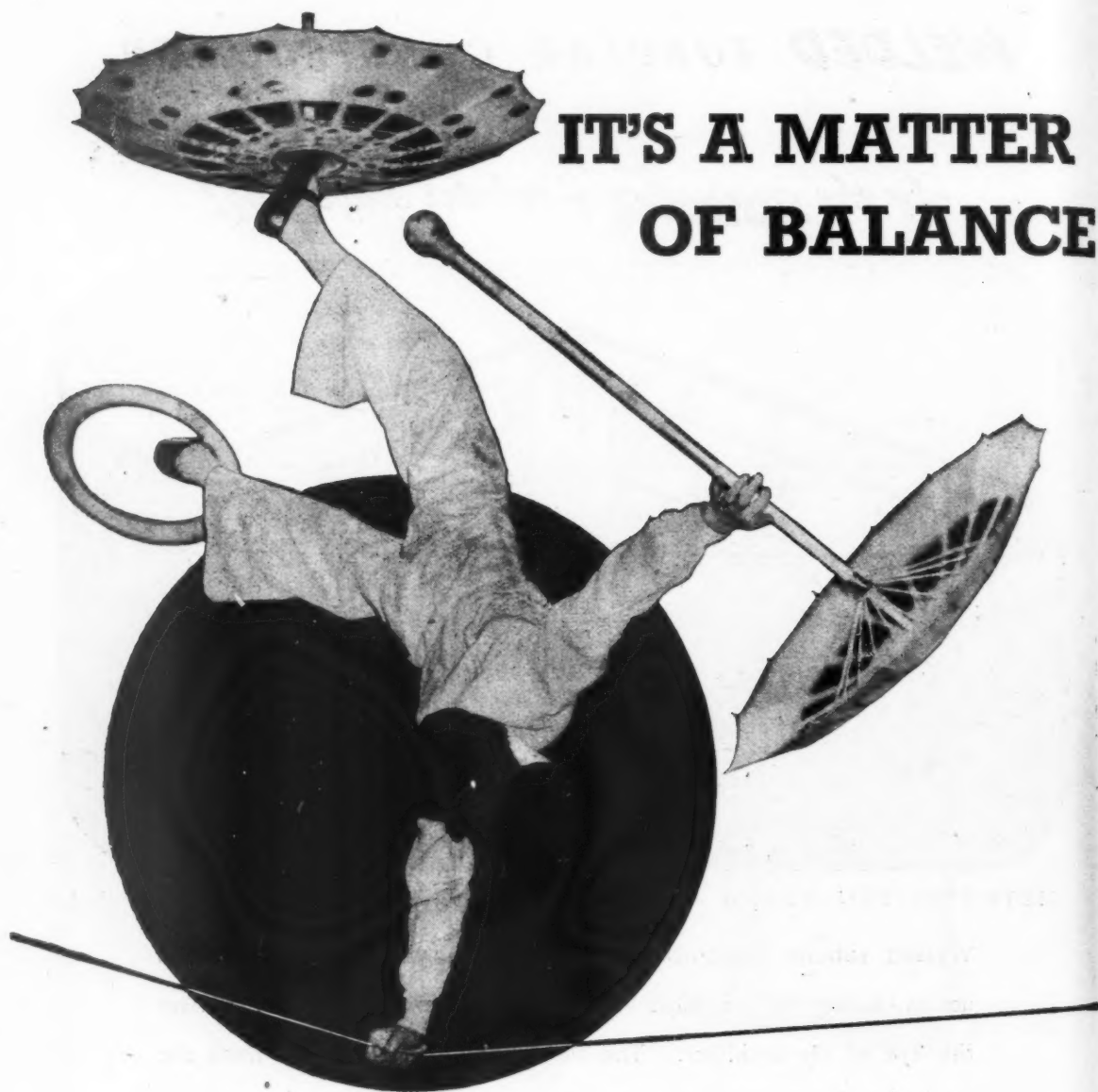
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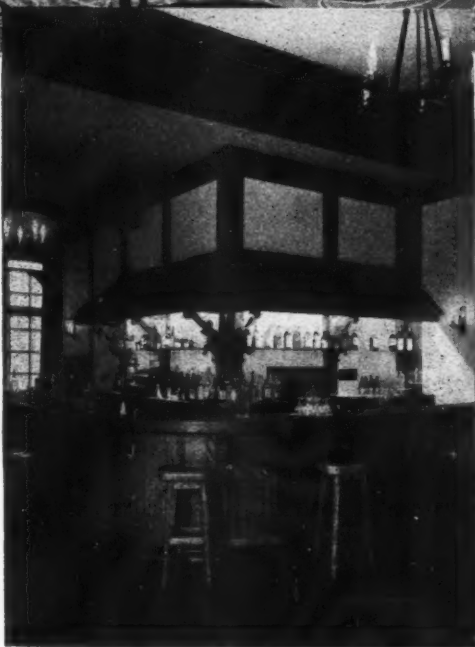
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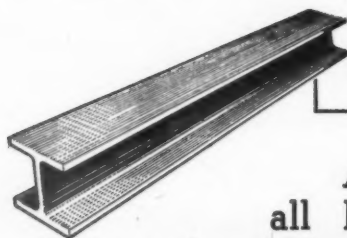
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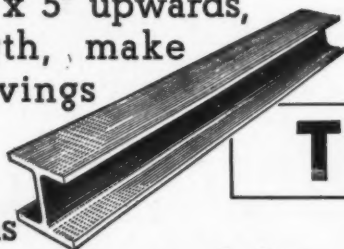
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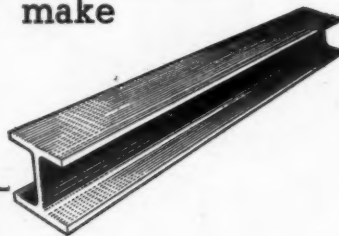
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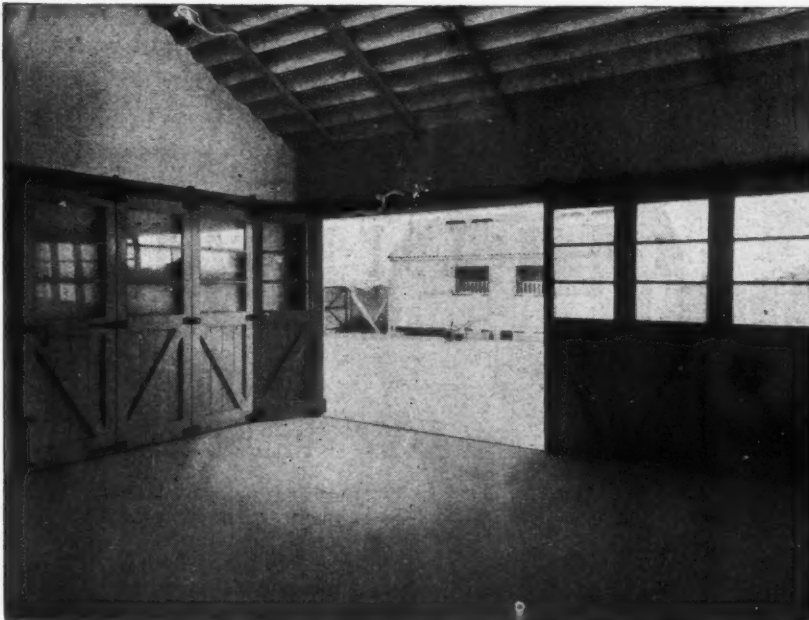
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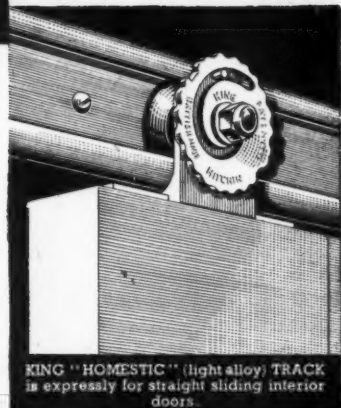
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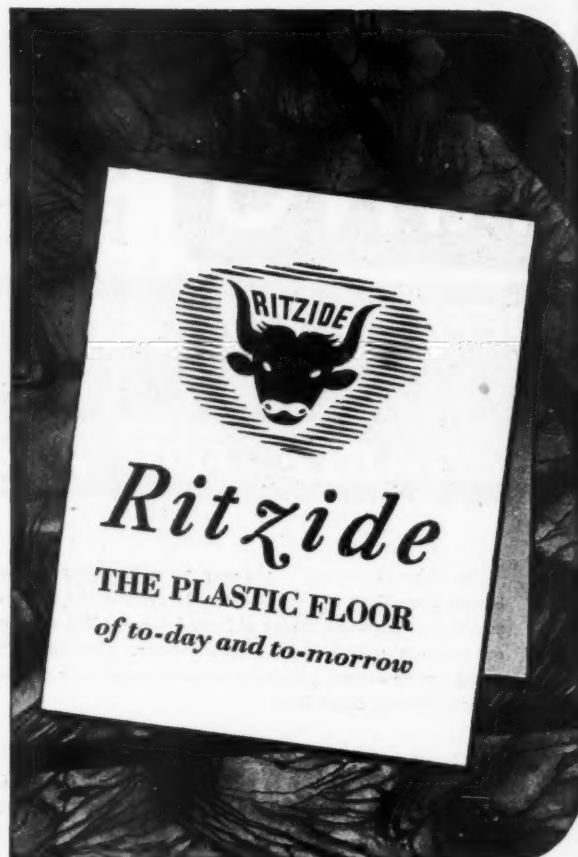
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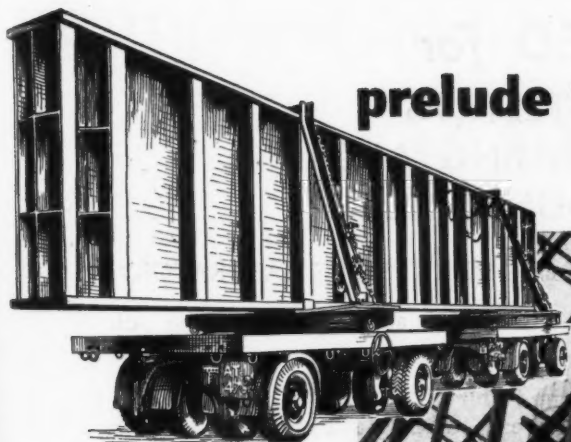
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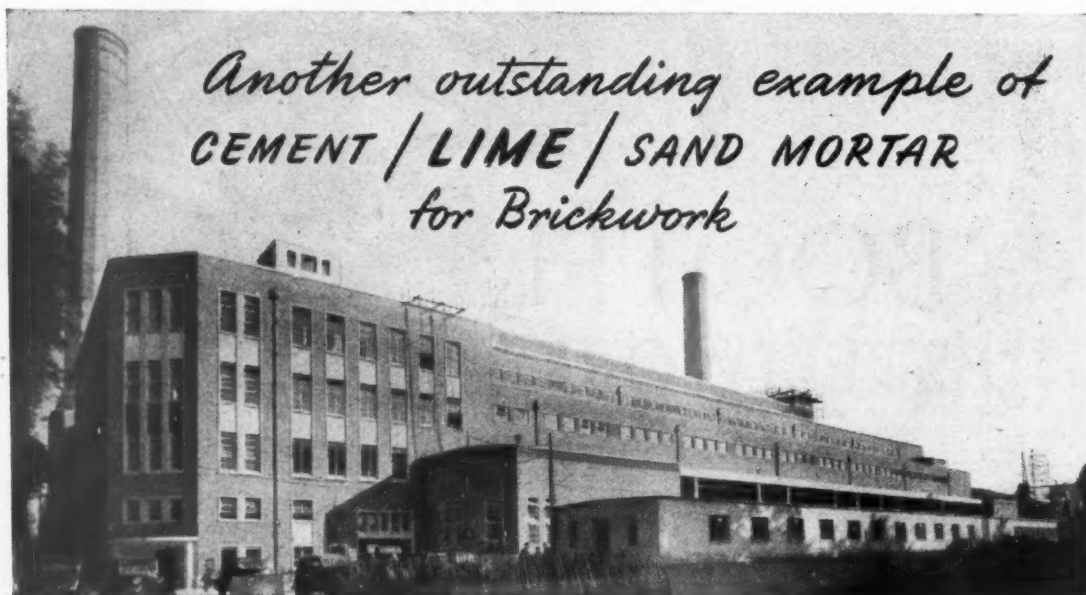
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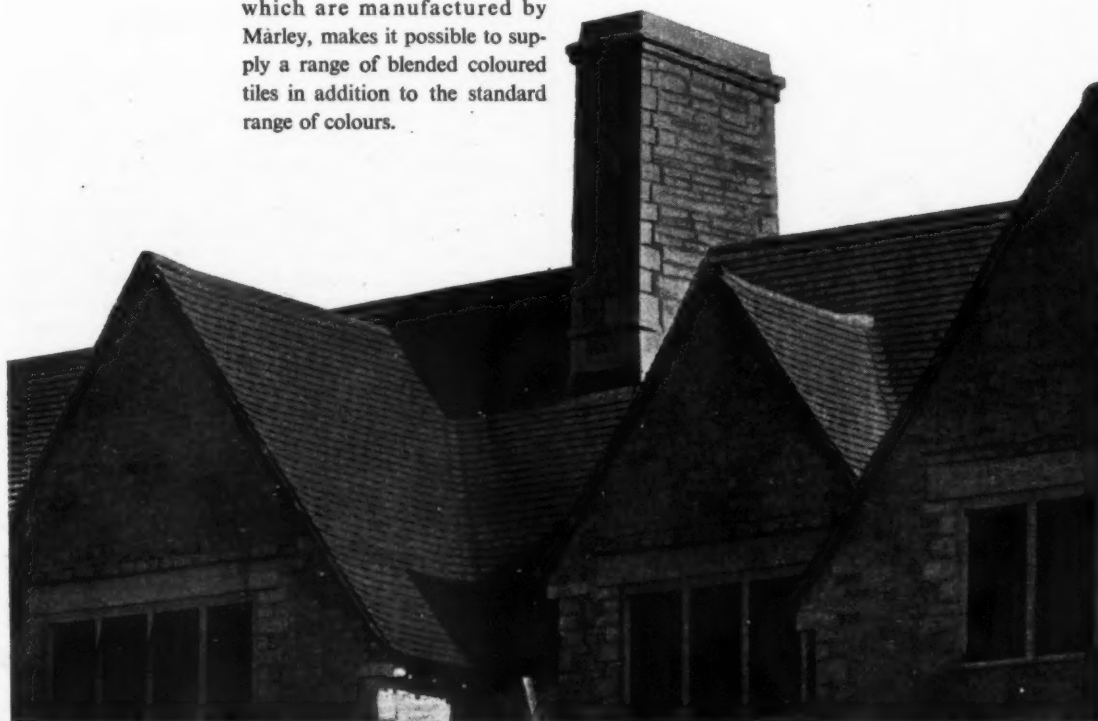
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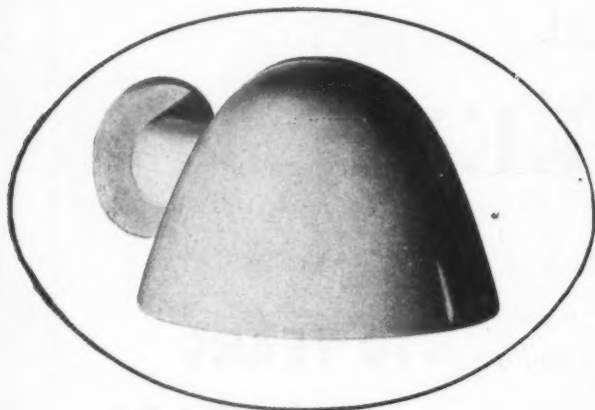
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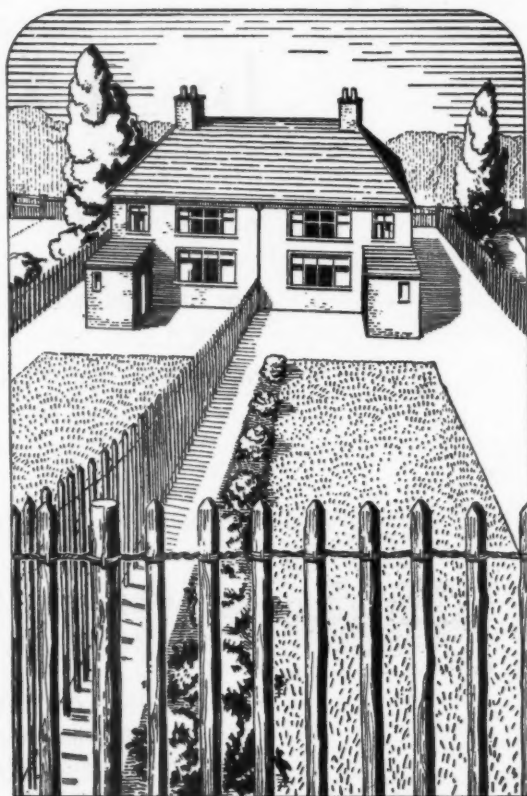
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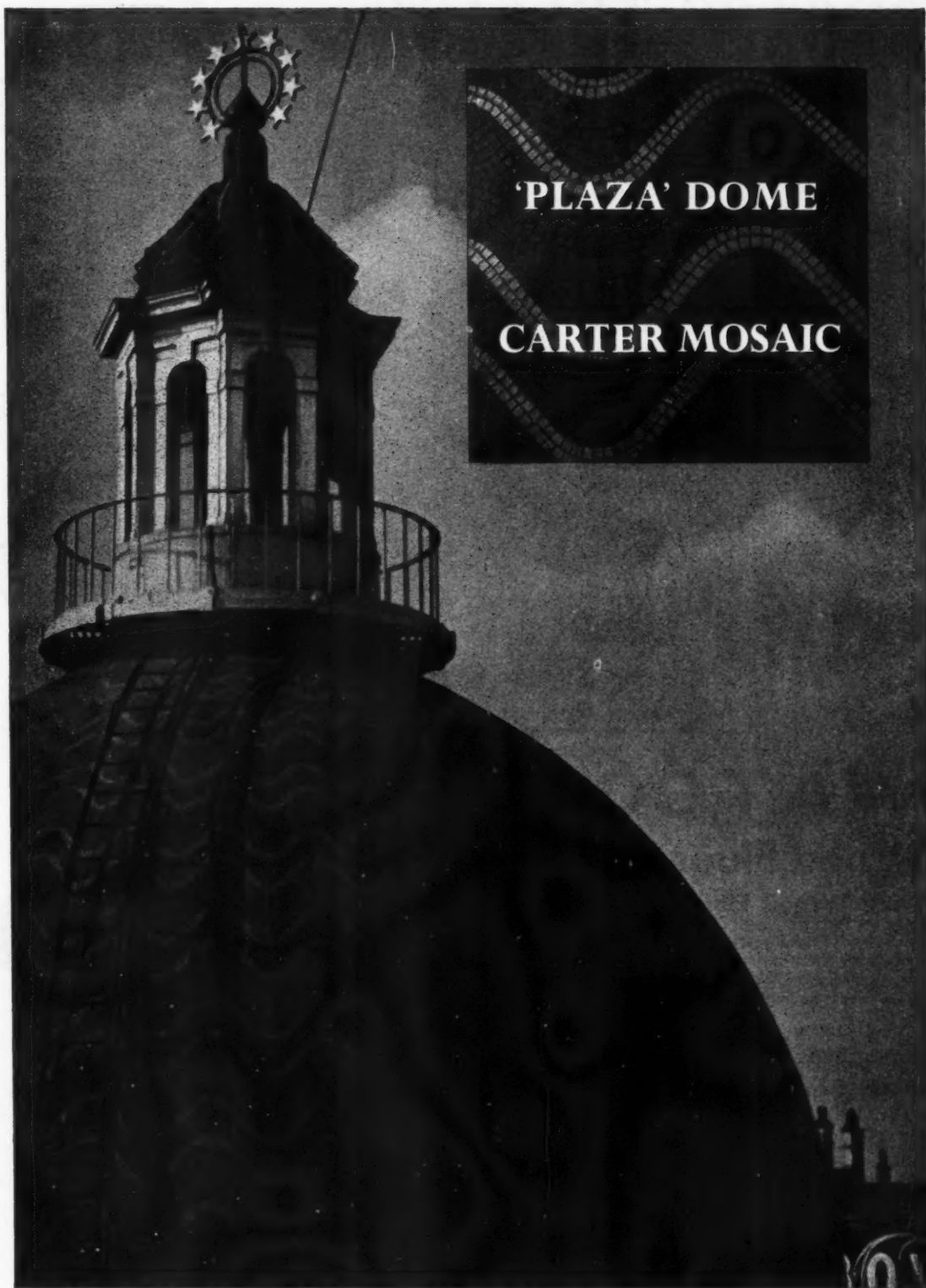
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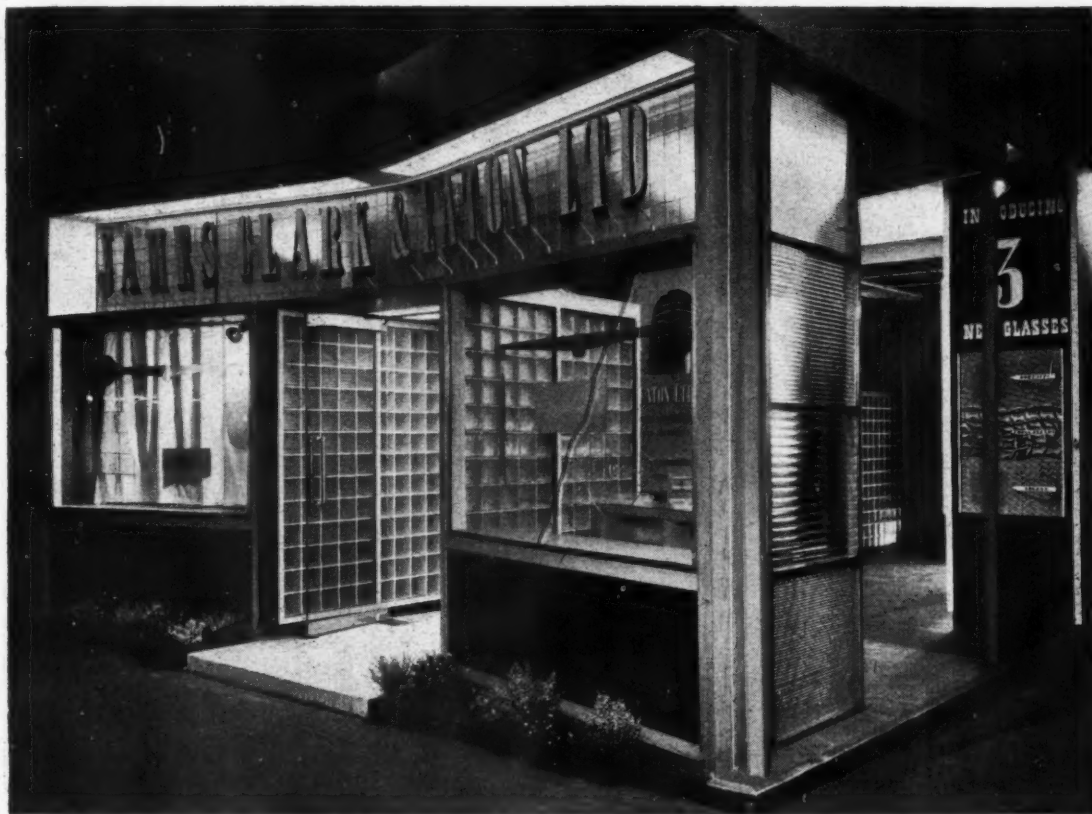
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CREATION WITH CRAFTSMANSHIP



Photograph by courtesy of the Dolcis Shoe Company.

A view in the new Dolores and Fashion Shoe Salon of Dolcis Shoe Company at Leicester Square, W.1. Staff Architect: Ellis E. Somake, Esq., F.R.I.B.A. Electrical work by Courtney, Pope (Electrical) Limited.

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THE ARCHITECTS' JOURNAL

No 2865 5 January 1950 VOL 111

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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous.

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SEE ABOVE

ASTRAGAL greets the New Year with a new titlepiece, specially drawn for the JOURNAL by Edward Bawden. Other drawings by this very distinguished artist will be found decorating other pages, and new ones—all based on architectural motifs—will appear at intervals. A head of Inigo Jones, drawn about twenty-five years ago from a medallion in the Victoria and Albert Museum, has long formed a JOURNAL colophon. Readers will still recognize him—and I hope will welcome him—in his new guise.

INTERNATIONAL GATHERING

The first architectural news of the New Year is that the Council of CIAM is to hold a meeting in London at the end of next week—the first time it has met in this country since it was formed. It is entirely a private occasion, since the function of this inner Council is to discuss long-term policy and the pro-

gramme of future congresses and then pass its decisions to the national groups through which CIAM operates. But the presence in London at the same time of Le Corbusier, Giedion (the secretary-general), van Eesteren and other distinguished characters (including possibly Helena Syrkus and Aalto) is of considerable interest.

Gropius, the president, is not able to come from America, I understand, and it is not yet certain who will be here from the Eastern European countries. Ernesto Rogers, who only returned to Italy last week after a most successful term teaching at the AA, is making the Council meeting the excuse for another visit to London. His two partners, with whom he practises in Milan, Peressutti and Belgiojoso, are to follow him later this year as temporary members of the AA staff.

Other news of architectural travellers is that Giedion, immediately after the Council, sails for America where he is to teach for several months at MIT. This is where Aalto teaches already—when he is not building new towns in his native Finland.

RESTRICTION REQUIRED

Somewhere in the Home Counties there is an acre of land neatly fenced off from gorse and bracken and laid out as a garden. Back in 1947, when the owner's plans were first approved, he hoped soon to look out on this scene from his living room windows. But all he can envisage in the immediate future is an occasional picnic on the spot where his house should stand. Lack of children and ailments holds him firmly in the mud of the local points pool for private building licences.

At the same time enterprising agents suggest that because of the magic of his "export business" they could obtain licences for a new factory or more office space. Of course, if he eventually decided that he had no need for these

buildings, they point out, then the factory could be sold profitably and the office let well above the 8s. 6d. per "carpet space" foot super that the Government will pay.

I am reluctant to suggest that we want more regulations rather than less. But surely this situation points to the need for some machinery to ensure that licences are used for the purpose for which they were granted.

PUBS AGAIN

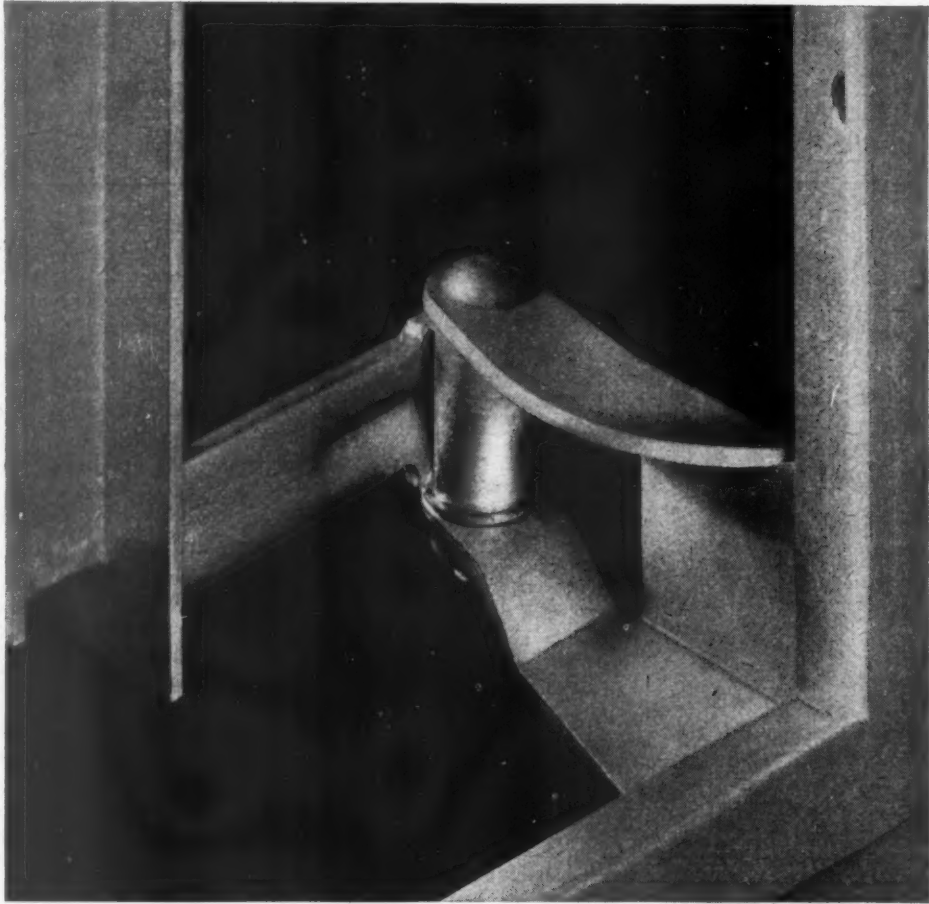
The *Review* competition is specially concerned with the creation of the right atmosphere inside the pub, not with planning it. Pub planning, though a separate subject, is nevertheless one about which there is plenty to be said, and in his recent book,* F. W. B. Yorke (architect father of an architect son) says it with all the authority of someone who has designed and built many pubs himself—mostly in and around Birmingham.

If you want to know about forms of application for a justice's license, the temperature at which beer should be stored, the space required for a snack counter, where to provide storage for empties and the best size of coffee tables for the lounge, this is where to go.

BROADSHEETS FOR PLANNERS

I have been looking through the broadsheets issued by the Department of Health for Scotland as instructions to planning officers with regard to the preparation of the development plan. It appears that some 20 maps of various kinds will have to be prepared during what is left of the statutory three years, and the broadsheets lay down the method by which information is to be presented on each map. One point I noticed was that the colours required for the various indications were prepared by the British Colour Council for

* The Planning and Equipment of Public Houses, by F. W. B. Yorke, Architectural Press, price 21s.



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A mural painting of the Nativity by children. (See Astragal's note below).

Town & Country Planning, and have been adopted by the MOTCP.

It will be immensely valuable to have all the maps of the planning authority uniformly presented, although I think that insistence upon a specific Uno pen is going a little too far. Unfortunately, the broadsheets, though admirably clear and easily comprehensible, will do nothing to guarantee that the planning will be adequate for the next fifty years or so. That, alas, cannot be achieved either by broadsheets or handbooks, but only by the encouragement of bold and imaginative planning and the ruthless suppression of timid and stereotyped proposals.

PUBLIC INCONVENIENCE

A fortnight ago I suggested that the next amenity to be provided by London Transport might be loud-speakers so that the guard could tell us the next station and give us time to get to the door. I now withdraw the suggestion, for I hear of an American municipality which, in spite of local protests, is to supply all its public transport with "soothing music" interspersed with advertising plugs, a fearsome prospect with the sole advantage that nobody is likely to try it over here.

I remember a few pre-war London taxis which had postcard size illuminated panels flicking over every 20 seconds or so, another menace which seems to have disappeared. Which also reminds me of my only interesting taxi advertisement, a hand-written card which said: "This cab for sale—£12." It was a pre-1914 two-cylinder job and I was severely tempted but survived because it died on me about 200 yards short of Kings Cross and I nearly missed my train.

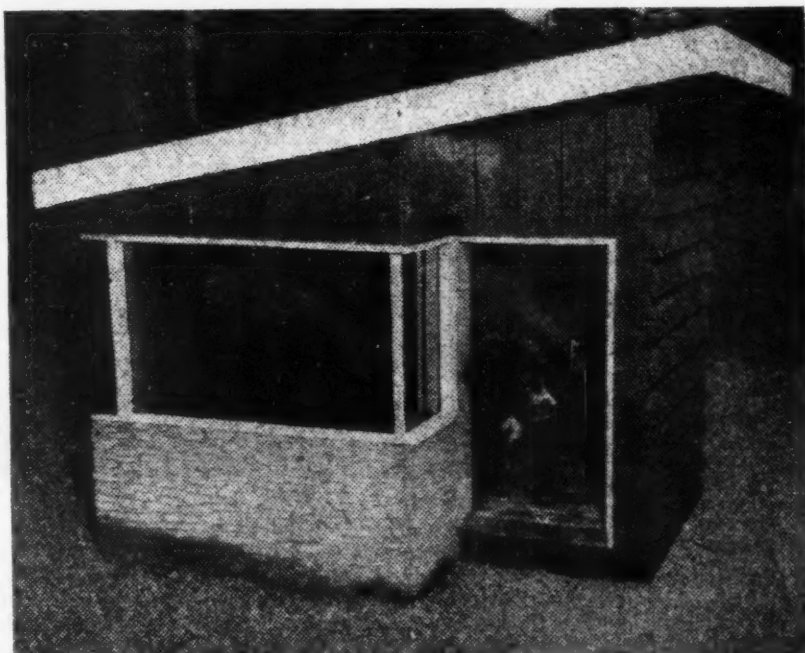
BAY REGION PROGRESS

Architecture in the USA is going to the dogs. A correspondent there has sent me the illustration reproduced below, which shows conclusively that what Lewis Mumford has christened the Bay Region Style has been widely adopted. This new venture into canine living space designed by one Reginald Odegard, of Burbank, California, has, as you will observe, all the necessary elements: "shed" roof, redwood timber siding and a "picture" window of shatter-proof glass. The stone wall under the window is of small flagstone chips, cemented and laid individually. If Comrade Lysenko's views of the inheritance of acquired characteristics are correct, we should get a unique race of

dog accustomed to extended views and solar heat in the homes. It will also be interesting to see if this new environment is equally acceptable to the bloodhound and the cocker, the latter being the proud owner in my picture. I am sorry I cannot acknowledge the architecturally-minded newspaper, but the name had been removed from my cutting.

ART IN THE MIDDLE WEST

My illustration above is of a mural painting designed and carried out for their school hall by the pupils of Frogwell Primary County School at Chippenham, in rural Wiltshire, on the edge of what Richard Jeffries called "The Dooks Country." The school itself is a most



An American's idea of a dog's life. (See Astragal's note on this page).



Guest Editors

It is announced elsewhere in this issue that the JOURNAL plans each year to invite a firm of architects to join its editorial board as a guest editor for one year, with the role of investigating and discussing some topic of importance to the practising architect of which the firm has special experience. The guest editor for 1950 will be the firm of Arcon, the four senior partners in which are

photographed above in their office. On the right is Raglan Squire, who will represent the firm on the JOURNAL's editorial board. Seated are Rodney Thomas and Edric Neel, and standing behind them is A. M. Gear. The subject Arcon will deal with in a series of articles beginning shortly, is the organization of the architect's office in the changed post-war circumstances.

The Editors

SEE PAGE ONE

uninspiring affair of temporary hutting; not, one would have thought, the environment calculated to stimulate such a vigorous piece of design and painting. The class concerned were being practised upon by two students of the neighbouring Bath Academy of Art, who do three weeks' practical teaching as part of their training. The painting of "The Adoration," which was, no doubt, suggested by the approach of Christmas, was done directly on the wall by the class in three weeks.

Surely this kind of thing is much better than some of the anæmic whimsies regarded as appropriate to the child mind. Anyhow Mr. Herbert Read will, I feel sure, approve. Great credit is due to the headmaster, Mr. Cyril Rice, for his support and approval of the scheme.

Incidentally, it is good news that Clifford Ellis, the principal of the Bath Academy of Art, is to help Herts CC with the decoration and adornment of some of their schools. We can do with much more of this, vigorous unself-consciousness. After all, on this basis it can all be re-painted six months' later.

GIFT BOOKS RETURN

If any of you had twelve guineas' worth of book tokens in your Christmas stocking you can spend them on the new Lund Humphries volume on the stained glass of Canterbury Cathedral. It sounds a lot of money, but it is a wonderful production and a most encouraging sign that perhaps those monumental architectural books—designed to lie about on library tables—which we thought had disappeared for ever, are coming back.

Their return would be welcome because there are certain subjects, especially architectural ones, which are only worth dealing with in a monumental way with illustrations of the highest quality. Stained glass is notoriously difficult to depict, but the illustrations to the Canterbury volume, in colour collotype, are remarkably good.

Another monumental work well on the way towards publication is the definitive record of the work of Sir Edwin Lutyens, to be produced by Country Life, a firm responsible in the past—along with Batsford and the Architectural Press—for many grand architectural volumes. This is to be a four-volume work. The first three volumes, which are being edited by A. S. G. Butler, will illustrate Lutyens's buildings, and the fourth will be a life of Lutyens by Christopher Hussey.

ASTRAGAL

THE amount of information the modern architect is supposed to have at his disposal is far greater than one man can master. Hence the growing tendency towards specialization, whether in the form of offices that concentrate on one kind of building or of offices within which each partner or assistant has one subject on which he is the acknowledged expert. Hence the greater use of specialist consultants and the greater readiness on the part of architects to take technical advice from specialist firms in the building trade.

The time for jacks-of-all-trades has passed. And this applies to editors as well as architects. In recent years, the technical Press has closely followed the profession in preferring to work through a team of specialists. Since the war the JOURNAL has been conducted by an editorial board and advised by a group of highly qualified technical specialists who have made its technical section an authoritative guide to all developments with which architects ought to be familiar.

Up till now, nevertheless, the JOURNAL's editors and advisers have preserved the old tradition of anonymity. The time now seems ripe to begin to discard it, to follow specialization to its logical conclusion and acknowledge that specialist contributions require a personal signature to give them full authority. The JOURNAL is therefore celebrating the beginning of a new half-century (which event, in spite of the protests of the mathematical professors, in the eyes of any decent person takes place now) by printing on its first page the name of its editors and technical advisers and of the leading members of its staff. That at least is the principle the JOURNAL establishes in this issue. Unfortunately for the moment the practice cannot be quite so good as the theory. Because they are civil servants or for other good reasons, certain of our technical advisers must still remain anonymous, and as a result, to preserve the team spirit, the others have decided to stay so too. Nevertheless, the reader can take it that this anonymity conceals the names of leading authorities on their subject. It is proposed, in future, to make even wider use of these experts, and they have undertaken to contribute facts and comments to other parts of the JOURNAL than the technical section. These will be signed, in the absence of a name, by a number, which will be found against the title of each editor on the first page and against any contribution for which he is personally responsible. In the Information Centre such signatures are not required as the expert responsible can be deduced from the heading under which each entry is printed.

NEW YEAR : NEW LOOK

Accompanying these changes, readers will find, in this and succeeding issues, various changes in lay-out and typography. The immediate post-war stringency of paper rationing has

now been relaxed, and it is no longer necessary to pack news, views and illustrations into the smallest possible space. Pages have been added to the JOURNAL and the sequence of subjects and their presentation have been redesigned in the interest of logic and lucidity.

Henceforward the JOURNAL will begin with those sections that serve to convey opinions and discuss policy: Astragal's column, leading articles and readers' letters. Next will come news—in text or pictures—then the illustration of current buildings, which it is planned in the case of selected buildings, to illustrate in considerably more technical detail with the help of the technical experts; and finally the technical section. Readers will also find the pages decorated by a number of new titles and tail pieces specially drawn for the JOURNAL of 1950 by Mr. Edward Bawden.

ARCON JOINS THE BOARD

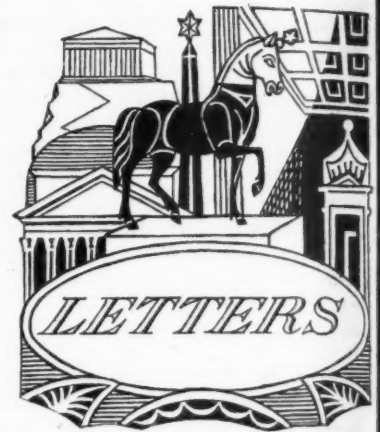
There is one further new departure to mark the new half-century. Readers will notice on the first page a new character listed among the editors: a Guest Editor for 1950. It is one function of the technical press to act as a forum for the discussion of urgent and controversial questions; to set a lead where it can and, failing that, to do its best to put the pros and cons of every issue before its readers for their guidance.

The JOURNAL plans each year to invite a well-known firm of architects, specially qualified for its knowledge and experience of one such urgent topic, to discuss it during that year. The firm is invited to become, for a year, a member of the editorial board and will have at its disposal the pages of the JOURNAL as a platform from which to talk to its fellow architects on the subject chosen.

The subject for 1950 will be how to make the practice of architecture pay its way as a business; that is to say, how the private architectural office can be run, and how the architect and his partners can organize their practice, in the light of the revolution that has taken place inside and outside the profession since the war. This is a problem which worries a great many architects faced with disproportionate overheads and made unpleasantly aware that changes are needed in the old system.

The JOURNAL's guest editor for 1950 is the firm of Arcon, a firm which is already well known as a pioneer in practice methods. Arcon has been organized to cope with exactly the problems referred to above, and Mr. Raglan Squire, a partner whose name is already well known to every architect, has been chosen by the firm to represent it on the JOURNAL's editorial board. He will give the readers the benefits of Arcon's experience over the whole field of office organization, speaking—for once non-figuratively—from the business end.

It is, therefore, appropriate that the JOURNAL should welcome Mr. Squire to its pages at the same time as it wishes its readers a happy New Year.



H. F. Brand

L. C. Penwill

Michael Lyell, A.R.I.B.A.

Phipps Turnbull, A.R.I.B.A.

Brian Webb

An Unfair Restriction

SIR.—An advertisement for a public appointment in a recent issue of the JOURNAL contained a restriction which might just as well have been worded thus: "Only persons who have passed stage one of the admission test to the departmental chiefs trade union need apply."

This careful paraphrase of the restriction gives a clear picture of what is happening in the town in question. It is to be hoped that the town clerk has signed the draft advertisement unaware that, by virtue of its text, a considerable number of people are to be barred from even competing for public employment in the architectural department concerned. This policy offers a completely new, and most obnoxious conception of the powers of a public official.

What explanation is to be given to any ratepayer who, for instance, having a son not past the prescribed milestone on the road to full membership of the city architect's union, and yet hopeful of a job in the public offices, hears that it is useless for his lad to put pen to paper in the matter. It is only to be hoped that, Northerners being at once resentful of injustice and forceful of expression, no such situation will arise.

H. F. BRAND.

Cheshire.

Amateur Electricians

SIR.—I was rather dismayed to notice ASTRAGAL'S suggestion that a man building his own house should employ professional plumbers and plasterers, but that he could carry out the electrical work himself. Surely there are already sufficient fatalities and accidents in this country each year because the average man "handy about the house" cannot do electrical installation work properly? Least of all would one expect a responsible journal such as yours to encourage such experiments. Even if no direct damage is done,

the "disappearing" to his tricity to the conforments

London

SIR.—express Russell American Francis Lloyd client, conver take m feature It is sucked façade mediat and a imagin this ef visible glass angle, shop It w could those pron of the that t the fi forms Ther ments courag in this both of vic hardy

London

SIR.—wand opene though The house dam simila Has twen Parth Kent

Kent

SIR.—comm shop on I rather eyed other misle This reason its lo as a with tectur San from on th adver Wrig enga The Unio

the "builder" will probably suffer some disappointment when he finds that for some (to him) obscure reason, the local Electricity Board will not connect his wiring to the supply mains because it does not conform to the generally accepted requirements of a good installation.

L. C. PENWILL,
Director and Secretary, The
Electrical Contractors' Association (Incorp.).

London

Frank's Folly

SIR.—I must protest against the opinions expressed by your correspondent, A. L. N. Russell. I have recently returned from America, where I spent several days in San Francisco. While there, I visited Frank Lloyd Wright's latest shop and met the client, with whom I had a most interesting conversation, and who was kind enough to take me round and discuss the many unusual features of the design.

It is evident that the effect of being sucked in through the small hole in the façade, which definitely *does* create an immediate curiosity, is successfully achieved, and acts as a dramatic prelude to the imaginative interior treatment. Much of this effect would be lost if the interior were visible from the street, through the normal glass frontage. Purely from a salesmanship angle, the client is entirely satisfied, and the shop is doing excellent business.

It was unfortunate that interior views could not be published at the same time as those of the exterior, as one cannot really pronounce judgment without a knowledge of the scheme as a whole, and of the fact that the treatment of the entrance is merely the first link in the spiral motif, which forms the basis of the interior design.

Therefore, let us welcome such experiments, and particularly clients who have the courage to undertake them; and when, as in this case, the result is a complete success, both from the client's and the public's point of view, I feel that a "cock-eyed idea" is hardly a fair or considered description.

MICHAEL LYELL.

London.

SIR.—Perhaps some of your readers can stand it once [December 8], but when I opened my JOURNAL for December 22 I thought it was going a little too far.

The entrances to Sullivan's Glessner house, the Reformed Church in Amsterdam South, and the Morris shop are similar—so what?

Has anyone noticed the similarity between the National Gallery and the Parthenon—they've both got Pediments?

BRIAN WEBB

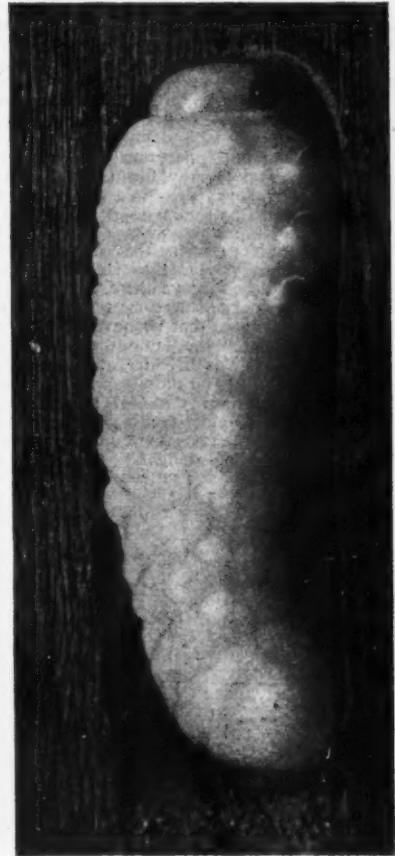
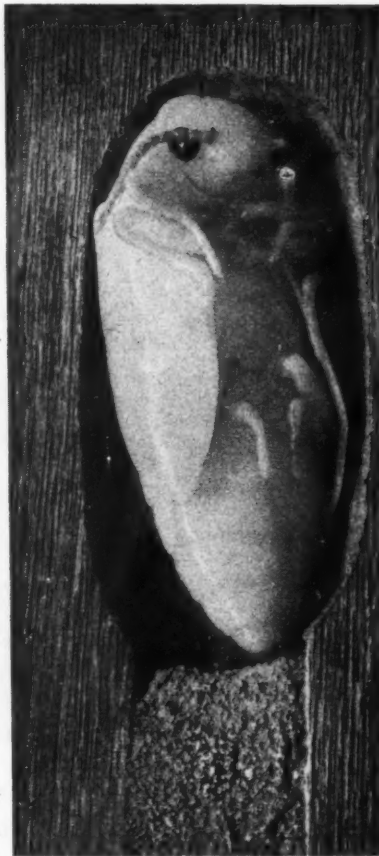
Kent.

SIR.—I cannot help thinking that in his comment on Frank Lloyd Wright's recent shop in San Francisco, which you published on December 22, Mr. Russell has been rather hasty in implying that this is "a cock-eyed idea," and that his letter may mislead others even more than you appear to have misled him.

This building cannot be understood or reasonably criticised without knowledge of its location and environment. Its interest as a design lies in the psychology in dealing with its environment rather than in the architectural treatment of its exterior. I was in San Francisco this summer and judging from the numerous comments of all kinds on the building I am sure the design has advertised this shop as much as Mr. Wright's clients bargained for when they engaged him.

The site lies within a stone's throw of Union Square—the only unbuilt-on block in

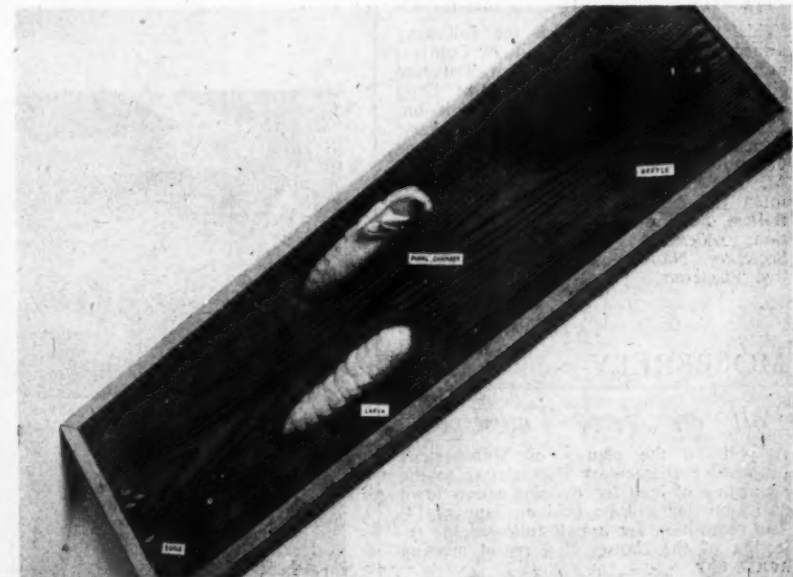
INSECT METAMORPHOSIS



The creatures on this page are shown in various stages of development from egg to imago. The beady-eyed one at rest above, is the pupa of a Death Watch Beetle.

Alongside is the larva of the same beetle at its most destructive age. Below are the four stages of the life cycle of the Longhorn beetle, a recent source of worry to foresters.

(See the JOURNAL for March 3, 1949).



the vicinity—around which are the best shops and highest land values in downtown San Francisco. The street on to which this shop faces is, however, little more than an alley so that to look out on it from the shop would hardly be in key with the Union Square prices charged within. The doorway is at the corner nearest Union Square, so the customer sees as little of this narrow street as possible. From Union Square the doorway appears as a definite punctuation point, even though necessarily seen from an oblique angle. Any façade in normal bays would have presented a constant rhythm down this uninviting side street, which would instantly have convinced most potential customers that no shop of interest to one who goes to Union Square could possibly be "down there."

Mr. Wright does not need me to defend his work, but I am sure that whatever "Frank's folly" is, possibly the famous glass tubes of the Johnson Wax Factory at Racine, it is not this shop. The moral appears to be in that architectural criticism as well as design a proper understanding of environment can often be as important as "firmness, commodity and delight."

PHIPPS TURNBULL.



NEW YEAR HONOURS

Architect among awards

This year's list includes the following awards:—Knights Bachelor: J. N. Comper, architect; G.B.E.: Sir Malcolm Trustram Eve, K.C., lately Chairman, Central Land Board and War Damage Commission; C.B.E.: C. J. Gibbons, Assistant Secretary, Central Land Board and War Damage Commission; F. M. Sleeman, Director of M. T. Sleeman & Sons, building contractors; O.B.E.: H. E. Pierce, Chairman, Ballast, Sand and Allied Trades Association; Alderman A. H. Telling, General Secretary, National Association of Operative Plasterers.

MOBBERLEY

Poll on New Town

A poll on the clauses of Manchester's proposed Parliamentary Bill relating to the acquisition of land for building a new town at Mobberley will be held on January 14. The requisition for a poll followed the rejection of the clauses at a recent meeting in the city.

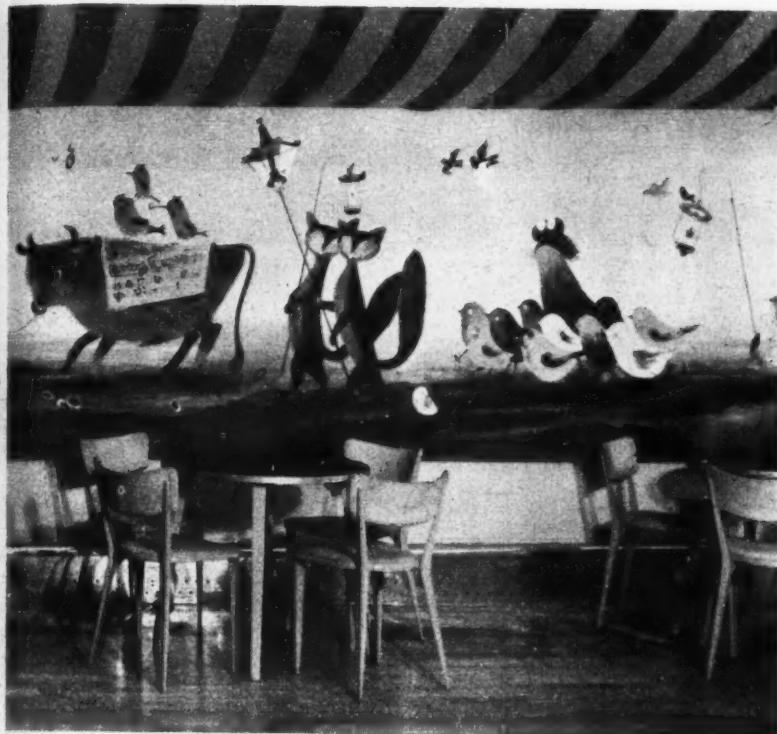
MURALS FOR A SOCIAL C



This social club, designed by Werner Heumann in association with John E. Beardshaw, was opened on April 15, 1949, for workers in a mill at Glossop, Derbyshire. The intention of the designers was to create something of the atmosphere of a "smart town effect," to contrast with the drabness of the workers' surroundings. The building was formerly a structure composed of two parts; a dwelling house connected to a large industrial shed. One or two partitions were removed and the studding of an old partition wall was retained. The scheme was carried out without the use of expensive materials, and decorative effects were obtained by the use of murals and a balanced colour scale. Above, murals in the dance hall by Lewitt-Him. Below, general view of the hall. Opposite: top, another photograph of the murals; bottom, the bar.



AL CLUB IN DERBYSHIRE



EXHIBITION

Roman London

Treasures recovered from Roman London in the mud of the Wallbrook stream are available for free public inspection. An exhibition was opened at Guildhall Museum on January 1 of many of the smaller objects, with a model of Roman London and other illustrative material.

The exhibition illustrates many homely objects of Roman London, and includes polished Samian ware and a valuable group of building materials.

Much unsorted material remains to be examined, and oaken piles have been submitted to an expert on the dating of tree-rings.

HARLOW

Flats for New Town

The Harlow Development Corporation has let another contract for the erection of three blocks of flats designed by Mr. Frederick Gibberd to Messrs. Gilbert-Ash Limited for the sum of £86,300. The total work now to be proceeded with in the near future in Harlow new town is in the region of £978,300.

CENTRAL LAND BOARD

Compulsory Purchase Orders

The MOTCP has confirmed the compulsory purchase orders made by the Central Land Board in respect of land at Stanmore, Middlesex, and Cheetham Hill, Manchester. Objections to the order made in respect of land at Lyndhurst Road, Exeter, will be heard on January 10, at 10.30 a.m. in the committee room at the Guildhall, Exeter.

IAAS

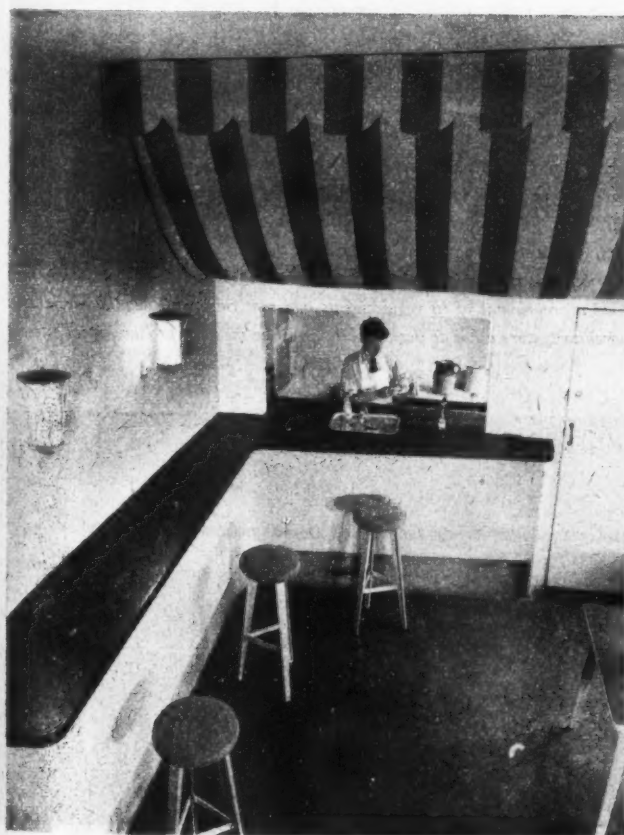
Competition results

The competition promoted by the Incorporated Association of Architects and Surveyors for the design of strip carpet has now been assessed and the awards made. The competition was divided into three sections—hotels, cinemas and theatres, and ships—with a first prize of 75 guineas and a second prize of 25 guineas in each class. It is said that the entries submitted were of a high standard, both in design and in suitability to purpose, and thus provided a strong argument for the wider employment of the architect in this field.

The successful competitors are as follows:—*Hotels*: 1st, W. F. Martin, 6, Canning Crescent, Wood Green, London, N.22; 2nd, Peter Kirkland, A.R.I.B.A., A.A.D.P., and Cynthia Kirkland, A.R.I.B.A., 29, Augusta Street, Glenelg, Adelaide, South Australia.

Cinemas and Theatres: 1st Gerald Stanwell, A.R.I.B.A., M.INST.R.A., 49, The Avenue, Beckenham, Kent; 2nd, John D. Billingham, 5, Lincoln Road, South Woodford, E.18.

Ships: 1st, J. Faczynski, 79, Mortlake Road, Richmond, Surrey, and J. W. Jakubowicz, 3, Apsley Mansions, Clanricarde Gardens, London, W.2; 2nd, R. E. Summers, A.R.I.B.A., 4, Berkeley Crescent, Clifton, Bristol, 8.



TDA

Timber Lectures

A special course of six weekly lectures on the structural use of timber in building, commencing on Thursday, February 2, at 7 p.m., has been arranged at the LCC Hammersmith School of Building & Arts & Crafts, Lime Grove, Shepherd's Bush, W.12, by the IDA.

Five of the lectures will be delivered by Mr. D. H. Moss and one by Mr. F. D. Silvester. They will deal with modern timber design and the implications of the Draft Code of Practice 112, Structural Use of Timber in Buildings.

Admission to the course will be restricted to corporate members of appropriate professional institutions or holders of comparable technical qualification. The fee for the course is £1 5s. Application forms for admission should be obtained from the secretary of the school and should be returned to him not later than January 13.

BRS

Mobile Acoustics Laboratory

The mobile acoustics laboratory of the Building Research Station, Department of Scientific and Industrial Research, will shortly be working at Priory Court, Countess Road, Walthamstow, a housing scheme being built for the Walthamstow Borough Council. The scheme consists of 21 blocks of flats which are now nearing completion. Sound insulation techniques and material have been used in their construction. They will eventually house some 400 families and a number of the blocks are occupied already.

The mobile acoustics laboratory is a research instrument specially designed for acoustic measurement and equipped with microphones, recorders, noise machines and so on. It has been used to measure acoustics in many types of building, including factories and concert halls, and recently visited Rotterdam to work on experimental flats there with 48 different methods of sound insulation. As a result of this work, and other researches at the Building Research Station and the National Physical Laboratory, knowledge is being gained which, it is hoped, will lead to proper sound insulation of flats and houses.

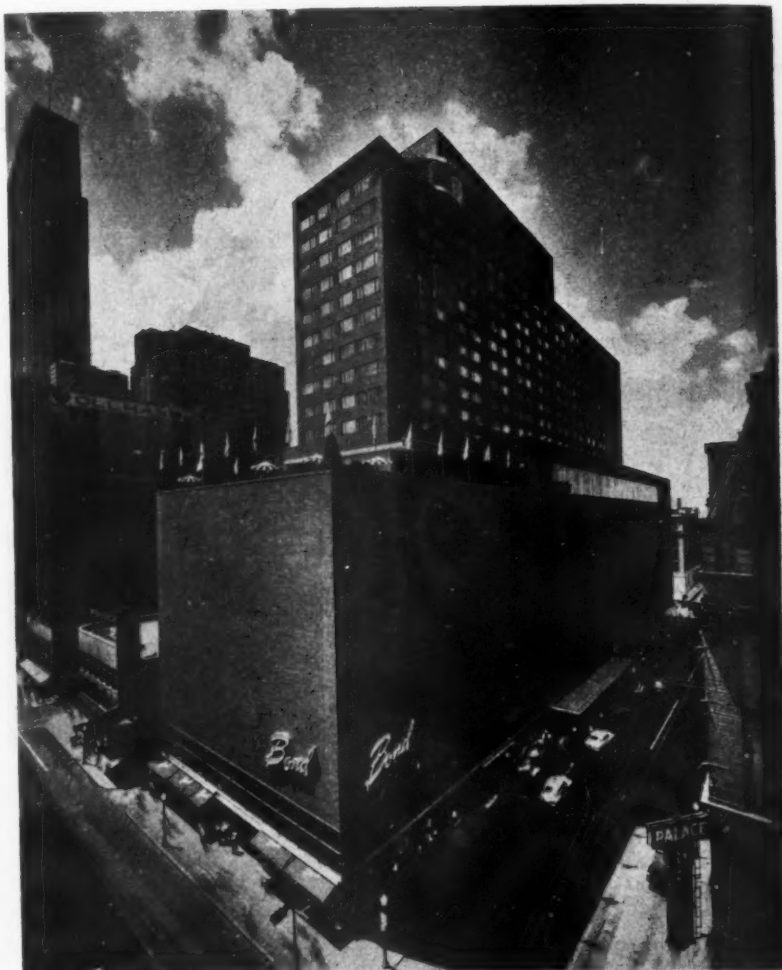
The laboratory will be making a series of measurements at Priory Court during the week January 9-14. The laboratory, its equipment, methods of measurement, and the effect of sound insulation will be shown.

LCC

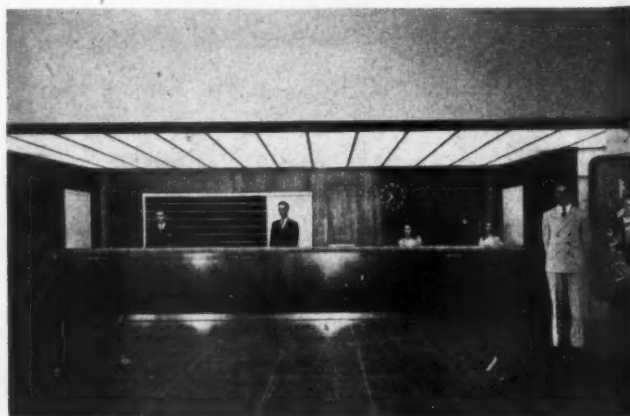
Lectures on Structural Steelwork

A special course of six weekly lecture-discussions on the Code of Practice for Structural Steelwork and 1948 Edition of British Standard 449, will be given by John Mason at the LCC Brixton School of Building, commencing on Thursday, January 19, at 6.30 p.m. The lectures will cover the following subjects: bending stresses in beams; shear stresses in beams; stresses in struts; welding; future trends; and steel economy. The course will provide an opportunity for practising engineers to discuss the implications of these new standards and is intended primarily for qualified professional men with experience of steelwork design. The fee for the course will be £1 5s. Applications for admission should

NEW STORE AND HOTEL IN



The new Terrace-Plaza Hotel in Cincinnati, Ohio, USA, is said to be an example of the improved building performance that can be produced as a result of thorough research, conducted by the systematic collaboration between architects, engineers, specialists and clients. The owner of the Terrace Plaza did not originally intend to build a hotel. He sold a lease for store space to two big stores, then assembled a programme of its requirements and sent this to six leading architects. These architects were asked to decide what would be the most productive investment



L IN CINCINNATI, USA



topping for the stores. It was decided that a hotel could earn 2 per cent. more than an office building. An intensive and collaborative research followed. This resulted in the production of a flexible mechanical plant suited to serving the twin character of the building. Opposite: top, the whole building, showing the hotel lobby on the eighth floor; bottom, the reception desk. Above, the "Gourmet Restaurant" with murals by Miro. Below, a guest room. Right, the "Skyline Room," which has murals by Steinberg.



RECENT WORKS OF AUGUSTE PERRET



This partly finished building is the Musée des Travaux Publics, Paris, which exhibits models of docks, bridges, traffic junctions, railway stations and other developments of public works in France. The construction is typical of M. Auguste Perret, with exposed bush-hammered concrete and near-classic detail as shown, left, in the section of an external wall. Below, part of the completed wing. Above, the staircase in the half-finished centre portion. The columns taper towards the bottom.



be sent to the secretary at the School and should reach him not later than Wednesday, January 11. No application form is required, but intending candidates should give the following particulars: name of course; name and address of candidate (block letters), age, firm by whom employed; position held; previous technical education and qualifications obtained.

KENT

Preservation of Trees

Darrick Wood, more than 20 acres of woodland near Farnborough in the Urban District of Orpington, will be preserved for posterity if the Minister of Town and Country Planning confirms an order made by the Kent County Council in consultation with the Orpington Urban District Council.

The woodland is of oak standard and coppice. In taking the present action, the County Council has adopted the view that these trees are of importance in the landscape as a feature of the local amenities. The woodland is also considered to be of intrinsic value as the soil appears to be favourable to the natural regeneration of oak.

Most of the oaks in the wood are fully matured and indiscriminate felling might well damage the younger trees which are developing. The order has, therefore, been made to ensure that felling shall be controlled and that replanting shall take place when desirable.

DIARY

Exhibition of Rare Maps of the Counties of England. Foyles Art Gallery, Trefoile House, Charing Cross Road, W.C.2. Daily, 9 a.m. to 6 p.m.

UNTIL FEB. 4

Building (Safety, Health and Welfare) Regulations, 1948. W. D. Short. YMCA Building, Fawcett Street, Sunderland. (Sponsor, MOW.) 7 p.m.

JAN. 5

The Painting of Buildings. Colour film by ICI. At Waldorf Hotel, Aldwych, W.C.2. (Sponsor, IRA.) 6.30 p.m.

JAN. 6

Timber for Constructional Purposes. F. D. Silvester. Town Hall, Fishergate, Preston. (Sponsor, TDA.) 7 p.m. (Also at Storey Institute, Meeting House Lane, Lancaster. Jan. 11. 7.30 p.m.)

JAN. 9

Communal Laundries. Miss C. J. Wilson. 13, Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.) 6 p.m.

JAN. 10

Acoustics and Sound Insulation. H. R. Humphreys. Kent Room, Caxton Hall, Westminster, S.W.1. (Sponsor, IAAS.) 6 p.m.

JAN. 11

Failures in Concrete—Their Causes and Cure. B. H. Knight. Technical College, Manchester Road, Bolton. (Sponsor, MOW.) 7.15 p.m.

JAN. 11

Timber in Building—Factors Affecting its Behaviour and Durability. Leicester College of Art, The Newarke, Leicester. (Sponsor, MOW.) 7.15 p.m.

JAN. 12

Steel Economy. L. R. Creasy. 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6 p.m.

JAN. 12



INTERIOR DESIGNS

BY ERNST POLLAK

I. RECEPTION OFFICE AT GREENWICH

GENERAL.—The reception office of the Greenwich Metalworks belonging to Messrs. G. A. Harvey & Co. (London), Ltd., has been converted from a ground floor store room, which has direct access from the street and the adjoining staff entrance. In addition, two small rooms have been made into interview rooms. Visitors pass through a small lobby to



Visitors lounge.

Display panel of the firm's products.

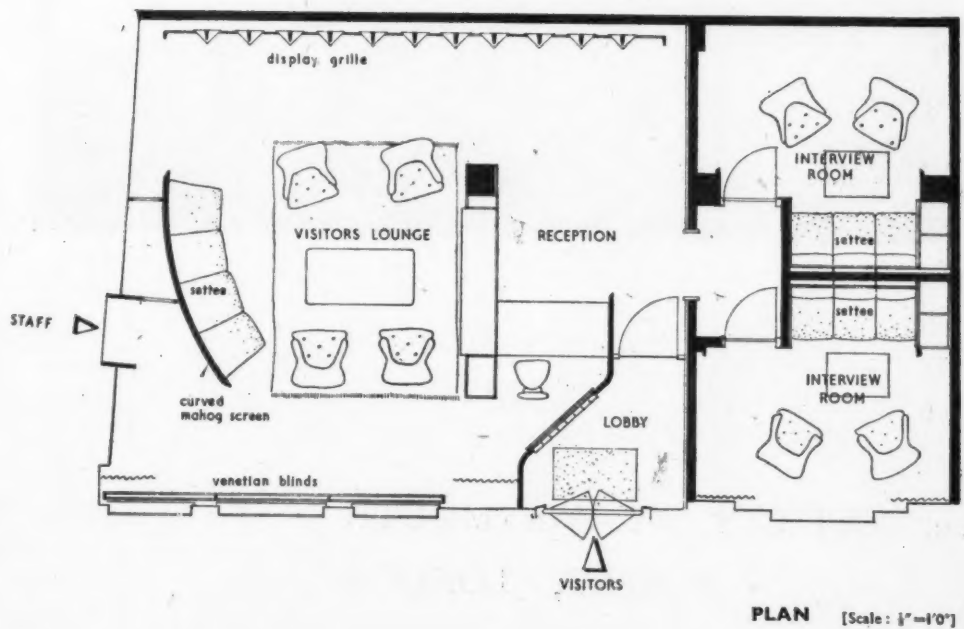


reach the reception desk. Employees enter the room from behind the wood settee screen. A display grill runs along the back wall, and consists of a framework into which the displays are fitted. Lighting has been designed to show these displays to their best advantage. The central opening in the ceiling acts as a reflector to the indirect lighting. Electric panel heaters are placed below the windows, which are fitted with steel venetian blinds. A false ceiling hides structural and central heating pipes. A cupboard fitting encases a free standing structural column, and divides the room into reception area and visitors lounge. Mahogany facing is used throughout. The general contractors were Messrs. W. F. Clifford, Ltd.

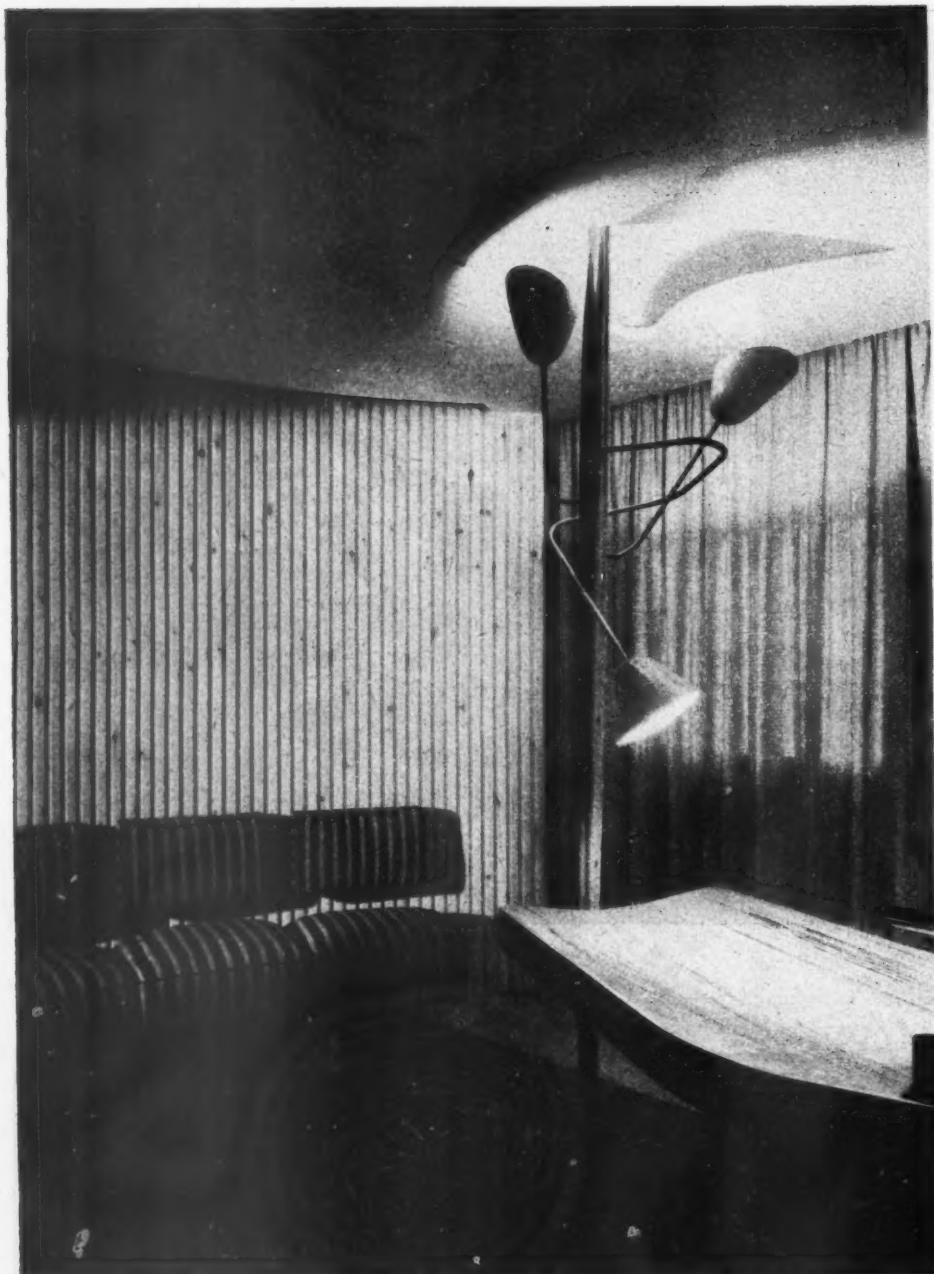
RECEPTION OFFICE AT GREENWICH D



Visitors lounge.



DESIGNED BY ERNST POLLAK

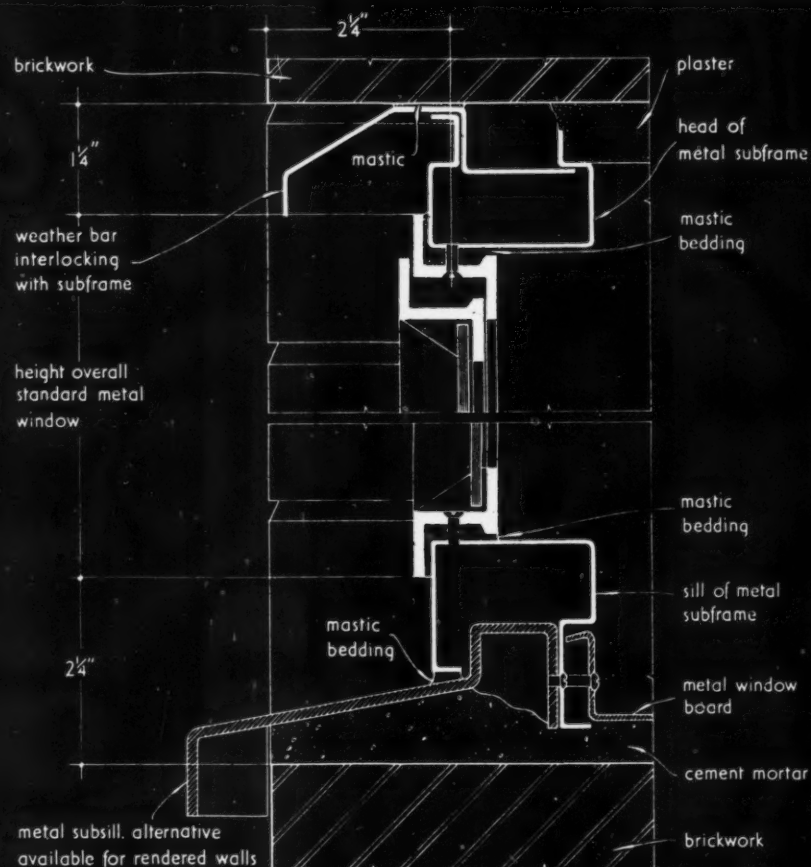


Reception room.

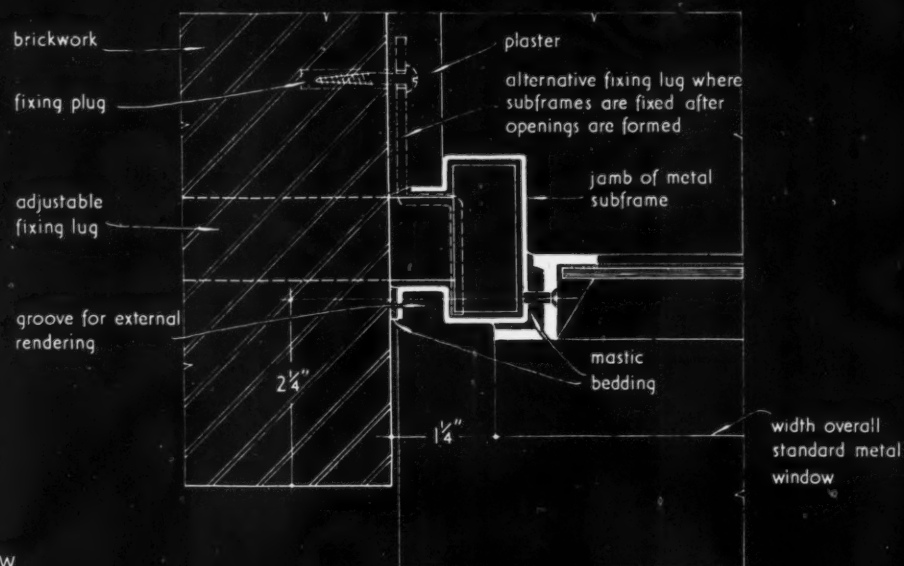
2. OFFICES AT WEYMOUTH STREET, LONDON

GENERAL. — These Weymouth Street premises have been taken over by an export firm and converted to give the required accommodation. The general office and stores have been placed in the basement. The ground floor has been planned to accommodate two directors' offices, a reception room and a showroom.

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SECTION THRO' WINDOW



PLAN OF WINDOW

STANDARD METAL WINDOWS WITH STEEL SUBFRAMES (AS B.S. 1422):
FIXING TO SOLID FAIRFACED BRICKWORK. (scale 1/2 full size)

Compiled from information supplied by The British Metal Window Manufacturers Association Limited.

24.D8 STANDARD METAL WINDOWS WITH STEEL SUBFRAMES (AS B.S. 1422) : FIXING TO SOLID FAIRFACED BRICKWORK

This Sheet gives details of fixing standard metal windows with steel subframes to solid fairfaced brickwork. Sheet 24.C1 illustrates the method of specifying standard metal windows and Sheets 24.C2 and 24.C3 give standard sizes and types. Further fixing details will be given in subsequent Sheets in this series.

Brickwork Openings

It should be noted that where these subframes and subsills are used $3\frac{1}{2}$ in. must be added to the total height and $2\frac{1}{2}$ in. to the total width of the standard metal windows to determine the sizes of the actual brickwork openings.

British Standard

The metal subframes, sill and window board shown are in accordance with B.S. 1422: 1948.

Compiled from information supplied by :

The British Metal Window Manufacturers' Association, Ltd.

Address : 2, Great Peter Street, London, S.W.1.

Telephone : Whitehall 9606.

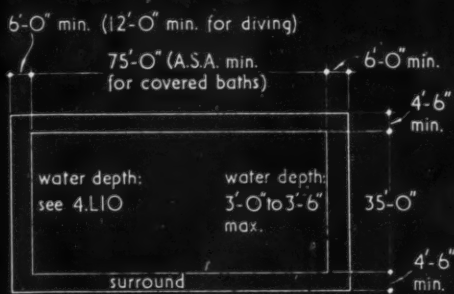
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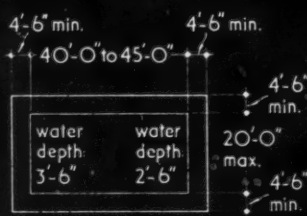
Editor: Co'terell Butler, A.R.T.B.A.

DESIGN DATA | SWIMMING BATHS**4.L11**

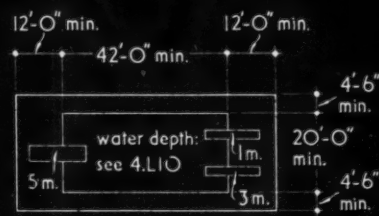
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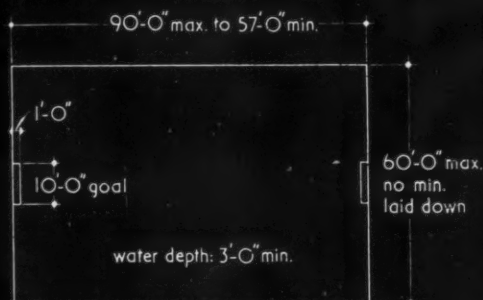
MINIMUM-SIZED BATH FOR LOCAL CHAMPIONSHIPS.



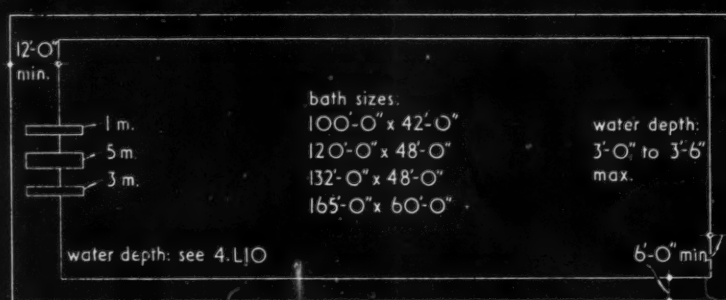
SEPARATE LEARNERS' BATH.



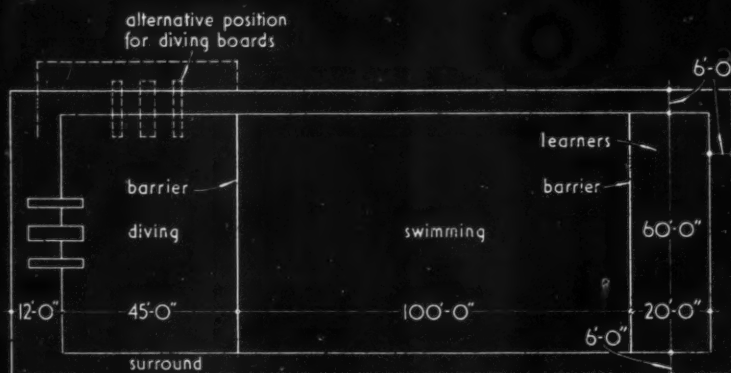
SEPARATE DIVING BATH.



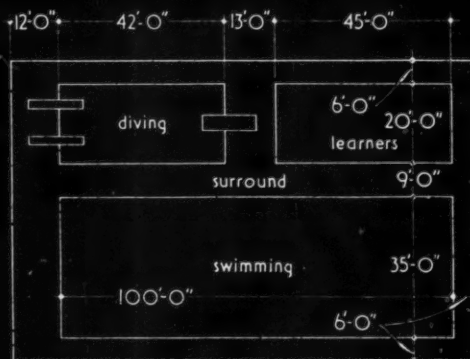
A.S.A. WATER POLO AREA.



BATHS FOR A.S.A. AND INTERNATIONAL CHAMPIONSHIPS.



TYPICAL BATH ARRANGEMENTS. (barriers may be temporary or permanent)



racings distance	length of bath
up to 440 yd.	25 yd. min
beyond 440 yd.	55 yd. min

bath lengths

no. of competitors	width of bath
4	15'-0" to 25'-0"
5	25'-0" to 30'-0"
6	30'-0" to 36'-0"
7	36'-0" to 42'-0"
8	42'-0" to 48'-0"

bath widths

diving heights	water depth
1 metre	3½ m. min.
3 metre	3½ m. min.
5 metre	4½ m.

water depths

note: approximate clear height of halls -

general: about half shortest hall dimension

springboards up to 3m: 22'-0" min clear above water level

5m platform: 15'-0" min. clear above diving end of 5m platform

A.S.A. CHAMPIONSHIP REGULATIONS.

SWIMMING BATHS: COVERED BATHS I: DIMENSIONS AND LAYOUT OF BATHS.

Compiled by E. G. Schoendorff, Dip. Ing. Arch.

4.L11 SWIMMING BATHS : COVERED BATHS 1 : DIMENSIONS AND LAYOUT OF BATHS

This Sheet is the second of a group setting out design data for swimming baths. It deals with covered baths.

Siting

Sites for covered baths should, where possible, be situated adjoining or surrounded by an open green space and be within easy reach of adequate transport facilities. They should be large enough to provide sufficient parking space and to allow for future extensions. Secondary road access, in addition to the main entrance, should be considered for goods deliveries.

Orientation

Large windows in end or side walls of bath halls should face east, south or west.

Planning

Districts with a population of 50,000 or more should be equipped with a bath suitable for A.S.A. and international championships. Such a bath should measure at least 100 ft. 0 in. by 42 ft. 0 in.

Districts with a population of 40,000 or less may be equipped with a bath measuring at least 75 ft. 0 in. by 35 ft. 0 in. This provides for the minimum length required by the A.S.A. for local championships in covered baths, and is a suitable size for the use of the general public, schools, and local clubs.

Design

The basic units of a covered bath establishment consist of the following:—

1. The bath hall with swimming bath (one or more), spectators' seating, dressing and pre-cleansing facilities, lavatories for swimmers and spectators, and staff rooms.
2. The slipper and special baths section with waiting rooms, lavatories and staff rooms.
3. The main entrance hall with ticket and administrative offices.
4. The engineering plant (heating, ventilation, filtration) with stores and staff rooms, and the establishment laundry.

It should be noted that this list excludes the alternative use of a covered bath as a public hall for concerts, etc., and does not refer to establishments containing a public wash-house.

Space Requirements

Minimum sized bath for local championships: Length 75 ft. 0 in., width 35 ft. 0 in. Bath surround 4 ft. 6 in. min. at sides, 6 ft. 0 in. min. at ends if no diving boards, otherwise 12 ft. 0 in. min. at diving end. Water depth 3 ft. 0 in. to 3 ft. 6 in. max. at shallow end; $3\frac{1}{2}$ m. A.S.A. min. at deep end for diving up to 3 m. height.

Baths for A.S.A. and international championships: Length 100 ft. 0 in., width 42 ft. 0 in. Larger sizes in common use are 120 ft. 0 in. by 48 ft. 0 in., 132 ft. 0 in. by 48 ft. 0 in. and 165 ft. 0 in. by 60 ft. 0 in. The length of all baths should preferably be a proportion of a mile so as to accommodate A.S.A. racing distances and the width should take account of the number of competitors taking part in races. A.S.A. championship regulations are tabulated on the face of this Sheet.

Bath surround 6 ft. 0 in. min. at sides and shallow end, 12 ft. 0 in. min. at diving end. Water depth 3 ft. 0 in. to 3 ft. 6 in. max. at shallow end; for diving end see Sheet 4.L10.

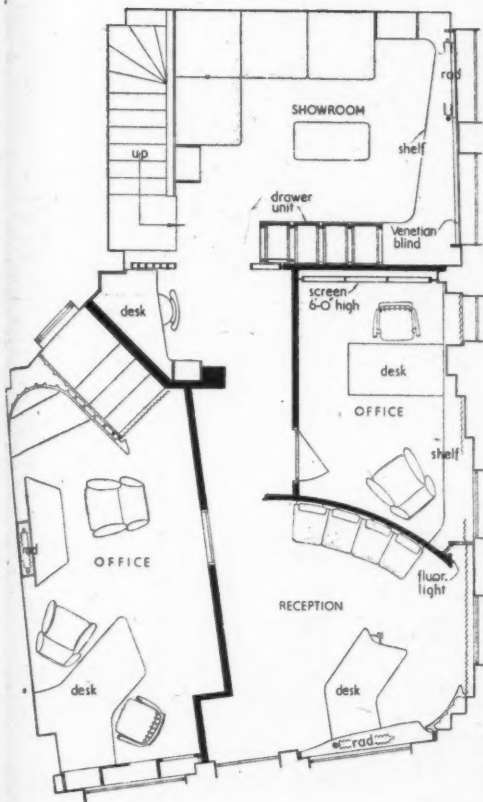
A.S.A. water polo area: Length 57 ft. 0 in. min. to 90 ft. 0 in. max., width 60 ft. 0 in. max., no minimum dimension fixed. Width between goal posts 10 ft. 0 in. The boundary of the field of play at the ends to be 1 ft. 0 in. behind the goal line. Water depth 3 ft. 0 in. min.

Separate learners' bath: Length 40 ft. 0 in. to 45 ft. 0 in., width 20 ft. 0 in. max. Bath surround 4 ft. 6 in. min. at sides and ends. Water depth 2 ft. 6 in. at shallow end, 3 ft. 6 in. at deep end.

Separate diving bath: Equipped with 5 m. platform at one end and 1 m. and 3 m. springboards at the other. Length 42 ft. 0 in. min., width 20 ft. 0 in. min. Bath surround 4 ft. 6 in. min. at sides, 12 ft. 0 in. min. at diving ends. For water depth see Sheet 4.L10.

Height of bath hall: In general to equal about half the shortest hall dimension. In the case of springboards up to 3 m. the clear height above water level should be at least 22 ft. 0 in. Where a 5-m. platform is provided the clear height above the platform's diving end should be at least 15 ft. 0 in.

Width of bath hall: This depends on the location of spectators' seating and dressing and cleansing facilities.



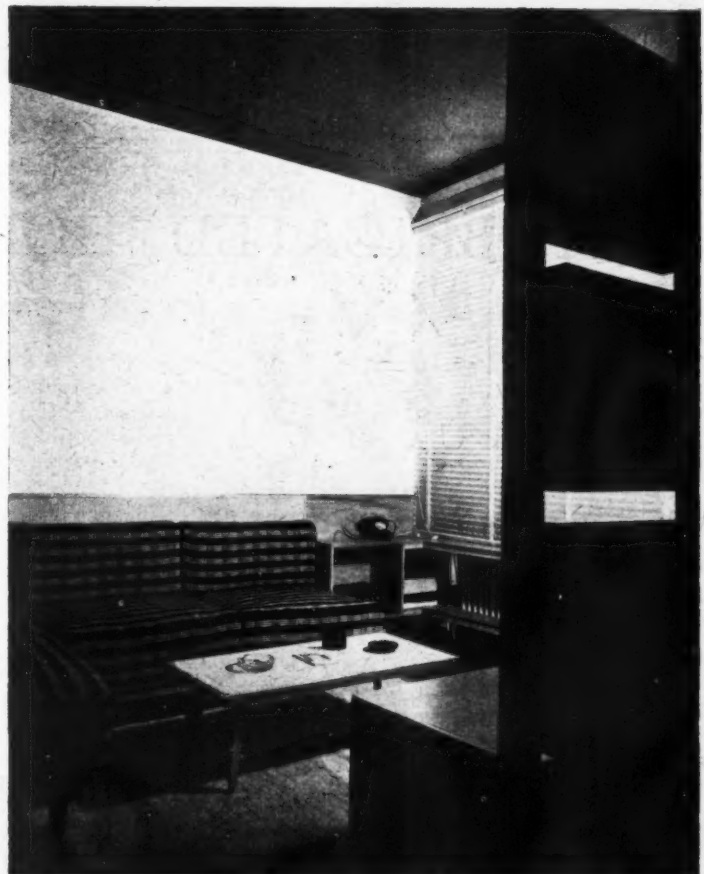
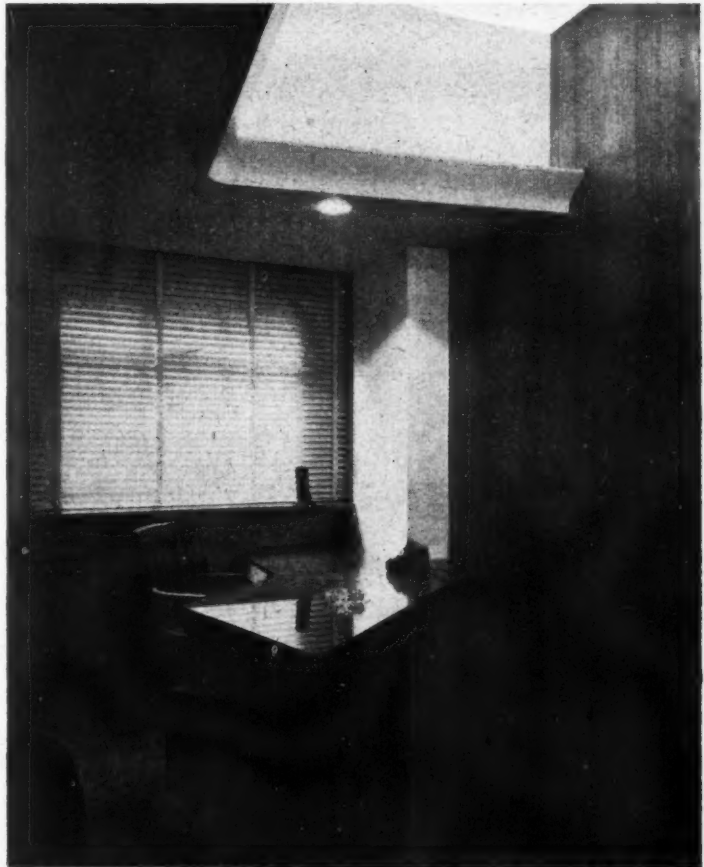
PLAN [Scale 1/4" = 1'-0"]

CONSTRUCTION. — Structural alterations have been kept to a minimum. One partition wall has been removed. A false ceiling has been constructed to hide structural beams and give the rooms better proportion. Different ceiling heights have been utilised to install indirect lighting.

FINISHES.—The two directors' offices are faced with natural wax-polished plywood. In the showroom the windows are framed with Panama pine. The partition is faced with coconut matting to form an effective background to textile goods which will be displayed on it. Hand-woven fabrics in bright colours are used to cover the cushions. Showroom walls are of slatted pinewood and natural wax-polished plywood. The ceiling has been painted dark blue. The passage leading from the reception area to the showroom is faced with striped wall-paper.

The general contractors were Russell Bros. (Paddington), Ltd. For list of sub-contractors, see page 30.

*Top, office.
Bottom,
showroom.*





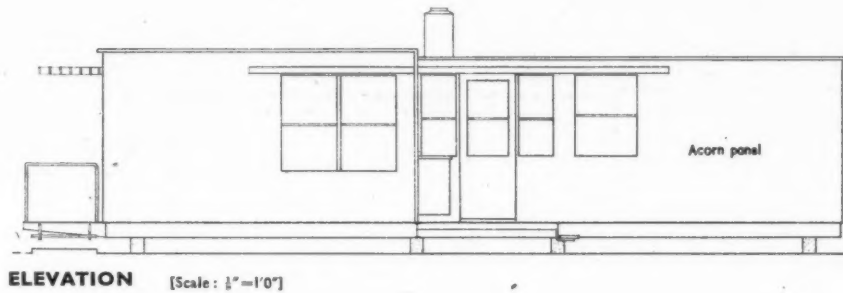
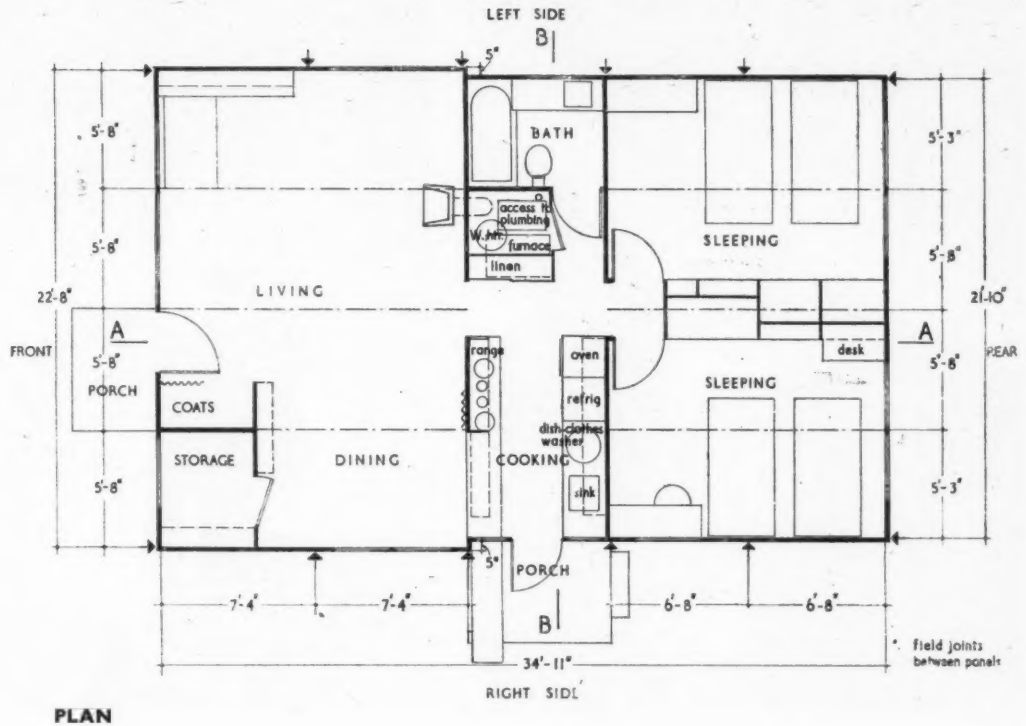
PREFABRICATED HOUSE IN THE USA

*DESIGNED BY
CARL KOCH
ASSISTANT ARCHITECTS:
HUSON JACKSON,
J. H. CALLENDER*

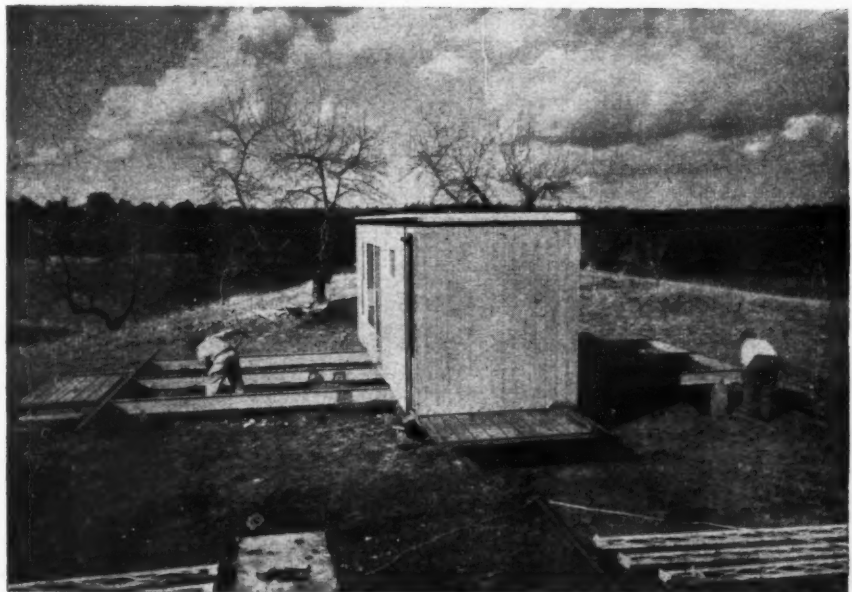
GENERAL.—The house consists of a central core containing the kitchen, bath, heater-utility room and all wiring, plumbing, heating and kitchen accessories. The living-dining room and two bedrooms are ranged on opposite sides of the core. The panels constituting the walls, floor and roof of these rooms are hinged and folded against the core, which, when folded, is 8-ft. wide, 10-ft. high and 23-ft. long. The house is transported to the site on a trailer. There it is lowered on to a temporary blocking support. Steel floor beams for the extension portions are attached and blocked level over eight previously prepared footing holes. Precast concrete piers are hung into these holes from the steel beams, and

concrete footings are poured immediately. With the structure resting on the temporary blocking the panels are unfolded with the aid of lightweight rigging. Panel joints are bolted, bedroom and living room cupboards are assembled and secured, and plumbing and electrical service connections are made.

CONSTRUCTION.—Site preparation requires about 20 man-hours. Foundations consist of light precast concrete piers 8-in. by 8-in. The main structure of the house is supported by a framework of 8-in.—6.3 lb./ft. beams, welded at all factory joints and bolted at site assembled joints. The roof panels are supported by 8-in. expanded steel joists. All panels

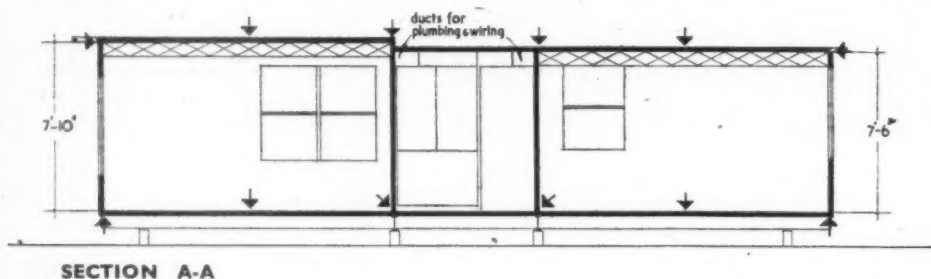


The folded house resting on temporary supports while the foundations are prepared.

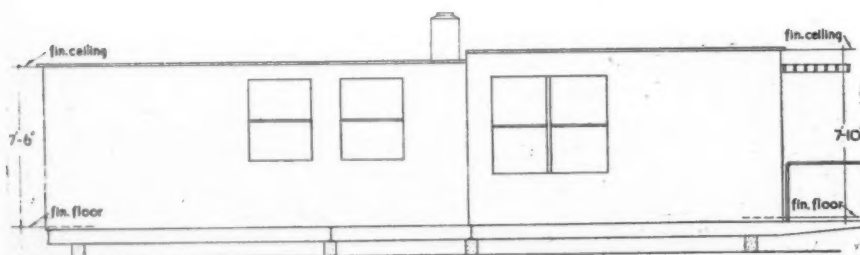




Above, the precast concrete piers being hung from the steel floor beams prior to pouring the concrete footings. Right, fixing the expanded steel ceiling joists to the wall panels.



SECTION A-A



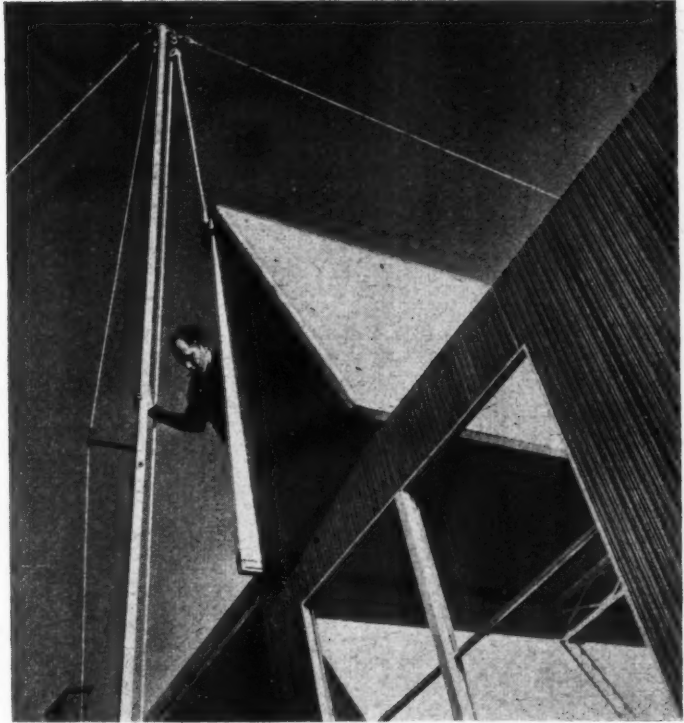
ELEVATION [Scale: $\frac{1}{4}$ "=1'0"]

are built up of $\frac{1}{4}$ -in. exterior fir plywood and corrugated plastic impregnated kraft paper, pressure bonded to a 1 $\frac{1}{2}$ -in. thick core. Floor panels are faced with $\frac{3}{8}$ -in. exterior plywood on both sides. Windows have double hung alu-

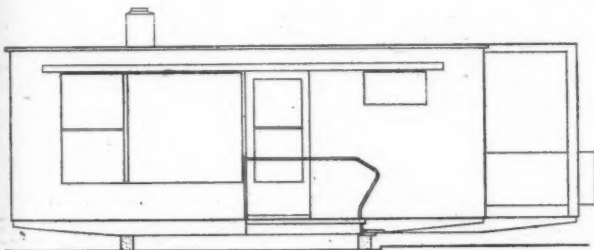
minium sashes, except for one fixed plate glass window in the living room, and a small obscured glass fixed window in the store cupboard. Exterior surfaces are finished with a preservative filler and an oil base finish paint.

Exterior joints are sealed with a flexible neoprene gasket cemented to the panel edges at the factory. Exterior butt joints (roof to wall panels, exterior corner joints and wall to floor joints) are sealed with a neoprene tube which is com-

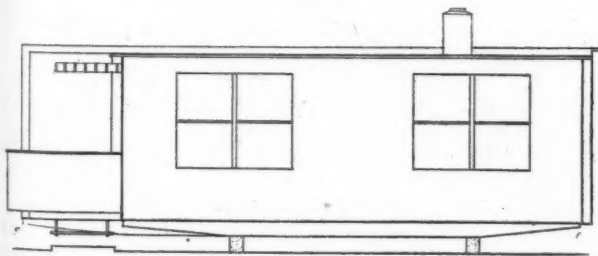
HOUSE BY CARL KOCH: ASSISTANTS, H



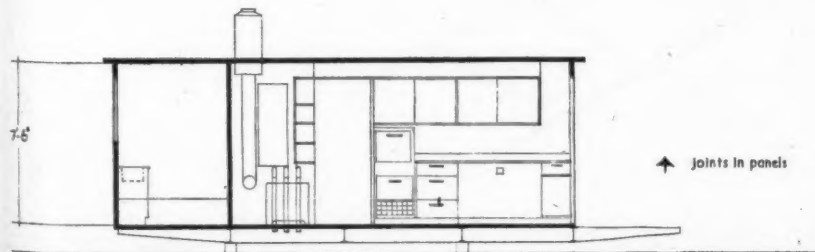
Right, lowering a folding roof panel into position.



SECTION B-B



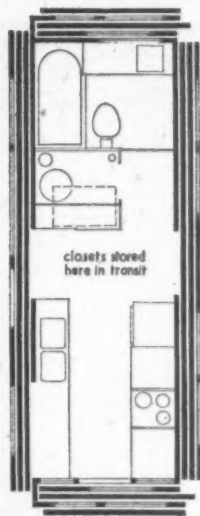
ELEVATION



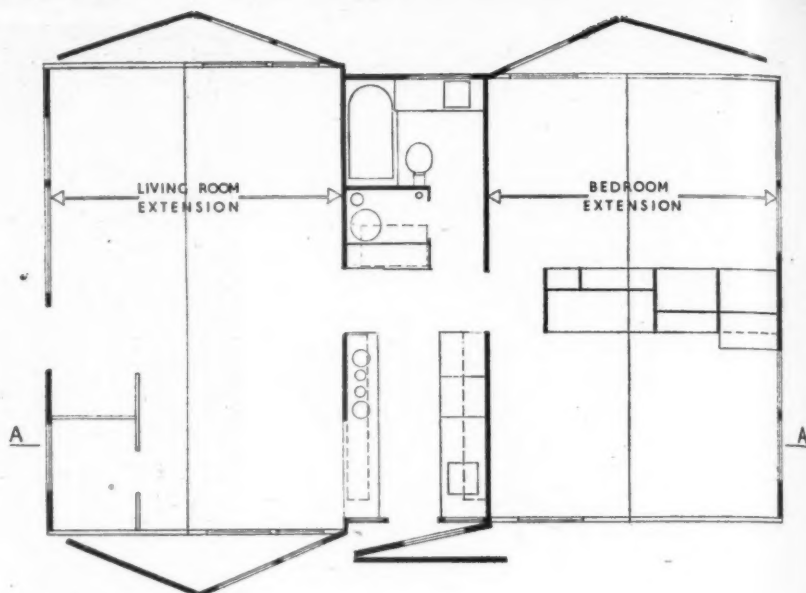
ELEVATION [Scale: 1/4"=1'0"]

pressed when the panels are bolted together. The fireplace is of 16-gauge porcelain-enamelled steel, and all joints in the unit are welded and ground to a smooth finish. A vitreous lined metal clad chimney is mounted above the heater room. Vents and soil stack are of copper. The front and rear door are protected by an aluminium roof section and the window groups on both these elevations are protected by wood slat sunshades. 32 man-hours of semi-skilled labour are required to erect the house.

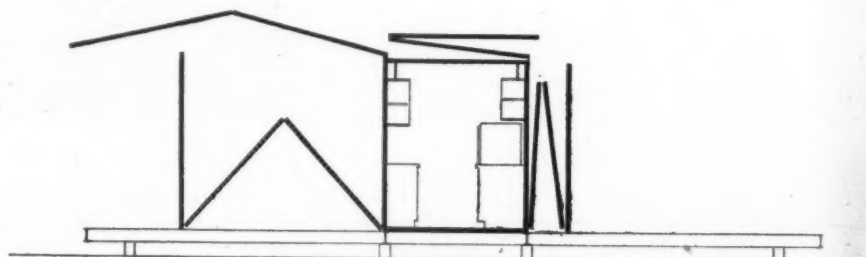
HUSON JACKSON AND J. H. CALLENDER



PLAN WHEN FOLDED

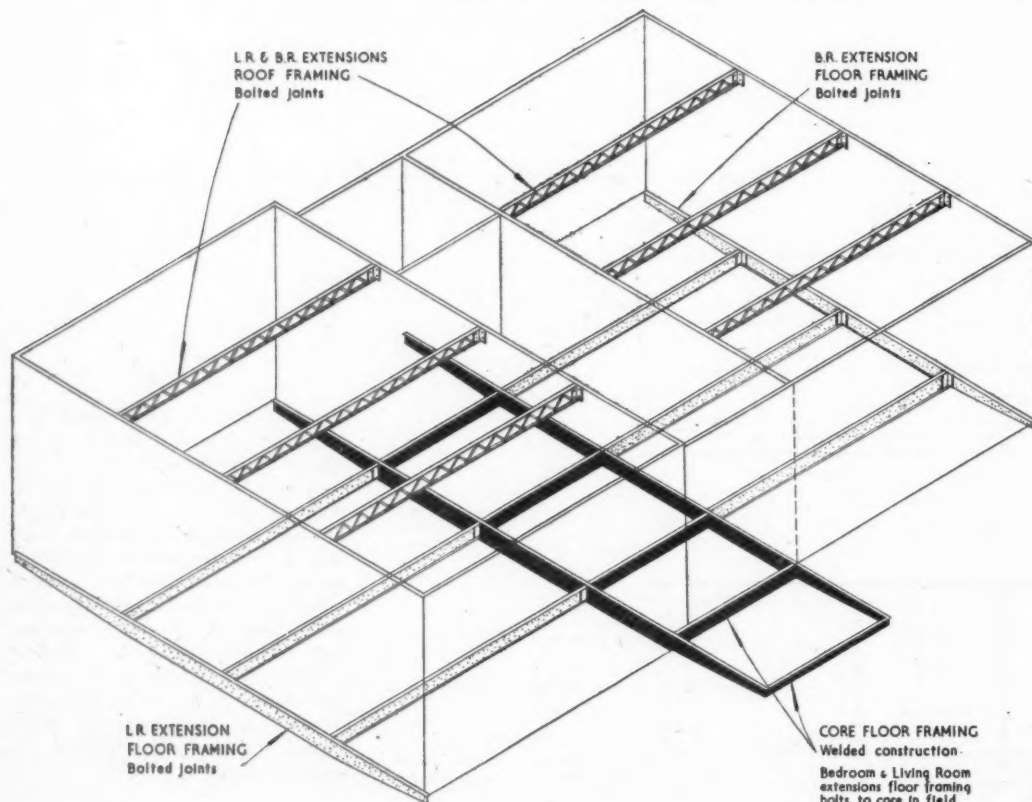


PLAN



SECTION WHEN BEING UNFOLDED

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



EXTENSION
DIAGRAM

HOUSE BY CARL KOCH : ASSISTANTS, H

INTERNAL FINISHES.—All surfaces are factory finished with a preservative filler and an oil base paint. Floors are spray painted. All coats are force dried.

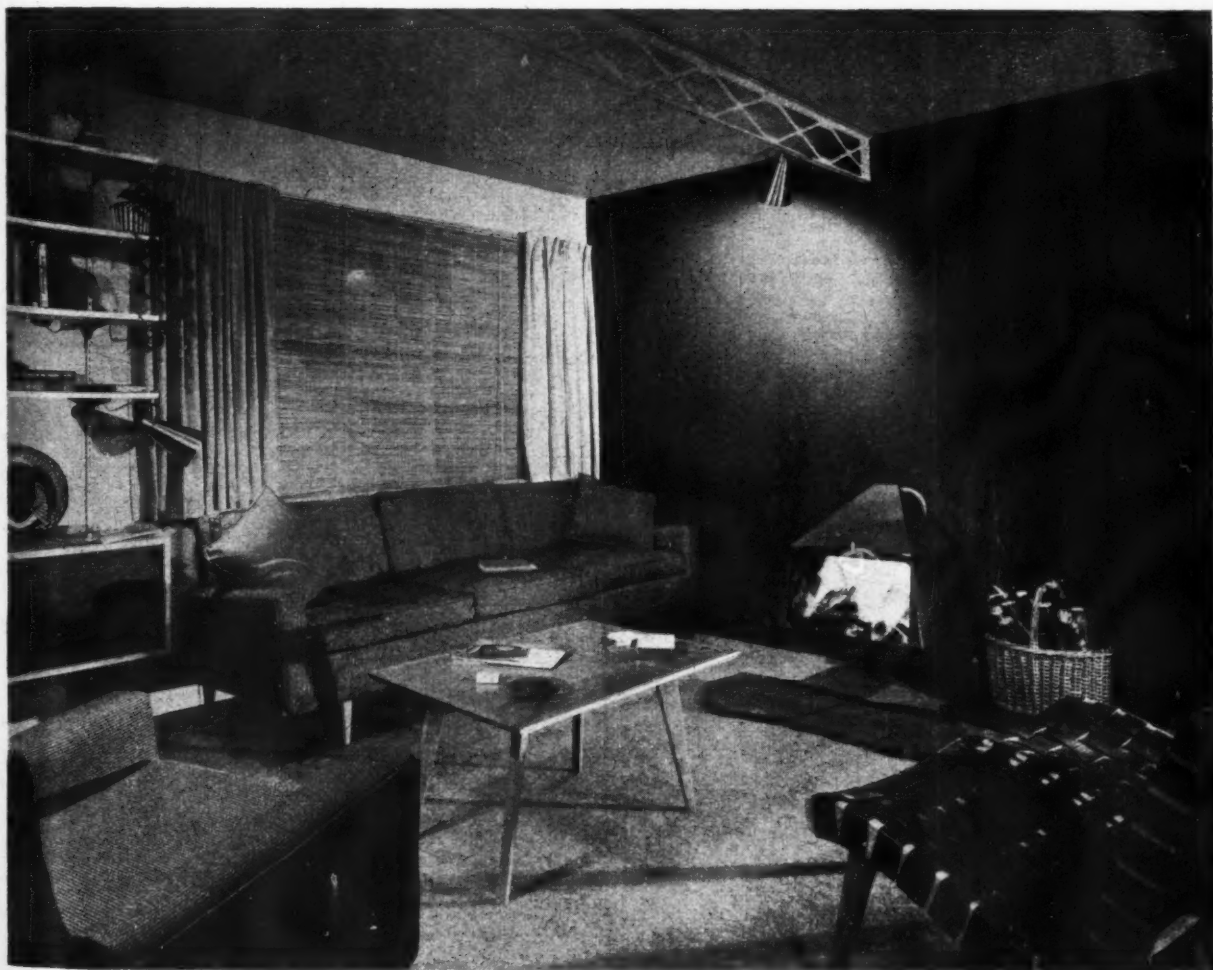
SERVICES.—The house is heated by an oil or gas burning furnace with an output of 65,000 BTU's per hour. Warm air is carried through insulated ducts to wall-mounted registers. Hot and cold water pipes are of copper. The water heater is run by electricity and has a 30-gallon capacity. Electrical wiring is run through a combination of flexible fabric covered conduit and metal surface conduit which is prepared in pre-

fabricated lengths. Kitchen equipment includes four electric cooking units installed in a 9-ft. 6-in. stainless steel counter. An electric oven unit is fitted at waist height. An under-counter refrigerator and frozen food unit is also built in. A combination clothes and dish washer sink unit is also provided.

FITTINGS.—The kitchen has a combination of open shelves and enclosed cupboards totalling 70 lineal feet of shelving. The two bedrooms are separated by a 230 cu. ft. storage unit containing eight drawers, a desk, book shelves and approximately 9 lineal feet of

clothes hanging space. The coat cupboard at the living room entrance provides 4 lineal feet of hanging space 2-ft. in depth. A storage cupboard adjacent to the dining area provides 150 cu. ft. of space. The bathroom has a base cabinet with a built-in stainless steel lavatory and counter, and has 7 cu. ft. of drawer and shelf storage space. A large medicine cabinet is mounted on the wall convenient to the lavatory. The linen cupboard has 18 lineal feet of 14-in. deep shelving. A unit consisting of a built-in desk, wall cabinet and open shelves in the living room has a total of 32 lineal feet of shelving.

The living room.



HUSON JACKSON AND J. H. CALLENDER

CURRENT MARKET PRICES OF MATERIALS

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

Owing to a relaxation of the restrictions on paper, it is possible to expand the section of the Journal devoted to prices. A new section giving prices for measured work has been compiled and will appear in the Journal three weeks from today. As space is still not unlimited the section giving market prices of materials has been slightly reduced in size, to ensure that the new section is as comprehensive as possible. In future both sections will be published at quarterly intervals, the prices for measured work appearing a fortnight after the market prices of materials.

Rates of Wages last rose on October 3, 1949, and are now as follows:—

LONDON DISTRICT					Craftsmen.	Labourers.
Within 12 miles radius	..	..	..	..	2s. 11½d.	2s. 5d.
From 12-15 „ „	..	..	..	..	2s. 11d.	2s. 4½d.
LIVERPOOL and DISTRICT	..	..	..	..	2s. 11½d.	2s. 5d.
GRADE CLASSIFICATIONS		A	A¹	A²	A³	
Craftsmen..	2s. 10d.	2s. 9½d.	2s. 9d.	2s. 8½d.		
Labourers..	2s. 3½d.	2s. 3½d.	2s. 3d.	2s. 2½d.		

Ad Davis

F.R.I.C.S., F.I.Arb.

Prices vary according to quality and the quantity ordered.

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

CONCRETOR

Cements		In 80-ton freights F.A.S. Safe Wharf in River Thames London Area.	
	6 tons and over		
* Portland to B.S. 12- ..	per ton	62/6	60/-
* Rapid hardening to B.S. 12 ..		68/6	66/-
† Aquacrete water repellent ..		94/-	
Snowcrete.....			(Minimum 1-ton lots) 233/- (paper bags free)

Prices for Portland Cement include for delivery to Charing Cross.
* In non-returnable paper bags or jute sacks charged at 8/- net per ton or 6d. each net per bag in lots of less than 1 ton.
* In returnable jute sacks charged at the rate of 35/6 net per ton of cement or 1/9½ net per sack in lots of less than 1 ton. Credit on return at 1/6 net per sack.

† Supplied in packages charged 8/- per ton extra.

Aggregate and Sands, etc. (Full Loads)			
1½" Unscreened ballast to B.S. 882, Table 5 ..	per yard cube	15/5	
½" (Down) Washed, crushed and graded shingle to B.S. 882, Table 2 ..	per yard cube	14/5	
¾" Sharp washed sand to B.S. 882, Table 3 ..	per yard cube	16/4	
Brick hardcore ..	per yard cube	6/6	

(For Sands for Bricklaying and Plastering, see respective trades)

Reinforcement			
Home trade maximum basis price for mild steel rods to B.S. 785, ½" diameter and upwards, ex mills delivered to station or siding ..		per ton	£21 13 6
Extras for:—			
Under ½" to ¾" diameter ..	per ton	15 0	
Ditto ¾" and over ½" diameter ..	per ton	£1 2 6	
½" and over ¼" diameter ..	per ton	£1 10 0	
¾" and over ½" diameter ..	per ton	£1 17 6	
1" and over ¾" diameter ..	per ton	£2 5 0	
1½" and over 1" diameter ..	per ton	£2 12 6	
2" diameter ..	per ton	£3 0 0	
Under 1½" to 2" diameter ..	per ton	£4 10 0	

Fabric Reinforcement		16.35 lb.	9.32 lb.	4.71 lb.	1.83 lb.
Steel wire mesh fabric to B.S. 1221, Part A per yd. super.		5/11½	3/5½	1/8½	1/1½

BRICKLAYER

Common Bricks			
Third stocks ..	per 1,000	109/6	
Rough stocks ..	per 1,000	129/6	
Mild stocks ..	per 1,000	181/6	
Sand limes ..	per 1,000	86/-	
Phorpres pressed Flettons ..	per 1,000	85/-	

Facing Bricks			
Hand-selected sand limes ..	per 1,000	121/-	
Phorpres rustic Flettons ..	per 1,000	105/-	
Stocks, first hard ..	per 1,000	216/6	
Stocks, second hard ..	per 1,000	206/6	
Southwater pressed sandfaced reds ..	per 1,000	187/6	
Dorking pressed sandfaced multicoloured facings ..	per 1,000	165/-	

BRICKLAYER—(continued)

Engineering Bricks			
† Lingfield engineering wirecuts ..	per 1,000	127/6	
† Southwater or Lunsford engineering No. 2 (second quality red pressed) ..	per 1,000	185/-	
* Blue pressed bricks to B.S. 1301 ..	per 1,000	160/-	
* Plus 110% plusage, 5 per cent. builders cash discount.			
† Prices ex works—Haulage extra.			

Glazed Bricks		Best quality £ s. d.	Seconds £ s. d.
White, Ivory or Brown, 9" × 2½" × 4½"			
Headers ..	per 1,000	39 10 0	37 10 0
Stretchers ..	per 1,000	40 0 0	38 0 0
Prices for glazed bricks + 22½% seconds. + 27½% bests.			

Limes and Sands			1 ton lots.
† Lime, greystone, to B.S. 890 ..	per ton	84/9	
† Lime, chalk, ditto ..	per ton	84/9	
* Lime, hydrated, ditto ..	per ton	89/6	
Washed pit sand to B.S. 1200 ..	per yard cube	16/4	
* Including paper bags.			
† Hire of jute sacks charged at 1/6 and credited at 1/6. If left, charged at 1/9.			

Sundries			
10 s.w. gauge galvanized butterfly type wall ties to B.S. 1243 ..		per 1,000	87/3
Wall ties, galvanized, 8" × ½" × ½", to B.S. 1243 ..	per cwt.	73/6	
Damp proof course slates: Imported Welsh			
Size 14" × 9" ..	per 100	54/-	55/9
.. 14" × 4½" ..	per 100	26/3	27/6
Hessian base bitumen damp course to B.S. 743 ..		per yard super	4/6
9" × 3" 9" × 6" 9" × 9"			
Terra-cotta airbricks ..	each	1/-	2/-
Galvanized cast-iron airbricks ..	each	2/7	4/2
Galvanized cast-iron hit-and-miss ventilators ..		each	2/8 5/1 6/6
Buff terra-cotta chimney 1' 0" 1' 6" 2' 0" 2' 6" 3' 6" 5' 0"			
pots ..	each	5/7 6/8 9/8 12/10 29/5 50/2	
Wall reinforcement supplied in standard rolls containing 25 yards lineal 12" wide black japanned ..		per roll	3/-
12½" wide black japanned ..	per roll	3/8	
† Greater widths pro rata 2½" price, carriage paid on orders of £1. Discount for quantities.			

Partitions, etc.		2"	2½"	3"	4½"
Breeze to B.S. 492 ..	per yard super	3/2	3/8	4/2	5/6
Hollow clay to B.S. 1190 (keyed) ..	per yard super	3/1	3/4	4/-	4/7
Moler (keyed) ..	per yard super	7/6	9/-	10/-	11/3

PAVIOR

2" coarse gravel for paths ..	per yard cube	17/6
½" fine ditto ..	per yard cube	19/-
Clean granite chippings to B.S. 1201, Table 4 (in 6-ton loads) ..		per ton
Red quarry tiles, 6" × 6" × ½", to B.S. 1286 ..	per yard super	10/9
Ditto 6" × 6" × ½", to B.S. 1286 ..	per yard super	9/6
Buff quarry tiles 6" × 6" × ½", to B.S. 1286 ..	per yard super	12/-
Ditto 6" × 6" × ½", to B.S. 1286 ..	per yard super	10/9
Hard red paving bricks, 2" ..	per 1,000	320/-
Ditto 1½" ..	per 1,000	300/6

DRAINLAYER

Clay Land Drain Pipes to B.S. 1196

Pipes in 12" lengths	3"	4"	6"
per 1,000	138/6	179/-	372/-

Salt Glazed Stoneware Pipes and Fittings

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

Cast Iron Drain Pipes and Fittings

Socket and spigot pipes to B.S. 437 :-	Weight per 9 ft	Size	6 fts.	4 fts.	3 fts.	2 fts.
1	1	17	4"	per yd.	18/1	29/-
2	0	1	6"	24/7	29/1	46/8
3	3	21	9"	44/5	58/1	100/4
						76/7

Tonnage Allowances :-

Orders up to 2 tons nett.

*Bends (short radius) as Fig. No. 4	each	4"	6/3	13/-	40/-
*Single junctions as Fig. No. 18	each	11/-	22/6	69/-	
*Intercepting traps as Fig. No. 33	each	30/-	50/-	123/-	
*Gullies ordinary trapped "P"	each	14/6			
*Extra for 4" vertical back inlet	each	4/3			
*Grease gully trap	each	121/-			

* These prices are subject to 83½% plusage.

Channels in Brown Glazed Ware.

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

White Glazed Channels

Orders under 20 pieces. Standard list + 10%.

*Manhole covers and frames

	Size of load	Unit price
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A	each	35 tons 110/-
C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade B	each	5 tons 60/-
	Size of load	Single seal Double seal Flat type Flat type
Coated manhole cover and frame to B.S. 497, Grade C, 24" x 18"	each	1 ton 27/- 40/-
Galvanised ditto, 24" x 18"	each	1 ton 40/6 60/-
Coated manhole cover and frame, to B.S. 497, Grade C, 24" x 24"	each	1 ton 38/6 58/6
Galvanised ditto, 24" x 24"	each	1 ton 59/6 89/6

*Subject to plus 2½% on coated, and plus 2½% plus 7½% on galvanised.

MASON

Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.

Blocks scrapped, random sizes	per foot cube	8/11
Add for blocks to dimension sizes	per foot cube	1/1 (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long)	per foot cube	10/-
Templates with sawn beds, sawn one edge, per foot cube		11/6
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads)		38/7

Bath Stone in random blocks

Monk's Park	per foot cube	5/4
St. Aldhelm Box Ground	per foot cube	6/4
Delivered on rail at South Lambeth station.		

Portland Stone in random blocks, average 20 feet

Whitbed	per foot cube	6/1½
Delivered on rail at Nine Elms Station.		

MASON—(continued)

Artificial Stone to B.S. 1217

4½" x 4" Copings and sills	per foot run	2/6
6" x 3" Copings and sills	per foot run	2/3
9" x 3" Copings and sills	per foot run	3/6
9" x 6" Copings and sills	per foot run	6/9
12" x 2" Copings and sills	per foot run	3/3
12" x 3" Copings and sills	per foot run	4/6
12" x 5" Copings and sills	per foot run	7/9
12" x 6" Copings and sills	per foot run	9/-
Cornices according to per foot detail, cube (from)		15/-

SLATER, TILER AND ROOFER

Slates

16" x 10" Best Bangor Slates to B.S. 680	per 1,000 actual	£ s. d.
20" x 10" Ditto	per 1,000 actual	43 0 0
		63 0 0

Tiles

Hand-made sandfaced 10½" x 6½" red roofing tiles	per 1,000	250/-
Machine-made sandfaced best red tiles with continuous nibs, 10½" x 6½"	per 1,000	215/-
Berkshire hand-made red Pantiles, 14½" x 10"	per 100	93/-
Concrete plain tiles, 10½" x 6½"	per 1,000	141/-
Ditto interlocking tiles, 15" x 9"	per 1,000	480/-

Asbestos-cement

*6" corrugated sheets, grey	per yard super	4/7
* Prices are for minimum two-ton loads, and are subject to 2½% discount.		

Felt

Slates or sarking felt to B.S. 747	per yard run	1/3
Roofing felt (1-ply bitumen) to B.S. 747, Part I	per yard sup.	1/8
Bituminous hair felt to B.S. 747, Part II	per roll	47/-
All rolls 25 yards long by 32" wide.		

CARPENTER AND JOINER

Wall boards

1" Imported Fibre board	Up to 5,000 sq. ft.	5,000 to 15,000 sq. ft.
(per 100 sq. ft.)	37/6	36/-
1" Imported Hard-board (per 100 sq. ft.)	46/6	45/-
1½" Imported Hard-board (per 100 sq. ft.)	62/6	61/3

* 1½" Semi compressed asbestos cement flat building sheets, grey	per yard super	1/7½
* 1½" Ditto	per yard super	2/4
* Prices are for orders of 2 tons and over. Subject to 5% trade discount and 1½% discount.		

Sundries

" Sisalkraft " standard grade	per yard sup.	-/6½
" Sisalkraft " subsoil grade	per yard sup.	-/3½

Timber

Softwood for Carpentry (average price)	per std.	£73
Softwood for Joinery (ditto)	per std.	£80
Tongued and Grooved Softwood Flooring (ditto)	per std.	£76
First Quality English Oak (ditto)	per ft. cube	25/-
Teak (ditto)	per ft. cube	45/-

Standard Panelled and Glazed Wood Doors to B.S. 459, Pt. I

Type 4	size 2' 6" x 6' 6" x 1½"	each	43/6
Type 2 x G	size 2' 6" x 6' 6" x 2"	each	49/9
Type 4 x G	size 2' 6" x 6' 6" x 2"	each	55/-
In lots of from 1 to 11 inclusive.			

Standard E.J.M.A. Wood Windows

INP 26	size 2' 6" x 1' 5½"	each	25/4
4V 36	size 3' 6" x 7' 10"	each	113/9
IV 40	size 4' 0" x 2' 24"	each	33/1
3T 46	size 4' 6" x 5' 11½"	each	116/8
4T 50	size 5' 0" x 7' 10"	each	139/8

Standard E.J.M.A. Kitchen Units

No. 1	size 3' 0" x 3' 6" x 1' 7"	each	191/8
No. 2	size 3' 0" x 3' 6" x 1' 7"	each	128/8
No. 4	size 3' 0" x 1' 9" x 1' 7"	each	115/10
No. 5	size 3' 10" x 1' 9" x 1' 7"	each	99/6
No. 7	size 6' 6" x 1' 9" x 1' 7"	each	186/-

STEEL AND IRONWORKER

Basic price for rolled steel joist sections, 5" x 4½" to 16" x 6" in 10 ft. to 50 ft. lengths...		£	s.	d.
4½" x 4" ex mills	per ton	20	3	6
Extra for sizes:—				
9" x 7"	.....	.....	.....	.....
6" x 3"	.....	.....	.....	.....
3½" x 3½", 4" x 4", 5" x 3", 10" x 8", 12" x 8", 14" x 8", 16" x 8", 18" x 6", 18" x 7", 18" x 8", 20" x 6½", 20" x 7½"	.....	.....	.....	.....
5" x 2½", 22" x 7"	.....	.....	.....	.....
4" x 2½", 4" x 3", 24" x 7½"	.....	.....	.....	.....
3" x 3"	.....	.....	.....	.....
4½" x 1½"	.....	.....	.....	.....
4" x 1½"	.....	.....	.....	.....
3" x 1½"	.....	.....	.....	.....
Basic price for angles	.....	ex mills	per ton	19 13 6
" " " tees	.....	" "	" "	20 13 6
" " " solid steel columns	.....	" "	" "	21 13 6

All delivered Station or Siding.

PLASTERER

Plaster and Cement

	1-ton loads	6-ton loads	
Thistle (browning) to B.S. 1191, Class B	per ton 118/6	80/6	} ex Works, Kent.
Gypstone to B.S. 1191, Class B	per ton 80/6	80/6	
Paristone (haired) to B.S. 1191, Class B	per ton 83/-	80/6	
Ditto (unhaired)	per ton 80/6	80/6	
Sirapite (coarse) to B.S. 1191, Class C	per ton 115/6	96/3	
Ditto (fine) to B.S. 1191, Class C	per ton 123/6	104/3	
Keene's Pink to B.S. 1191, Class D	per ton 161/9		
Keene's White to B.S. 1191, Class D	per ton 166/9		
Cullamix (Tyrolean Finish), 1-ton lots and upwards	per ton from 154/6 to 188/-		

Sundries

Sharp washed sand to B.S. 1198	per yard cube	16/4
Cow Hair	per cwt.	84/6
Expanded metal lathing, 9' 0" x 2' 0" x ½"	per sheet	5/-
mesh x 26 gauge	25-75 yards	150-300 yards
1" Plasterboard (base board)	per yard super	2/2
Galvanized lath nails	per cwt.	89/3
Hessian Sorim cloth in 100-yard rolls, 3½" wide	per roll	6/3

Wall Tiles

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

Standard quality white glazed 6" x 6" x ½"	per yard super	8/6
Coloured enamelled bright glazed, 6" x 6" x ½"	per yard super	14/3
Eggshell glazed 6" x 6" x ½"	per yard super	15/-

PLUMBER

Lead and Copper

3½ lb. and upwards milled sheet lead in quantities of 5 cwts. to 1 ton in sheets to B.S. 1178	per cwt.	115/9
Allowance for old lead delivered to merchant or manufacturer	per cwt.	84/9
Hot rolled copper sheeting in 5-cwt. lots (4' x 2' sheets), to B.S. 899	16 wire gauge	per lb. 1/10½
Ditto	24 wire gauge	per lb. 2/0½

Cast Iron Goods

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

Rainwater Goods (painted or unpainted)	Plus 72½%
Soil goods (coated or uncoated)	Plus 72½%

Mild Steel Rainwater Goods

Gutters	(under 100 lengths)	Standard List
Pipes and Fittings	(" ")	Less 25%

Asbestos-Cement Rainwater Goods

The following prices are subject to 12½% trade discount and 1½% discount.

Orders over £30 are subject to 17½% trade discount and 1½% discount.

PLUMBER—(continued)

Rainwater Pipes.

Prices are for 6' 0" lengths, but 10' 0" lengths are available in 2", 2½", 3" and 4" diameters at same prices. Short lengths up to 2' 0" are charged as 1 yard. From 2' 0" to 4' 0" charged as 1½ yards. From 4' 0" to 6' 0" charged as 2 yards. Over 6' 0" charged as 10' 0"

Round Pipes	2"	2½"	3"	4"	6"
per yard run	2/4	2/7½	3/2	4/4	9/1

Gutters.

Short lengths of gutter up to 2' 0" charged as 1 yard; from 2' 0" to 4' 0" as 1½ yards, and over 4' 0" as 2 yards.

Half round gutters	3"	4"	4½"	5"	6"	8"
per yard run	1/8	2/-	2/1	2/5½	3/5	4/2½
Ogee gutters per yard run	—	2/5½	2/7½	3/2	3/10½	5/-

INTERNAL PLUMBER

Lead pipe in coils, 5 cwts. and upwards, to B.S. 602	per cwt.	117/-
Lead soil pipe	per cwt.	120/-
Drawn lead traps with brass screw eye, 6 lb., to B.S. 504	1"	11" 11" 9"

S. trap	each	4/10	5/7	6/11	10/-
P. trap	each	4/3	4/7	5/9	8/1
Extra for 3" deep seal "S" trap	each	1/2	1/4	1/7	1/11
Extra for 3" deep seal "P" trap	each	-9	1/-	1/-	1/4

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

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

Tubes:	1" to 4"	Fittings:	
Class A	43½%	Lightweight	17½%
" B	36½%	Heavyweight	10%
Galvanized Class A	22½%		
" " B	16½%		
Flanges:			
Lightweight (Table D)	4½%	2½"	3"
Heavyweight (Table E)	Plus 14½%	less 27½%	51½%

GLAZIER

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

18 oz.	per foot super	4½d.
24 oz.	per foot super	5½d.
32 oz.	per foot super	9½d.

Polished Plate glass, ordinary substance, approximately 1", to B.S. 952, Section A.

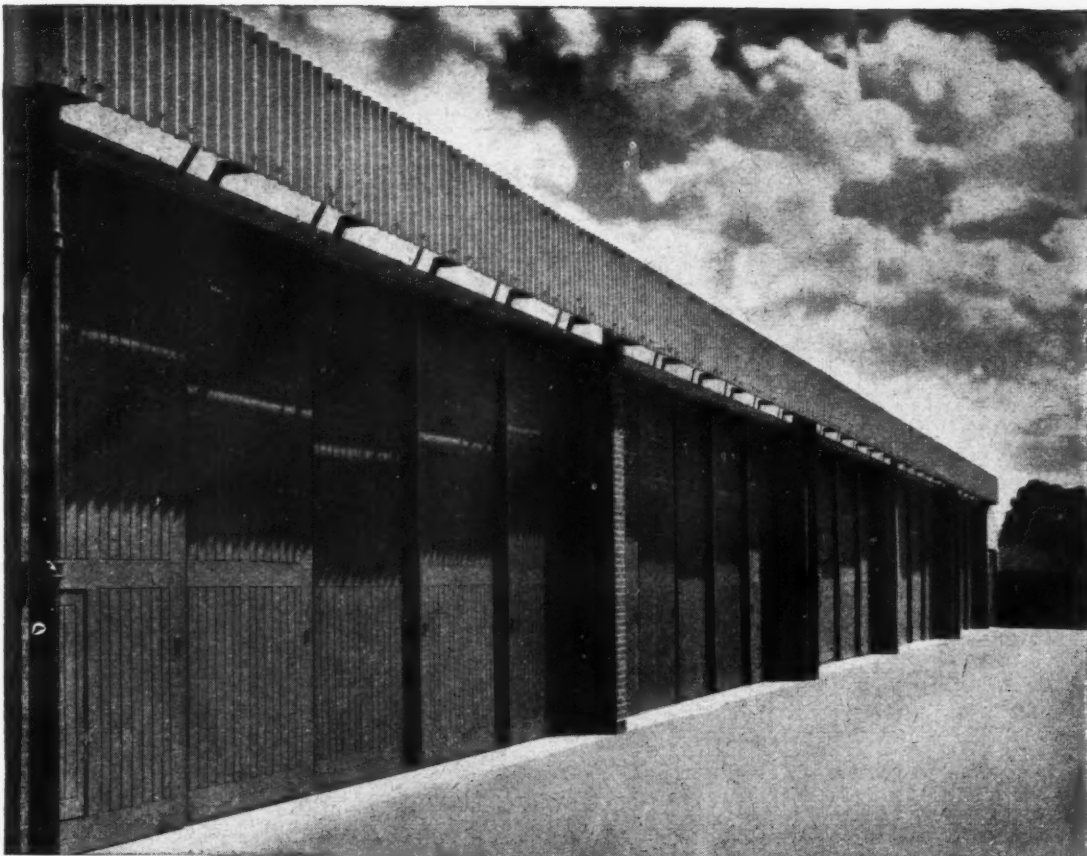
In plates not exceeding:	Glazing quality	Selected glazing quality	Silvering quality
2 ft. super	per foot super 2/8	2/10	3/4
3 ft. super	per foot super 3/-	3/5	4/1
5 ft. super	per foot super 3/2	3/10	4/7
*45 ft. super	per foot super 3/9	4/1	5/7
*100 ft. super	per foot super 4/5	5/7	7/2

* Extra sizes, i.e., plates exceeding 100 ft. super or 160 in. long, or 96 in. wide, at higher prices.

1" figured rolled and cathedral, to B.S. 952, Section B—untinted	per foot super	7½d.
1" or 1½" rolled plate, " "	per foot super	8½d.
1" or 1½" rough cast, " "	per foot super	8½d.
1" Georgian wired cast, " "	per foot super	10d.
1" Georgian wired polished plate, " "	per foot super	3/10d.
1" wired arctic, " "	per foot super	

PAINTER

White ceiling distemper	per cwt.	24/6
Washable distemper	per cwt. from	82/-
Ready mixed white lead paint (best), semi-gloss, per 32 lb.	per gallon	43/6
Aluminium paint (best quality)	per gallon	29/-
White enamel paint	per gallon	39/-
Oil stain (scumble)	per lb.	3/4d.
Varnish (outside quality), copal oak	per gallon	28/-
" " " general oak	per gallon	24/-



Straight-run Sliding Door Gear

Photographs of a recent job at Mulliners Motor Body Works, Birmingham. Architects: Harry Weedon & Partners. They show: ABOVE, exterior view which gives some idea of the size of the door; RIGHT, interior view which indicates length of the opening and the number of doors involved; BELOW, close-up showing the triple run of track.



This is a typical straight-run installation. Sometimes doors are required to slide round the corner or slide and fold. Every enquiry is carefully studied and our Drawing Office service and trained technical representatives are freely available to ensure that the most suitable gear is chosen at the planning stage. *Catalogue No. 48* contains diagrams, photographs and complete specification data.

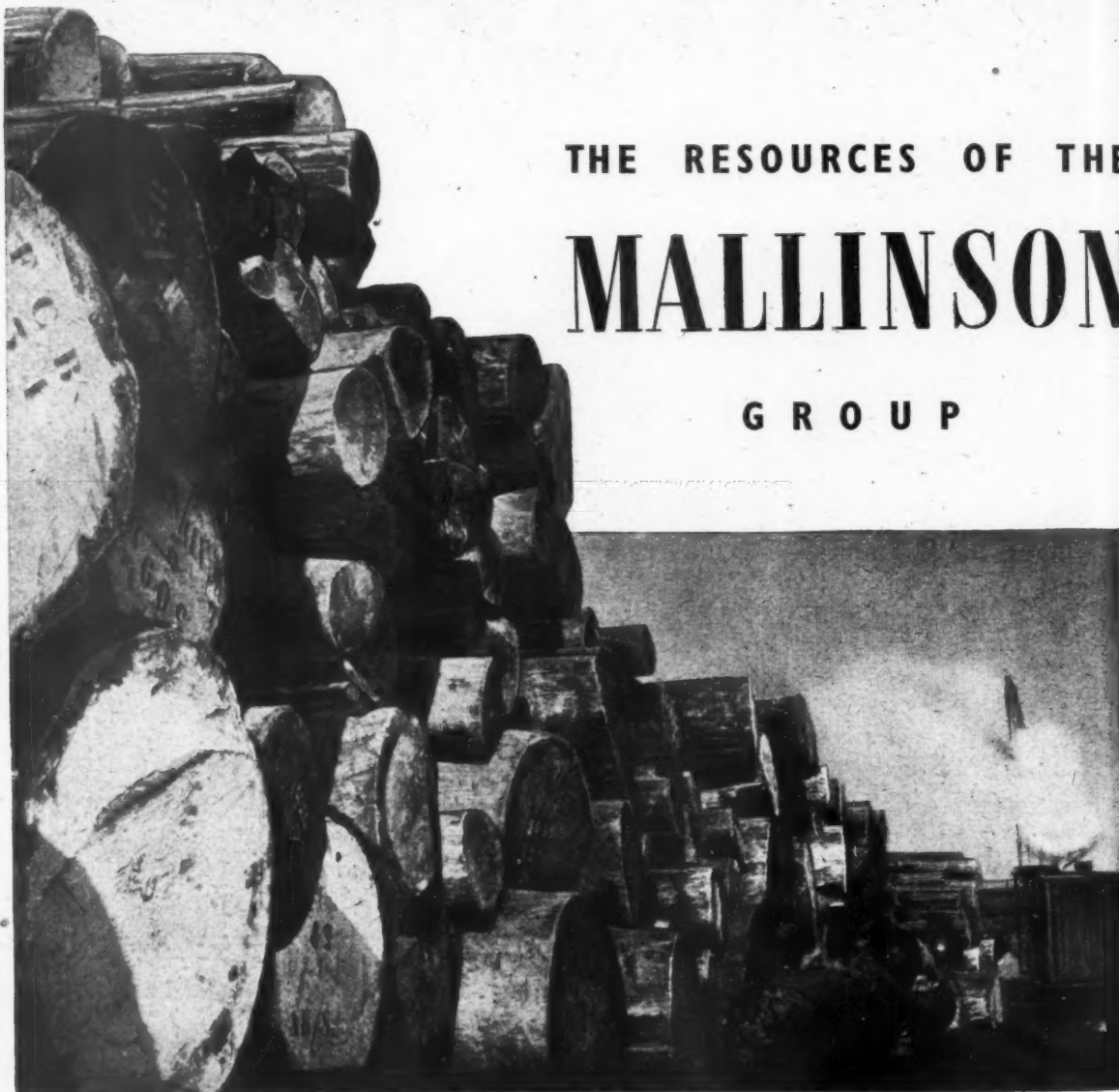
Henderson

SLIDING DOOR GEAR



for any Door, Partition or Window that slides or folds

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TECHNICAL SECTION

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

INFORMATION CENTRE

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18.37 construction: theory MINING SUBSIDENCE

Report on Mining Subsidence and its Effect on Structures. (Institution of Structural Engineers, Sept., 1949, 30 pp. 5s.)

Effect of subsidence on structures in coal mining areas. Precautions to be taken.

This latest technical report in the series published by the Institution of Structural Engineers concerns the architect and the engineer whenever their structures are to be erected in mining areas. The structural effects of subsidence are discussed and illustrated by sketches, and vertical and horizontal movements indicated by mathematical expressions. A strong plea is made for collecting information from various Government Departments before designing such structures for areas liable to mining subsidence, about the geological formation and the underground workings. Simply supported structures are recommended in preference to statically indeterminate systems which are sensitive to movement of their supports. An appendix deals with the existing law relating to damage caused by subsidence, to the right to compensation, to making good damages to buildings, etc.

20.155 construction: complete structures BUILDING IN PRESTRESSED R.C.

A Multi-Storey Building in Prestressed Concrete, Edinburgh. (The Builder, Oct. 14, 1949, pp. 483-484, and other journals.)

A 3-storey building 220 ft. long by 120 ft. wide, with the two upper floors designed for 3 cwt. per square foot superimposed load.

This building is now under construction by the Ministry of Works, for HM

Stationery Office at Edinburgh. A 60 per cent. saving of steel is claimed compared with the tonnage required for a steel framed structure. The cylindrical columns are of normal reinforced concrete, not prestressed, at 20 ft. by 30 ft. spacing throughout. This regular plan provided best opportunity for repetition work in prestressed main beams (about 200, at 5.5 tons each) and floor beams (about 750, at 14 tons each), of 20 ft. and 30 ft. span respectively. All these are fabricated by the Magnel post-tensioning method, while the Hoyer system of pre-tensioning is used for the secondary roof beams.

20.156 construction: complete structures SUSPENSION BRIDGE

The Budapest Suspension Bridge. (Engineering, Nov. 25, 1949, p. 565)

Chain suspension bridge over the Danube, destroyed in 1945, rebuilt as a replica of the original British design.

After a century's service, W. T. Clark's bridge, admired for its grace and beauty, had been destroyed by the retreating German armies at the end of the war. On November 20, 1949, the reconstructed bridge was officially opened. Much of the original steelwork was salvaged from the river bed and used again.

22.39 sound insulation and acoustics SOUND ABSORPTION

Sound Absorbing Materials. C. Zwicker and C. W. Kosten. (Cleaver-Hume Press, Ltd. 22s. 6d.)

Theory of absorption by homogeneous layers, by mixed homogeneous porous and elastic layers; measurements and results; resonators. 94 Figs. Good engineers' text; not an architects' book.

23.119 heating and ventilation THERMAL INSULATION

Thermal Insulation in Building. A. G. Sutton. (JRIBA Aug., 1949; JRIBA Sept., 1949).

Survey of recent trends in thermal insulation of buildings, with particular reference to its economic value.

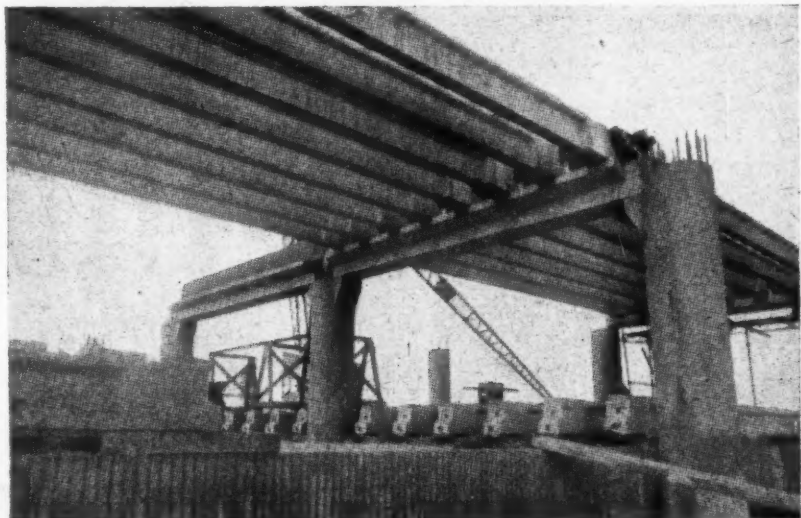
Although many architects are already fully aware of the importance of insulation in building, there are also many who have not yet fully realized the advantages to be gained and the savings in heating costs to be made. Even more important, they may not have available the facts and figures necessary to prove to their clients that money judiciously invested in insulation is money which will pay high and certain dividends.

These articles, which are clear, concise and based on modern research, are just what the architect needs to persuade himself that insulation is worth while, if he has not already done so, and, if he has, then what he needs to persuade his clients.

Under the first heading, "The Importance of Insulation," the author defines insulation and gives examples of several different types: fibreboard and wood wool slabs, corkboard, asbestos, mineral wools, foils and lightweight blocks. Sections through various types of wall, floor and ceiling are shown, with a note of the U values of each. He then stresses the importance of insulation with regard to fuel saving and comfort, and mentions in passing the extraordinarily limited area of a normal British house which is habitable in really cold weather.

As regards cost, he quotes figures:—Walls: porous materials instead of dense, no extra. Upper floor only of small house: £5 to £12 according to material. £2 extra to finish ceiling with fibreboard in place of plasterboard. The capital cost of insulating a new corrugated asbestos factory roof may be offset against reduced cost of heating plant, whilst providing annual saving in fuel. Advantages additional to fuel saving, increased comfort and production, absence of pattern staining, etc., are pointed out; as also is possibly increased fire risk. It could, however, be properly pointed out as an advantage that some types of insulation also reduce the fire risk appreciably.

Conductivity, resistance and transmittance and their relationship are then explained, and the standards laid down by the Egerton Report are quoted: namely, $U = 0.15$ for living room walls; $U = 0.20$ for other external walls; $U = 0.15$ for ground floor; $U = 0.20$



First floor beams in position. See 20.155.

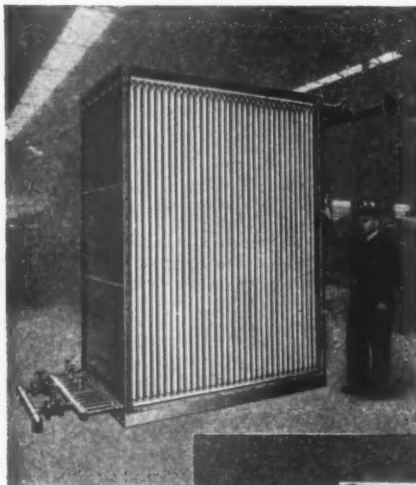
PLANNED HEATING AND VENTILATING

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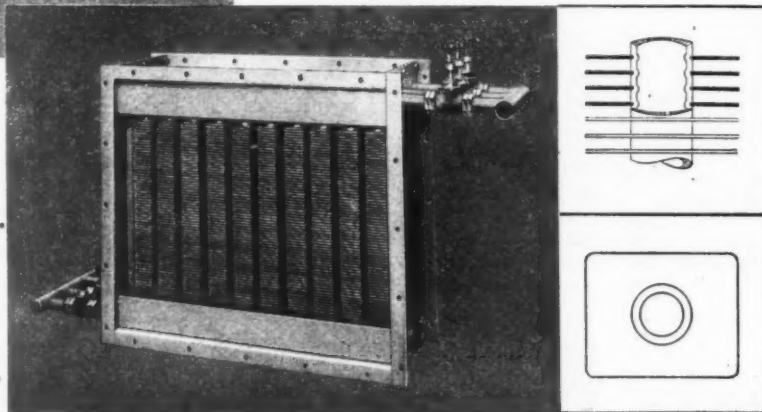
of heating is used, it is desirable to specify Weldex All-Steel All-Welded Heater Batteries as they provide unlimited scope where specialist design and production is required. Weldex Batteries are produced for operation either by steam or hot water. In the Weldex Heater, the medium is passed through the tubes whilst the air is passed over the tubes. The tubes may be plain or gilled but as gilling reduces the over-all cost by some 60 per cent. to 70 per cent., this type of battery is most called for. It is only when very special precautions have to be taken regarding dust and dirt that the plain tube heater is specified. All Weldex Heater Batteries are specially designed to suit the particular conditions, and to enable us to submit tender the following information is required:—

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4. Whether any special humidity conditions exist, or are required to exist after heating.
5. Heating Medium.
 - (a) In the case of steam its pressure and conditions, i.e., saturated or superheated.
 - (b) In the case of hot water, the flow and return temperature.



Illustrated are (above) a plain tube heater and (right) a gilled tube heater.

The diagrams illustrate how, in the case of gilled tubes, perfectly flat smooth gills are embedded into the walls of the tube, resulting in great mechanical strength, a high incidence of heat transmission and permanent efficiency.



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for upper floor, ceiling and roof. The author suggests 0.20 for everything as an economically attained standard. He then suggests means of attaining these. In general, his suggestions are: Outer wall, cavity construction, inner leaf of lightweight blocks, $U = 0.20$. Ground floor, solid construction, $U = 0.20$ for base concrete or screeded finish, 0.15 for wood blocks, as against 0.40 for well ventilated wood floor, or 0.35 if covered. For roof, of ordinary construction, tiles, felt, plaster ceiling, 0.43 is given; this can easily be reduced, by inclusion of insulation at ceiling level, to 0.20 or less. And here, the author introduces a most important point. To be effective, insulation must be well carried out, without heat leakage paths, and proper supervision by the architect is essential to this end. The author then quotes figures from the BRS experiments, giving annual savings possible with different degrees of insulation, an annual saving of no less than 24.4 cwt. for background heating alone of a small house being possible between a badly insulated—pre-war standard—and a really well insulated house. This represents, at present prices, a saving of at least £5. He then gives details of insulation of various examples of modern small house construction, miscalled low-cost housing.

The advantages, when intermittent heating is used, of a low thermal capacity lining are given. They enable the inner surface of the wall rapidly to achieve a temperature approaching that of the air, so reducing radiation losses from bodies in the room.

The advantages of double glazing, in combating heat losses and draughts is discussed. The author suggests that the benefits and economics of double glazing in this country should be investigated further. A good fit is necessary, and weather stripping sometimes worth while.

Lagging of cisterns and pipes is considered most necessary, both to avoid frost damage and heat loss in hot water systems. In the latter case, the heat loss from an unlagged 30 gallon cylinder is given as 265,000 BThUs

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

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BLOCK LETTERS Please

per week. This represents $\frac{1}{2}$ cwt. of coke per week. Lagging, of 75 per cent. efficiency, will save nearly a ton of coke, costing £4 a year; the lagging will cost less than this.

In the second part of this article, the author considers the insulation of factory buildings. Perhaps this is an even more fertile field for fuel saving. The insulated factory may require less than half the fuel to heat it than the uninsulated, and in the case of a new building, the cost of insulation may be less than that saved on the heating plant. Half-inch fibreboard lining to corrugated steel or asbestos cement roofing will reduce "U" from 1.5 and 1.4 respectively to 0.32, representing some $6\frac{1}{2}$ tons of fuel per 1,000 ft. super of floor space saved annually. Cost of this at £4 per ton, about £26. Cost of fibreboard lining at 1s. 6d. foot super fixed is £75. Cost is written off in less than three years; all future savings are profit. An interesting example is given of aluminium insulation in the Northern Aluminium Company's works. Insulation is corrugated aluminium foil, supported by corrugated aluminium sheeting 18 mil. thick, fixed to purlins by cranked hook bolts. Reduction of fuel for space heating for 99,000 ft. super from October to March was 625 tons. Cost of insulation was £8,041; annual saving, £2,432. The insulation will pay for itself in three years.

Various methods of insulation are shown, including fibreboard or wood wool slabs above or below purlins; the same, used as permanent shuttering to RC roofing; insulating board (e.g., corkboard) used over precast RC or hollow tile flooring, before application of the water-proofing. Some materials have considerable incidental advantage of sound absorption. Even where there is a considerable area of glass in a roof, insulation is still worth while, as U for glass = 1.00; for corrugated steel, 1.5. Although largest heat loss occurs through the roof, it will normally be worth while also to insulate the walls, including large doors. To avoid excessive loss through air change, these doors should be easy to operate or they will be left open. It is preferable if they do not open into the main factory space. A brick outer wall with light block inner wall is suitable for factory walls or sheeting with board or other lining. It is not yet considered practicable to use double glazing for large areas of window in factories, but windows can be made to fit properly.

In all, this article should prove valuable to all who take interest in the saving of fuel.

24.126 lighting COLOUR PRACTICE

Colour Harmony Manual. Egbert Jacobson, W. C. Granville and C. E. Fross. (Container Corporation of America, 1948, available 1949. \$113.38.)

New presentation of Ostwald colour system, for practical use. Excellent.

This is a valuable practitioners' publication—unfortunately at a price. It is contained in a magnificent zippered leather case in the best manner of American packaging. This is the third edition, revised in the light of field experience of earlier editions. There are 37 charts, with 943 colour chips in 30 hues (rather more than the orthodox 24) and 9 grey steps instead of 8.

The chips are splendid. They are made by applying a matt pigmented lacquer of each colour to one side of a clear plastic, thus producing matt and polished surfaces on one chip. All are removable for study and assembly on work charts, which are also provided.

A book of instructions accompanies the Manual.

It is understood that over a thousand copies of earlier editions have been sold. One wonders how many people in this country have started to rationalize their use of colour.

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

3011 T AND C P ACT

Q A pamphlet issued by the Central Land Board dated October 25, 1948, called "House. 1." under "Advice to Buyers" paragraph 3 and 5, states:—

"3. Do not buy as part of the purchase price of the land the seller's claim on the £300 million fund. The right to a payment from the fund is not yet established and its amount cannot yet be known. The amount will in any case be related to the circumstances of the owner of the land on July 1, 1948, and not to those of any new buyer. A buyer of such a claim is therefore buying a risk at a 'certainty' price."

"5. If you are to pay the development charge (and, unless the seller is willing to pay it, you will have to do so) you should never pay building value for the land. If you do, you will be charged the building value over again in your development charge. You should pay what is known as existing use value and no more. A rough guide to existing use value of land is its value to use it as it is actually being used (as, for example, agricultural allotment, or garden land) with a prohibition against erecting any building on it except for agriculture."

The last paragraph but one reads:—"In normal cases, therefore, where an owner is not prepared to sell at a price related to method A, B or C (not copied herewith) the Central Land Board will have to consider the various compulsory purchase powers in the Act."

On this advice from the Central Land Board an owner not being willing to sell or lease on existing use value to my client, I asked for a compulsory purchase of a plot of land for the building of a detached house. An enquiry was held by an Inspector of the Ministry of Town and Country Planning on August 30, 1949, but from correspondence it has evidently not yet been confirmed by the Minister.

Have you any experience of the length of time before the prospective plot owner gets possession of his plot and how many successful claims have been made? Is there any method of urging the matter since I am considering advising my client to pay the full building value of the land and the development charge?

A It is a pity to give up after having gone so far with the Central Land Board. About eight compulsory purchase orders have been made by the Board in circumstances such as these. I think if the Board were pressed for a decision—possibly getting the client to write to his MP about the delay—a decision would be obtained quite soon. Until the client knows that the decision is adverse it seems a pity to pay the inflated price asked by the vendor of the land.

Announcements

Mr. William F. Hutchinson, manager of the Manchester works of Redpath Brown & Co. Ltd., structural engineers, has been appointed a director of the company. Mr. Hutchinson joined the staff of the company in 1911 as a designer and was appointed manager of the Manchester works in 1943.

Minor adjustments have now been made to the advertisement control regulations under the Town and Country Planning (Scotland) Act, and copies of the amendment regulations and an explanatory circular are being distributed to local planning authorities. The new regulations came into force on December 1. The amendments clear up points of dubiety on the authorization of advertisement displays; give greater freedom of advertising for political events, and for building contractors; and define more clearly the operation of the Act in respect of youth hostels and caravan sites in areas of special advertisement control.

The London office of the Copper Development Association, at Grand Buildings, Trafalgar Square, London, W.C.2, has been transferred to the Association's headquarters, and all communications should now be addressed to the Association at Kendals Hall, Radlett, Herts. (tel.: Radlett 5616).

Messrs. P. J. Westwood & Sons, F.R.I.B.A., and Mr. J. E. K. Harrison, F.R.I.B.A., have amalgamated their practices and will, in future, practise as Westwood, Sons & Harrison at their present address, 3, Raymond Buildings, Grays Inn, W.C.1. (tel.: Chancery 8667 and Holborn 5394) and at Nutfield Heath Road, Weybridge, Surrey (Weybridge 182).

Mr. Sergei Kadleigh, A.R.I.B.A., is removing from 63, Abingdon Villas, W.8, to 29, Sackville Street, W.1, on January 9.

Lionel H. Fewster & Partners, architects and surveyors, have removed their branch office from 6a, South Place, Worthing, to 6, Liverpool Terrace, Worthing (tel.: Worthing 6826).

Mr. E. C. Scherrer, F.R.I.B.A., and Mr. J. K. Hicks, F.R.I.B.A., practising as Scherrer and Hicks at 19, Cavendish Square, W.1., announce that they have taken into partnership Mr. H. R. Hayhoe, A.R.I.B.A. The style of the firm will remain unaltered.

Mr. E. Howard Sadler, A.R.I.B.A., A.M.I.STRUCT.E., has commenced in private practice at the temporary address, 14, Hadley Road, New Barnet, Herts. (tel.: Barnet 2191). His partnership with Mr. Edward Armstrong, F.R.I.B.A., of 19, Manchester Square, W.1, has terminated by mutual agreement.

Courtenay Theobald and Deane Skurray are terminating their partnership by mutual agreement on December 31. Deane Skurray will carry on practice at 116, Broad Street, Reading. Courtenay Theobald, B.A., F.R.I.B.A., will join Maxwell Ayrton, F.R.I.B.A., and J. A. Lynch, A.I.A.A., in forming a partnership which will practise as Maxwell Ayrton and Partners, with offices temporarily at 9, Church Row, Hampstead, N.W.3.

Mr. T. S. Dulake, F.R.I.C.S., will give an address on "Practical Points on Rating arising under the Local Government Act, 1948," to members of the Chartered Auctioneers' and Estate Agents' Institute at 29, Lincoln's Inn Fields, London, W.C.2, on Thursday, January 5, at 6 p.m.

Mr. J. Konrad, F.R.I.B.A., A.M.T.P.I., architect, has changed his office address to 112, Park Avenue, Hull (tel.: Hull 18744), and will be pleased to receive trade catalogues, etc., at that address.

Pilkington Bros. Ltd. announce that copies of the 16 mm. sound film about the properties of Armourplate and Armour-light "toughened" types of glass and the

process involved in their manufacture are available on loan upon application to: Pilkington Brothers Ltd., Publicity Department, Head Office, St. Helens, Lancashire (tel.: St. Helens 4001), or the West End office and showrooms, Selwyn House, Cleveland Row, St. James's, S.W.1 (tel. Whitehall 5672-5676), or to any of the firm's depots throughout the country.

The Board of Trade has made the Plywood Prices (No. 2) Order, 1949, which will come into force on January 2, 1950. The Order replaces the Plywood Prices Order, 1949, and the Plywood Prices (Amendment) Order, 1949, and provides maximum prices for some descriptions of plywood not covered by the previous Orders. The principal changes are that maximum prices are now provided for Polish pine and Russian alder and birch plywood, and for additional descriptions of Chilean pine and French gabbon plywood, and imported blackboard. Copies of the Order (S.I. 1949 No. 2382) is obtainable, price 6d., from the sales offices of H.M. Stationery Office.

Buildings Illustrated

Reception Centre, Greenwich Metalworks, Messrs. G. A. Harvey & Co. (London) Ltd. (Pages 13-15.) Architect: Ernst Pollak. General contractor: F. W. Clifford Ltd. Offices at Weymouth Street. Architect: Ernst Pollak. General contractor: Russell Bros. (Paddington) Ltd. Sub-contractors: Electrical fittings, Messrs. Amy; fibrous plaster work, C. E. Pinn Ltd.

Correction

On December 22 we published a correction to an article on Housing at Sunbury-on-Thames, which appeared on December 8. This correction wrongly implied that the British Aluminium Co. Ltd. was merged with the Metals Division of ICI.

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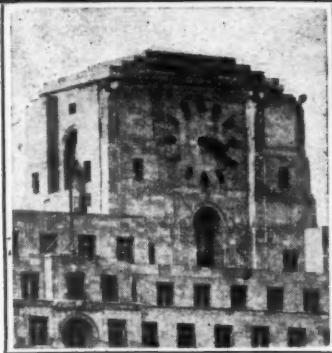
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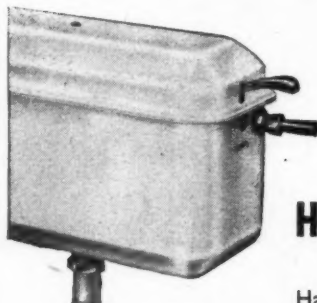
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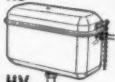
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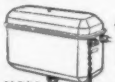
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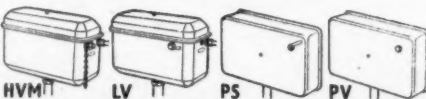
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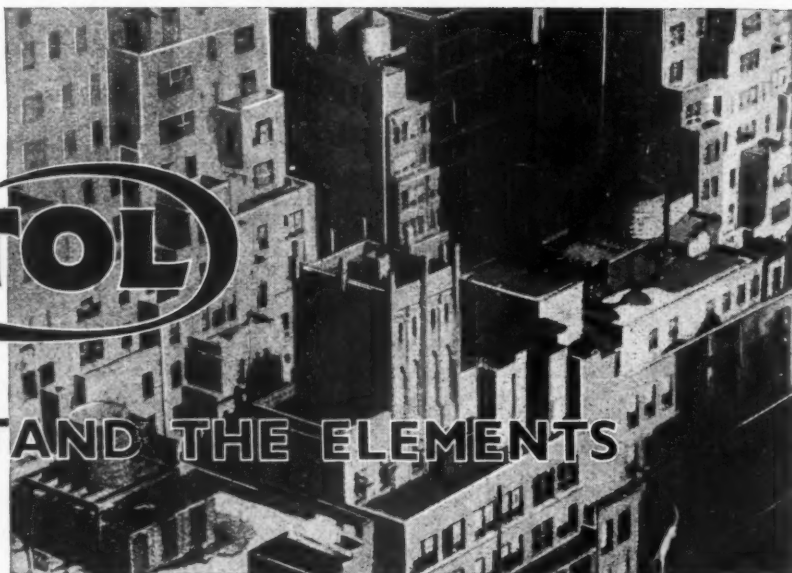
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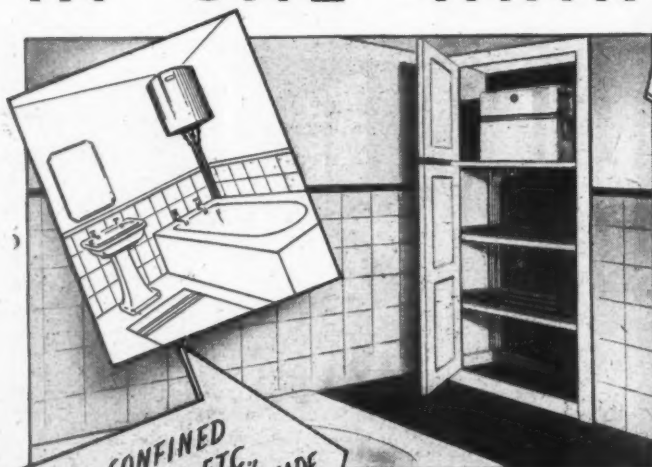
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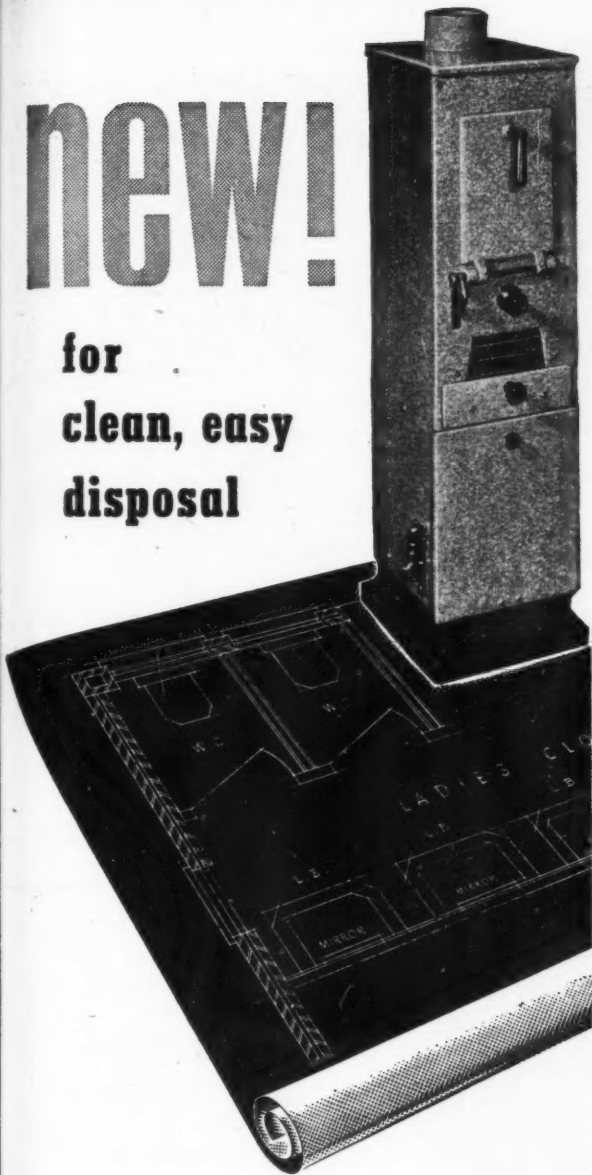
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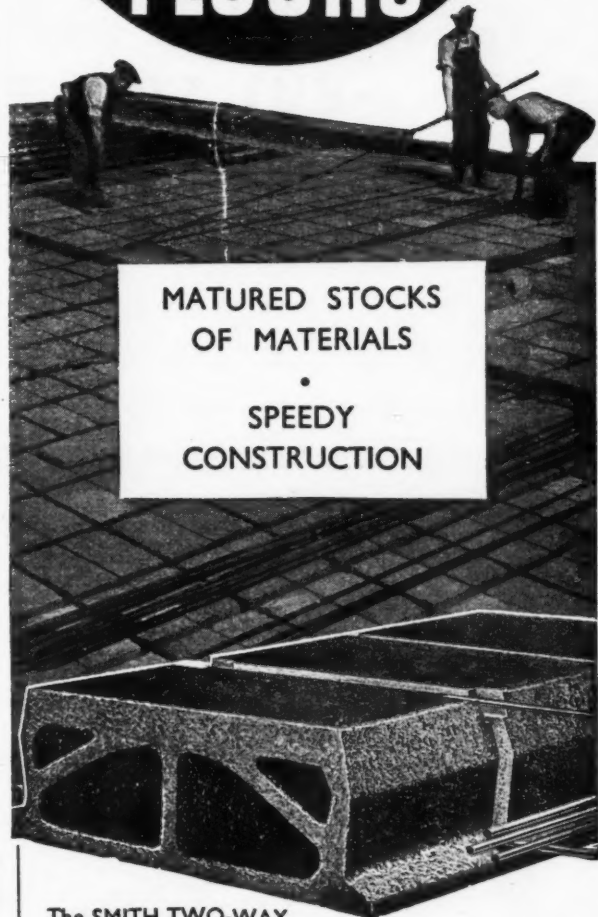
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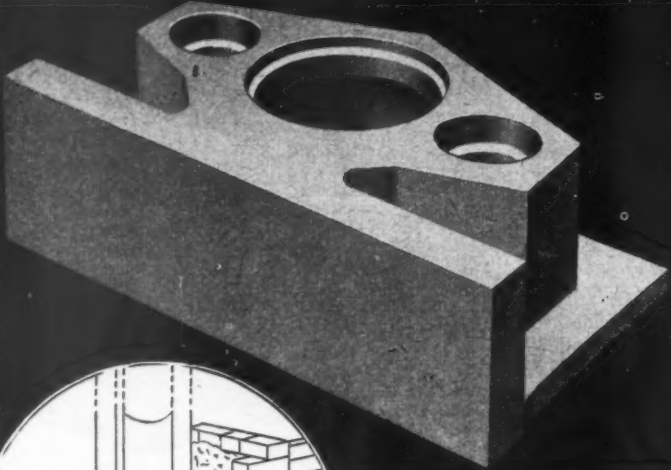
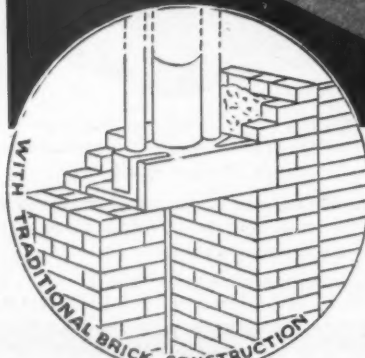
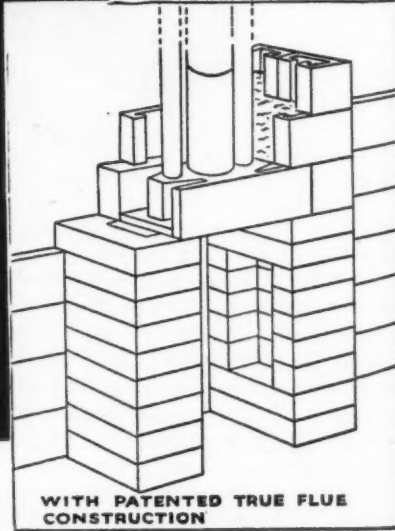
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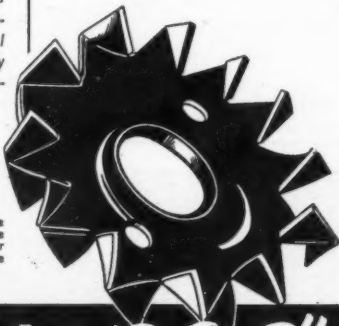
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TIMBER CONNECTORS
ARE SIMPLE TO
USE

1 While the members are held temporarily in place by nails, a bolt hole is bored through the assembly.

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3 The members are then drawn together by means of the bolt until the projecting teeth of the metal plates are completely embedded in each contacting timber surface.

'Bulldog' Timber connectors are also made with teeth on one side only for timber to steel joints, or for portable and demountable timber buildings.



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18

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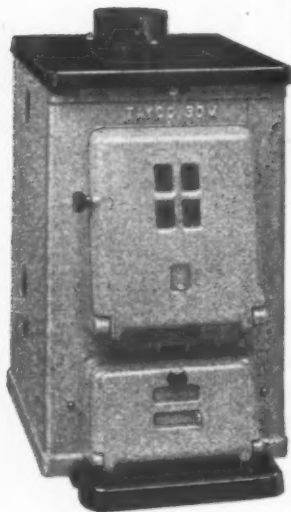
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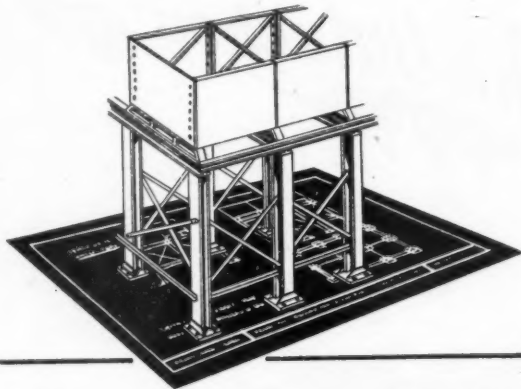
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CLASSIFIED ADVERTISEMENTS

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

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

Available only to applicants excepted from the Control of Engagement Order, 1947.

Public and Official Announcement

2s. per inch; each additional line, 2s.

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

MINISTRY OF WORKS.

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

Salary: Architectural Assistants, £300-£525 per annum; Leading Architectural Assistants, £500-£625, plus overtime. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a deduction is made in the Provinces.

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

Apply in writing, stating age, nationality, full details of experience and locality preferred, to Chief Architect, W.C.10/T, Ministry of Works, 4th Floor, London, S.W.1. 2055

LONDON COUNTY COUNCIL.

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

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

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2269) 1046

COUNTY BOROUGH OF SOUTH SHIELDS.

APPOINTMENT OF PLANNING ASSISTANTS.

Applications are invited for the permanent appointment of Planning Assistants in the office of the Borough Engineer.

The appointments will be superannuated and salary will be paid up to A.P.T. Grade VI, according to qualifications and experience, in accordance with the N.J.C. Grading decisions.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, South Shields, should be returned to the undersigned not later than Wednesday, the 11th January, 1950.

HAROLD AYREY.

Town Clerk.

Town Hall, South Shields.

14th December, 1949.

2990

BOROUGH OF ILFORD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF TEMPORARY CLERK OF WORKS.

Applications are invited for the position of temporary Clerk of Works, at a wage of 23 11s. 6d. per week inclusive.

Applicants must have had considerable experience in a similar capacity and have a sound knowledge of building construction. Experience of concrete and steel School construction would be considered an advantage.

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

Applications, stating age, qualifications and experience, and whether or not the applicant is, to his knowledge, related to any member of the Council or to the holder of any senior office under the Council, together with the names of three persons to whom reference may be made, should be forwarded in a sealed envelope endorsed "Clerk of Works," to reach the undersigned not later than the 14th January, 1950.

K. F. B. NICHOLLS.

Town Clerk.

Town Hall, Ilford, Essex.

December, 1949.

3007

COUNTY BOROUGH OF SOUTH SHIELDS.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for permanent appointments as Architectural Assistants in the Borough Engineer's Department.

The appointments will be superannuated and salary will be paid up to A.P.T. Grade V, according to qualifications and experience, in accordance with the N.J.C. Grading decisions.

Applications, in forms to be obtained from the Borough Engineer, Town Hall, South Shields, should be returned not later than Wednesday, the 11th January, 1950.

HAROLD AYREY.

Town Clerk.

Town Hall, South Shields.

14th December, 1949.

2991

COUNTY BOROUGH OF SOUTH SHIELDS.

APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the position of Quantity Surveyor in the office of the Borough Engineer.

The position is superannuated and will carry a salary in accordance with A.P.T. Grade VIII (£685 to £760 per annum). Housing accommodation will be made available to the successful applicant.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, South Shields, should be returned not later than Wednesday, the 11th January, 1950.

HAROLD AYREY.

Town Clerk.

Town Hall, South Shields.

14th December, 1949.

2999

GLOUCESTERSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT ARCHITECT (Section Leader) on A.P. and T. Grade VIII (£685-£760), in the above Department.

The successful applicant will be in charge of a section of the County and will be responsible for all work carried out in that section.

Applicants should be Associate Members of the R.I.B.A., and have wide experience in projects usually dealt with by a County Council, i.e., Education, Police, etc.

Appointment will be subject to the Local Government Superannuation Act, 1937, and candidates before appointment will be required to pass a medical examination.

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

Applications, stating (a) name and address, (b) married or single, (c) age, (d) qualifications, (e) present position, salary and date of appointment, (f) previous positions with dates and salaries, (g) particulars of experience and accompanied by copies of two recent testimonials, together with names and addresses of two persons to whom reference may be made, should be sent to S. E. Urwin, F.R.I.B.A., County Architect, Shire Hall, Gloucester, not later than Thursday, 5th January, 1950.

GUY H. DAVIS.

Clerk of the County Council.

16th December, 1949.

2983

BRITISH ELECTRICITY AUTHORITY.

EASTERN DIVISION.

Applications are invited for the following posts in the Generation Construction Department at Divisional Headquarters in North London:—

(a) DESIGNER DRAUGHTSMAN (STRUCTURAL).

Commencing salary between £636 and £734 per annum, with an ultimate maximum salary of £767 per annum. N.J.B. Schedule, Class J, Grades 7 to 5.

(b) GRADE I DRAUGHTSMEN (STRUCTURAL).

Commencing salary range £518-£636 per annum N.J.B. Schedule, Class J, Grades 5a to 7.

The above salary ranges are inclusive of 5 per cent. London allowance.

Applicants should have had experience in the design of structural steel work and reinforced concrete structures.

Initial salaries will be in accordance with the previous experience and qualifications.

The salaries are in accordance with the scales at present operating; but may be subject to negotiation through the medium of the Joint Board.

The appointments will be superannuable in accordance with the British Electricity Authority and Area Boards Superannuation Scheme.

Applications stating age, experience, and present position, and endorsed with the appointment sought, should be submitted to arrive not later than 6th January, 1950, to the Divisional Controller, British Electricity Authority, Eastern Division, Northmet House, Southgate, N.14.

W. N. C. CLINCH.

Controller.

Northmet House, Southgate, N.14.

2982

RURAL DISTRICT COUNCIL OF HATFIELD.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant on the Staff of the Council's Architect, Mr. J. H. Parker, A.R.I.B.A., at Grade IV of the Administrative, Professional, Technical Division (£480-£525).

Preference will be given to candidates who have passed the Final of the R.I.B.A. or equivalent Examination.

Applications, stating age, present appointment, and full particulars, should be sent to the undersigned by 21st January, 1950.

EDGAR F. CULL.

Clerk to the Council.

16, St. Albans Road, Hatfield, Herts.

3046

CITY AND COUNTY OF THE CITY OF LINCOLN.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, on Grade IV, A.P. and T. Division of the National Scale of Salaries (£480×£15-£525), on the established staff of the City Architect's Department.

Candidates should have passed the Intermediate Examination of the Royal Institute of British Architects, and preferably have a good knowledge and experience of Schools or Housing.

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

Applications, stating age and experience, together with the names of two persons to whom reference may be made, should be delivered to P. F. Burridge, F.R.I.B.A., City Architect, Stamp End, Lincoln, not later than 23rd January, 1950.

Canvassing, either directly or indirectly, will disqualify.

J. HARPER SMITH.

Town Clerk.

Town Clerk's Office, Lincoln.

December, 1949.

3029

HORNCHURCH URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL DRAUGHTSMAN.

Applications are invited for the above-mentioned permanent appointment in the Engineer and Surveyor's Department. Salary (A.P.T., Grade I) £390×£15-£435. Applicants must have had some experience in architectural design and in the preparation of working drawings, etc., and preference will be given to members of the R.I.B.A.

The appointment is terminable by one month's notice in writing on either side, and is subject to the National Joint Council's Conditions of Service, and the Local Government Superannuation Act, 1937, and to medical examination.

Applications, stating age, qualifications and experience, and giving the names of two referees, accompanied by copies of three recent testimonials, should be received by the undersigned not later than Saturday, 14th January, 1950.

F. L. COX.

Clerk of the Council.

Council Offices, Billet Lane.

Hornchurch, Essex.

16th December, 1949.

3023

CAMBRIDGESHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of QUANTITY SURVEYOR, on Grade VII, A.P.T. Division (£635×£25-£710), of the National Scale of Salaries.

Candidates should be experienced in Taking Off, Abstracting and Billing of Bills of Quantities, Specifications, detailed estimates, valuations for interim certificates, and the settlement of final accounts.

Applications, stating age, qualifications, and experience, accompanied by one recent testimonial, and the names and addresses of two referees, should be sent to the Clerk of the County Council, Shire Hall, Cambridge, not later than Wednesday, 18th January, 1950.

The appointment will be subject to one month's notice on either side, and the selected candidate will be required to pass a medical examination.

CHARLES PHYTHIAN.

Clerk of the County Council.

Shire Hall, Cambridge.

17th December, 1949.

3006

ANGLESEY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

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

(a) ONE SENIOR ASSISTANT ARCHITECT. Salary Grade VII, commencing at £635 per annum and rising to £710 per annum. Applicants should be Registered Architects and Members of the Royal Institute of British Architects, with considerable experience in the design of Education Buildings, supervision of technical staff, etc.

(b) ONE ASSISTANT ARCHITECT. Salary Grade IV, commencing at £480 per annum and rising to £525 per annum. Applicants should have had good experience in the preparation of working drawings, and preference will be given to applicants who have passed the Intermediate Examination of the R.I.B.A.

(c) ONE ARCHITECTURAL ASSISTANT. Salary Grade III, commencing at £450 per annum and rising to £495 per annum. Applicants should have had good architectural training and be good draughtsmen.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and will be subject to three months' notice on either side for the Grade VII appointment, and one month's notice on either side for the Grades III and IV appointments. Candidates called for interview will be required to undergo a medical examination by the County Medical Officer.

Further particulars regarding the appointments may be obtained from the County Architect, N. Sq. Johnson, A.R.I.B.A., A.M.T.P.I., County Architect's Department, Shire Hall, Llangefni.

Applications, stating age, training, experience, qualifications, past and present appointments, names of two referees, and accompanied by a copy of one recent testimonial, are to be sent so as to reach the undersigned not later than Monday, the 30th January, 1950.

WILLIAM JONES.

Clerk of the County Council.

Shire Hall, Llangefni, Anglesey.

24th December, 1949.

3052

STAFFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECTS' DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL STAFF.
Applications are invited for the above on A.P.T. salary Grades I-VIII, ranging from £380-£760 per annum, according to experience and qualifications.
The appointments will be subject to the Scheme of Conditions of Service of the National Joint Government Superannuation Act, 1937.
Applications, giving full details of experience and qualifications, age, etc., together with three recent testimonials, should be delivered to the County Architect, Martin Street, Stafford, within two weeks of the appearance of this advertisement.

Applications must disclose whether or not they are related to any member or senior officer of the Council. Canvassing will be a disqualification.

T. H. EVANS,
Clerk of the County Council.
County Buildings, Stafford. 2992

CARDIGANSHIRE COUNTY COUNCIL.
Applications are invited for the following appointments in the County Architect's Department, Aberystwyth:—

- (a) QUANTITY SURVEYOR. A.P.T., Grade VIII.
(b) ARCHITECTURAL ASSISTANT. A.P.T., Grade VI.
(c) ARCHITECTURAL ASSISTANT. A.P.T., Grade V.

Applicants for (a) should have experience in taking off, abstracting, billing, measuring up and settling final accounts for school buildings, and should be an Associate R.I.C.S. (Quantities).

Applicants for (b) should have experience in the preparation of general and specialist specifications and in the preparation of Bills of Quantities, measuring up work, estimating and valuing, and the preparation of small water and sewerage schemes. Preference will be given to applicants with qualification of the R.I.C.S.

Applicants for (c) should have experience in the design and construction of post-war schools, and preference will be given to applicants with R.I.B.A. qualifications.

The Council is unable to provide housing accommodation.

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

Applications, stating age, qualifications, experience, present appointment and salary, together with two recent testimonials, and suitably endorsed, are to be delivered to the undersigned not later than 10th January, 1950.

ERIC CARSON,
Clerk of the Cardiganshire County Council.
Cambrian Chambers, Aberystwyth.
16th December, 1949. 3013

GOVERNMENT OF NORTHERN IRELAND.
CIVIL SERVICE COMMISSION.
CHIEF ARCHITECT'S BRANCH.

Applications are invited for ASSISTANT ARCHITECT posts in the Ministry of Finance. Subject to a probationary period of two years, the posts are permanent and pensionable.

Remuneration: The scale is £250-£255-£750. The entry point to this scale depends on age, viz., £500 at age 26, plus or minus £25 for each year above or below that age. The upper entry point is, however, subject to a limit of £650 per annum.

Qualifications: Candidates must be Registered Architects and have passed the Final Examination of the Royal Institute of British Architects. In addition, they must have had at least two years' experience in an Architect's office or Department in the preparation of working drawings for new buildings.

Preference will be given to candidates who have served in H.M. Forces in wartime, provided that such candidates can, or within a reasonable time will be able to, fill the posts efficiently.

Closing date for receipt of applications: Applications must be made on the prescribed form, which may be obtained from the Secretary, Civil Service Commission, Stormont, Belfast, and must be returned, duly completed, with copies of two recent testimonials, so as to reach him not later than the 17th January, 1950. 3012

SWINDON AND DISTRICT HOSPITAL.
MANAGEMENT COMMITTEE.
CLERK OF WORKS.

Applications are invited for the post of Clerk of Works for five hospitals at Swindon, one at Osbourne and two at Marlborough.

Applicants must be experienced in all branches of the building trade, including plans, specifications and bills of quantities, and should be able to prepare and set out work, reports where necessary, and generally to supervise any building and maintenance work at the hospitals. Preference will be given to applicants holding the Higher National Certificate in building, or its equivalent. Salary will be in accordance with A.P.T., Grade IV (£480-£515-£525). The appointment is temporary in the first instance, but may be made permanent on satisfactory service, when a medical examination would be required, and the post will become superannuable under the National Health Service (Superannuation) Regulations.

Travelling expenses will be payable on the prescribed scale.
Forms of application may be obtained from the undersigned, to whom they should be returned within 14 days of the appearance of this advertisement.

W. J. LEWIS,
Secretary.
7, Okus Road, Swindon.
21st December, 1949. 3039

HERTFORDSHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
APPOINTMENT OF ASSISTANT DIVISIONAL PLANNING OFFICER.

Applications are invited for the appointment of Assistant Divisional Planning Officer in the East Herts. Divisional Planning Office at Hertford. The salary of the appointment is £685 per annum, rising to £760 (Grade VIII, A.P.T.). The appointment is a responsible position in the County Planning Department. Applicants will be required to deputise for the Divisional Planning Officer in his absence, and should have considerable experience in drafting planning proposals in dealing with development applications. Preference will be given to candidates with experience of controlling elevations of buildings. Applicants must be Corporate Members of the Town Planning Institute, and hold other professional qualifications. The successful candidate will be required to provide a car, for which travelling allowance will be paid in accordance with the Council's scale.

Forms of application are obtainable from the County Planning Officer, County Hall, Hertford. These are returnable not later than 14th January, 1950. 3004

COUNTY BOROUGH OF EAST HAM.
BOROUGH ENGINEER'S DEPARTMENT.
Applications are invited for the under-mentioned appointments:—

- SENIOR ARCHITECTURAL ASSISTANT (Grade A.P.T., VI). Salary £595 to £660 per annum.
ARCHITECTURAL ASSISTANT (Grade A.P.T., IV). Salary £480 to £525 per annum.
ARCHITECTURAL ASSISTANT (Grade A.P.T., III). Salary £450 to £495 per annum.
QUANTITY SURVEYOR (Grade A.P.T., IV) (Building Works). Salary £480 to £525 per annum.

The appropriate London weighting is paid in addition to the above salaries, and salaries in excess of the minima of the grades may be paid according to the qualifications and experience of successful candidates.

The Council will be prepared to consider applications for a subsistence allowance in appropriate cases from persons appointed should they be unable to obtain suitable housing accommodation. Full particulars of the duties, terms and conditions of appointment and form of application (which must be returned by Monday, the 16th January, 1950), may be obtained from the undersigned.

Canvassing in any form will disqualify.
H. A. EDWARDS,
Town Clerk.
Town Hall, East Ham, E.5. 3003

CROWN AGENTS FOR THE COLONIES.

ARCHITECTURAL ASSISTANT required by Public Works Department, Uganda, for tour of 24 to 36 months in first instance, with prospect of permanent and pensionable employment. Salary according to age and experience in scale £550 to £690 a year. Outfit allowance £30. Free passages. Candidates not over 35 years of age must be rapid and accurate. Architectural Draughtsmen and have had experience in the preparation working drawing of buildings and be capable of carrying out calculations for reinforced concrete structures. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/24985/3A on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications and will communicate only with applicants selected for further consideration. 3044

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

- (a) ASSISTANT ARCHITECTS. Commencing salary will be from £650 per annum, dependent upon qualifications and experience.
Applicants should preferably be Associate Members of the R.I.B.A. They should be capable of preparing working drawings and specifications and should have had good general experience in design and construction.
(b) 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.
(c) DRAUGHTSMEN—for Architectural work. 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, and the salaries and conditions of employment will be in accordance with those laid down from time to time, by the appropriate negotiating body. The successful candidates will be required to contribute to a superannuation scheme, and may be required to pass medical examination.

Applications should be made on forms, obtainable on receipt of a foolscap envelope, from the Establishments Officer, London Electricity Board, 46/47, New Broad Street, London, E.C.2, to whom they should be returned, duly completed, not later than 21st January, 1950, quoting reference EST/V/303A. 3046

EAST KILBRIDE DEVELOPMENT CORPORATION.

The Corporation invite applications for the following appointments:—

- (a) ARCHITECTS. Salary scale £250-£30-£750 per annum.
Candidates should be Associates of the Royal Institution of British Architects or possess similar qualifications, and should show evidence of a sensitive approach to contemporary design, equipment, and layout of buildings. Candidates should also have had practical experience in the handling of contracts.

(b) ASSISTANT ARCHITECTS. Salary scale £450-£25-£325 per annum.

(c) JUNIOR ASSISTANT ARCHITECTS. Salary scale £390-£25-£465 per annum.
The commencing salary in each case will be in accordance with qualifications, experience, etc. The appointments are subject to the Corporation's Conditions of Service. A house will be made available if required.

There is a superannuation scheme, and selected candidates will require to pass a medical examination. Application forms may be obtained from the General Manager, Torrance House, East Kilbride, Lanarkshire, to whom they should be returned not later than 31st January, 1950. Canvassing, directly or indirectly, of the members of the Corporation will constitute an absolute disqualification.
20th December, 1949. 3040

NATIONAL HEALTH SERVICE.

The South-East Metropolitan Regional Hospital Board invite applications for the following appointment in the Regional Architect's Department:—

SENIOR ARCHITECTURAL ASSISTANT, in A.P.T. Grade VII. Salary £635-£25-£710 per annum, plus London weighting allowance.

Candidates should be Members of the Royal Institute of British Architects, should be suitably experienced in hospital work, be capable of carrying to completion any scheme under the Board's Architect and of assisting in an advisory capacity. The post is superannuable under the National Health Service (Superannuation) Regulations, 1947-3.

Applications, stating age, present salary, a brief statement of qualifications and experience, and the names and addresses of two referees, should reach the Secretary, South-East Metropolitan Regional Hospital Board, 11, Portland Place, W.1, not later than 16th January, 1950. 3040

GOVERNMENT OF NORTHERN IRELAND.
MINISTRY OF HEALTH AND LOCAL GOVERNMENT.
TECHNICAL STAFF.

Applications are invited for unestablished post of PLANNING ASSISTANT (£500-£750 per annum) in the Ministry of Health and Local Government. The appointment will, so far as can be foreseen, last for several years.
Commencing salary within the range will be fixed according to qualifications and experience. A salary lower than £500 may be paid to a candidate under 26 years of age.

Qualifications:—
Candidates must be either Registered Architects by examination, Corporate Members of the Institution of Civil Engineers, or Associates of the Royal Institution of Chartered Surveyors, and should in addition possess a recognised qualification in Town Planning or have good experience in Town Planning work.

Preference will be given to suitably qualified candidates who served with H.M. Forces during wartime, providing the Ministry is satisfied that such candidates can, or within a reasonable time will be able to discharge the duties efficiently.

Closing date:—
Applications, giving date of birth and full particulars of qualifications and experience, and accompanied by copies of two recent testimonials, should be sent to the Director of Establishments, Ministry of Finance, Stormont, Belfast, so as to reach him on or before the 24th January, 1950. 3003

METROPOLITAN BOROUGH OF WANDSWORTH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned Established appointments, viz.:—

- (1) ARCHITECTURAL ASSISTANT. Grade A.P.T., 7 (£665-£740). Candidates should be fully experienced in the design and planning of housing estates, particularly multi-storey blocks of flats and/or other framed buildings and in supervising their erection.
(2) ARCHITECTURAL ASSISTANT. Grade A.P.T., 5 (£550-£600). Candidates should have had good professional training, experience of housing schemes, the layout of estates, and general architectural design.
(3) ARCHITECTURAL ASSISTANT. Grade A.P.T., 3 (£480-£525). Candidates must have experience in preparation of working drawings for housing schemes and general architectural work.
(4) TWO ARCHITECTURAL ASSISTANTS. Grade A.P.T., 1 (£420-£465). Candidates should have had experience in general architectural work.

For appointments (1) and (2) preference will be given to Associates of the R.I.B.A., and for (3) and (4) to those studying for examinations of the R.I.B.A.

Application forms may be obtained from the Borough Architect, and must be returned to the undersigned not later than 18th January, 1950.

R. H. JERMAN,
Town Clerk.
Municipal Buildings, Wandsworth, S.W.18. 3003

**COUNTY BOROUGH OF MIDDLESBROUGH
EDUCATION COMMITTEE.****APPOINTMENT OF CLERK OF WORKS.**

Applications are invited for the appointment of a Clerk of Works to supervise the erection of two new Secondary Modern Schools (each for 480 pupils) at Stainsby, Acklam, Middlesbrough.

The salary will be at the rate of £10 per week. Applicants should have had experience on large contract works and in the keeping of all records, etc., in connection with same, and should have a thorough knowledge of all the building trades.

Forms of application and general conditions of service may be obtained from the Director of Education, Education Offices, Woodlands Road, Middlesbrough, to whom completed application forms should be returned not later than Saturday, 31st January, 1950.

E. C. PARR.

Town Clerk.
3037**LONDON COUNTY COUNCIL.
PARKS DEPARTMENT.**

Applications are invited for the following position—

(a) **QUALIFIED LANDSCAPE ARCHITECT**, for the preparation of sketch schemes, working drawings and specifications for the layout of new parks and open spaces, sports grounds, gardens, and ground at housing estates, schools, etc.

Salary from £550 to £700, according to qualifications and experience.

(b) **ARCHITECTURAL SURVEYING AND LANDSCAPE ASSISTANTS**, for work in connection with the preparation of surveys, sketch schemes, working drawings and specifications for buildings at parks and open spaces, and laying out of new parks, sports grounds, gardens and ground at housing estates, schools, etc.

Rates of pay up to £580 a year, according to qualifications and experience.

The positions are superannuable.

Applications to the Chief Officer of the Parks Department, The Old County Hall, Spring Gardens, S.W.1. Canvassing disqualifies. (1508)

3035

**WELSHPOOL BOROUGH COUNCIL.
TECHNICAL ASSISTANT.**

Applications are invited for the above-mentioned position in the Borough Surveyor's Department (temporary) for a maximum period of 2 years, in Grade 1 of the A.P. and T. Division of the National Conditions of Service, commencing at a salary of £390.

Applicants must state their age, present employment, previous experience and date they could commence duty, and applications must be accompanied by three recent testimonials and endorsed "Technical Assistant," and must reach the undersigned by first post on Monday, 16th January, 1950.

J. BEN DAVIES.

Town Clerk.
3034

Borough Council Offices, Welshpool, Mont.
22nd December, 1949.

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

Applications are invited for the permanent appointment of two Architectural Assistants, in accordance with Grade VI of the A.P.T. Division of the National Joint Council's Scales, at a salary commencing at £595 per annum, and rising by annual increments to £660 per annum, plus £30 London weighting.

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

The Council is unable to provide housing accommodation for the successful candidate.

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 16th January, 1950.

E. J. COPE-BROWN.

Town Clerk.
3033**TOWN HALL, EALING, W.5.****COUNTY BOROUGH OF ROCHEDALE.
BOROUGH SURVEYOR'S DEPARTMENT.****APPOINTMENT OF SENIOR HEATING AND
VENTILATING ASSISTANT.**

Applications are invited for the above appointment in the Department of the Borough Surveyor, on Grade V of the A.P.T. Division of the National Joint Council's Scales, at a salary of £520, rising to £570 per annum. Applicants must be Members or Associate Members of the Institution of Heating and Ventilating Engineers, and have had considerable experience in mechanical engineering, with particular regard to the design and installation of heating and ventilating systems, of all types. The appointment will be subject to the provisions of the Local Government Superannuation Act and to the selected candidate passing a medical examination. Applications, stating age, qualifications and experience, together with the names of three persons to whom reference can be made, should be sent to the Borough Surveyor, Town Hall, Rochdale, not later than 9 a.m. on the 28th January, 1950. Envelopes should be endorsed "Senior Heating Assistant." Relationship to any member of the Council or Senior Officer of the Corporation must be disclosed, and canvassing will disqualify.

K. B. MOORE.

Town Clerk.
3018**COUNCIL OF THE COUNTY OF ABERDEEN.
COUNTY PLANNING OFFICER.**

Applications are invited for the post of County Planning Officer. Applicants must hold recognised qualifications in Town and Country Planning.

Salary £1,200 per annum, rising by annual increments of £50 to £1,500 per annum. Placement on the scale may be granted as determined by the Council. The appointment is subject to the Local Government Superannuation (Scotland) Act, 1937, and the successful applicant will require to pass a medical examination. Forms of application and conditions relating to the appointment may be obtained from the undersigned, with whom completed application forms should be lodged not later than 12 noon on Monday, 6th February, 1950.

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

CHAS. HORNAL.

County Clerk.

County Buildings,
22, Union Terrace, Aberdeen.
27th December, 1949.

3072

**COUNTY BOROUGH OF GATESHEAD.
CLERK OF WORKS.**

Applications are invited for the appointment of a Clerk of Works to supervise the erection of the Technical College which is being erected in Gateshead.

Applicants must have a sound and practical knowledge of all building trades and be experienced in the supervision and erection of large buildings, including setting out, levelling, measuring-up, and keeping records.

The salary will be in accordance with A.P.T. Grade IV, commencing £480-£525 per annum.

The appointment will be subject to one month's notice on either side.

Applications to be made on forms obtainable from the Chief Architect, should be returned, together with copies of three recent testimonials, to H. J. Cook, A.R.I.B.A., M.I.Struct.E., Chief Architect, Municipal Buildings, Swinburne Street, Gateshead, S., not later than Friday, the 20th January, 1950.

J. W. PORTER.

Town Clerk.

Town Hall, Gateshead, S.
29th December, 1949.

3067

**BOROUGH OF PORTADOWN.
ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of an Architectural Assistant to the Borough Architect and Town Planning Officer (Mr. G. Staart Alderson, Dip. T.P., A.R.I.B.A.), at a salary in the range of £400-£500 per annum, plus cost-of-living bonus (at present £78-£90 per annum).

Applicants should have passed the Intermediate examination of the Royal Institute of British Architects. Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, should be sent to the undersigned not later than 31st January, 1950.

Preference will be given to ex-Service candidates possessing the required qualifications, provided that the Council is satisfied that such candidate can, or within a reasonable time will be able to, fill the vacant post efficiently.

The Council will assist in finding housing accommodation for the successful applicant.

GEORGE MCGOWAN.

Town Clerk.

Town Hall, Portadown, N. Ireland.
28th December, 1949.

3066

**NATIONAL COAL BOARD—NORTH-WESTERN
DIVISION ARCHITECT'S BRANCH.**

Applications are invited for the appointment of a SENIOR ARCHITECT, salary scale £550-£35-£1,150 per annum, on the Staff of the Divisional Architect.

Applicants should be Associate Members of the Royal Institute of British Architects, with a thorough knowledge of architectural practice and capable of undertaking a programme of work.

The post is permanent and superannuated. The point of entry into the salary scale will depend upon the qualifications and experience of the successful applicant.

Applications, stating age, education, training, qualifications, experience, present appointment and salary, should be submitted within fourteen days of publication to the Divisional Establishment Officer, National Coal Board, North-Western Division, 47, Peter Street, Manchester. 3062

**COUNTY BOROUGH OF NORTHAMPTON.
DEPARTMENT OF BOROUGH ARCHITECT
AND TOWN PLANNING OFFICER.****APPOINTMENT OF ASSISTANT ARCHITECTS
(GRADES III TO V).**

Applications for the above permanent posts, stating age, qualifications, past and present appointments and salary, whether related to any member or senior officer of the Council and giving the names of two persons to whom reference can be made, should be delivered to J. L. Womersley, A.R.I.B.A., A.M.T.P.I., Borough Architect and Town Planning Officer, Guildhall, Northampton, not later than 16th January, 1950.

Candidates should have had practical experience and in the case of the higher grade posts, should be Registered Architects. The successful applicants will be engaged in the Education and General Section of the Department, but previous experience on Schools is not essential.

Canvassing will disqualify.

C. B. VIVIAN ROWE.

Town Clerk.

County Buildings,
28th December, 1949.

3069

**CITY OF NOTTINGHAM.
CITY ENGINEER'S DEPARTMENT.**

Applications are invited for the appointment of **ARCHITECTURAL ASSISTANT** in Grade A.P.T., VII, i.e., £635-£710.

Applicants should be Associate Members of the Royal Institute of British Architects, with at least three years' experience since passing the Final Examination, preferably in the design of schools and public buildings.

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

Forms of application are to be obtained from R. M. Finch, O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, and should be returned to him not later than 20th January, 1950.

J. E. RICHARDS.

Town Clerk.

The Guildhall, Nottingham.
29th

**COUNTY BOROUGH OF SOUTHEAST-ON-SEA.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.**

Applications are invited for the following appointments—

SENIOR ASSISTANT ARCHITECT, Grade VII (£635-£710), and

ASSISTANT ARCHITECTS, **ASSISTANT QUANTITY SURVEYORS**, **ASSISTANT ENGINEERS**, **ASSISTANT PLANNERS**, **ASSISTANT SURVEYORS (Estate)**, in Grades I-V, according to qualifications and experience, in accordance with National Joint Council Scales; the appointments will be subject to medical examination and to the Local Government Superannuation Act, 1937.

Candidates for the Senior Architectural appointment must have had considerable experience in School buildings, and will be engaged under the Architect to the Education Committee.

Applications, stating age, professional training, experience and qualifications, and accompanied by one copy testimonial and two professional references, to be sent to the Borough Engineer, Municipal Buildings, Southend-on-Sea, by 21st January, 1950.

Canvassing will disqualify.

ARCHIBALD GLEN.

Town Clerk.

29th

CRAWLEY DEVELOPMENT CORPORATION invites applications from fully qualified Architects for the posts of: (a) **SENIOR ARCHITECT**, within the range of £1,000 to £1,200 per annum; and (b) **ASSISTANT ARCHITECT**, Grade IV, £550-£30-£750.

For appointment (a) applicants should have wide general experience in architecture and planning.

For appointment (b) applicants should have had good general architectural experience. A knowledge of town planning is desirable but not essential.

Contributory superannuation will be provided.

Form of application and further particulars should be obtained from the Chief Architect, A. G. Sheppard Fidler, M.A., B.Arch., F.R.I.B.A., A.M.T.P.I., Broadfield, Crawley, Sussex, to whom applications must be submitted not later than the 20th January, 1950.

G. A. C. TURNER.

Chief Executive.

Broadfield, Crawley, Sussex.
3022

**COUNTY BOROUGH OF SWANSEA.
BOROUGH ARCHITECT'S DEPARTMENT.**

Applications are invited for Established Staff Appointments as hereunder—

(1) **ASSISTANT BOROUGH ARCHITECT**, £800 per annum.

(2) **SENIOR ASSISTANT QUANTITY SURVEYOR**, Grade VII, £635-£710 per annum.

(3) **ASSISTANT ARCHITECT**, Grade V, £520-£570 per annum.

(4) **TWO JUNIOR ASSISTANT QUANTITY SURVEYORS**, Grade III, £450-£495 per annum.

(5) **JUNIOR ASSISTANT ARCHITECT**, Grade III, £450-£495 per annum.

Candidates for the post of Assistant Borough Architect must be Associates of the Royal Institute of British Architects, widely experienced in design and modern constructional methods.

For Quantity Surveying post, Grade VII, Associatehip of the Royal Institution of Chartered Surveyors (Quantities), and for Assistant Architect, Grade V, Associatehip R.I.B.A., must be held. For Junior Assistant Quantity Surveyors and Junior Assistant Architects posts, a certificate of having passed the Intermediate Examination of the R.I.C.S. or the R.I.B.A. must be produced.

Candidates must be under 45 years of age, unless in Local Government Service. The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

The appointments may be terminated by one month's notice on either side.

Forms of application may be obtained from the Borough Architect, Mr. H. T. Wykes, F.R.I.B.A., Guildhall, Swansea, and are to be returned, accompanied by three recent testimonials, to the undersigned, not later than Monday, 23rd January, 1950.

Canvassing, directly or indirectly, will disqualify.

T. B. BOWEN.

Town Clerk.

Guildhall, Swansea.
28th December, 1949.

3058

DERBYSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the under-mentioned appointments on the permanent staff.
Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities, as adopted by the County Council.

SENIOR ARCHITECTS.

(a) Grade IX, £750 × £50 to £900 per annum.
Applicants must be fully qualified by examination, and have had experience in the design and construction of any of the types of buildings in connection with New Schools, Police, Fire Stations, Smallholdings and general work on County Buildings.

SENIOR ASSISTANT ARCHITECTS.

(b) Grade VIII, £685 × £25 to £760 per annum.
(c) Grade VII, £635 × £25 to £710 per annum.
Applicants must be fully qualified by examination and be experienced in work connected with County Buildings and in particular New Schools.
(d) Grade VI, £595 × £20 (2) and £25 (1) to £660 per annum.
Applicants must be suitably qualified, and have had good experience, particularly in connection with School Buildings, Fire Stations or Smallholdings.

ASSISTANT ARCHITECTS.

(e) Grade V, £520 × £15 (2) and £20 (1) to £570 per annum.
Applicants must have had a good general architectural experience, preferably on Education Buildings, and have passed the Intermediate Examination of the Royal Institute of British Architects or its equivalent at one of the recognised Schools of Architecture.

The appointments will be terminable by one month's notice on either side, and subject to the provisions of the Local Government Superannuation Act, and the successful candidates will be required to pass a medical examination.
The County Council is not in a position to assist successful applicants with housing accommodation.

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

Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by copies of three recent testimonials, not later than 14th January, 1950.

Envelopes and applications must be endorsed, stating clearly the vacancy for which the application is made.

F. HAMER CROSSLEY, Dipl. Arch. (L'pool), A.R.I.B.A.,
County Architect.

St. Mary's Gate, Derby.
29th December, 1949. 3023

CITY OF BRADFORD.

APPOINTMENT OF CITY ARCHITECT.

Applications are invited for the position of City Architect, at a salary of £1,600 per annum, minimum and maximum salaries and increments to be considered on the introduction of National Scales of Salaries for City Architects.
Candidates should be Members of the Royal Institute of British Architects and should not be more than 50 years of age. They should be capable designers, with administrative experience in a similar capacity.

Particulars as to duties attaching to the appointment can be obtained from me.

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

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

Applications, enclosing copies of two recent testimonials, endorsed "City Architect," should be delivered to me not later than 21st January, 1950.

W. H. LEATHER, Town Clerk.

Town Hall, Bradford. 3051

CITY AND COUNTY OF THE CITY OF EXETER.

Applications are invited for the appointments of ASSISTANT QUANTITY SURVEYORS, on the Permanent Staff of the City Architect's Department. The salary will be within A.P.T. Grade VI (£595 to £660 per annum). Applicants must be thoroughly experienced in the preparation of Bills of Quantities, Interim Valuations and Final Accounts.

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

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

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, and the earliest possible date when available, together with copies of recent testimonials, should be sent to H. B. Rowe, F.R.I.B.A., A.M.I.Struc.E., City Architect, 2, Southernhay West, Exeter, not later than the 21st January, 1950.

C. J. NEWMAN, Town Clerk.

Exeter, December, 1949. 3063

CITY OF NOTTINGHAM EDUCATION COMMITTEE.

COLLEGE OF ART AND CRAFTS.
Principal: ALFRED H. RODWAY, A.R.C.A.
Head of School of Architecture: D. W. NOTLEY, B.A. (Hons. Arch.), L'pool, A.R.I.B.A.

Applications are invited for a POST OF SPECIAL RESPONSIBILITY on the full-time teaching staff of the School of Architecture, which is recognised for exemption from the R.I.B.A. Intermediate and Final Examinations, and in the Department of Town and Country Planning from the Final Examination of the Town Planning Institute. Duties to commence as soon as possible. Candidates should be fully qualified architects and should preferably hold the degree of diploma of a Recognised School. Subject to the conditions governing full-time teaching service, the person appointed will be given such opportunities as may be practicable to maintain his/her professional practice.

Salary: Burnham Scale, plus an additional allowance at the rate of £125 per annum for a post of special responsibility, and additional allowances if appropriate, for (a) training, (b) graduation, (c) full-time professional experience, (d) previous recognised teaching service, and (e) service in H.M. Forces or the recognised equivalent. A qualification in Town and Country Planning will be regarded as an additional recommendation. Application forms can be obtained from the Principal, College of Art and Crafts, Waverley Street, Nottingham, to whom they should be returned within 14 days of the publication of this advertisement.

F. STEPHENSON, Director of Education.

Education Office, South Parade, Nottingham. 3068

BOROUGH OF STRATFORD-UPON-AVON. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, at a salary commencing in accordance with A.P.T. Grade III (£450-£495).

Applicants should have a good general knowledge of building construction and design, and preferably have passed the Intermediate Examination of the R.I.B.A.

The Council will, if necessary, be prepared to provide housing accommodation.

Conditions of the appointment and forms of application may be obtained from the undersigned, to whom completed application forms should be returned not later than Monday, 23rd January, 1950.

F. C. SMART, A.M.I.C.E., Borough Engineer.

Municipal Offices, Stratford-upon-Avon. 3053

COUNTY BOROUGH OF BOLTON. APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of Clerk of Works, in the Department of the Borough Engineer and Surveyor, at a salary in the Miscellaneous Division, Grade II (£375 to £420 per annum), of the National Scale of Salaries for Local Government Officers.

Candidates must have a thorough knowledge of all building trades and have had considerable experience in superintending large building works and maintenance of property.

Forms of application may be obtained from the undersigned, to whom applications, endorsed "Clerk of Works," and accompanied by copies of two recent testimonials, should be delivered not later than 1st February, 1950.

PHILIP S. RENNISON, Town Clerk.

Town Hall, Bolton. 3077

COUNTY BOROUGH OF WALLASEY. BUILDING INSPECTOR.

Applications are invited by the 31st January, 1950, for the above appointment. Salary, Grade A.P.T. II, £420 × £15-£465 (subject to confirmation by the North-Western Provincial Council, applicants possessing the Building Inspector's Certificate of the Institution of Municipal Engineers or the Building Surveyor's Examination of the Royal Institute of British Architects, will be graded A.P.T. III, £450 × £15-£495). Application Forms and Particulars obtainable from the Borough Engineer, Town Hall, Wallasey. EMRYS EVANS, Town Clerk.

BOROUGH OF STOCKTON-ON-TEES. APPOINTMENT OF DEPUTY BOROUGH ARCHITECT.

Applications are invited for the appointment of Deputy Borough Architect, at a salary according to Grade VI, A.P.T. Division, namely £595-£660.

Applicants must be Associate Members of the Royal Institute of British Architects, have had experience in the office of a Municipal Architect, and possess a knowledge of all types of buildings carried out by a local authority, including the design of housing estates and schools.

The appointment is subject to the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service. The successful applicant will be required to pass a medical examination, and the appointment will be subject to termination by two months' notice in writing on either side.

Consideration will be given, if necessary, to the provision of housing accommodation for the successful applicant.

Applications, endorsed "Deputy Borough Architect," stating age, qualifications, present employment and salary, and previous experience, with the names and addresses of three persons to whom reference may be made, must reach the

undersigned not later than Tuesday, 24th January, 1950.

FRANK HILL, Town Clerk.

Barclays Bank Chambers, Stockton-on-Tees.
2nd January, 1950. 3062

Tenders for Contracts

COUNTY OF LINCOLN—PARTS OF LINDSEY.

PROPOSED POLICE BUILDINGS AND MAGISTRATES COURTS, SCUNTHORPE.
Contract No. 1: Site Works, Roads, Sewers and Foundations of Buildings to Ground Level.

Contractors, desirous of Tendering for the above Contract No. 1, should submit their names to the Architects, Messrs. C. B. Pearson & Son, F.R.I.B.A., 18, Dalton Square, Lancaster, not later than 16th January, 1950. (Note.—The Superstructure of the Buildings will be subject to a separate Contract to be tendered for at a later date.)

Bills of Quantities and Specification will be sent to intending Tenderers. Plans may be seen at my office during normal working hours or at the office of the architects. The acceptance of any Tender is subject to the approval of the Home Office, and the Council do not bind themselves to accept the lowest or any Tender.

HERBERT COPLAND, Clerk to the Council.

County Offices, Lincoln.
28th December, 1949. 3069

CITY AND COUNTY OF BRISTOL. COLSTON HALL REINSTATEMENT. TO BUILDING CONTRACTORS.

The Colston Hall Management Committee are proposing to invite Tenders for the reconstruction of the Colston Hall, Bristol.

Contractors desirous of tendering are invited to make application to the undersigned by 13th January, 1950. Such application to be accompanied by a list of contracts for work of a similar nature which they have carried out, giving location, date of completion, final total cost, and the Local Authority or Architect under whose supervision the work was done.

Contractors, whose qualifications are considered satisfactory, will be duly notified and will be required to forward two guineas deposit, which deposit will be refunded on receipt of bona fide tender and return of documents.

Drawings and draft form of Contract may be seen at the City Architect's Office, The Council House, College Green, between the hours of 9 a.m. and 5 p.m. (Saturdays 9 a.m. and 12 noon). Bills of Quantities and Form Tender will be issued about the 28th February, 1950.

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

Eagle House, Colston Avenue, Bristol, 1.
20th December, 1949. 3011

Architectural Appointments Vacant

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

EAST MIDLANDS.—ASSISTANT, Inter. Fd.
standard, required at once for private Architect's office; work mainly domestic. Box 2453.

ARCHITECTURAL ASSISTANTS required immediately for varied practice; experience in factory work an advantage; salaries from £400-£450, graded according to experience and ability. Box 2904.

NORTH THAMES GAS BOARD.—ARCHITECTURAL ASSISTANTS required, preferably experienced in the design, alteration and maintenance of Industrial buildings, and capable of preparing surveys, working drawings, details and specifications; salary range £480-£650 per annum, according to age and qualifications; the appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates. Applications, stating age and full particulars of training and experience, should be sent to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 9645. 2966

ARCHITECTURAL ASSISTANT required for General Practice; surveys, working drawings and specifications.—Write, stating age, previous experience and salary required, Henry C. Smart & Partners, L.R.I.B.A., 120, Moorgate, E.C.2. 2961

YOUNG ARCHITECT/SURVEYOR required for country town office, chiefly for measured surveys; car driver; single.—Reply, with details of experience and salary required, to Box 2908.

EXPERIENCED ARCHITECTURAL ASSISTANT required for Country Town office; car driver; salary £450, plus rent free flat (if married); £500 (if single). Reply with full details to Box 2974.

ASSISTANT ARCHITECTS required by Sir John Burnet, Tait & Partners; salary by arrangement. 10, Bedford Square, London, W.C.1. 3041

ARCHITECTURAL ASSISTANT required; a good draughtsman, and able to take charge of jobs and supervise work inside and outside office; ability in design an advantage. Welch & Lander, F.R.I.B.A., 38, Gloucester Place, Portman Square, W.1. Welbeck 6551/2. 2966

ARCHITECTS. SENIOR ASSISTANTS required. Should have good knowledge of commercial and industrial buildings and contemporary design. Apply in writing to S.C.W.S., Architectural Department, 119, Paisley Road, Glasgow, C.S. Envelopes to be endorsed "Architect." 3025

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.S. Envelopes to be endorsed "Surveyor." 3026

ARCHITECTURAL ASSISTANTS required immediately with Architects having offices in London and Worcester; work is of a varied character and includes Schools, Factories and Housing; applicants should have at least three years' office experience and have passed the Intermediate Examination. Write, stating age, experience, and salary required, Box 3063.

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS, with Industrial and Housing experience, required in North-West London office; Juniors up to Intermediate standard, salary £250-£400; Seniors over Intermediate standard, salary £400-£700, according to qualifications and experience. Apply Sydney Greenwood, A.R.I.B.A., 33, Bunns Lane, Mill Hill, N.W.7. 3065

ARCHITECT'S EXPERIENCED ASSISTANT, for busy Country Practice in small town near coast, North Midlands; salary £500 upwards (with bonus), according to qualifications and ability; must be experienced, properly trained, able to carry out all duties; car driver preferred; housing experience and quantity surveying an advantage. Box 3068.

ESTABLISHED MIDLAND ARCHITECT (A.R.I.B.A.) requires part-time help, F./A.R.I.B.A., on competition work; must be very good draughtsman and designer, preferably competition winner; good remuneration and prospects for the right person. Reply immediately, in confidence, giving details and enclosing two projects (returnable), Box 3071.

ARCHITECTURAL ASSISTANT required; Inter. Final standard; salary according to experience. Write, giving particulars, to Box 3074.

SENIOR AND INTERMEDIATE ARCHITECTURAL ASSISTANTS required; varied and interesting work, with responsibility. Apply, with particulars, to G. F. and R. H. Bell and E. J. Malcolmson, 26/27, Ocean Buildings, Belfast. 3075

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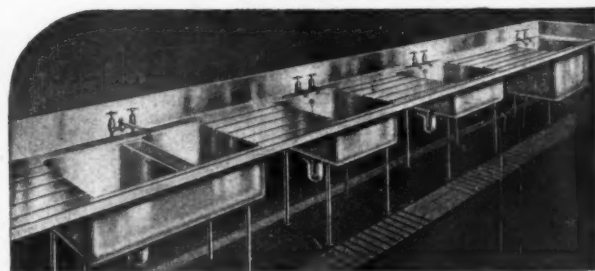


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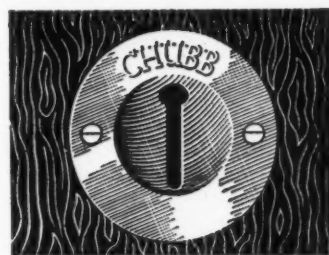
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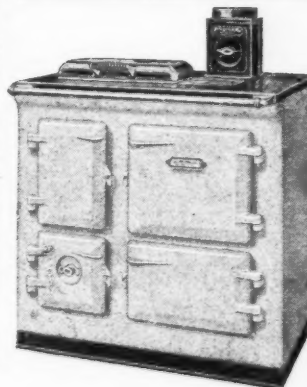
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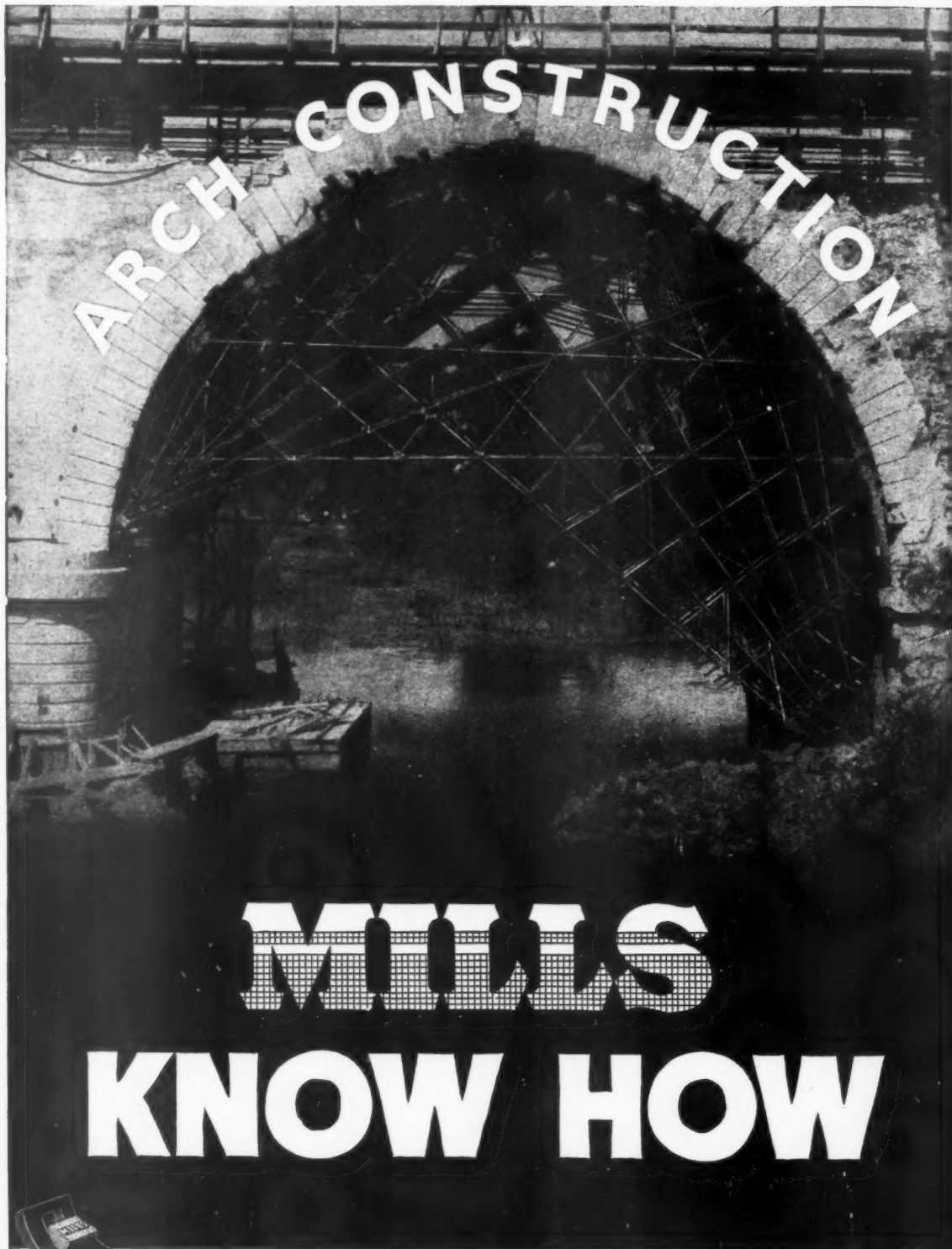
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Top Oven	14"	15½"	12"
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