

# 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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No. 2957]

[VOL. 114

THE ARCHITECTURAL PRESS  
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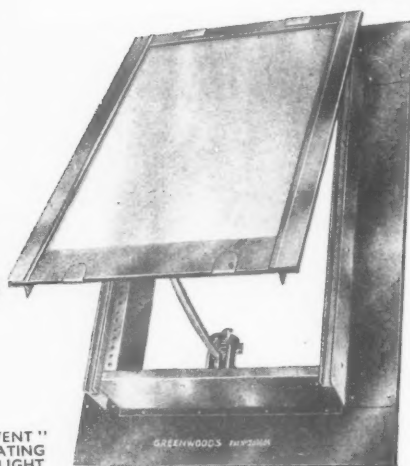
Registered as a Newspaper.

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

- 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. Langham 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, 34/36, Bedford Square, W.C.1.  
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. Langham 5721  
AScW Association of Scientific Workers, 15, Half Moon Street, Piccadilly, W.1.  
BAE Board of Architectural Education, 66, Portland Place, W.1. Langham 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, 10, The Boltons, S.W.10. Flaxman 7766  
BEDA British Electrical Development Association, 2, Savoy Hill, W.C.2. Temple Bar 9434  
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 F. R. Steele, F.R.I.B.A.,  
County Hall, Chichester. Chichester 3001  
CCA Cement and Concrete Association, 52, Grosvenor Gardens, S.W.1. Sloane 5255  
CCP Council for Codes of Practice, Lambeth Bridge House, S.E.1. Reliance 7611  
CDA Copper Development Association, Kendals Hall, Radlett, Herts. Radlett 5616  
CIAM Congrès Internationaux d'Architecture Moderne, Dolderal, 7, Zurich, Switzerland.  
COID Council of Industrial Design, Tilbury House, Petty France, S.W.1. Whitehall 6322  
CPRE Council for the Preservation of Rural England, 4, Hobart Place, S.W. Sloane 4280  
CUJC Coal Utilization Joint Council, 3, Upper Belgrave Street, London, S.W.1. Sloane 9116  
CVE Council for Visual Education, 13, Suffolk Street, Haymarket, S.W.1. Reading 72255  
DGW Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.  
Reliance 7611  
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  
EJMA English Joinery Manufacturers' Association (Incorporated), Sackville House,  
40, Piccadilly, W.1. Regent 4448  
EPNS English Place-Name Society, 7, Selwyn Gardens, Cambridge.  
FAS Faculty of Architects and Surveyors, 8, Buckingham Palace Gdns., S.W.1. Sloane 2837  
FASSC Federation of Association of Specialists and Sub-Contractors,  
5, Arundel Street, Strand. Temple Bar 6633  
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  
FOB 1951 Festival of Britain 1951, 2, Savoy Court, Strand, W.C.2. Waterloo 1951  
FPC The Federation of Painting Contractors, St. Stephen's House, S.W.1. Whitehall 3902  
FRHB Federation of Registered House Builders, 82, New Cavendish Street, W.1. Langham 4041  
FS (Eng.) Faculty of Surveyors of England, Buckingham Palace Gdns., S.W.1. Sloane 2837  
GC Gas Council, 1, Grosvenor Place, S.W.1. Sloane 4554  
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  
ICA Institute of Contemporary Arts, 17-18 Dover Street, Piccadilly, W.1. Grosvenor 6186  
ICE Institution of Civil Engineers, Great George Street, S.W.1. Whitehall 4577  
IEE Institution of Electrical Engineers, Savoy Place, W.C.2. Temple Bar 7676  
IES Illuminating Engineering Society, 32, Victoria Street, S.W.1. Abbey 5215



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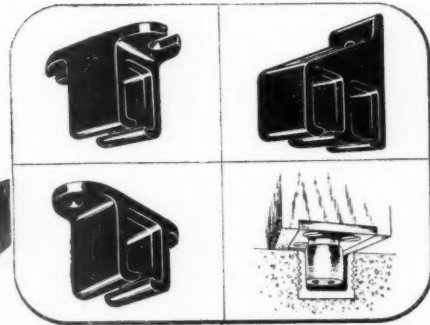
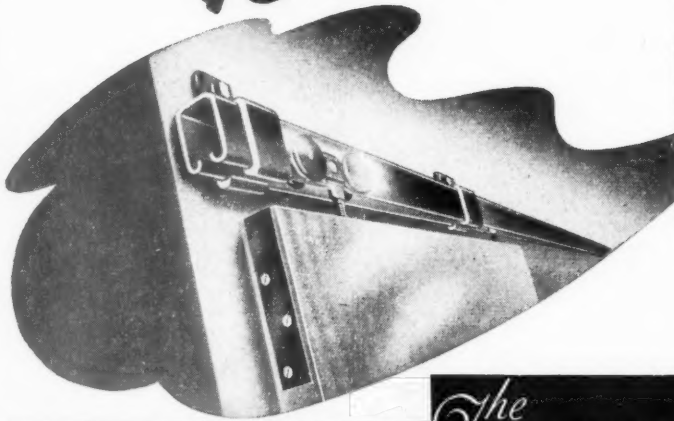
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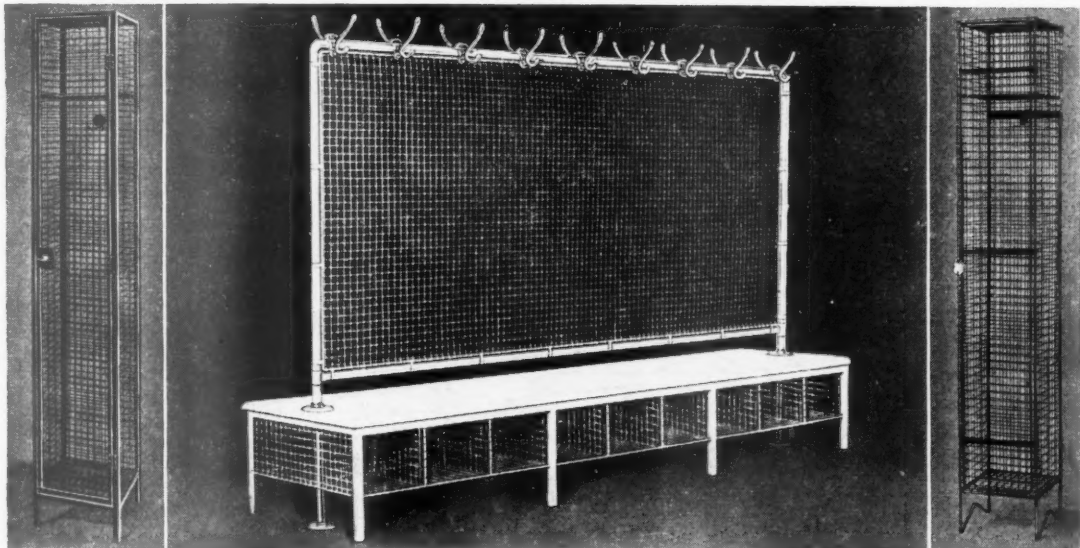
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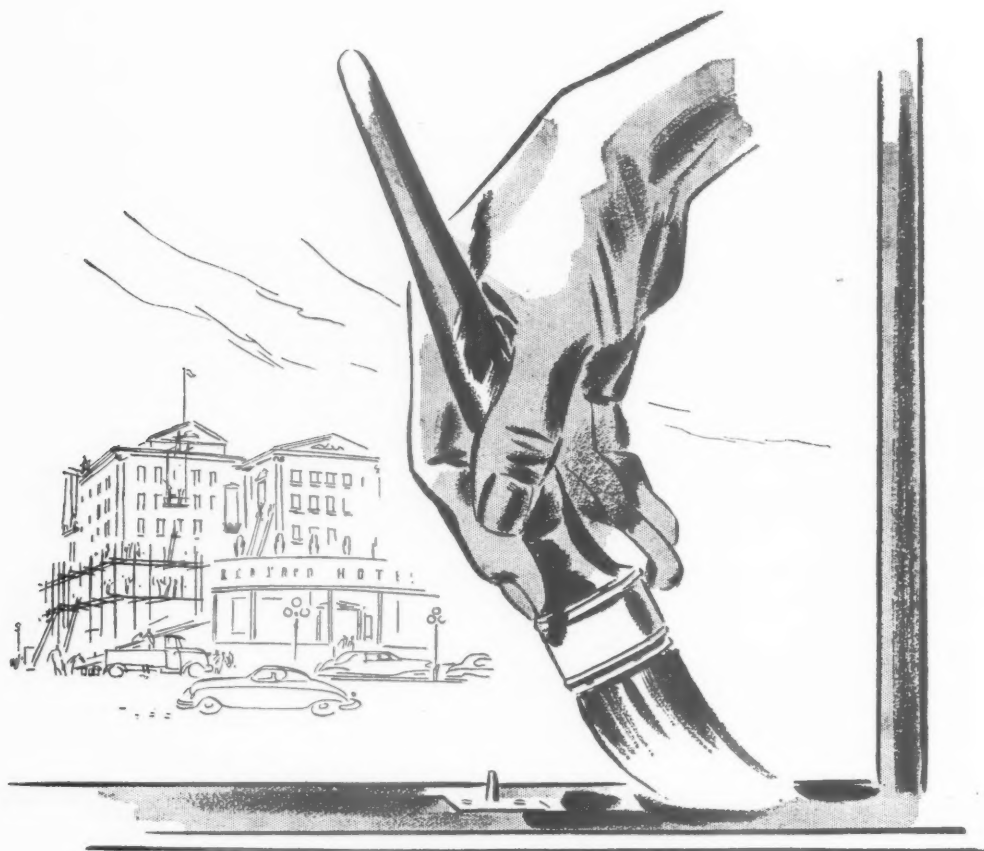
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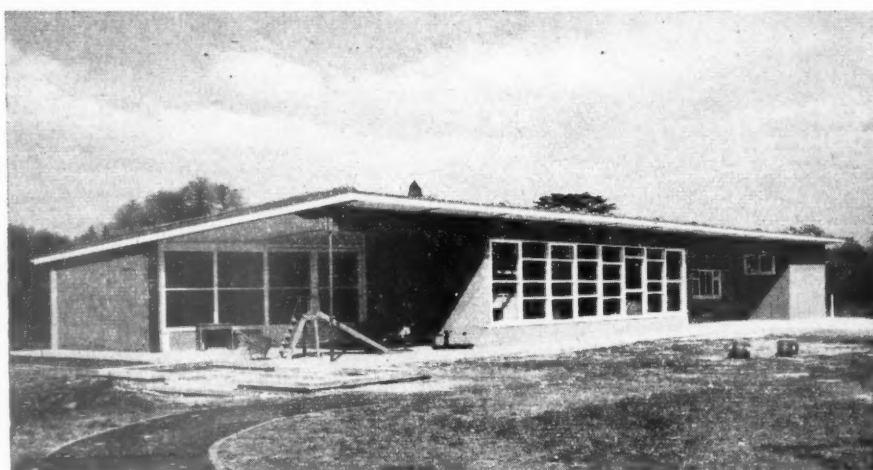
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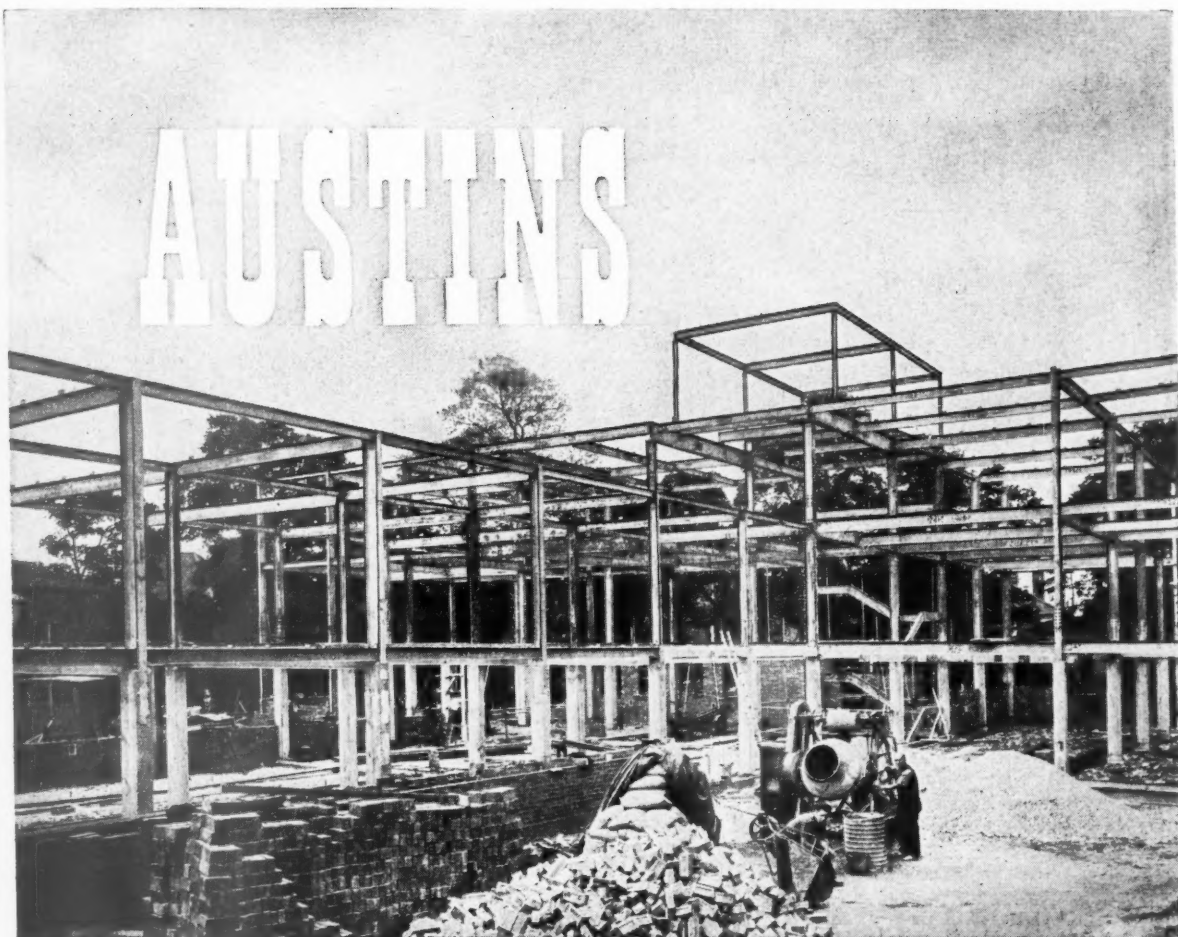
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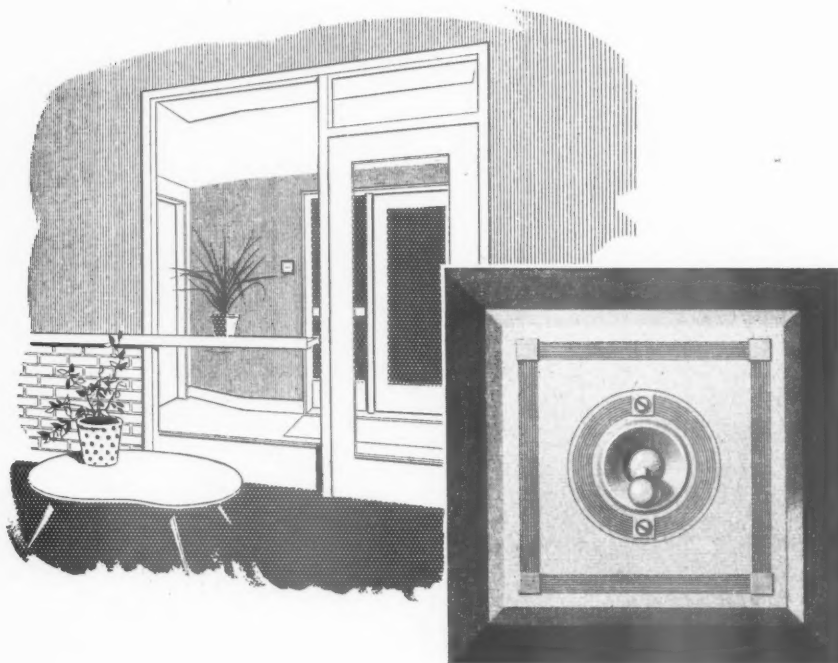
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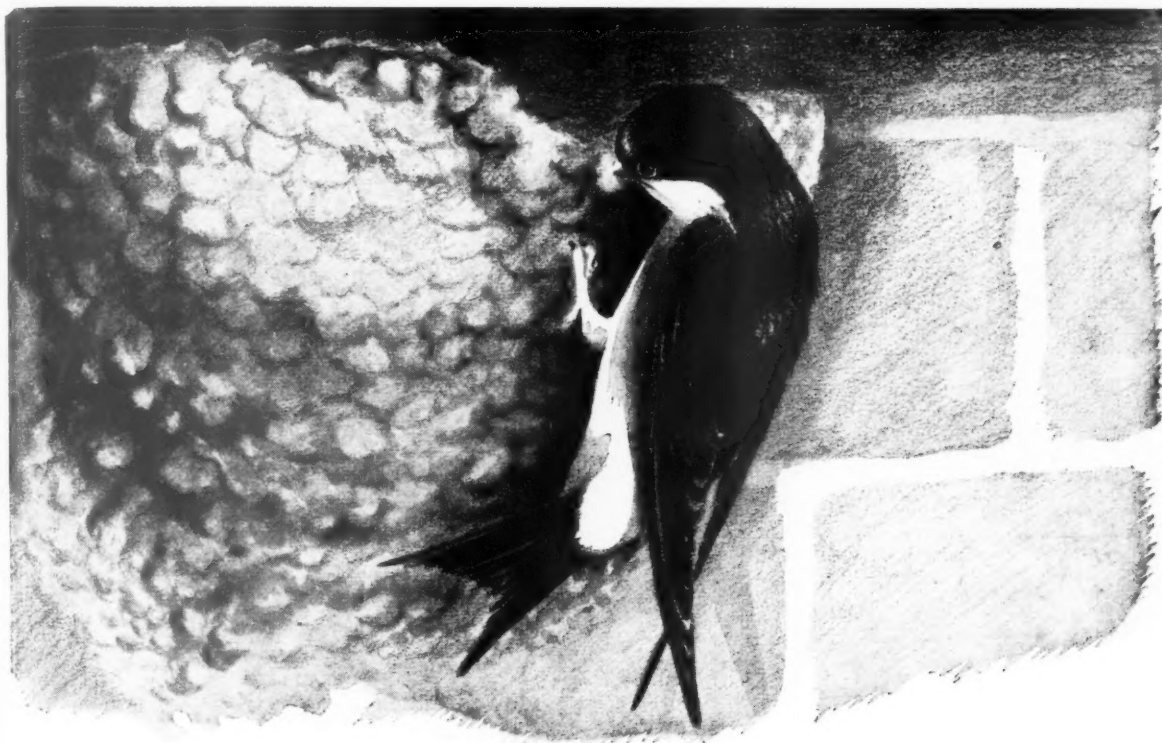
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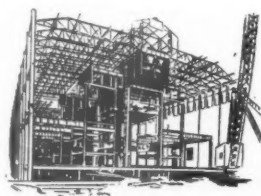
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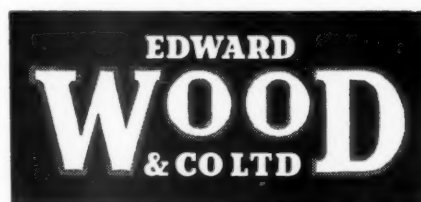
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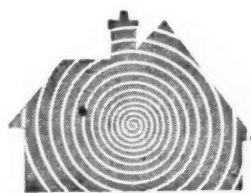
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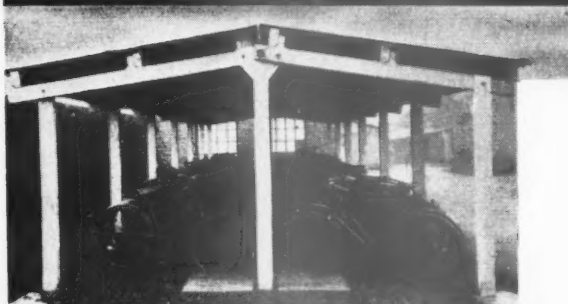


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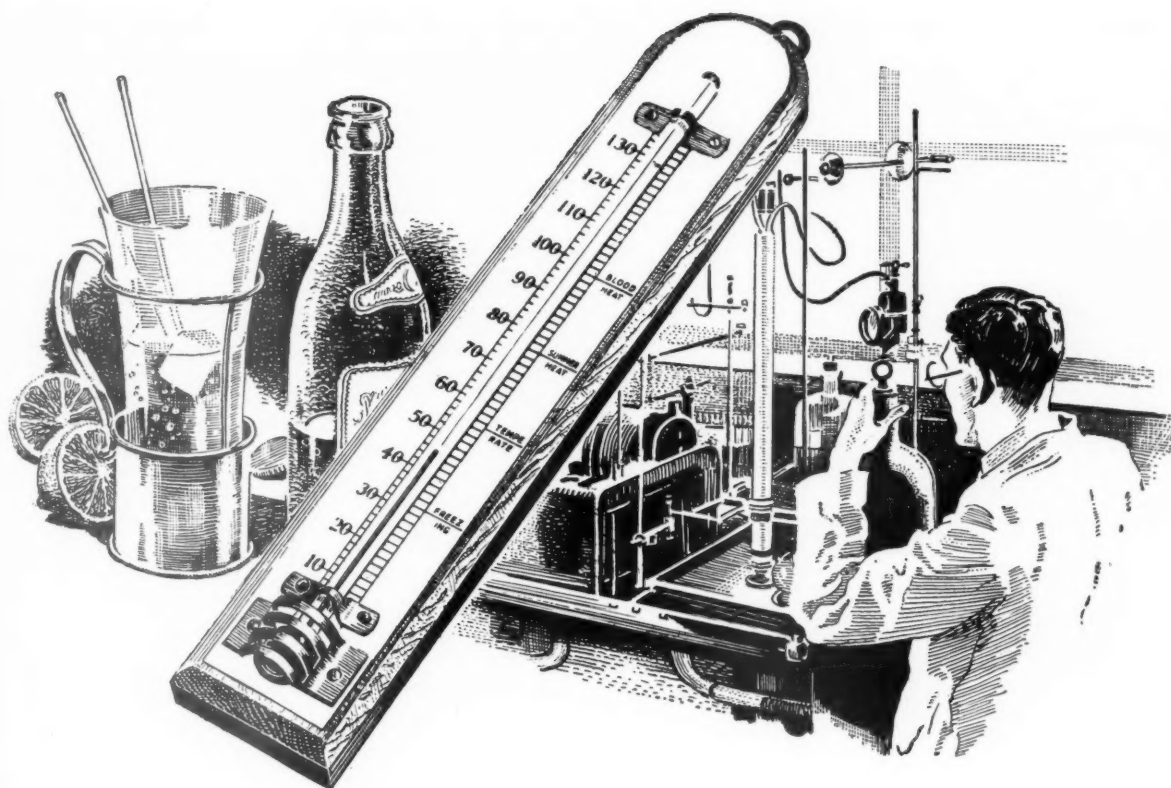


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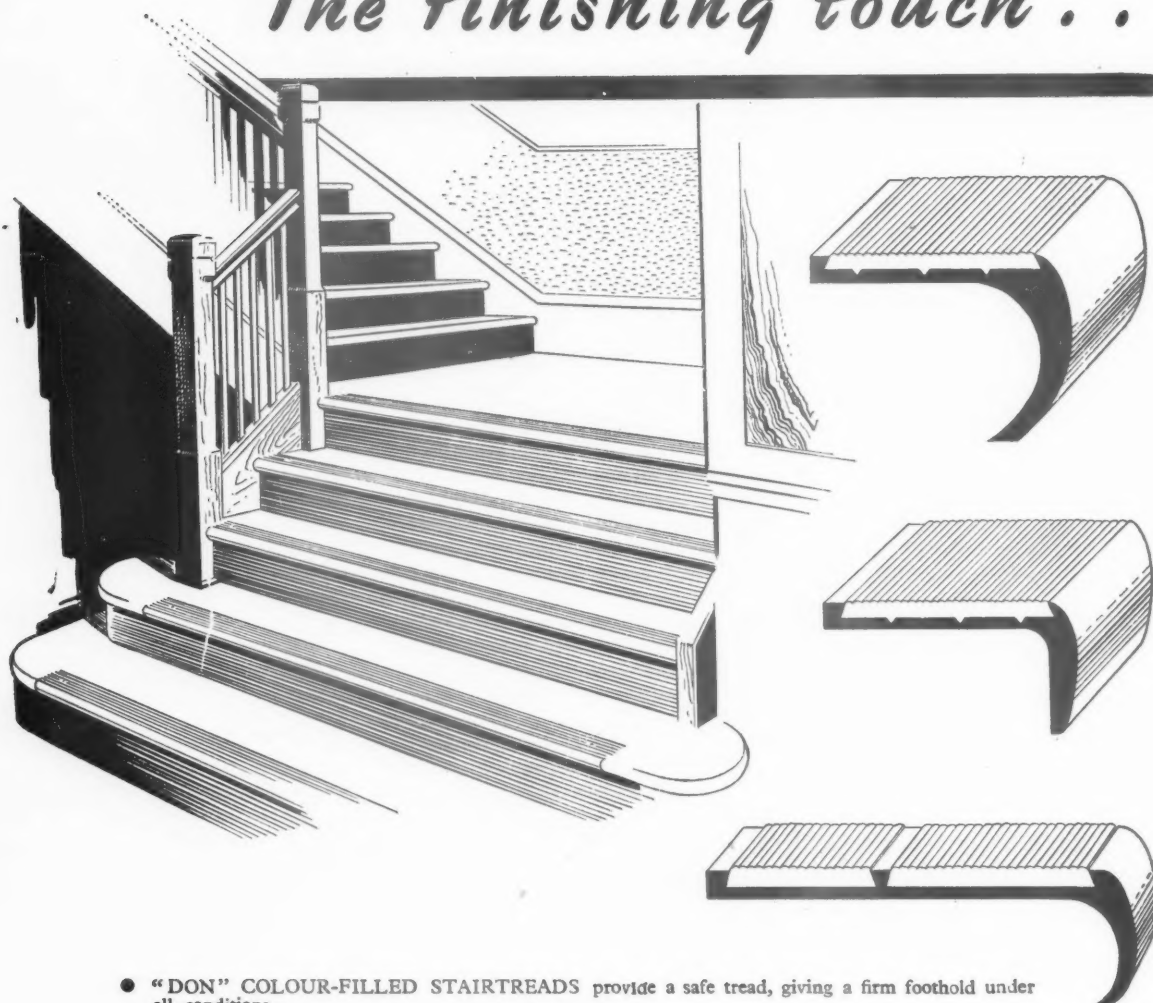
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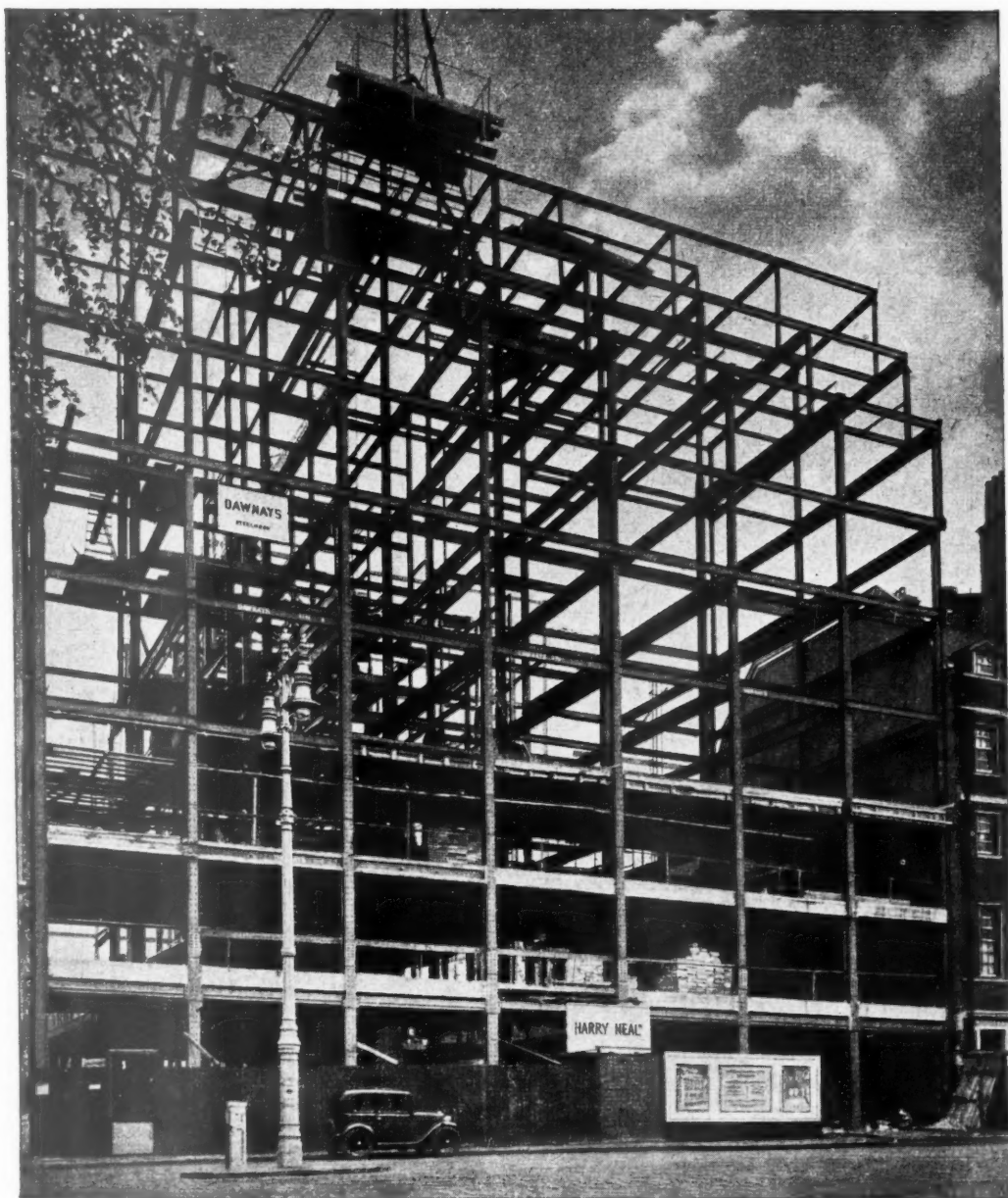
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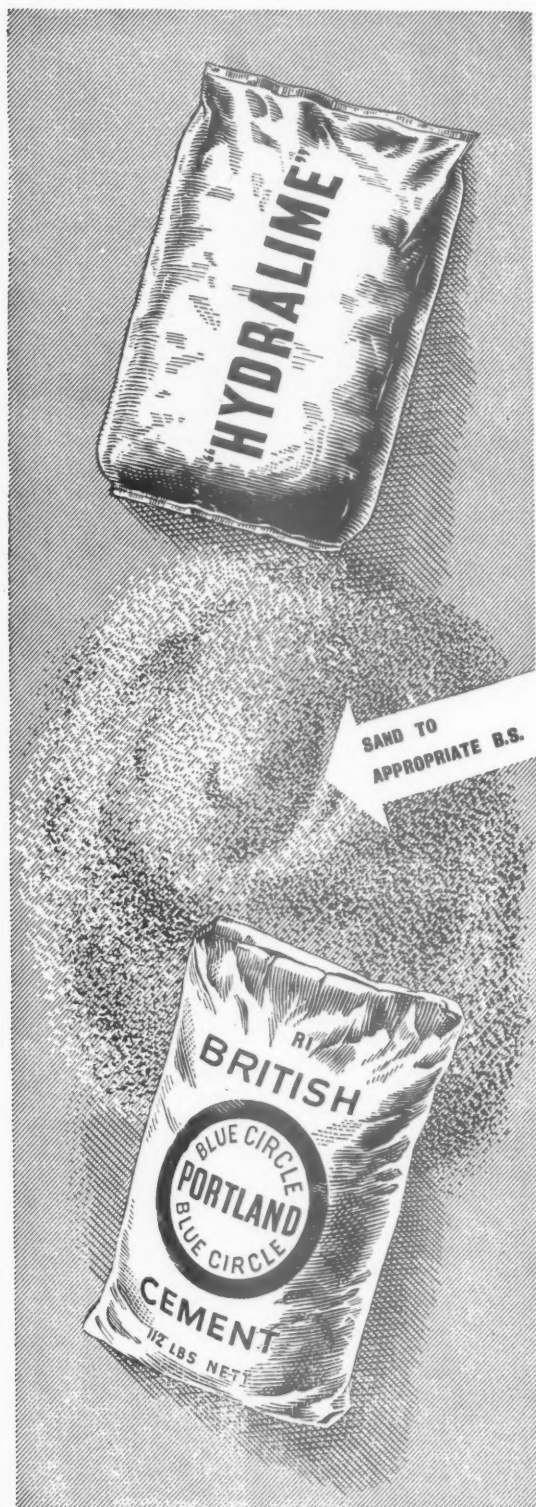
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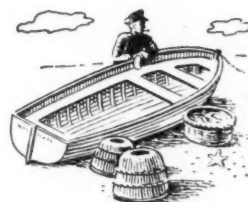
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*The illustrations are of a recent conversion at Abbey House, Victoria, London, S.W.1. Architects: Borcham Son & Wallace, London, W.C.1*

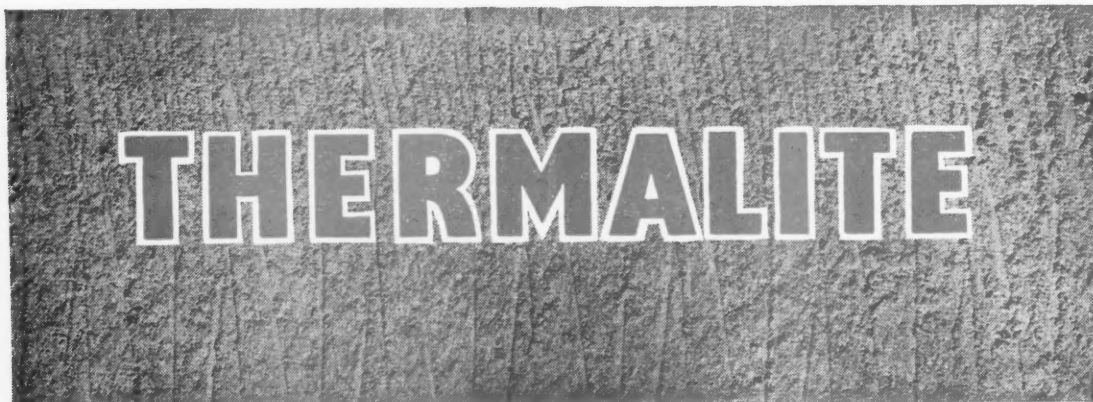
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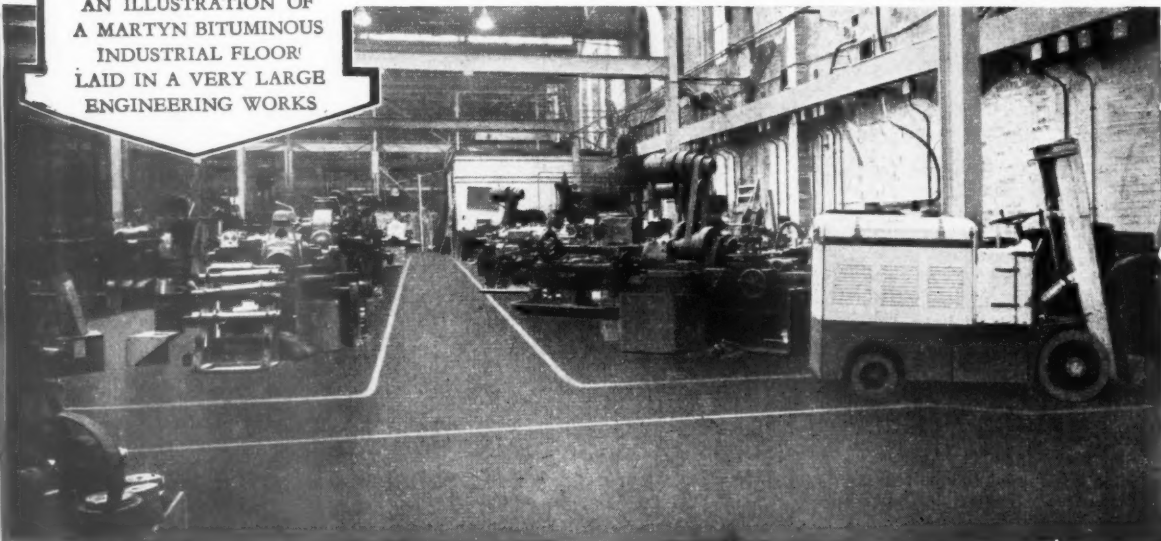
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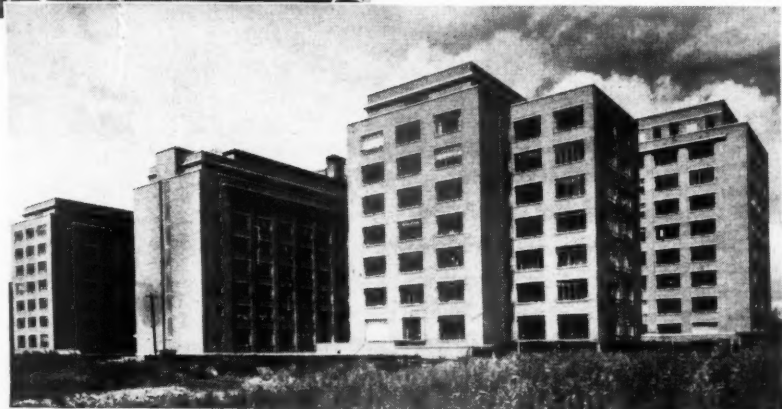
*Above:* Atlantic House, Holborn Viaduct, London, E.C.1.

Architects: T. P. Bennett & Son, F.F.R.I.B.A.



*Left:* 77-91, New Oxford St., London, W.C.1.

Architects: Lewis Solomon & Son, F.R.I.B.A.



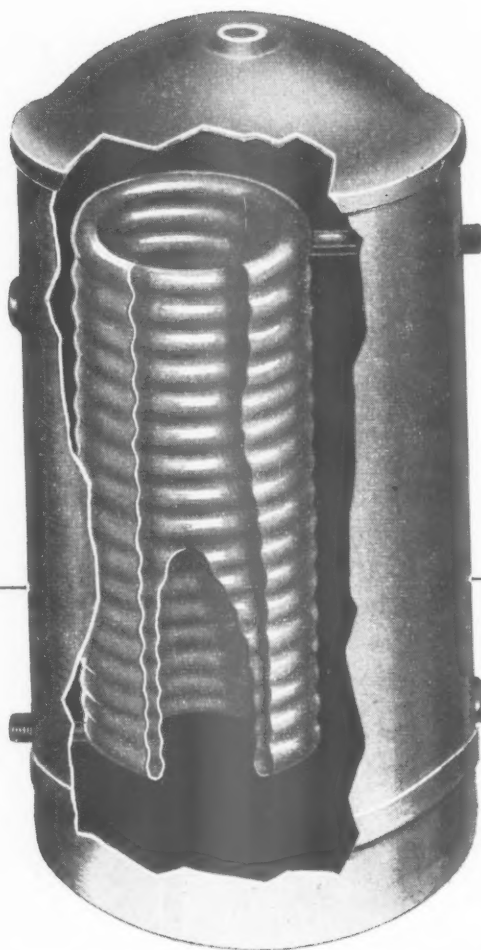
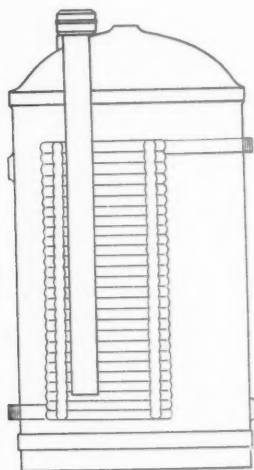
*Below:* Charles House, Kensington, W.14.

Architects: Major Arthur S. Ash, F.R.I.B.A.

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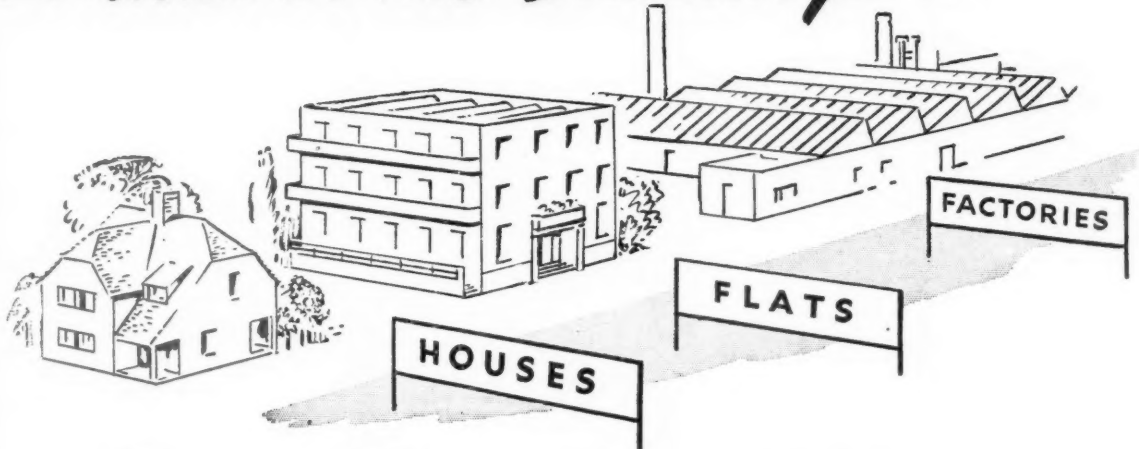
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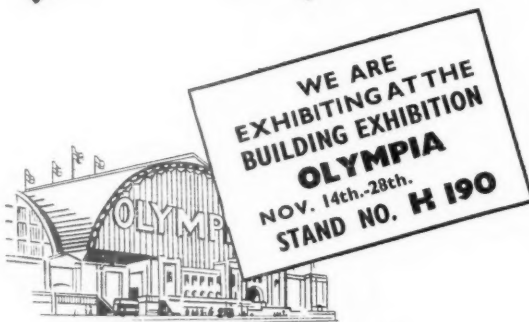
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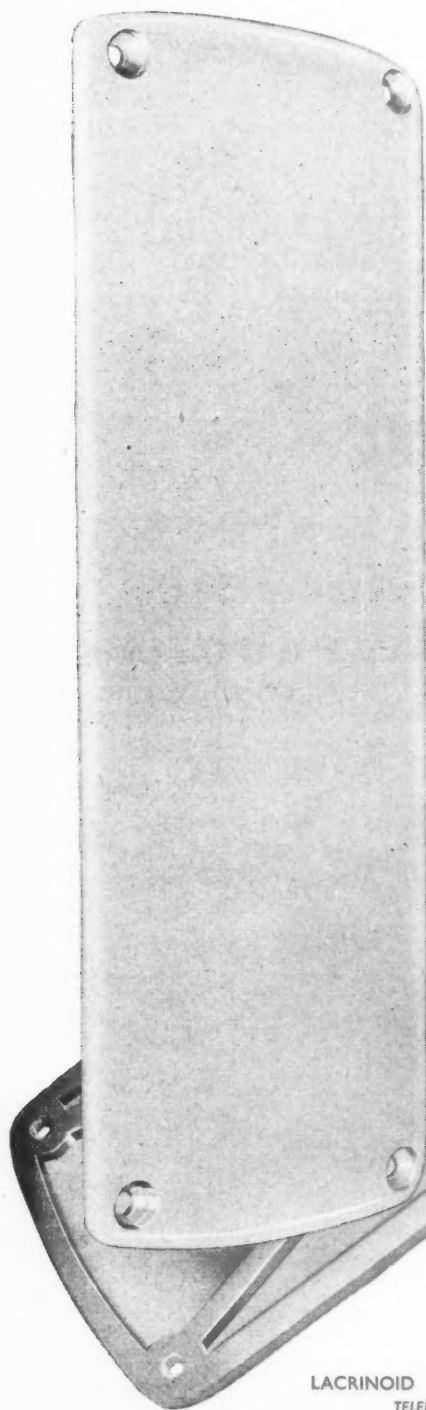
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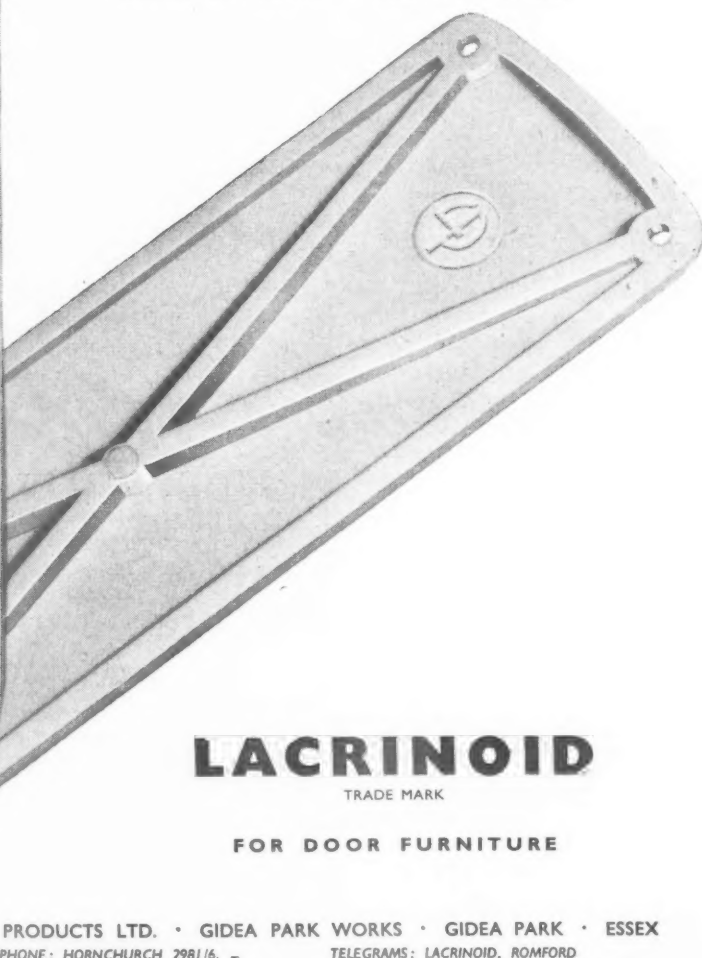


THOUGH simple in shape, these plates are exceptionally pleasant to the eye, the surfaces being subtly curved to capture and enhance reflected light. The back view shows the reinforcement which ensures long life despite any amount of hard usage. Being mass-produced, these plates are cheap as well as strong and handsome.

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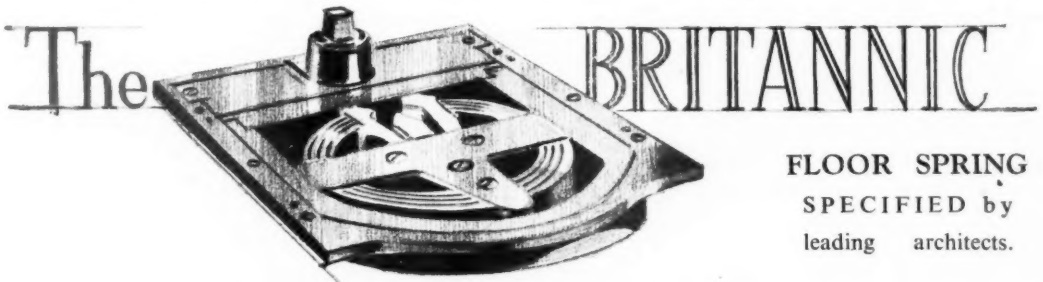
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Officially opened by H. M. King George V, 3rd August, 1918.

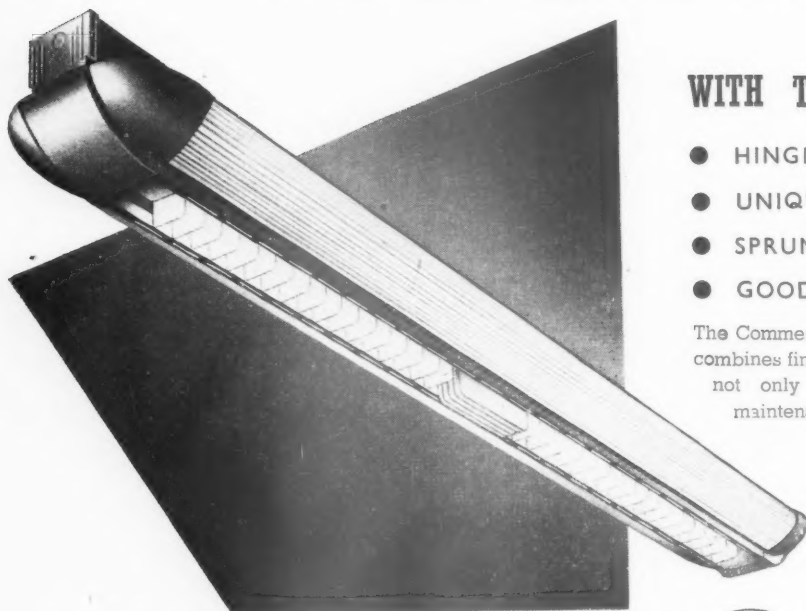
Architects : — A. Marshall MacKenzie and Son, F.F.R.I.B.A.



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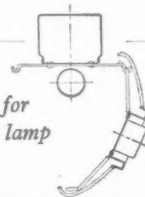
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## AN INTERESTING NEW PRIMARY SCHOOL



**Wentworth Drive County Primary School, now completed, has some novel and interesting features:**

"A primary school to accommodate 320 pupils. A school that is practical, pleasing to see, and one that the ratepayer can afford. A school, above all, to be built quickly." These were the broad terms of the brief given to Mr. S. H. Loweth, F.S.A., F.R.I.B.A., M.I.Struct.E., Kent County Architect. Only 16 months later, pupils began taking their first lessons in Wentworth Drive School.

Speed of erection was a prime consideration. Wentworth Drive thus became one of the first schools in Britain to incorporate aluminium construction. Although the front of the building, as seen from the road (i.e. the Admin. Wing, Assembly Hall and School Meals Unit), is constructed of yellow stock brick in traditional style, the two long classroom-wings—which stretch out behind—were brought on site in the form of pre-fabricated aluminium units four feet wide, ready clad both outside and inside, and supplied by the Bristol Aeroplane Company. The result is a good-looking combination of old and new.

Classrooms and corridors were both con-

structed on direct-to-earth concrete, thereby saving time and expense. The flooring material used was Accotile (thermoplastic tile made by Armstrong Cork Company).

So satisfactory has the architect's design proved, that a second and adjoining school is shortly to be built next-door to the existing building, on similar lines. Wentworth Drive's heating-chamber and meals-unit are, therefore, double-sized. They will, eventually, serve both schools.

There are many modern features in the new school. It is, for instance, wired throughout for radio and gramophone reproduction. Perhaps, however, its most interesting facet is the quality of its interior decoration. A great deal of thought was devoted to this, in order to give pupils a pleasant place to work in, with no lack of variety. The colour-schemes, particularly, have been carefully devised, and have won praise from high authority.

Every classroom has a different colour-scheme—set off by the tile floors. Here, the architect was helped by the wide range of

*This new school in Dartford, Kent, was built in little over a year. The architect—Mr. S. H. Loweth, F.S.A., F.R.I.B.A., M.I.Struct.E.—went to some trouble to see that only building materials in full supply were specified. It is interesting to note that he used the same flooring material, in a variety of forms and colours, for well over half the ground-area of the building. He chose Accotile, the new asphalt-tile flooring made by the Armstrong Cork Company.*

colours in which Accotile is available.

All in all, a not-unimportant part in the project was played by Armstrong's Accotile. The decorative qualities of the tiles have given the floors an appearance of near-luxury. It is quiet to walk upon, and even in the corridors, where the hardest wear is expected, it will last well. It is very easily cleaned and—most vital—its extremely low price has helped to make Wentworth Drive School not only a first-class building but "one that the taxpayer can afford."

### Building Trades Exhibition OLYMPIA 1951



Accotile is on display at Stand 46, Row C

For full information about Accotile, architects and builders are invited to telephone or write to Armstrong Cork Company Limited, Flooring Department, Bush House, Aldwych, London, W.C.2. Tel: Chancery 6281, Scottish Branch: 5 Oswald Street, Glasgow, C.1. Tel: Central 5703.

*The following were responsible for Wentworth Drive County Primary School: S. H. Loweth, Esq., F.S.A., F.R.I.B.A., M.I.Struct.E., County Architect; R. T. Green, Esq., F.R.I.B.A., County Architect (in charge of Schools); R. C. Passmore, Esq., A.R.I.B.A., Principal Assistant; C. B. H. Cremer, Esq., A.R.I.B.A., Architect in Charge; Messrs. Gilbert Ash Ltd., 2 Stanhope Gate, London, W.1, General Contractors.*

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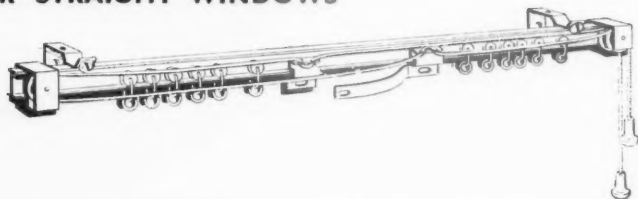
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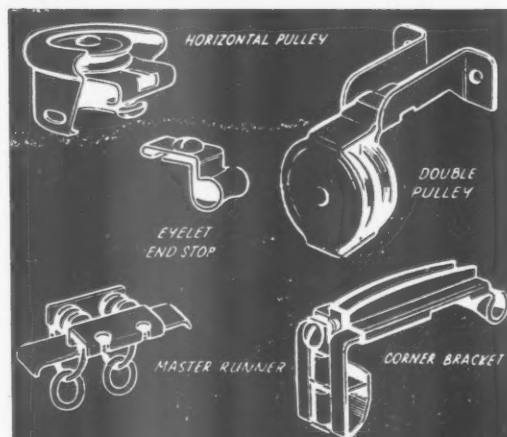
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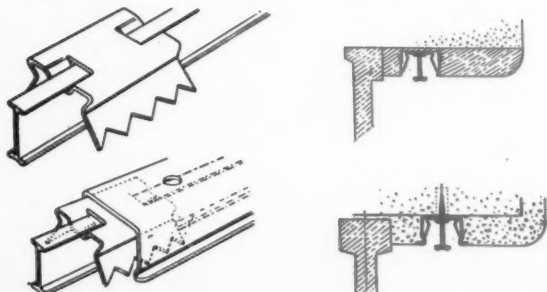


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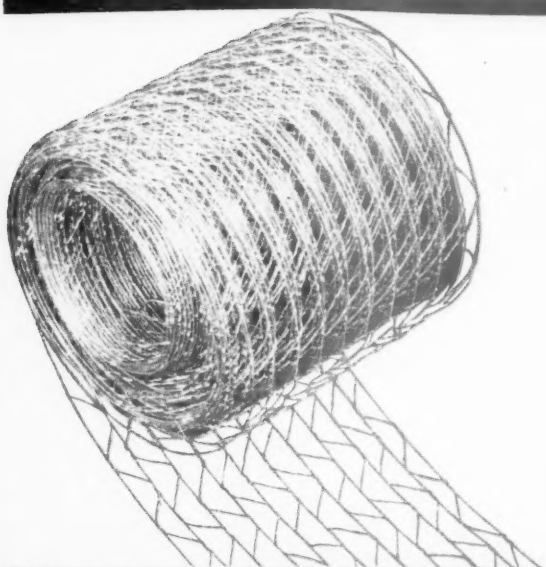
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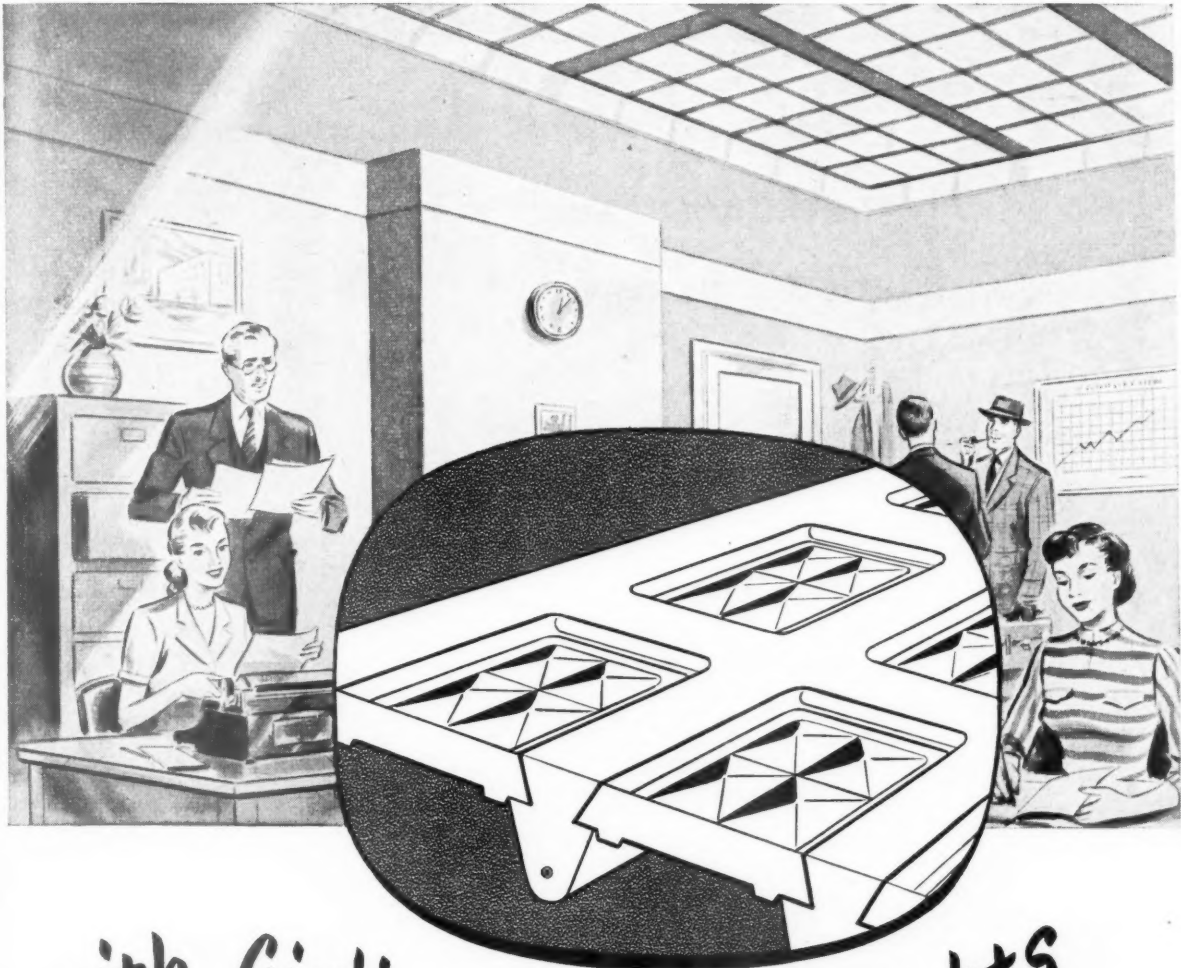
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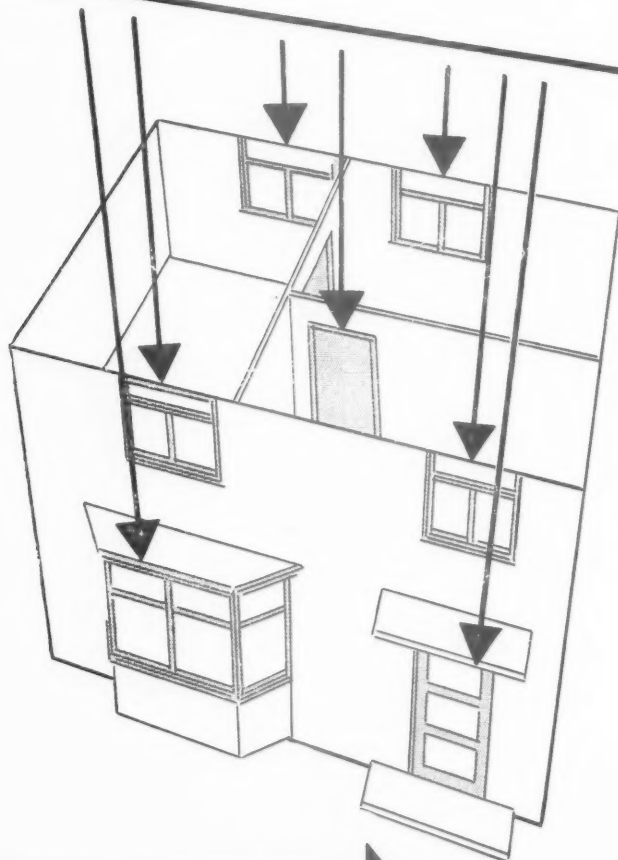
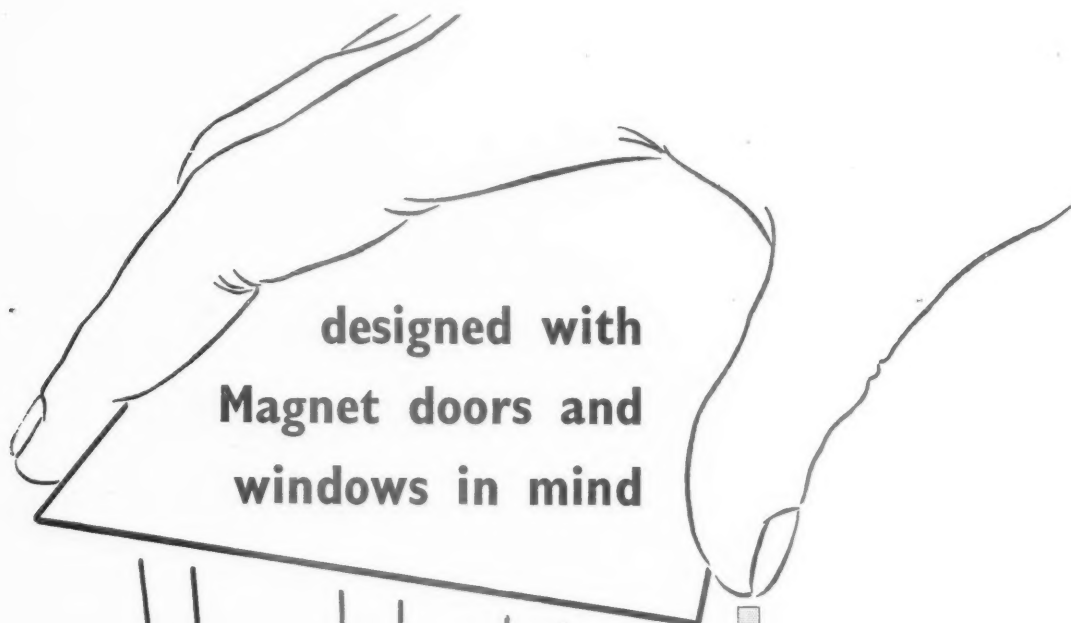
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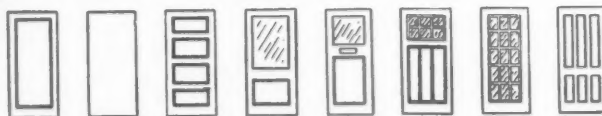
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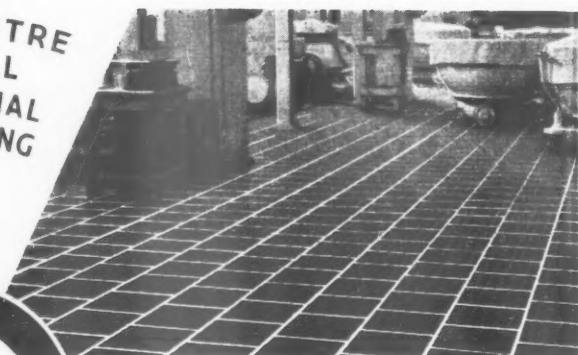
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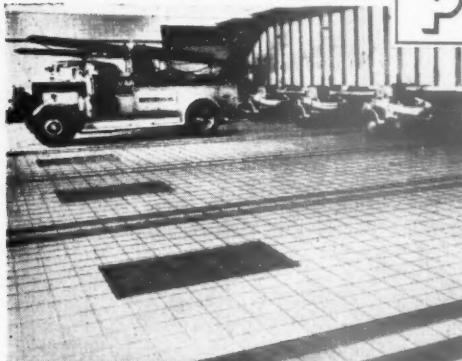
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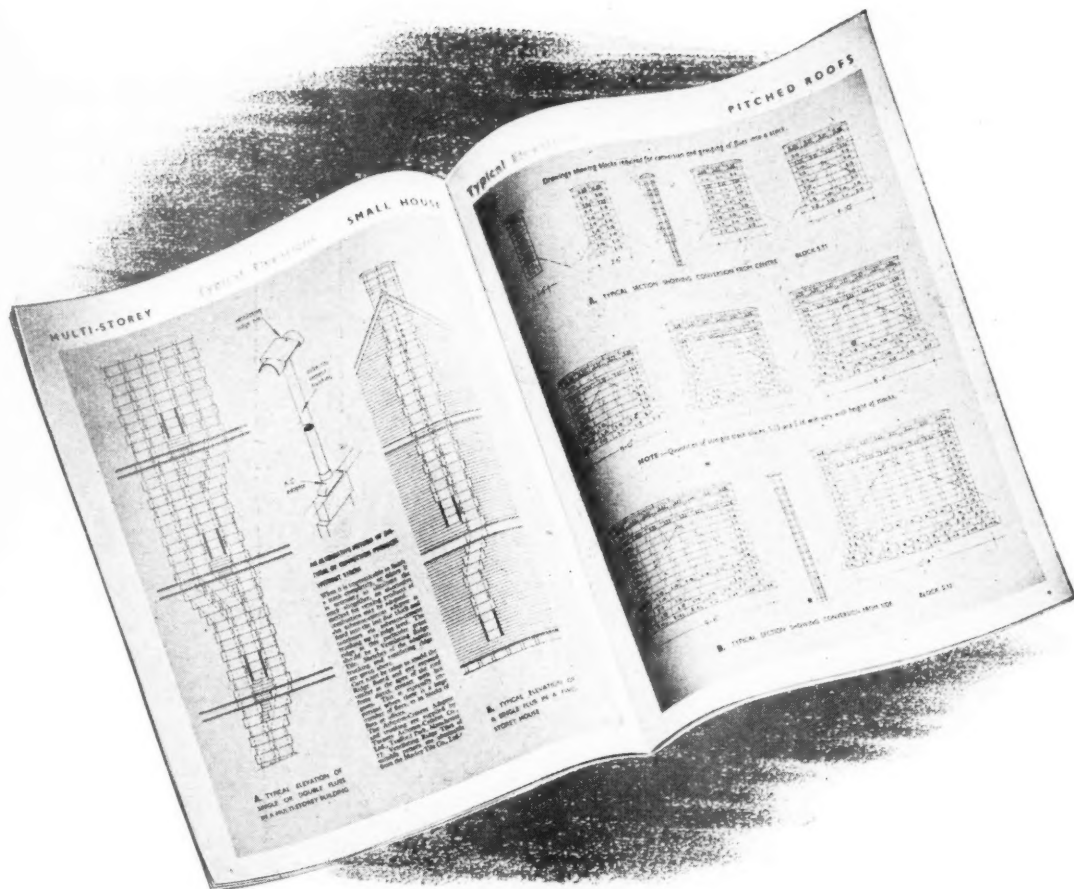
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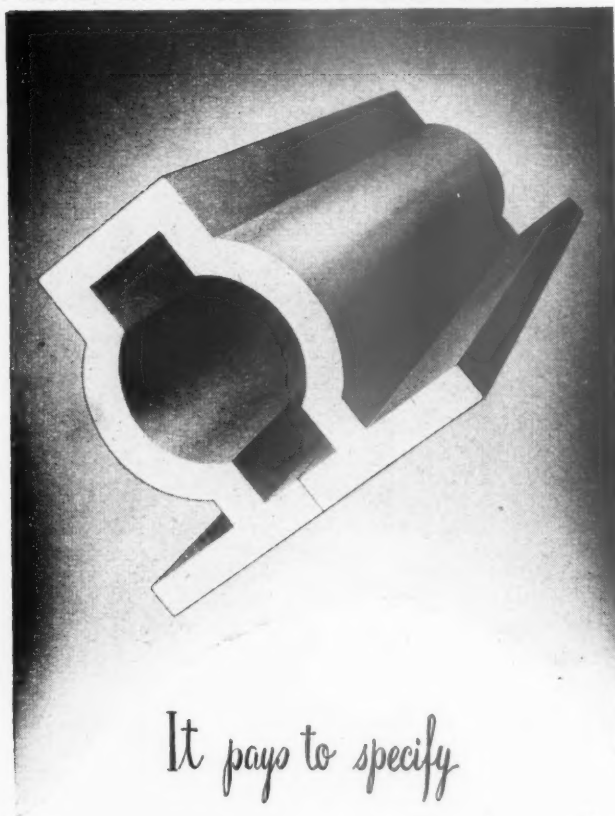


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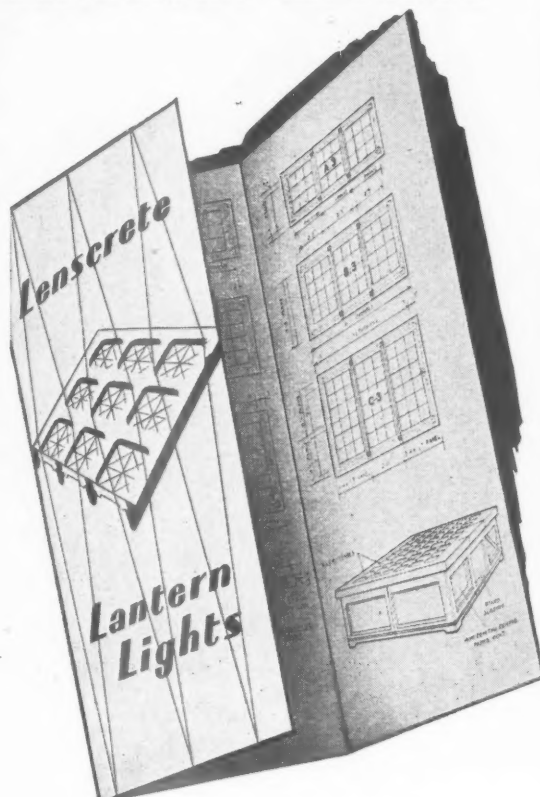
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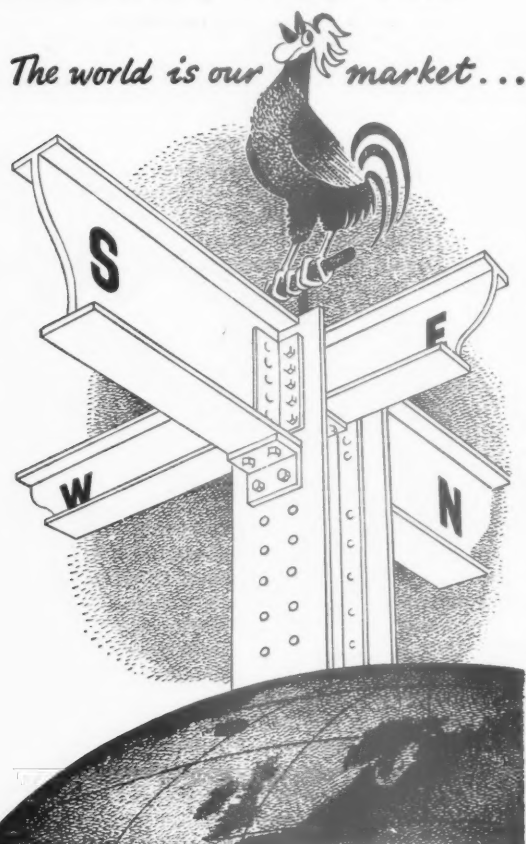
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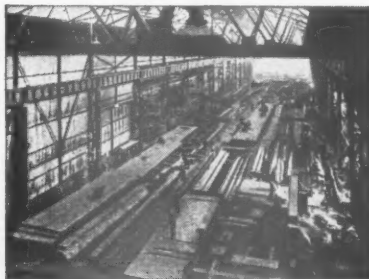
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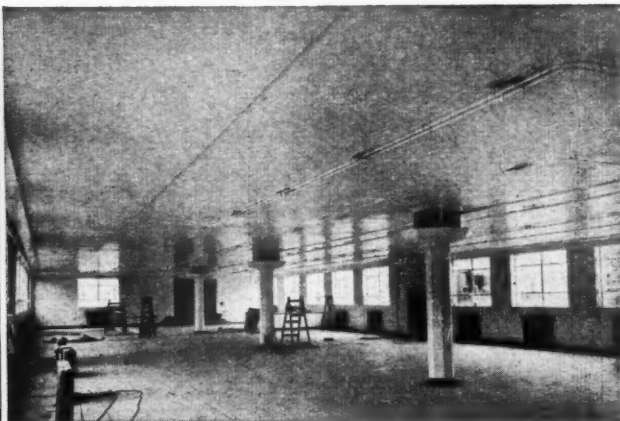
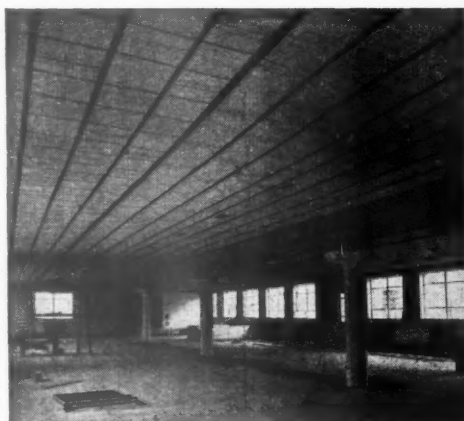
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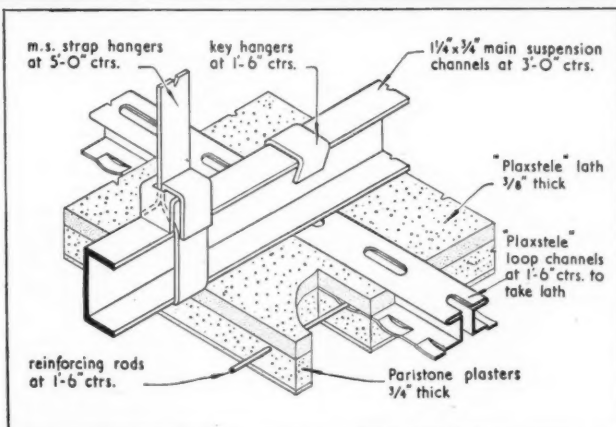
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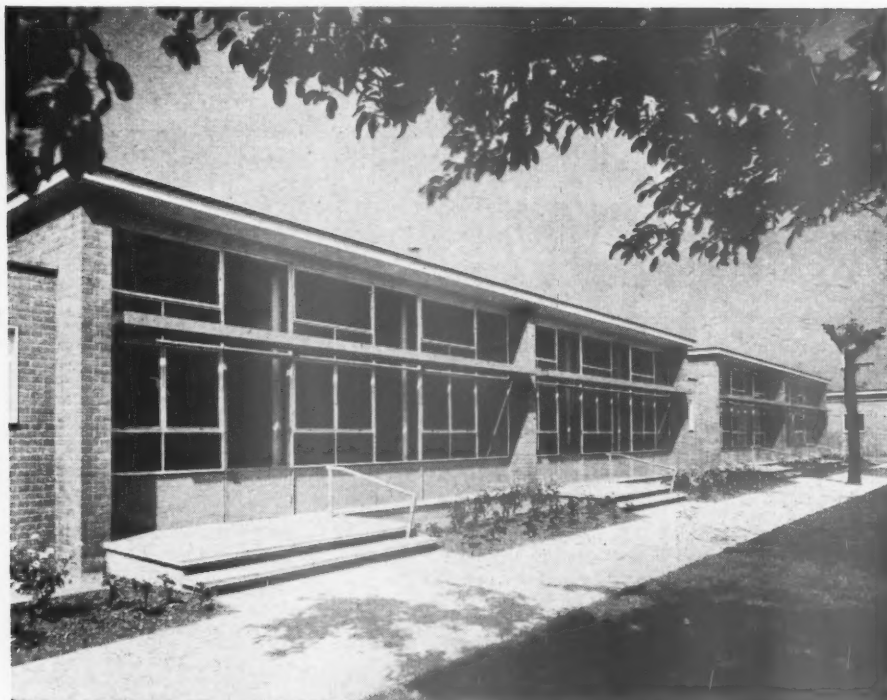
The isometric sketch shows  
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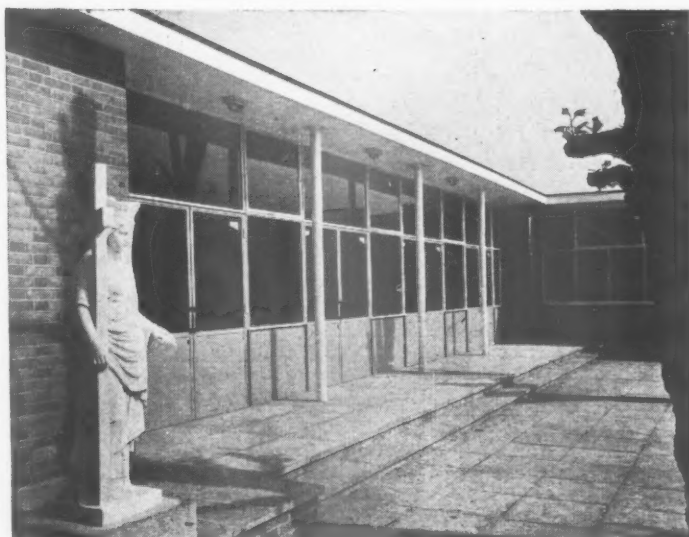
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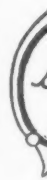
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THE ARCHITECTS' JOURNAL

No. 2957 1 NOVEMBER, 1951 VOL 114

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## NEW HOPE FOR THE SOUTH BANK

The news of Hugh Casson's appointment as consultant to the government on the immediate future of the South Bank site is very encouraging. I understand that he is to study the problem in collaboration with LCC architect, Robert Matthew, and the chief officer of the Parks Department, who will jointly submit a report in about a fortnight.

A lot of people, ASTRAGAL included, have been worried lest the site was being allowed to relapse into the state of squalor from which the exhibition rescued it, to remain like that until permanent rebuilding begins some years hence. The LCC is clearly aware of this peril, and is doing a great deal to avoid it. But a comprehensive short-term plan

is badly needed, and Messrs. Casson, Matthew and Huddart are the obvious men to provide it. Even if every one of their recommendations does not prove feasible, it is a great thing to be sure that the right recommendations will be made.

\*

It will no doubt be asked why such a short-term plan was not made months ago, but better late than never. How nearly it was left too late is shown by the fact that demolition work on the site has had to be stopped (except in the case of certain structures like canvas roofs that obviously have no future) until the report is ready.

## PIROPEO

The complete verbatim record of the CIAM Congress held at Hoddesdon in July has just been issued\* and is well worth browsing through. As nearly always happens at congresses the impromptu discussions that followed the papers were often more interesting than the papers themselves. I cannot resist quoting a typical passage from the remarks made by Ernesto Rogers, the Italian architect, during the discussion following an admirable talk on "The Human Scale at the Core" given by Dr. Scott Williamson, of the Peckham Health Centre. (The subject of the whole congress, it will be remembered, was the core of the town.)

\*

I haven't picked out this passage only because it is amusing and because it is typical of the charming, ebullient Ernesto Rogers. He has the capacity, which he shares with Aalto and some others, of concealing shrewd observations among apparently light-hearted comments. "In Milano," said Rogers,

\* Some extracts will be printed next week.—Ed.

"the present core is very crowded. It has the cathedral and also the Galleria Vittorio Emanuele—with all the cafés and theatres. The *piropeo* is there (a very important word from South America which means 'to say kind words to ladies while walking,' which is what we do in the Galleria Vittorio Emanuele; this is a very important biological function). A new core was suggested farther out of town. It didn't succeed. One reason was political and economic, but another was that it is very difficult to oblige people to *piropeo* just where the architect thinks they should."

Planners of new civic centres should read this a second time.

## SHOE-TOWN'S SHOW

Pilgrims voyaging to Northampton this month in search of Henry Moore in St. Matthew's Church—or perhaps just a new pair of shoes—are advised not to miss the exhibition of "100 Years of British Art" which is on show at the local art gallery opposite Godwin's Town Hall. (Incidentally I hear that this latter building is included with Bassett Lowke's famous Peter Behrens home in the MOTCP list—a fact which should reassure all of us in general and Dr. Pevsner in particular.) This exhibition, admirably organized and most imaginatively staged by the local Arts Society, covers a wide range of pictures and objects from Pre-Raphaelite loans (from Birmingham) to John Collier—a real corker this one called "Sacred and Profane Love." It covers about 50 square feet and is worth at least as many shillings—and Graham Sutherland, and from a Victorian wedding dress and a chamber pot in patchwork china (lent by Earl



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Spencer) to an Ernest Race sofa and some very remarkable pieces of furniture designed by Mackintosh for Bassett Lowke. (No, sir, they are *not* to a scale of 1/10 inch to 1 foot. We've made that joke already.) I must say that I found them to be more interesting than handsome—there was one particularly alarming clock—but it was nice to know they still exist and are being well looked after.

\*

The same can be said, I am glad to say, of Henry Moore's and Sutherland's works in St. Matthew's Church. The local arguments over their arrival—a disgust which I believe dominated all conversation in the factories for some weeks—have died down, and both works have now settled in comfortably, and are meeting with general guarded approval in the parish.

\*

The next "Church Art" wrangle, I suppose, will start when Basil Spence gets busy at Coventry. He has taken a big risk, as Osbert Lancaster recently pointed out, in making the main focus of his design a huge tapestry. Who is there in this country, one wonders, capable of designing and making such a tapestry? Somebody will have to get weaving on this pretty soon.

#### A LANDMARK SAVED

The ownership of Hadlow Castle (see illustrations) changed four times since the war and at last it came into the hands of a demolition firm. At this serious point some people who care about such buildings forced an inquiry. The result has been that the great tower, sometimes called May's Folly, is to be saved by a building preservation order of the MOLGP, provided that funds can be raised. This is good news, but it is sad to think that the house itself will probably vanish.

\*

The house is a good piece of early Gothic Revival built about 1820 by the wealthy eccentric, Squire May, though the hall and the hundred and thirty-foot long corridor on the ground floor are later and the tower was not added until 1847. Some of the refined detailing of the early period in the interior is delightful and the whole place, which looks its best on a windy October evening, has a period atmosphere solid enough to be cut up into

*Although the tower of Hadlow Castle, near Tonbridge, (see page 518) may be preserved as a result of a preservation order being made by the MOLGP, the house itself is not likely to be saved, as Astragal mentions in his note on this page. Right: the ceiling in the breakfast room. Below: left, a corridor on the ground floor; right, entrance hall.*



paper-thin slices and served as a Le Fanu novel.

\*

At least the tower may remain to perpetuate some of this atmosphere. It is a fine, soaring piece of romance, which seems to have been inspired partly by Fonthill Abbey and partly by the Bruges belfry, but no one seems to know who the architect was. Various folk tales are current about the tower. One says that May wished to make the summit his tomb in order to defeat a prophecy that Hadlow would remain in his family only if he was buried above ground. Another tale relates that his wife deserted him and, in a mood of crazed despair, he built his tower in the hope that the sight of it would bring her back. A third story has it that he merely wanted to view the sea. Unfortunately even the adding of a top turret could not raise his line of vision above the North Downs.

\*

My thanks to MOLGP for preserving this functionless fantasy; to the noble

vigilantes for warding off its destruction; and to you, haunting spirit, for the May madness which conceived it.

#### STILL FIVE YEARS AWAY

Although it seems to me most unlikely that I shall ever have a new car, because even if I live long enough I shall not be able to pay for it, I still go to the Motor Show from sheer curiosity.

\*

This year it struck me that there was far less chromium plate on the British cars (an excellent thing) and that quite a number of the Americans were a shade less flamboyant, though mostly still rather vulgar. But alas, the Continental bodywork designers seem to have a far better eye than all but a very few of ours, though I suspect that sleek look comes too often from lack of luggage space, with which we are now fairly generous. I noticed, too, that firms like Delage and Delahaye know how to give big cars an air of destroyer-like swiftness and manoeuvrability, with none of that battle-wagon stolidity which (sh!) — and — seem unable to avoid.



## *Vertical Feature Preserved*

The tower of Hadlow Castle, a famous Kentish landmark, was recently threatened with demolition. An inquiry was held with the result that the MOLGP has issued a preservation order. If funds are raised the tower, built in 1847 and often called May's Folly, may be saved. (The house itself, however, which was begun about 1820, may be pulled down.) It is encouraging to learn that, as regards this rare Gothic fantasy, officialdom is prepared to assist

in the preservation of not only a mere functionless folly, but a Victorian folly at that. Its keener advocates may even protest that it has a function. Certainly travellers through the Medway valley must have learnt to appreciate the variety which this vertical feature provides, like a punctuation mark, in the low and level lines of the Kentish meadows. See also ASTRAGAL'S comment and illustrations on page 517.

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Stand layout made it easy to find any make: a 4-inch plinth and the makers' name on a sign suspended from the roof. A good Christmas wish: will somebody please send ASTRAGAL a Ferrari?

#### NEW GOVERNMENT, PLEASE NOTE

One hopes that one of the first deeds of a new government will be a drive to patch up or reclaim borderline houses for 10 years and to cut out all obstacles to conversion.

\*

These obstacles are often insuperable. Last month a friend of mine wanted to buy either of two houses, and repair and convert to make two good dwellings of 6-7 rooms each. Both houses were suitable and both available. He had some money but needed a mortgage. The building society were willing, provided a building licence was forthcoming. A suitable builder was willing and able. But in one case the licensing authority had not a large enough quota left; in the other the licensing committee did not meet for 3 weeks and the auction was to be held the following week.

#### ELECTRICITY OR NOT?

Since I wrote a month ago about the Southern Area of BEA refusing to supply current to new buildings, I have discovered through sundry legal experts that it isn't solely a matter of the Treasury and capital expenditure. In the old days, of course, the company was virtually compelled to supply current to anyone who wanted it, and this was not altered by the nationalization Act.

\*

With great presence of mind, however, Mr. Gaitskell made an Order in February of 1948 which virtually repealed the Electricity Lighting Act of 1882, and as far as I can make out the companies are under no obligation whatever to serve either new or existing buildings, or to give anyone an extra supply if they want heat as well as light. Nor, if you ask for a supply before starting to build, can you be sure of a straight yes or no; or, indeed, sure of anything except a rather contemptuous indifference. I'm glad the gas companies, also nationalized, retain their outmoded habit of saying thank you if you ask for gas.

ASTRAGAL

## The Editors

### WANTED: AN RIBA SELECTION COMMITTEE

EVER since their student days architects have had a code of gentlemanly professional behaviour impressed on them, which means among other things not angling for jobs—nor even appearing to do so—nor permitting rivalry between one architect and another for the same jobs. The result is a reluctance—which does them credit—to start a fuss about who gets the jobs and how, though they may think much about the question in private.

It is not healthy, however, when their thoughts on the subject take the form of a widespread discontent, and if professional etiquette prevents them from ventilating their feelings it is the duty of the JOURNAL to do it for them, even at the risk of incurring the wrath of those in high places.

One aspect of this delicate subject, which is causing some discontent at the moment, concerns the method employed by the RIBA of selecting architects when the Institute is approached by outside bodies or individuals and asked for the names of suitable architects for particular jobs. Requests of this kind come to the Institute from local authorities, industrial undertakings, commercial firms and potential private clients. For many years it has been the custom for the nomination of architects in these circumstances to be the personal privilege of the president, who in practice no doubt consults the secretary and perhaps other officials, and it must be made quite clear that no suggestion whatever is being made here that RIBA presidents or officials have at any time misused the powers given them or exercised their responsibilities in any way but conscientiously. It is, nevertheless, not unreasonable to suggest that this very responsible task should not be in the hands of one individual or even of two.

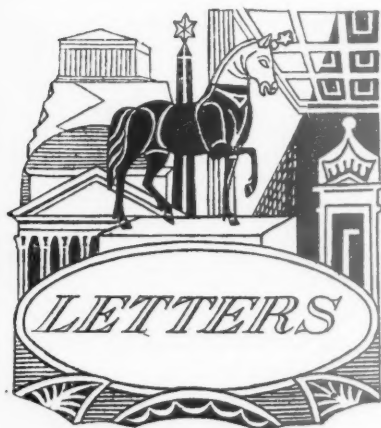
The RIBA has a whole system of standing committees appointed to deal with various matters, but the matter that surely most requires a carefully chosen committee is without one. It is unfair on the president to expect him to be personally familiar with the architects in every region who are best qualified to carry out every type of job, but a committee could make just this its business, and compile and keep up to date a most useful register of regional architectural practices and their capacities.

The setting up of such a committee, moreover, would be a reassurance to the profession that the difficult task of nominating architects was being done systematically and not haphazardly, that the choice of architects was not being restricted to a narrow circle nor made the occasion of rewarding good RIBA committee men. It would, perhaps, offer an opportunity of trying to get the available work distributed more evenly and of giving a start to young architects, whose capacities a client has no means of checking but to whom he would willingly give a trial if an RIBA committee vouched for them after proper investigation.

There are no doubt difficulties involved in setting up such a

committee, but the RIBA should consider the whole matter very seriously. It is the RIBA's code of professional conduct that at least partly prevents architects from fighting their own battles in aid of the most efficient possible distribution of available jobs, and the Institute therefore has a special duty to see that the profession as a whole does not suffer through observing the code so conscientiously.

One further point: whatever the future method of nominating architects, secrecy of any kind is undesirable and it should be a matter of routine that a prompt statement is published in the RIBA Journal detailing all requests for the names of architects that reach the RIBA and announcing which architects the RIBA has recommended.



D. A. Howells

Osbert Lancaster, Hon. A.R.I.B.A.

P. H. Knighton, A.R.I.B.A., and

W. H. Evans

Desmond Henly, A.R.I.B.A.

## Plastic Theory of Steel Structures

SIR.—The note on new developments in the theory of structures which appeared on page 373 of your issue of September 27 was very brief and perhaps it may be helpful to expand it a little.

The aim of the plastic theory of steel structures is to take account of the great reserves of strength of a stiff jointed frame when it is so overloaded that some part begins to yield. In general, as it yields it continues to maintain its share of the load, the excess being transferred to other parts of the structure.

The plastic theory of structures therefore deals with frames so overloaded as to be on the point of collapse and considers the awful things which might happen to structures rather than the things which really do happen. This is a grave disadvantage, because structural collapse occurs too rarely to give reliable evidence of the nature of the overloads which may cause it. The convention of multiplying the "working load" by a "factor of safety" and calling the result the collapse load is rather unreal, the more so when those working loads specified in re-

gulations are themselves often unreal. In cases where some structural damage can be allowed to occur under design conditions, and where it has occurred often enough to give evidence of the loads as, for example, in the design of air raid shelters, theories based upon collapse loads are of great value.

Concrete, too, has the ability to pass stresses from the more highly stressed regions of some stiff frames to those less highly stressed, but the phenomenon is neither so reliable nor so clear cut as with mild steel.

Plastic structural theory is by no means fully worked out, but so far it is less complicated than the elastic theory. Indeed, part of the impetus behind the investigation of the collapse loads of shell roofs is the hope that the state of stress at collapse will prove easier to describe than that which occurs under working loads and is predicted, by long and complicated computation, by the theory of elasticity.

London.

D. A. HOWELLS.

[The JOURNAL of September 20 reported the papers of Division I, Part II, of the Building Research Congress, and some comments by Prof. Baker are to be found on page 355. Contrary to the opinion of the correspondent, the plastic method of design is entirely rational; it deals with the real way a structure will collapse and with the real load at collapse. Full scale tests have borne out this theory. Results of elastic strain measurements in actual buildings have shown large errors in computed stresses owing to fallacious assumptions of the classical method of design. Some value of the plastic design will be lost if a load factor is merely applied to the recognized code loading and therefore a rational derivation of loading requirements is an essential complementary part of the method. Nevertheless, the use of the "load factor" is the only real method of distinguishing between the "known" load and the "assumed" load which are applied to the structure.—Eps.]

## Mr. Lancaster's Defence

SIR.—Flattered and surprised as I am that you should have considered my recent short talk a subject calling for full-dress editorial comment (AJ: October 18), I should welcome the opportunity of suggesting that in one particular your admirably restrained interpretation of my purpose errs on the side of over-simplification.

Having established that the type of modernism that I had in mind was that which flourished in the 'twenties you go on to imply that this has long since faded away, and I, all unknowing, was indus-

triously flogging a dead horse. But is this in fact the case?

"In this building the movement that took shape in the mind of Le Corbusier in the early nineteen-twenties . . . has reached a climate of formal purity and functional inadequacy." These words of Lewis Mumford occur not in some historical treatise but in a last month's *New Yorker* and refer to so recent an enterprise as the United Nations Building.

In welcoming the emergence of a South Bank style which I was so sanguine as to hope marked a move away from what Mr. Mumford describes as "arid mannerism," I was not so naive as to suppose that this new spirit had suddenly sprung up overnight at a single touch of Hugh Casson's wand. Signs and pointers have been clearly discernible to your readers, and to me, for a long time past, but not, I submit, to the general public. In focusing attention on the South Bank I am all too aware that I did less than justice to a number of pioneers, but here these new virtues are immediately apparent and easy to grasp, whereas previously they have commonly been of a subtlety requiring elucidation and explanation which would transcend both the limits of my talk and my powers of exposition.

May I add that with your contention that my subject, while being highly suitable for debate amongst architects and students, was not one that could with propriety be discussed in front of a mixed audience, I could hardly agree less. In my view modern architecture will never lose that faint smell of the drawing board which so persistently dogs it until its controversies generate as much heat and ill-temper among the educated public of today as did the Battle of the Styles among cultured Victorians.

In conclusion might I be allowed to put forward a plea that you, sir, set a noble example to all architectural writers and journalists by henceforth firmly eschewing the use of those two overworked and now meaningless adjectives "Modern" and "Contemporary" applied to any building or development in which you intend us to take a favourable interest?

London.

OSBERT LANCASTER.

## Hospital Maintenance

SIR.—Reports of the recent presidential address of the president of the Institution of Engineers-in-Charge will have been read with interest and a measure of concern by those most deeply anxious for the success of the hospital service. The president was reported as having criticized, inter alia, "the practice of Hospital Boards in putting an architect in charge of maintenance of hospital premises," and as having claimed that "the architect's distinctive function concerned with the planning and aesthetics of buildings has practically no application to maintenance" and that "there are regions where, for advising upon engineering maintenance proposals submitted by Hospital Management Committees for approval, the most senior engineer available at Regional Headquarters is a comparatively junior assistant in the Architect's Department."

Reference to this address appears in the JOURNAL for October 18 and extracts from the address itself are reproduced at some length in *The Engineer* for October 19. In so far as they are concerned with engineering in the national hospital service and with the various parts which should be played in respect of building and engineering-maintenance and new works by regional hospital boards, their architects and their engineers, and by hospital management committees and their group engineers and clerks of works, the extracts should certainly be read by those who are interested in the issues raised.

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The president, Mr. Chalmers, is an engineer of distinction and experience who is justly proud of the work for which he was responsible whilst a senior engineer to the LCC, and who feels that in the system he then knew there somehow (albeit a little vaguely) lies the pattern of the system he would like regional hospital boards and their management committees to adopt. If it were possible for the joint views of the architectural and engineering professions to be given they would doubtless sound a more harmonious note than the somewhat strident tone of Mr. Chalmers' criticism of architects. Be that as it may his statements cannot be suffered to pass without a comment from two colleagues on the staff of a northern regional hospital board—its architect and its engineer. The architect has known something of the operating of engineers on the staffs of County Architects and as a temporary military "engineer" has himself led a team of architects and engineers in the construction of hospitals for 17,000 patients. In 1949 he nevertheless advised his board to appoint a regional engineer. The engineer has had 32 years' unbroken hospital service including Colonial appointments, years of experience with an association of local authorities covering Wales and the National Health Service as it now is. Both realise, therefore, something of the complexity of the problems Mr. Chalmers has discussed but has left unsolved—problems of professional relationships and inter-related responsibilities, of unified or divided control, centralization or, local autonomy, distances and duplication and, all too often, of self interest, fear and distrust.

The president's address contains this paragraph:—"If regional boards wished to combine and co-ordinate engineering and building functions in one department, they would have been better advised to make the regional engineer the head of the department. For, whereas the architect's supervision of engineering is purely nominal, the engineer is no stranger to structural design and maintenance, and could very well undertake the building maintenance, possible with a building surveyor's assistance. The architect's distinctive functions concerned with the planning and aesthetics of buildings have practically no application to maintenance, and consulting architects could be engaged for new building works. Whether or not they employ architects, however, the regional board's need for the services of regional engineers will not be disputed by anyone who has understanding of the two professions."

To this we take exception.

There is ample room in the hospital service and the war against ill-health for both regional architects and regional engineers provided they possess skill, energy and sincerity of purpose and that there exists between them deference to each other's professional knowledge, mutual respect and close and disinterested collaboration. That such a state can exist has been amply proved in the region in which it is our privilege to serve.

May we hope that, when next he addresses his colleagues or exercises his considerable influence, the president of the Institution of Engineers-in-Charge will lead his fellow-professionals in an endeavour to solve our common problem in the spirit of the opening lines of this paragraph rather than attempt to exalt his own at the expense of other allied professions, for in such a way engineers show their disinterested wish to serve the hospitals of Great Britain.

P. H. KNIGHTON (Architect).

W. H. EVANS (Engineer).

Newcastle Regional Hospital Board.  
Newcastle.

## Organic

SIR,—Your brief report and photographs of the Swedenborgian Chapel by Lloyd Wright (eldest son of Frank L. W.) in the issue of September 13 set me off in the

direction of Palos Verdes (28 miles south of Los Angeles), with the main purpose of obtaining some information about the heating and ventilation of the chapel, which is obviously a question of great importance in a structure of this type.

A brief evening visit and a talk with the preacher, told me that in the floor and shoulder-height walls there is radiant heating, to be provided by a boiler which will be installed at the base of the proposed belfry, to be located near the left corner of the structure, shown in your main photograph. This will provide "comfortable" heating during the fairly cool evenings of the winter months.

The ventilation is effected by a number of panels on all sides of the building, having fly-screens and metal casements opening outwards, which allows the cool, almost continuous sea breezes to blow through over the heads of the congregation, thereby avoiding draughts. There is no forced ventilation of any kind.

Your photographs show, and I had the feeling, that a morning service in the glaring sunshine would not be too comfortable, and with that question in mind I called on Lloyd Wright.

He showed me a model of the completed scheme, and explained that the structure as seen at present was incomplete without the lines of trees that he had planned, and that have been planted since your photographs were taken. Within two years or so, these will provide an effective natural shade, and, as time goes on, the foliage will almost envelop the delicate structure, giving the effect of extending the walls and roof out to this natural screen, and thereby creating a sense of spaciousness, and a feeling of tranquility. A little of this "atmosphere" was apparent that evening despite the smallness of the newly planted trees, and the comparative barrenness of the exposed site. Trees will therefore play a vital part in the final composition, and in a climate like that of California, where plant-life is so prolific, the incorporation of trees into the general conception is not uncommon.

The preacher and congregation can certainly be happy with the knowledge that each day will bring an improvement in the ventilation and screening, and they will be able to watch the formation of this natural and wonderful arboreal enclosure, beyond the glass walls of this delightful chapel.

California.

DESMOND HENLY.

## DIARY

**General Meeting of the TPI.** Installation of E. H. Ford as President for 1951-52 and the delivery of his Presidential Address. At Caxton Hall, Caxton Street, S.W.1, at 6.45 p.m. NOVEMBER 1

**Victorian Architecture.** Lecture with lantern slides by John Betjeman. Tickets 10s. (reserved), 5s. (unreserved), in aid of the Shoreditch, Hackney & Highbury Housing Association. Tickets from Mrs. Lankshear, 77, Mountview Road, N.4. At the Forum Club, 6, Grosvenor Place, Hyde Park Corner, at 6 p.m. NOVEMBER 5

**RIBA President's Inaugural Address.** Presentation of the London Architecture bronze medal to A. J. P. Powell and J. H. Moya, for the Westminster City Council's Housing Scheme at Pimlico. At the RIBA, at 6 p.m. NOVEMBER 6

**Presidential Address to the ICE.** By A. S. Quartermaine. At the ICE, Great George Street, S.W.1. At 5.30 p.m. NOVEMBER 6

**RICS Ordinary General Meeting.** At the headquarters, 12, Great George Street, S.W.1, at 5.30 p.m. NOVEMBER 12

**The Design and Planning of Colleges for Further Education.** Symposium at the Architectural Association, 34 Bedford Square, W.C.1. Entrance fee, one guinea. 9.30 a.m. until 6 p.m. NOVEMBER 14

**Building Exhibition.** At Olympia. Week-days 10 a.m. to 8 p.m. NOVEMBER 14 TO 28

**The Future of Planners.** A talk by Sir George Pepler. Organized by the Students' Planning Group of the TCPA. At 28, King Street, Covent Garden, W.C.2. At 6.15 p.m. NOVEMBER 15

**What the Building Industry expects from the Technical Colleges.** A discussion between F. M. Sleeman, W. A. Yeomans and R. L. Jones at the NFBTE Conference. At 82, New Cavendish Street, W.1, at 10.30 a.m. NOVEMBER 17



The new Power Station on the south bank of the Thames, facing St. Paul's, is nearing completion. Above is a view of part of the glass and ferro-concrete roof which is of an arched lattice construction, incorporating 12 in. x 12 in. x 1 in. moulded glass lenses. The roof light is nearly 300 ft. in length and is believed to be the largest of its kind so far achieved. The span is 26 ft. and expansion joints are incorporated at about 25-ft. centres. A similar roof of 35 ft. span is now being constructed for another power station, and designs with 40- and 50-ft. spans are contemplated. The depth of the concrete is 6 in. This power station is being built by the British Electricity Authority for whom Messrs. Mott, Hay & Anderson are acting as consulting civil engineers, and Sir Giles Gilbert Scott as architect. The roof was designed and constructed by Lenscrete, Ltd.



HUGH CASSON

### *To Re-shape South Bank*

It has been announced that Hugh Casson is to act as consultant to the Government on the planning of the South Bank site's immediate future. He will work on the problem in collaboration with Robert H. Matthew, architect to the LCC, and L. A. Huddart, the chief officer of the Parks Department. They are expected to submit a report containing their recommendations in about two weeks' time. ASTRAGAL comments on page 515.

### *... And to Judge South Bank Competition*

In order to stimulate ideas and public discussion on the planning of the South Bank, *The Sunday Times* is holding a competition which has been set by Hugh Casson. The question to be answered by competitors is: "What would you do with the South Bank site?" Anyone may enter and the 1st prize of £100 and 2nd prize of £25 will be awarded for the best ideas rather than the standard of draughtsmanship. The judges of the competition, which will close on November 27, will be Hugh Casson, Sir Alan Herbert and Sir Stephen Tallents. For full particulars see *The Sunday Times*, October 28.

BC

### *New Premises*

The Building Centre is to open at its new premises in Store Street, Tottenham Court Road, W.C.1, on Monday, December 3. The Building Centre provides a permanent, continually changing, exhibition and an information service of interest to the architectural profession.

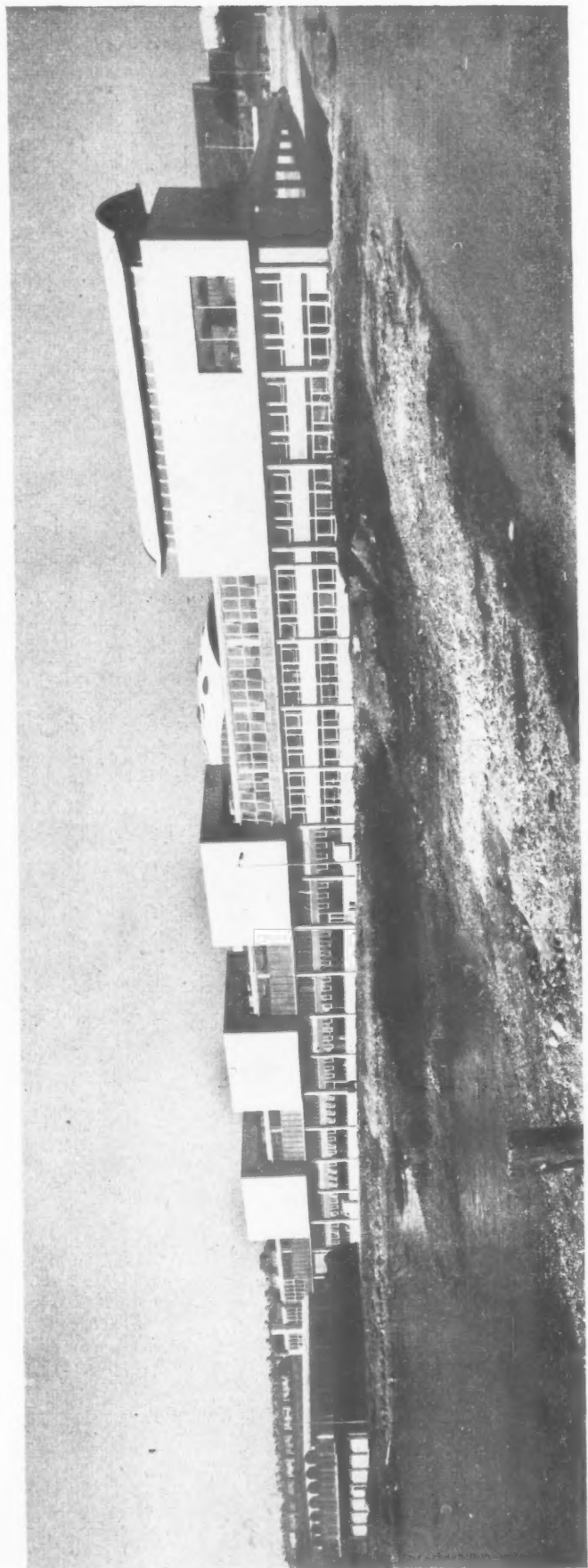
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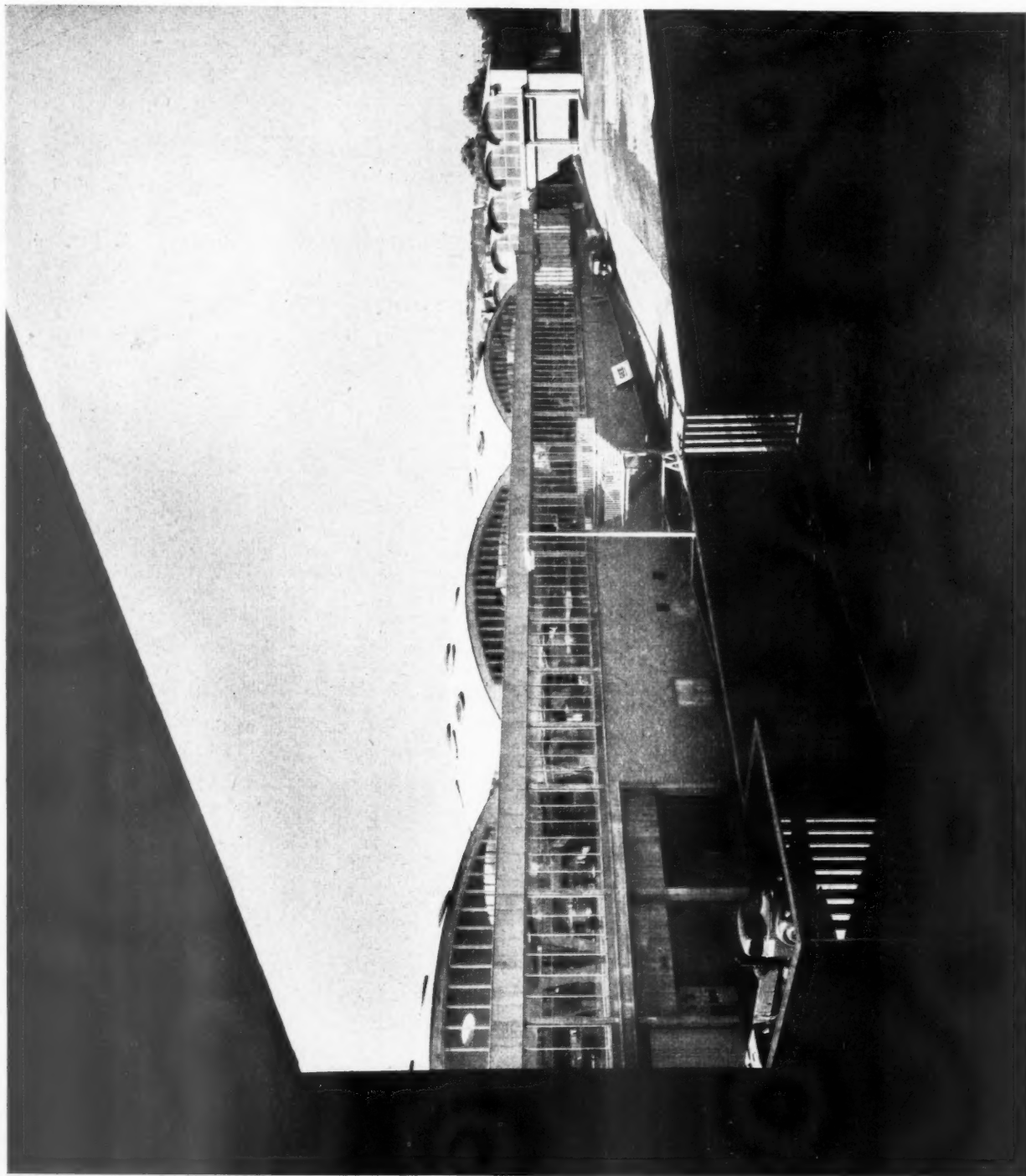
### *Moving Formwork*

The construction of reinforced concrete silos at the rate of 17 ft. vertical per day was mentioned by H. H. Broughton, when he presented a paper, recently, to the Institution of Structural Engineers. The paper was entitled "Moving Forms for Concrete Construction" and Mr. Broughton described improvements in the design of moving timber formwork and some examples of its use.

There is, for example, a store at Port Arthur, Lake Superior, 800 ft. long and

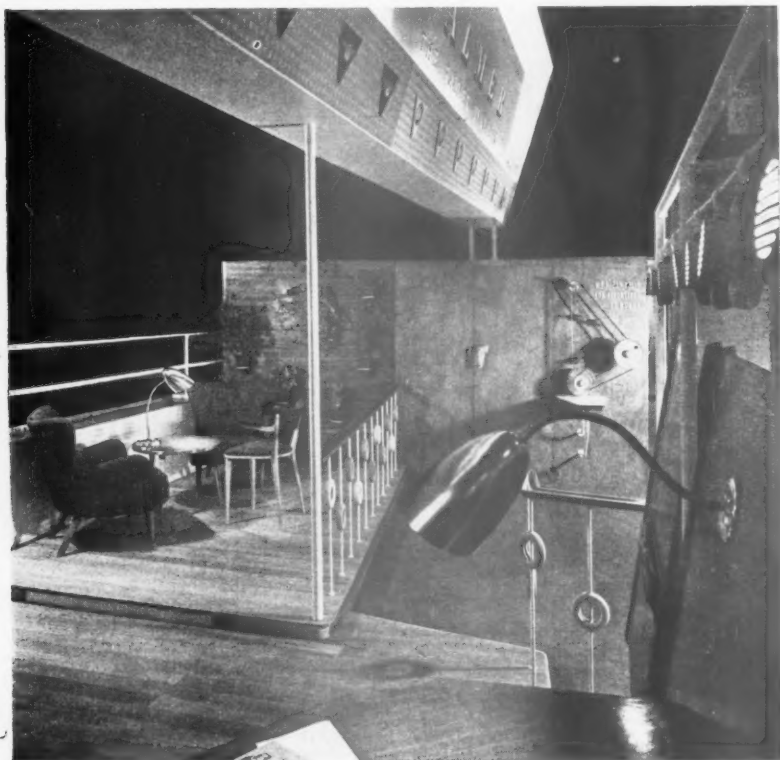
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On this and the facing page are two recent views of the rubber factory at Brynmawr, which is now partly occupied and is nearing completion. Designed by the Architects' Co-operative Partnership, it is the largest of the Government-owned factories to be built in the South Wales development area and is generally recognized as the finest example of contemporary industrial architecture in the country. The view on the opposite page shows, on the right, the entrance hall at first floor level, which is reached by a ramp from the far side. To the left of the entrance hall are offices and lavatories (punctuated by three projecting cloakroom blocks) and a canteen. At ground floor level is the fitters and maintenance department. The detached building on the extreme left, with barrel vaulted roof, houses a special part of the production process which has a greater fire risk than the remainder of the factory. Right, a view from the top of the entrance ramp, looking towards the concrete shell domes of the main production area. The lower floor is for storage.

## STAND FOR TYRE FIRM AT MOTOR SHOW



*This stand for British Tyre & Rubber Co., Ltd. and The Palmer Tyre, Ltd., at the Motor Show was designed by F. M. Gross. The wood surfaces are mahogany and sycamore. Miniature yellow tyres decorate the handrail supports. The contractors were Osters & Fleming.*

## STORE INTERIOR REDESIGNED



*Several departments in the store of James Beattie, Ltd., Wolverhampton, have been redesigned by Gaby Schreiber. In general the work consisted of refacing the walls and the larger fittings and designing new unit furniture. Above, is shown the reception area for the hairdressing department. The mahogany sales counter has a laminated plastic top. The unit chairs and the shallow bowl light fittings were also designed by Gaby Schreiber. The general contractors were Harris & Sheldon, Ltd.*

capable of storing 250,000 tons of grain, entirely of moving form construction. It is possible to use moving formwork even if such "architectural features" as pilasters or overhanging cornices are desired, and special hanging scaffolds have been devised, so that the surface of the concrete may be given an applied finish.

The moving forms are supported by 1-in. jack rods which pass through the concrete, which thus holds them rigid. Where they pass through window openings, they are held by distance pieces. For a silo 30 ft. in diameter, 12 jacks are used.

The shuttering is 6 ft. deep and may be used up to sixty times. The deck of the formwork is usually used as shuttering for the roof. It is possible to cater for reductions in column sizes on the way up and the formwork can be "stopped off" where parts of the building do not extend to the full height. A high degree of accuracy is obtained, and specifications usually demand that walls should not be more than plus or minus  $\frac{1}{8}$  in. out of plumb in 200 ft. of height.

The cost of the formwork becomes less as the height of the structure increases. For a building over 150 ft. high the cost may be only one-third of the cost for a building 30 ft. high.

## ULSTER

## RSUA Student Group Conference

A week-end conference on the theme "Eyes which do not see" (Le Corbusier), was held at Castlerock, County Londonderry, on October 12 to 14. It was the first of its kind in Northern Ireland and was organized by the Student Group of the Royal Society of Ulster Architects.

When introducing the theme, Raymond Leith stated that the conference had been organized for the purpose of analysing the lack of aesthetic appreciation on the part of the public generally, the barren state of the province architecturally, and to discuss what measures would be necessary to counteract these conditions. The members at the conference agreed with another of the speakers, Derick Hunter, that the architect, being primarily an artist, placed too much importance on the intellect at the expense of the other functions of the mind.

Speaking about Belfast, Ian Campbell stated that it was not an old city, yet it was already in a chaotic state. We had no plan equal to the situation, the stop-gap plans which did exist were still on paper. He stated that Belfast was an example of a city where the artist had been ignored. Two resolutions resulted from the lengthy discussion which followed Mr. Campbell's address. The first being that planning in Northern Ireland should be endowed with much greater powers than those which exist today. The second resolution, resulting from the small discussion groups into which the conference divided, was in the form of a planning proposal for Donegall Square in the centre of Belfast. It was proposed that the City Hall grounds should be converted into a paved square or piazza, isolated from the traffic routes only by a change in surface texture and numerous trees. It was felt that if traffic could be diverted from Donegall Square East and West and these two spacious thoroughfares were incorporated into the piazza, the city could take its place architecturally amongst other famous cities in Europe. It was noted that this vast improvement could be achieved at a relatively low cost and the Student Group of the Society was instructed to consider the project in greater detail.

In connection with a Faculty of Architecture at Queen's University, Mr. Jackson stated that it was not now a question of whether or not a "school" was necessary, but what form a school should take. He believed that a thorough examination of the

## BRITISH TEXTILES IN NEW NORWEGIAN LINER



The majority of the furnishing fabrics used in the new Norwegian liner, MS Blenheim, shown in the aerial view below, right, were supplied by Heal's Wholesale & Export, Ltd. They were produced under the direction of the ship's architects, Arnstein Arneberg and his assistant Mr. Nilsson. In many cases special colours were made to their instructions. The curtain materials, a number of which have been supplied to RMS Queen Elizabeth,

are mainly linens printed in bright colours: the covering materials, in related colours, are of heavy weight Welsh wool tweed. The furniture and fittings are of Norwegian design and made in Oslo. The photograph above shows a corner of the first class lounge with curtains designed by Jane Edgar and chair coverings by Sylvia Priestley. A part of the first class dining room is shown in the photograph, below, left. The printed design on the chairs presented a special problem as the architects required a relatively plain material with the flower motif in the centre of the back. In addition, the material for the back had to be in one piece. To meet these conditions special screens were made to print the design lengthways instead of across.

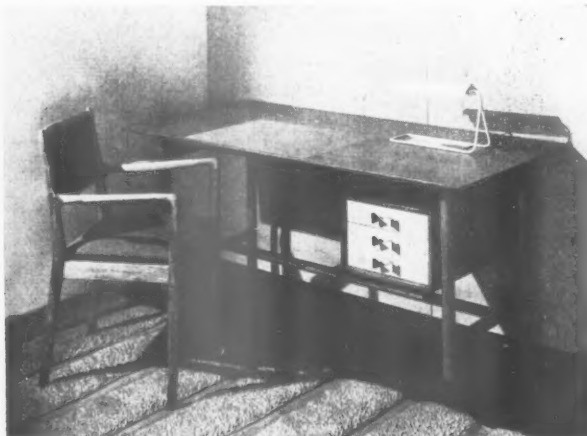


## FURNISHINGS FOR HOTEL AT LUSAKA, NORTHERN



The recent exhibition at the COID showed samples of the furniture and furnishings for the Ridgeway Hotel, Lusaka, Northern Rhodesia. The interior designer was Dennis Lennon, who was responsible for all the furniture. Above, left, a view of the exhibition: above, right, the south east facade of the hotel, designed by G. A. Jellicoe (see Royal Academy Exhibition models, AJ May 10). The hotel, which will be completed by December, 1952, is in a sub-tropical climate. The furniture

wood has been dried to a low moisture content, and the construction will help to counteract severe temperature changes. Below, left, and bottom, left, mahogany furniture for the main lounge. Below, right, a sycamore and mahogany writing desk. Bottom, right, a terrace settee with rush back. Opposite page, top, restaurant chair; centre, mahogany and sycamore dressing table; bottom, bed head with cane panel and bedside table. For list of designers and manufacturers, see page 544.



## RHODESIA



various forms of architectural education in Europe and America would be essential. A resolution requesting the Student Group to investigate the various types of architectural education was carried unanimously. It was also suggested that consideration should be given to the location of the school of architecture in the city of Armagh, which is architecturally stimulating and has had a long cultural background.

The President, in his concluding remarks, stated that the conference had been sufficiently successful to warrant it becoming an annual event.

## UNECE

*Directory of Building Research*

A search for "more rational house construction" is required to meet the vast backlog of housing needs in Europe, particularly in face of growing competition today for labour and materials used in building, according to the new *Directory of Building Research and Development Organizations* just published in Geneva by the United Nations.

The importance of sharing research results within the industry and among countries is stressed. The directory itself is designed to aid in what it describes as "the radically altered task" of the building industry: that of improving techniques to provide adequate housing "within a reasonable period of time." It was prepared by the United Nations Economic Commission for Europe and published jointly by ECE and the United Nations Department of Social Affairs, and it is intended to facilitate direct international contacts among those carrying on building research.

The directory lists government sponsored organizations which have already been set up in some European countries to co-ordinate building research activities, as well as specialized organizations concerned with specific aspects of research. Twenty-three international organizations which have a direct interest in some branches of building research are also listed. The directory was submitted to an ECE meeting of research specialists in Maidenhead in September, who exchanged views on the form of new international arrangements to promote sharing of building research. European governments are considering giving assistance to intensify research as a major step toward increased efficiency in the building industry. They are stimulated, an introductory article to the directory says, by the knowledge that the ratio of money put into research compared to the value of investment is lower in building than in other major industries, where the relatively higher expenditure on research has been proved to "pay."

In spite of differing climate, social customs and stages of industrial development in Europe, the directory finds "the housing problem which confronts most European countries is so similar that there are very real advantages to be gained from continuous international collaboration and exchange of information." Up to the present time, international contacts in building research work have been "sporadic," the article states.

## ANCIENT BUILDINGS

*MOLGP Chairman Appointed*

W. G. Holford has accepted the invitation of the Minister of Local Government and Planning, to become chairman of the Minister's Advisory Committee on Buildings of Special Architectural or Historic Interest. Professor Holford, who has been a member

of the committee since its appointment in 1945, will succeed the late Sir Eric Maclagan, as chairman.

## BSI

*Code of Practice for Dense Concrete Walls*

The Council for Codes of Practice for Buildings has now issued in final form Code 123.101, "Dense Concrete Walls." This code deals with the construction of solid and cavity walls of dense concrete (as distinct from lightweight or no-fines concrete), both plain and reinforced. Recommendations are made regarding the type and quality of materials and the proportioning and mixing of concrete and control of shrinkage. The provision of expansion joints, to avoid failures arising from thermal movement, is dealt with and details for typical joints in walls are illustrated.

Full information is given on surface finishes and damp-proof courses, and detailed recommendations are made in respect of setting out, scaffolding, and formwork on site. The code also includes illustrations of the damp-proofing of various types of walls, openings, roofs and chimney stacks. Thermal transmittance coefficients for both solid and cavity walls with various linings and finishes are tabulated, as are some average values of sound reduction for different thicknesses of wall.

## SNOWDONIA

*Designation Order Confirmed*

Hugh Dalton, who until recently was the Minister of LG and P, has confirmed the Order designating the Snowdonia National Park. As a result of the inquiry held by the Ministry's Inspector on May 3 into representations made against the Order, as submitted on February 6 by the National Parks Commission, it was proposed to modify the Order by excluding a small area in the south, and including four areas in the north and west. A second inquiry was held on September 18 into representations made against the proposals to include the additional areas in the Park. After considering the reports of both the inquiries, it has been decided to confirm the Order with the following modifications. An area of about 3,600 acres in the neighbourhood of Aberllefenni and Corris was not considered to be of such natural beauty as to make it suitable for inclusion in the Park. Four additions to the Park were made. An area of about 1,000 acres to the west of Conway, including a group of hills comprising Mynydd y Dref (Conway Mountain), Pendyffryn and Allt Wen and an area of about 475 acres to the east of Penmaen-mawr including the hill Foel Lus. The hill Dinas, east of Llanfairfechan, an area of about 135 acres and the coastal strip between Barmouth and Llanfair, measuring about 7,275 acres, were also included. These areas are considered to be of such natural beauty and afford such opportunities of open air recreation that they ought to be included in the Snowdonia National Park. The added areas together measure about 14 square miles, and the total area of the new Park measures about 845 square miles.

The Confirming Order has been sent to the National Parks Commission with a map showing the area of the Park as modified. The Commission will deposit copies of the Order and map in the offices of all the local authorities affected as soon as the necessary copies of the map have been made, and will then publish notices in local and national papers, and in the *London Gazette*.



*In this article, the second of a short series by Ernest Watkins on planning control, the author discusses the claims on land made by industry and housing.*

## ERNEST WATKINS

### Planning and the State (2)

No doubt some people still think of the Englishman's freehold as his castle and believe that the owner of a piece of land has the right to decide what use should be made of it. But most people—even those who want only the unavoidable minimum of state control—realize that some form of control of land use is essential.

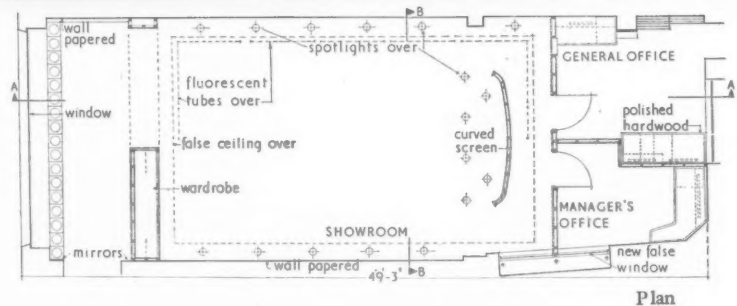
Changes in the use of land come about largely as a result of industrial and housing developments. Each of these forms of development depend to some extent on the other. If a factory is built on a remote site, houses are needed for its workers. If a thousand new homes are built, they will be occupied solely by renters or pensioners if there is no factory nearby in which residents may earn sufficient to pay their rents. The housing developer and the industrialist must settle their own problems before they come to terms with each other.

What are the problems of industry? Only certain sites are suitable for certain industries. Presumably a postage stamp dealer working for the export market could set himself up wherever there is a postal service, but it is clear that a gravel pit or a coal mine can be sited only where there is gravel or coal. Then again, many businesses have to be sited near customers: the thatcher must live in the country, and the monumental mason likes to establish himself close to a cemetery.

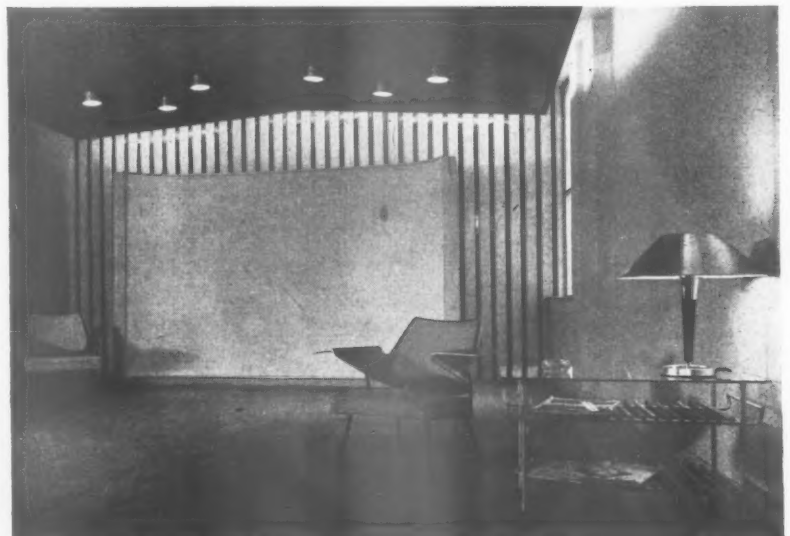
An added complication is introduced when there is competition for the use of the same land. At the moment, the outstanding example of that is the controversy over open-cast coal mining. Two of the community's basic needs are in competition, the need for food and the need for power. Clearly, in this case control of development involves some decision. It is not possible to reconcile the immediate claims of both farmer and the user of coal. One of them must give way or must be made to give way.

As for housing needs, many approach the housing problem by saying that the objective of any programme must be, first, to provide everyone with a separate home and, second, to replace those houses that are outworn. The amount of building required to reach the first objective can be determined reasonably accurately, one would imagine, from existing statistics. *The Economist*, earlier this year, made such a survey and estimated that there were, at the end of 1950,

## NEW DRESS SHOWROOM IN

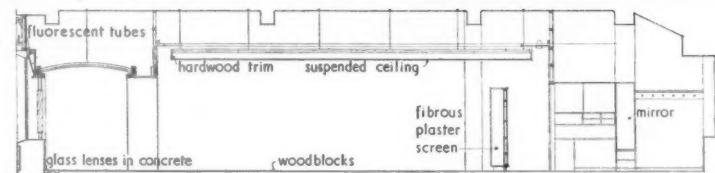
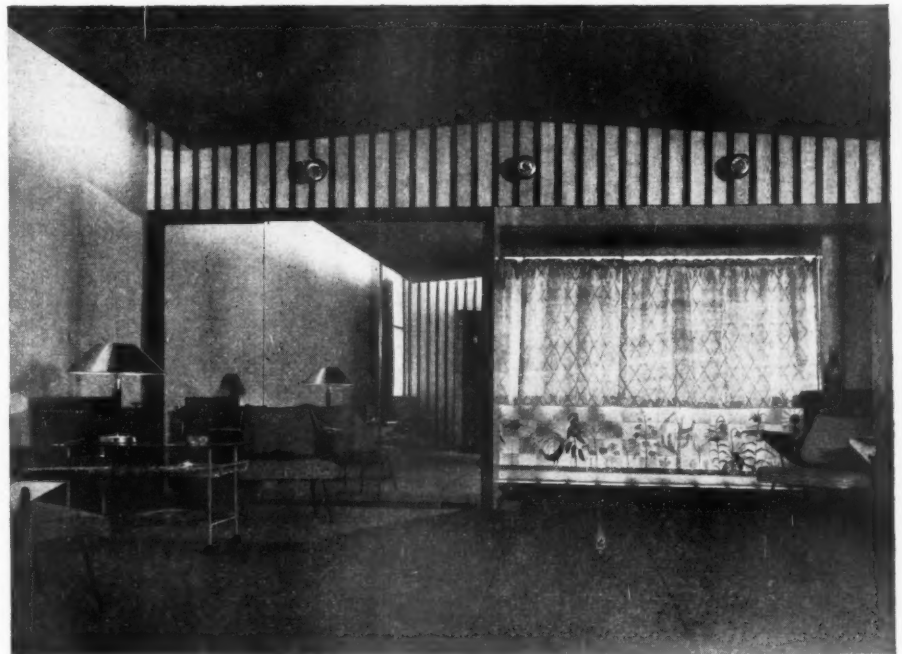
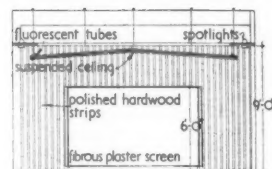


*This fashion showroom, used by Lincoln Models, Ltd., for seasonal mannequin shows, has been designed by Douglas Stephen and Partner. A few individual buyers are invited to each show, leaving the centre of the showroom clear for the mannequins, who walk in front of the curved screen, seen in the photograph below,*

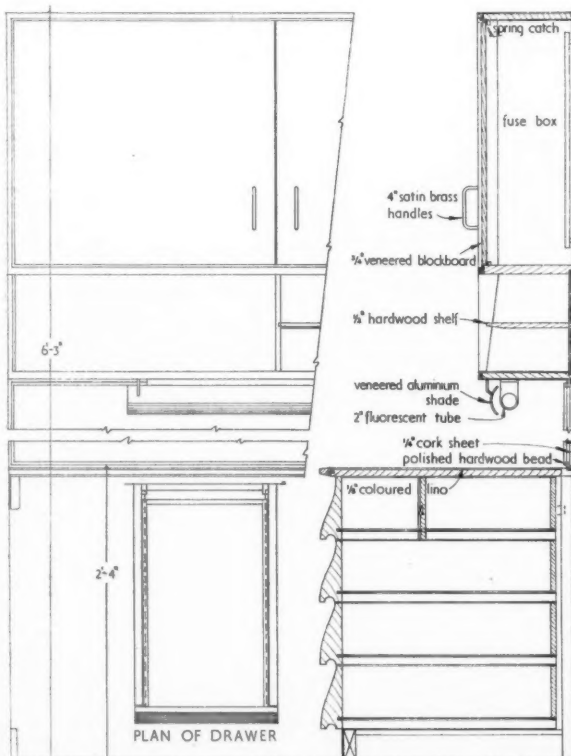


## GREAT MARLBOROUGH STREET, LONDON, W.1

and then up and down the room. The effect of a long room has been attained by the use of a sloped suspended ceiling of plaster on expanded metal. It is 7 ft. 6 in. high with a 6-in. pitch. The showroom wall behind the curved screen is faced with strips of polished rauli and Belgian ash in 4-in. and 2-in. widths. The suspended ceiling is painted blue. Elsewhere the colour used is dove grey to show dresses to the best advantage. The tables and office furniture, seen on right, were designed by the architects, and the showroom chairs

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

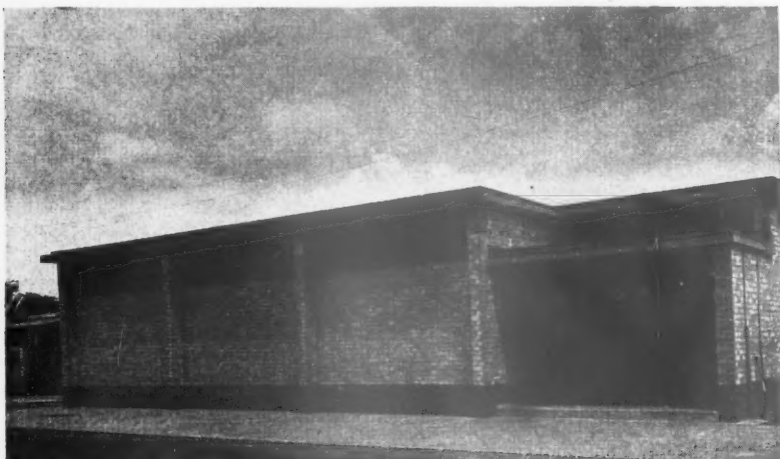
Section B-B

Section and part elevation of desk in general office [Scale:  $\frac{1}{4}'' = 1'0''$ ]

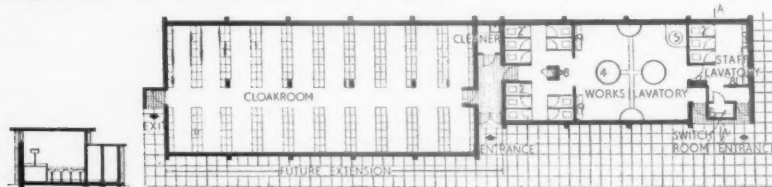
are by Robin Day. The tiles below the stallboard, seen in the photographs above and bottom right, were specially designed by Fred Millett. The total cost was just over £3,000. The general contractors were C. D. Productions, Ltd. For sub-contractors, see page 544.



## CLOAKROOM BLOCK, DAGENHAM, ESSEX

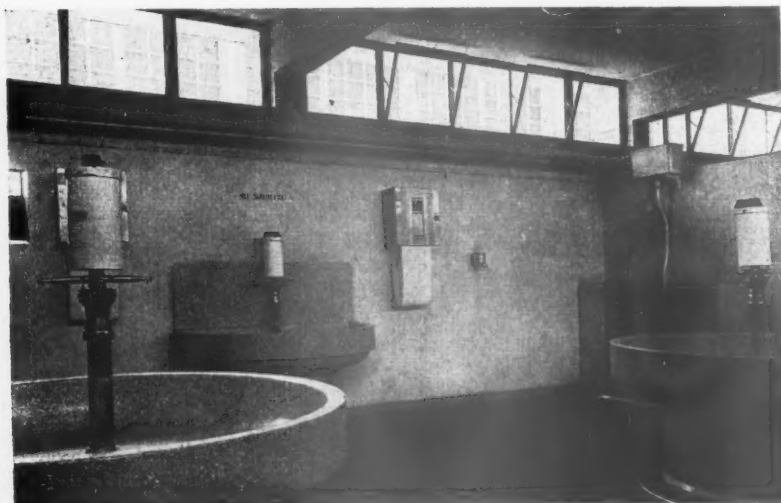


The new works cloakroom block for May & Baker, Ltd., at Dagenham, was designed by Edward D. Mills to provide washing and lavatory facilities for approximately 250 shop workers and 75 staff and to supplement other factory accommodation. The site was determined by existing factory layout and service roads and the plan allows for a locker room to be added later (to the left in the photograph above). The high-level windows on both sides of the building give adequate cross ventilation and natural lighting. The 9-in. brick walls have white facings in panels between the main brick piers and a plinth of Staffordshire blue bricks. Roofs are of 5-in. thick reinforced concrete and RC tee beams. Floors are coloured granolithic. Internally, walls have a dado 7 ft. high in light cream cement glaze and fair faced distempered brickwork. The photograph below shows the works lavatory. The general contractors were E. H. Burgess, Ltd. For sub-contractors, see page 544.



Section A-A and plan [Scale: 1/4" = 1' 0"]

KEY	1 Lockers	4 Wash fountain	7 Seat
	2 w.c.	5 Calorifier	8 Drinking fountain
	3 Pipe duct	6 Transformer	9 Urinal



some 12,115,000 "families" needing a separate home. It reached that figure from the data collected for the Royal Commission on Population. It also estimated that there were, at the same date, 12,093,000 separate "housing units" in existence in England and Wales, which would suggest that the first objective is not far short of realization. The second objective cannot be so easily fixed in terms of numbers. The answer must depend on a decision, first, of the general line or standard which determines which houses shall be retained and which demolished, and, secondly, on the application of that decision to each particular building. No Ministry has yet published a survey of housing requirements still unfilled and no Ministry has yet launched any nation-wide survey into the state and condition of existing buildings.

So far, housing programmes seem to have been no more than expressions of each authority's waiting list, and that can hardly be a reliable guide. For instance, at the end of the war Canterbury had a waiting list of some 1,800. Since then it had, to the end of last year, provided some 1,165 "housing units." Its waiting list is still some 1,600. While an authority feels that there is still an appreciable number of its inhabitants hoping for a new home within its boundaries it will continue to think that its housing problems are still unsolved. Another aspect of this is the apparent lack of co-ordination between one area and another, very noticeable in London, for example. Every committee and commission that has ever considered London's problems has said that London is already too big and certainly should not be allowed to extend further, yet the LCC is still building its housing estates along London's existing fringes. But these unresolved questions are part of, symptoms of, a transitional stage in housing. It is arguable now (and some authorities act on the assumption) that while an authority has a waiting list it is bound to build where it may and as fast as it may, but it is there that the trap set by the decision to treat housing in isolation is sprung. The total housing requirement of the country is not the sum of the waiting lists of all housing authorities. As with industry, so with housing; at some stage, the individual claims must be reconciled with all their fellows.

Before passing on to all the conflicts between claims for land that can arise in industry and housing, and between them, the nature of the checks on development should be noted. They need little explanation. The fall in world supplies of food have won the case for the farmer in this country. There are now very few who would argue seriously that it would be better to return to the pre-war practice of treating the home producer as of secondary importance. Again, today, one does not have to argue the general case for the protection of amenities (although one may have strong views on what is an amenity and of the relative importance of those admitted to exist). And the fact of limitation of supply is only too obvious. There the plan is intelligible.

At the head is the Treasury, deciding in terms of money at what rate capital investment shall proceed throughout the country. The MOW will try to implement one aspect of that decision, in that it must, through its regional organization, translate a total figure into terms of building licences granted and building licences refused in so many thousands of individual cases. The BOT will implement another aspect of it, through its own regional organization, in its plan for the location of industry in general and the growth of the development areas in particular. At the same time, the Service Ministries will have their plans, and their claims, for the building and engineering works they need to meet their part in defence.

Carrying those policies out is another matter, but that brings us to another question, which I shall discuss in another issue—the reconciliation of opposed, or diverging, claims on land.

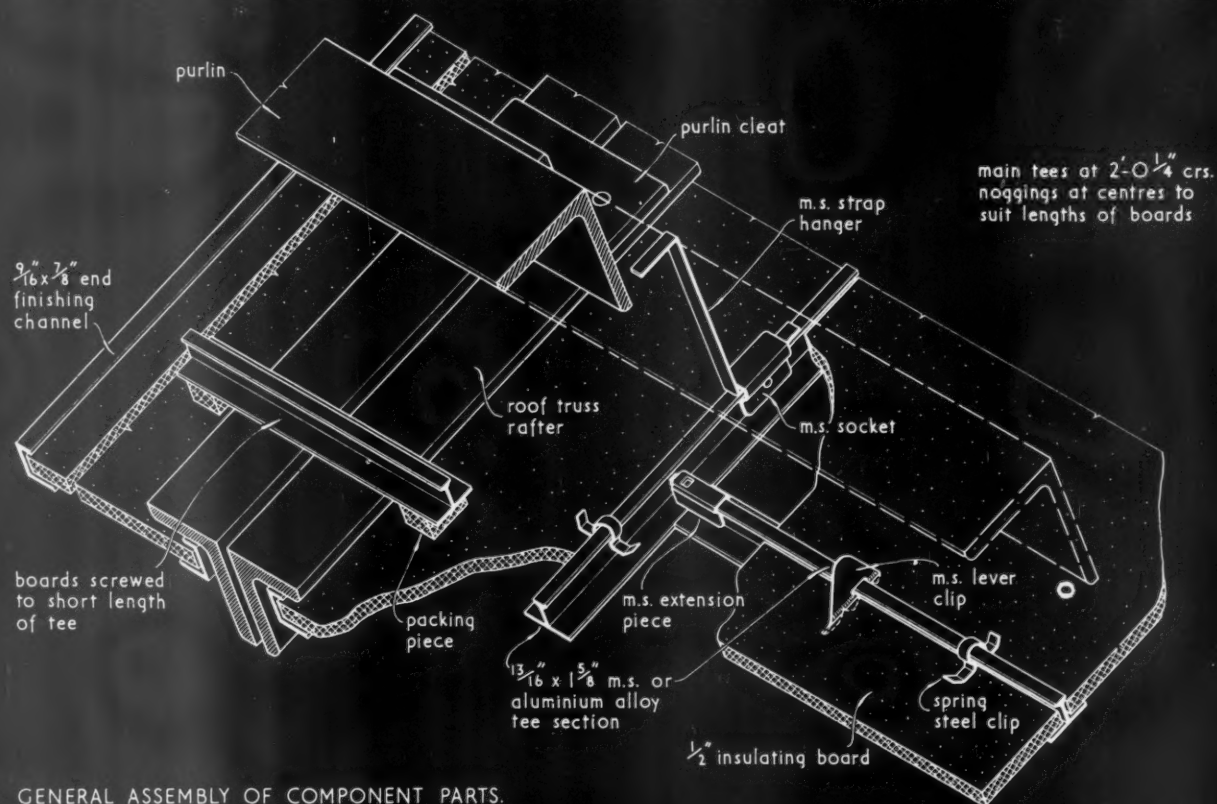
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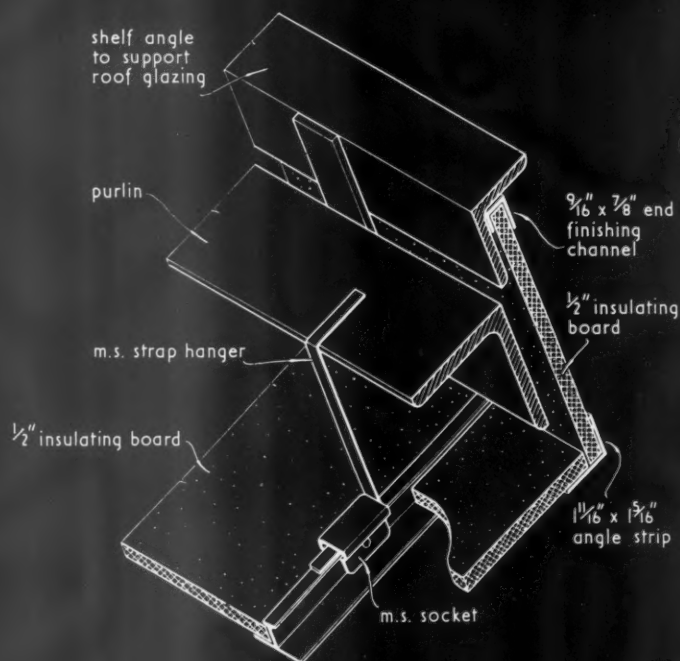
## CEILINGS | BUILDING BOARD

22.D15

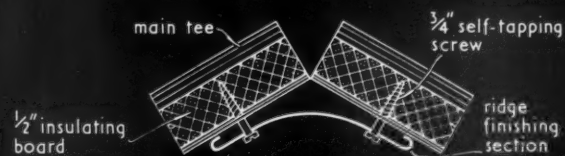
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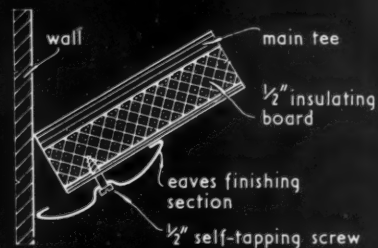
## ● GENERAL ASSEMBLY OF COMPONENT PARTS.



FINISH BELOW ROOF GLAZING PANEL.



FINISH AT RIDGE.



FINISH AT EAVES.



ALTERNATIVE TEE SECTIONS. scale full size

TENTEST SYSTEM OF UNDER-PURLIN BOARD FIXING.

Manufacturer: Tentest Fibre Board Co. Ltd., Specialised Construction Department.

## 22.D15 · TENTEST · SYSTEM OF UNDER-PURLIN BOARD FIXING

**This Sheet** describes an under-purlin system of board fixing using steel or aluminium alloy tee sections and insulating board, plaster board or other similar sheet material.

The system is applicable to flat or curved ceilings and roof and wall linings.

### General System

The boards are carried on tee sections to which they are held by clips which fit over the top of the section. The same section is normally used for main tees and noggings and they are flush-jointed on the underside, the nogging sections being fitted at either end with an extension piece which rests on the flange of the main tee. Alternatively, smaller tee sections may be used for noggings; these are lapped on to the flanges of the main tees and fixed with self-tapping screws. The boards are supported at the rafters by being screwed to short lengths of tee section or timber batten which span the tops of the trusses. The edges of the boards are trimmed at walls and rafters by channel sections and there are special sections for finishing at eaves and ridges.

The main tees are supported on strap hangers suspended from the purlins at 7 ft. maximum centres for steel sections and 6 ft. maximum centres for aluminium.

### Components

**Main tees:** These are of extruded aluminium alloy or cold rolled steel and measure  $\frac{3}{4}$  in. by  $1\frac{1}{2}$  in. across the flanges.

**Main tee splice plates:** These are of steel and are used for jointing the main tee sections.

**Noggings:** These are of the same section as the main tees. They are fitted at either end with mild-steel extension pieces which rest on the flanges of the main tees.

**Clips:** Spring-steel clips in conjunction with mild-steel lever clips are used, as shown, to secure the boards to the main tees and noggings.

**Ridge and eaves finishing sections:** These are of aluminium alloy or mild steel and are fixed, as shown, to form a finish at ridge and eaves.

**End finishing channels:** These are of aluminium alloy or mild steel and measure  $\frac{7}{8}$  in. by  $\frac{1}{4}$  in.

### Insulating Boards

Tentest standard insulating boards  $\frac{1}{2}$  in. thick are fixed in lengths of up to 10 ft. by 2 ft. wide

### Finish

The aluminium-alloy sections are normally supplied in their natural finish.

The mild-steel sections are rustproofed by granodozing and primed one coat.

### Sound Absorption

$\frac{1}{2}$ -in. Tentest insulating board has a sound absorption coefficient of 0.30 at 500 cycles per second.

### Thermal Insulation

The thermal conductivity coefficient (k) of Tentest insulating board is 0.37 B.Th.U./sq.ft./hr./1° F./in. thickness.

*Compiled from information supplied by:*

Tentest Fibre Board Co., Ltd., Specialised Construction Dept.  
Head Office: 75, Crescent West, Hadley Wood,  
Barnet, Herts.

Telephone: Barnet 5501 (5 lines)

London Office: 18, Pall Mall, London, S.W.1.

Telephone: Whitehall 9366.

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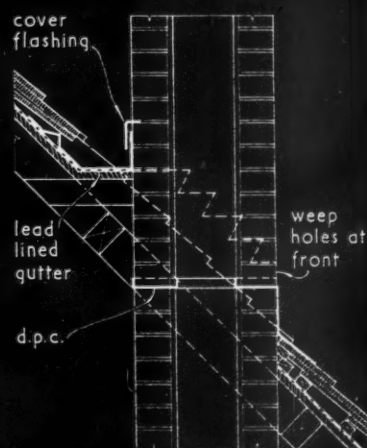
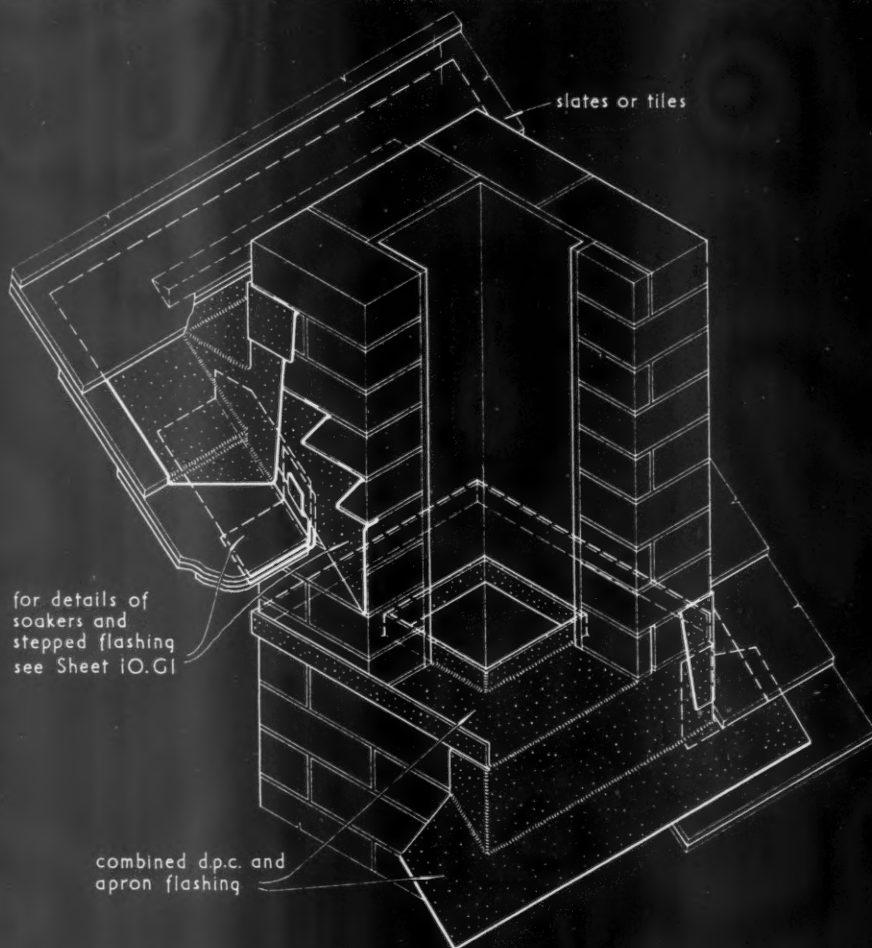




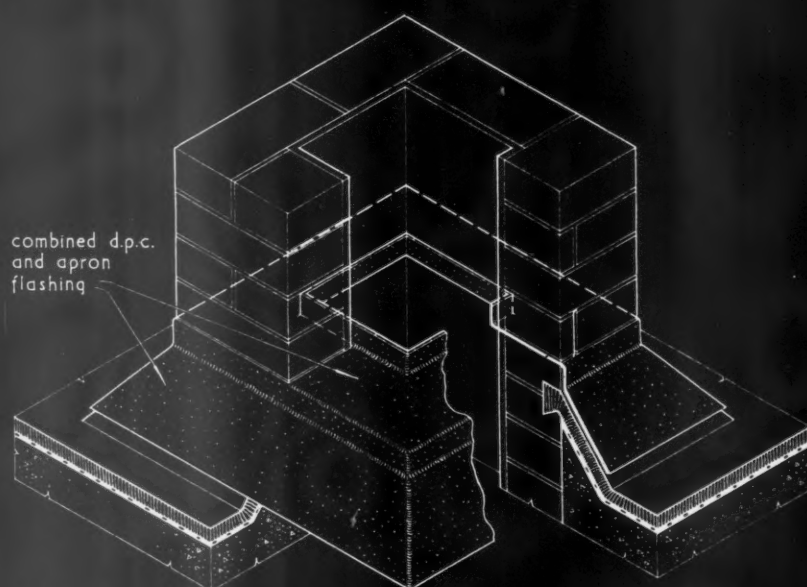
## LEAD AND ALLOYS | APPLICATIONS

10.G15

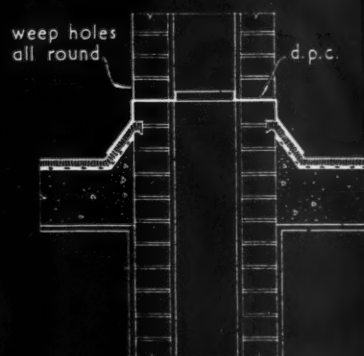
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SECTION ALONG SLOPE OF  
ROOF.

D.P.C. TO STACK IN PITCHED ROOF.



D.P.C. TO STACK IN FLAT ROOF.



CROSS SECTION.

## LEAD DAMP-PROOF COURSES TO CHIMNEY STACKS.

Compiled from information supplied by The Lead Industries Development Council.

## 10.G15 LEAD DAMP-PROOF COURSES TO CHIMNEY STACKS

This Sheet deals with horizontal lead damp-proof courses to chimney stacks. The drawings on the face of the Sheet give details of d.p.c.'s to chimneys in both pitched and flat roofs. Details of lead flashings to chimneys are given on Sheets 10.G1 and 2.

### General

The purpose of the horizontal d.p.c. is to prevent the downward penetration of water absorbed by the stack above roof level. While it is not common practice to fit d.p.c.'s to chimneys it is the usual practice in some districts, particularly coastal areas. There are circumstances when the amount of brickwork below the roof line and in a ventilated space not used for habitation is not sufficient for the water penetrating downwards to dry out before it reaches a habitable room. In these cases a horizontal d.p.c. is required.

### Construction

*Chimneys in pitched roofs:* The most common method of construction is to form the d.p.c. in one piece with the usual front apron flashing. The position of the d.p.c. in the brickwork is determined by the normal position of the apron flashing. The edges of the piece of lead sheet are turned up about 1 in. to 1½ in. on three sides of the stack and the d.p.c., therefore, forms a tray which catches water penetrating downwards and turns it out on to the roof through weep holes left in the brickwork.

*Chimneys in flat roofs:* The construction here is similar to the above except that the apron flashing is carried round the stack and weep holes are left in the brickwork on all sides.

### Weight of Lead

The weight of lead suitable for a combined chimney d.p.c. and front apron flashing is preferably 5 lb. per sq. ft., but with skilful working 4 lb. lead will give satisfactory results.

### Protection

All lime or cement mortar is alkaline during and shortly after the setting period. This may cause corrosion of the lead if it is built in or is fixed in close contact with fresh mortar that may be slow to set and dry out. In such cases the lead should be coated on both sides with a good quality bitumen or bitumen paint of heavy consistency.

### Further Information

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

*Compiled from information supplied by:*

**The Lead Industries Development Council.**

Address: Eagle House, Jermyn Street, London, S.W.1.  
Telephone: Whitehall 7264.





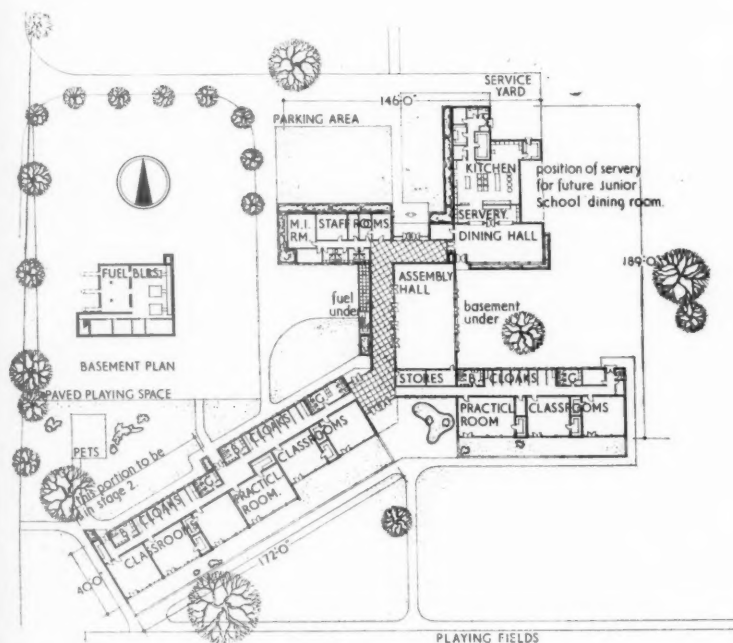
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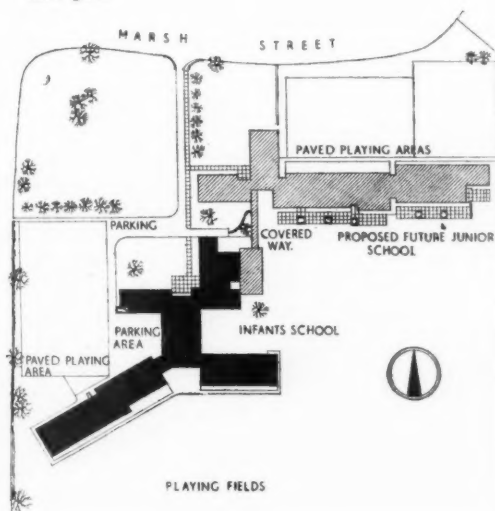
## PROPOSED COUNTY PRIMARY SCHOOLS AT DARTFORD, KENT



The County Primary Schools in Fulwich Lane, Dartford, on which work began in May of this year, have been designed by Gollins, Melvin and Partners in collaboration with S. H. Loweth, County Architect for Kent. There will be a three-form entry infants' school constructed in two stages and, at a later date, a junior school. This will use the canteen common to both schools, and will be to the north-east of the site. The site of about 12 acres lies on a plateau to the north-east of the town, at approximately 100 ft. above sea level. The buildings will be to the north of the site. Thus, classrooms will have a sunny aspect over their own playing fields and will be well separated from a housing scheme which lies to the south. A corridor will lead from the main entrance to the teaching spaces. Access to the assembly hall is from a wide corridor, seen in the sketch below left, running parallel to the long axis of the hall. This means that the hall can be reached easily from the classroom wings and the main entrance. The dividing partition, glazed for most of its length, allows for seating to be provided in the corridor. The sketch above left shows the dining hall on the right and the assembly hall on the left. The general contractors are William F. Bloy, Ltd.

Ground floor and basement plans [Scale:  $\frac{1}{8}$ " = 1' 0"]

Site plan



*How is the income tax of an architect in a private or public office assessed? What expense claims can he make? Can he claim costs of maintenance of rooms in which he works at home, or part of the costs of new furniture or of a new car? These questions are answered in this and a subsequent article.*

## D. T. H. NICHOLSON

### Income Tax and the Architect (1)

The object of this article is to pin-point the basic principles on which architects' income tax is assessed and the reliefs they may be in a position to claim.

There are two classes of architects, so far as the rules of income tax are concerned:—

(1) Those in practice, either as sole practitioners, or in partnership. They are assessed under the rules, applicable to Schedule D, Case II, of the Income Tax Act, 1918, on the profits of their profession.

(2) Those employed in the service of a practising architect, building contractors, local government, or government departments, etc. They are assessed on their actual earnings in the fiscal year, tax being deducted by their employers, at the time of payment, and accounted for, to the Inland Revenue, under the PAYE regulations. These two groups must be kept entirely separate, as very different rules apply, and it is proposed to deal now with each group in more detail.

#### ARCHITECTS, IN PRIVATE PRACTICE

Architects in private practice are assessed on the profits of their businesses, after deduction of all expenses which are allowed by the income tax acts, as allowable charges against their gross fees. No deductions should be made for any disbursements, or expenses, not being wholly and exclusively laid out or expended for the purposes of the trade, nor for items of capital expenditure. Whether the expense is allowable or not depends upon the facts of each case. Expenditure of a kind in one case might come within the provisions, but not in another. To give a simple example, the cost of a new suit, which an architect might purchase for everyday use, and which he wore in the daily course of his work, could not be said to be allowable. However, supposing he undertook some work for a client in equatorial Africa, and was obliged to purchase tropical kit and other effects for his work in that climate, presumably the expense, or part of the expense, would be allowed.

The "wholly and exclusively" rule, is not applied too rigorously in certain cases. For example, there must be many architects who have set up a practice on their own account, and whilst establishing themselves have made use of spare rooms in their private homes for the purposes of their profession. In such circumstances, deductions from the fees earned would be allowed in respect of a proportion of certain overheads, such as rates, lighting, heating, cleaning, Schedule A tax, etc., paid, according to the number

of rooms in use. Similarly, the question of the use of a private car for business purposes is treated in the same manner. The cost of petrol and oil used on a business account and a proportion of the road fund licence, and insurance, together with a wear and tear allowance may be claimed, based on the total mileage run in the course of the business duties.

Although capital expenditure is not allowed as an expense for income tax purposes, relief can be obtained in regard to expenditure on plant and machinery, by way of an initial and annual allowance. In the case of architects, this appears to give little scope, but expenditure on new cars and, by a concession, on new furniture, fixtures and fittings would come under this heading. The initial allowance of 40 per cent. of the cost is granted against the assessment, based on the accounting year in which a car, etc., is purchased, and in most cases the annual allowance of 25 per cent. is also given in the first year on the cost, and thereafter on the reducing balance, after deduction of allowances previously granted. The annual allowance given on furniture, fixtures and fittings is usually 6½ per cent. A practitioner must beware of the fact that if he sells his car, any proceeds of sale above the written down value, i.e., the cost, less all allowances granted, will be taxable as a "balancing charge." The maximum "balancing charge" is the allowances already given, however. Conversely, relief will be granted if the sale proceeds are less than the written down value. A balancing charge may, however, be deducted from the cost of any new car, purchased in replacement, and allowances are then granted on the reduced amount. Under the Finance Act, 1951, it is provided that the initial amount of 40 per cent. as mentioned above, shall no longer apply to purchases of plant and machinery, after April 6, 1952.

Alternatively, items such as furniture and fittings, drawing boards and other similar equipment, may be treated on a "renewals" basis. If no annual allowance for wear and tear is claimed, the cost of replacing any item of furniture, etc., will be allowed as a charge against profits in the year of replacement. Any element of addition or improvement, however, in the replacement must be treated as capital. If an initial allowance is claimed on this capital portion, the amount of such allowance will be deducted from the cost of renewal in the future. Purchases of new equipment, etc., on commencing a practice will, of course, be treated as capital.

#### TAX RULES WHEN A PRACTICE IS BEGUN . . .

The usual basis of assessment is the profits arising in the accounting period, ending within the previous year of assessment. For example, an architect who makes his accounts up annually to December 31 would be assessed in the 1950/51 income tax year, on the profits of the year to December 31, 1949. Different rules apply, however, when a new practice is commenced, or a practice discontinued. Assuming a practice commenced on April 30, 1949, and the profit in the first year, to April 30, 1950, was £1,200, the amounts and the basis of the assessments would then be as follows:

1st year of assessment, 1949/50: Apportioned profit to April 5, 1950, 1/2 of £1,200 = £1,100.

2nd year of assessment, 1950/51: Profits of the first year, i.e., to April 30, 1950 = £1,200.

3rd year of assessment, 1951/52: Profit arising within previous year of assessment year to April 30, 1950 = £1,200.

It will thus be seen that if, for example, the second year's profit (year to April 30, 1951) had been £4,000, this sum would not come into assessment until 1952/53, and tax would not be payable thereon until January 1, 1953, and July 1, 1953 (half on each date), or twenty months after the end of the

accounting period. Furthermore, the first year's profit forms the basis of assessment for three years running. Claims may be made, to be assessed in the second and third years, on the actual profits of those fiscal years (by apportioning accounting profits) should the practitioner incur losses, or make reduced profits in those years.

It is often found that a new practitioner approaches an accountant for professional advice after he has commenced his practice, or shortly after the end of his first year's trading, with a view to having his accounts drawn up for the purpose of assessing his income tax liability thereon. The accountant is faced with a *fait accompli*, with which he can do little. It is suggested that the time when an accountant should be approached, if at all, is before the practice is commenced, if full benefit is to be gained.

In order to explain more fully, a further example is offered. Assuming the facts mentioned in the above example, but that the practice was commenced on April 1, 1949 (in the fiscal year 1949/50):—

1st year assessment, 1949/50: profit of year to March 31, 1950, £1,200.

2nd year assessment, 1950/51: profit of the first year, £1,200.

3rd year assessment, 1951/52: profit arising within previous year of assessment, year to March 31, 1951, £4,000.

It will be seen that the only fundamental difference between the two examples is that the 1951/52 assessment is increased in the second example by £2,800. There is no need to state that with an architect just starting a practice, the reduction in the assessment of £2,800, with the present rate of income tax and surtax, would help to conserve his liquid resources. Generally, it pays to commence just after April 5, rather than before.

#### . . . AND WHEN A PRACTICE IS DISCONTINUED

As regards the discontinuance of a practice, the assessment of the last year will be on the apportioned profits from the previous April 5 to the date of discontinuance, and the Revenue have the right to revise the assessment of the penultimate year to the actual profits of that year of assessment by apportioning the profits over a period, April 6 to April 5. Here, again, the date chosen for discontinuance is important, having regard to the trend of profits and the circumstances of each particular case.

If a change occurs in partnership, by reason of the death or retirement of a partner, or the partial dissolution of the partnership, or the admission of a new partner in such circumstances that:—

(1) One or more of the persons who, until that time were engaged in the trade, continued to be engaged therein, or

(2) A person who, until that time was engaged as an architect on his own account, continues to be engaged, but as a partner in a partnership, the assessments continue to be made on the business profits, as if the business had continued without any change.

If they so desire, however, the persons who were engaged in the profession, both immediately before and immediately after the change, may require that the business profits shall be assessed as if the business had been discontinued at the date of the change, and that a new business had been set up or commenced. A notice of this intention must be signed by all the persons concerned, and sent to the inspector of taxes within twelve months after the date of the change. If the partners claim to treat the change as a discontinuance, and a commencement of a new practice, then the rules just explained apply. It will be appreciated that this is a general summary of the rules, and the best action to be taken in any individual case must have regard to the facts of that case, having particular regard to the trend of profits.

(To be concluded)

## FLATS

at COVENTRY

designed by D. E. E. GIBSON, CITY ARCHITECT

Flats now being erected on various sites in Coventry are the first three-storey flats to be constructed in "No-Fines" concrete. The city architects' designs for these flats, about 300 of which are being built for the City Council, have been adapted to the "No-Fines" technique of construction. The cost of these compares favourably with that of traditional buildings and gives a very satisfactory rate of production.

*A typical completed block*



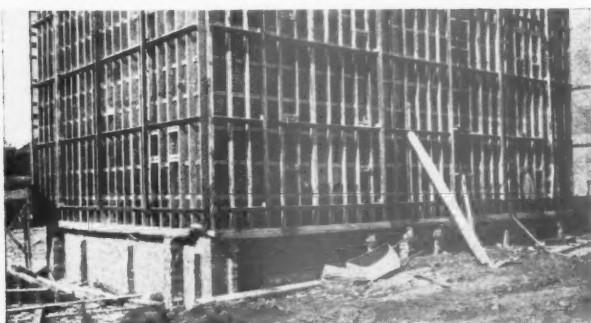
## FLATS

at COVENTRY

designed by D. E. E. GIBSON, CITY ARCHITECT



*The brick base before shuttering is erected.*



*Brick case and shuttering in position.*



*Shuttering being placed in position.*

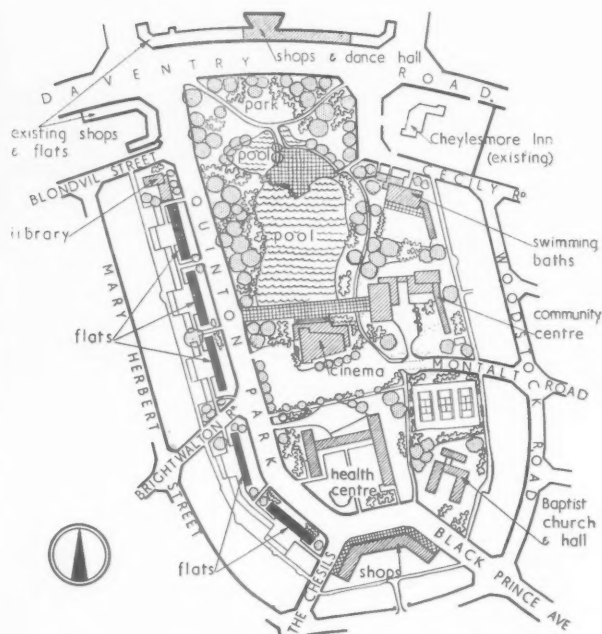


*Pouring in progress.*

**SITE.**—A number of three-storey "No-fines" blocks of flats are being built as part of the proposed Quinton Park district centre which will provide social and shopping facilities for a population of 14,000. The Quinton Pool, Cheylesmore, which lies on an island site, was constructed for a mill dam in the 17th century and will form the centre piece of the estate. A health centre, swimming bath, cinema, library, Baptist church and community centre will be included.

**PLAN.**—The flats are designed to save corridor space; all the rooms normally used in the day-time are grouped around the entrance hall and the bedrooms and bathroom are approached from a small internal lobby from the living room. Each entrance serves six flats and gives direct access to the rear of the building where drying areas and outbuildings are situated. Each upper floor flat has a private balcony.

**CONSTRUCTION.**—The flats are constructed with 12-in. external walls and 9-in. party walls in "No-fines" concrete. The walls are poured from ground level to gable top in one operation, the height to eaves level being approximately 26 ft. The shell of three complete flats is poured in one day, involving



**Site plan of proposed Quinton Park District centre**

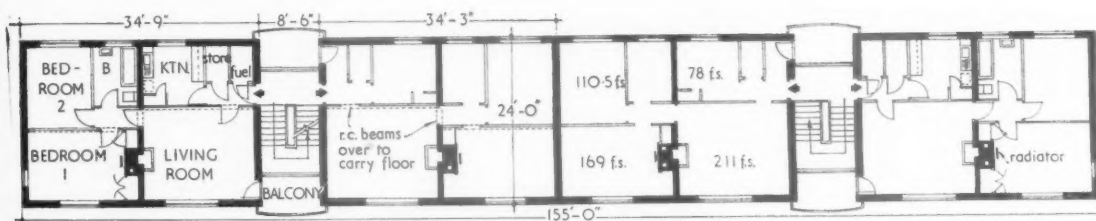


*Typical entrance serving six flats, with staircase windows above.*

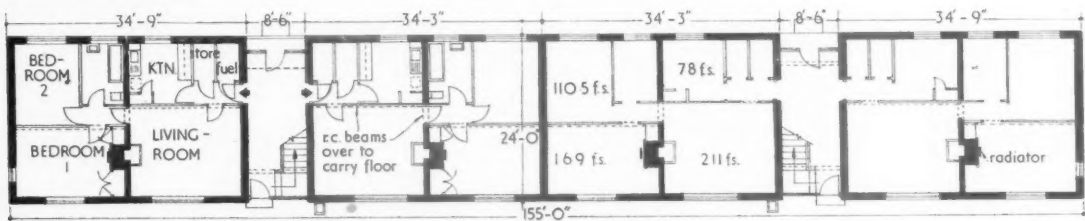
the placing of 110 cub. yds. of concrete in one working day. Experience has shown that the shells of nine flats are erected in a week by one operational unit. During the progress of the work considerable modification in shutter design has been made and the floors, which are in reinforced concrete, are poured on a light alloy shuttering. Light-alloy staircase shuttering have also been made to reduce site man hours.

**FINISHES.**—Externally the walls are rendered and finished with Derbyshire spar. All the windows

are of EJMA design but with a slightly heavier section than standard. The roofs are covered with double Roman tiles. The staircases are cast in situ with wrought iron balusters and anodized aluminium handrails. All walls are plastered and colour washed internally. Floors are finished with pitchmastic laid on the concrete, but in living rooms and entrance halls a  $\frac{1}{2}$ -in. thickness of insulating board is laid loose on the concrete and the pitchmastic laid immediately on this boarding. This is believed to be the first time this method of sound proofing has been used and the results are said to be satis-



First and second floor plan

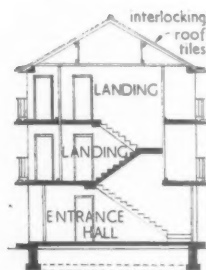


Ground floor plan [Scale:  $\frac{1}{4}$ " = 1' 0"]

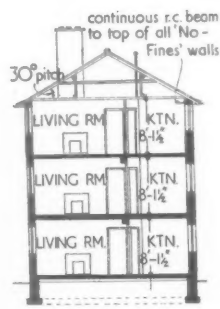
## FLATS

at COVENTRY

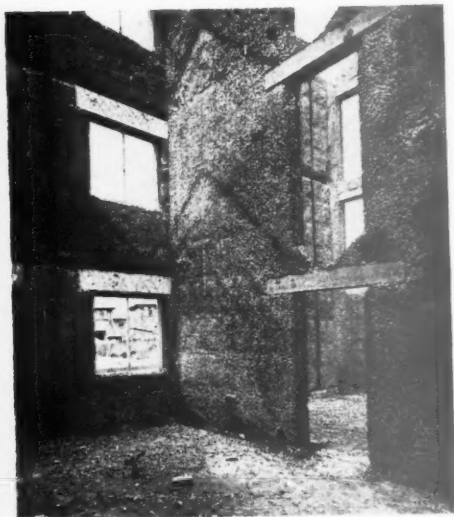
designed by D. E. E. GIBSON, CITY ARCHITECT



Section A-A



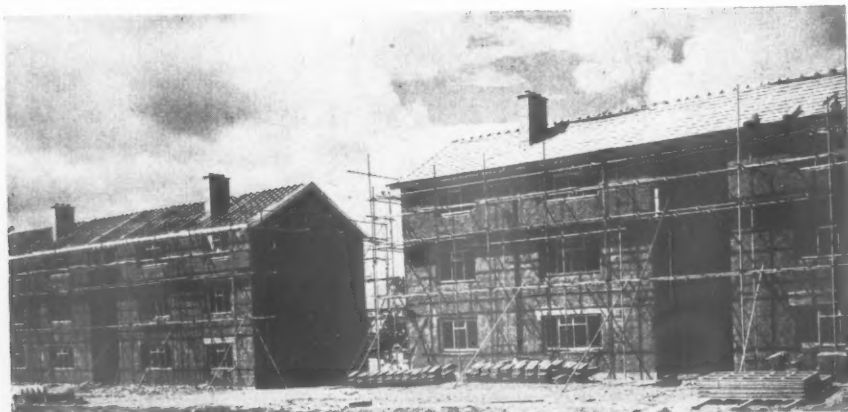
Section B-B



Interior showing beams and chases.

factory. Bathrooms and kitchens are paved with quarry tiles.

**SERVICES.**—There is a coke burning fire with back boiler in each living room, providing domestic hot water and heating a radiator in the main bedroom. To avoid the ugly effect of TV aerials on the roofs, provision has been made for a master aerial in the roof space in each of the flats. The contract price is approximately £1,100 per flat. The general contractors are George Wimpey & Co., Ltd. For sub-contractors see page 544



Exterior of two blocks before rendering was applied.

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

## TECHNICAL SECTION

*This feature appears from time to time in order to bring to readers' notice new constructional ideas considered worthy of more widespread adoption.*

### CURRENT TECHNIQUE

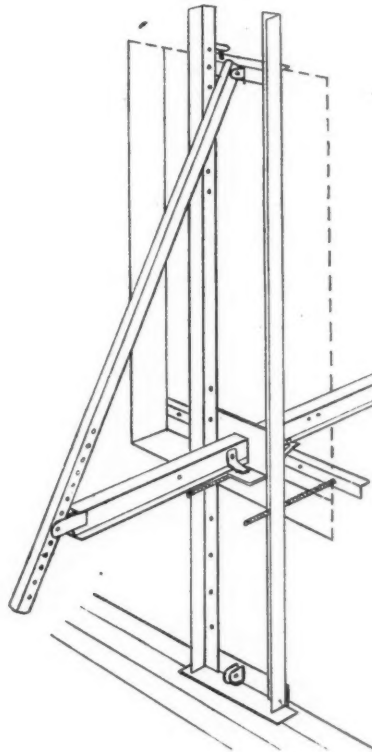
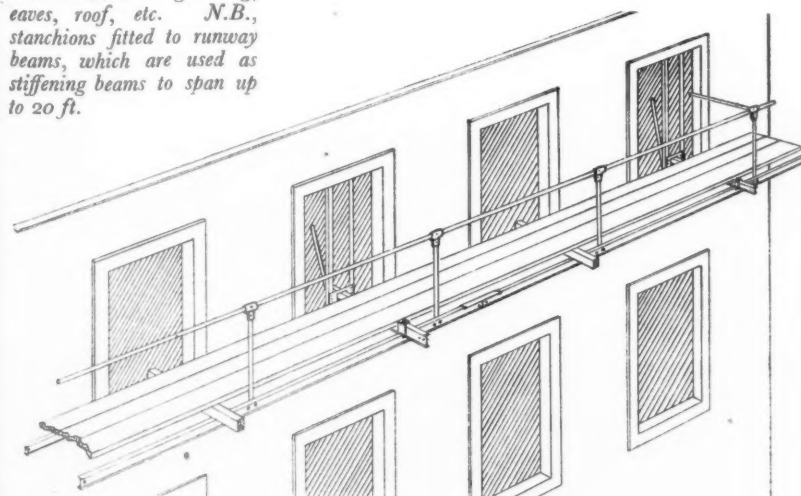
#### A NEW SCAFFOLDING SUPPORT

A modern form of the long-established wooden scaffolding support, based on the cantilever system, has been designed by Frederick R. Henderson of Cove, Dunbartonshire. There are two sizes, known as Mark I and Mark II.

The Henderson unit is constructed from mild steel and provides a support from inside the building; from this support can be suspended a cradle or platform enabling men to work at any point on the face of the building, or to repair guttering or eaves, without any support from the ground. The pavement or roadway is thus left clear of all obstructions, a point much appreciated by shopkeepers and others who find it essential that the public should have unrestricted access to entrance doors and display windows if business is not to be adversely affected during repairs or building maintenance. Another advantage is that pedestrians do not feel tempted to step into the roadway, and so the Henderson system makes a contribution to road safety.

The units, employed in pairs, are so arranged that a cantilever beam bears on

*Fig. 2. Mark II units supporting platform for maintenance work on guttering, eaves, roof, etc. N.B., stanchions fitted to runway beams, which are used as stiffening beams to span up to 20 ft.*

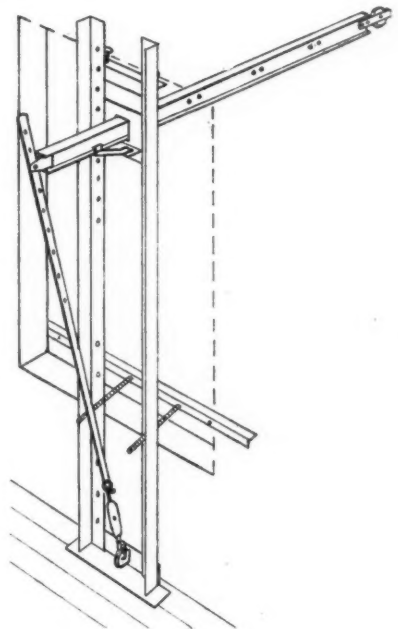


*Fig. 1. Above, Mark I Cantilever unit in lower position, viewed from inside of building. Right, Mark II Cantilever unit in upper position, viewed from inside of building.*

vertical supports mounted on the inner side of the wall; this utilizes the strength of the wall, some 80 per cent. of the strain being transferred via the cantilever beam. The system has been tested by DSIR, and by the James Watt College of Engineering, Glasgow University. It complies with the Factory Act Regulations and is fully protected by patents here, in Europe, and in the USA.

A unit can be fixed and ready for use in 12 minutes, or even less under favourable conditions. It is easily demountable and has no clips, sleeves or unions to work loose; the only fastenings are  $\frac{1}{4}$ -in. bolts and nuts.

Adapting the ancient method, in which a cantilever projecting from the wall is held in position by shoring-up a wooden beam from inside (bearing on the floor and ceiling), Mr. Henderson has produced a metal cantilever which can be placed in position and removed without defacing the archi-



traves or window cill of the outside or inside walls.

#### DETAILS

Fig. 1 shows the two sizes, Mark I and Mark II, each consisting of a cantilever beam bearing on uprights, which are placed on the inner side of the wall of the building, being secured by a tie-bar on the outside. To counteract the upward thrust taken by the cantilever beam, a backstay is secured to the inside end of the cantilever beam, with its other end secured to the upright. The Mark I units, employed in pairs at any distance apart not exceeding 10 ft., will support a cradle or platform with a superimposed load of 56 lb. per sq. ft.

The Mark I Henderson cantilever will support a load up to 15 cwt. at its outer end, this point being 6 ft. 4 in. from the uprights. Units may be used with the cantilever mounted near the top of the window (or other opening in the wall) allowing the

(Continued on page 543)

Prices are for work executed complete and are for an average job in the London area ; all prices include overhead charges and profit for the general contractor.

## CURRENT PRICES FOR MEASURED WORK

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

For Rates of Wages and Market Prices of Materials

see THE ARCHITECTS' JOURNAL for October 18, 1951.

*F.A. Davis*

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

### PRELIMINARIES

To all valuations for measured work add for Preliminaries.

Water and Insurances, according to the nature of the job (say) .... 10%

### EXCAVATOR

#### Excavation

N.B.—The following prices are applicable to hand excavation in heavy soil.

Surface digging, 6" deep	per yard super	-/10
Ditto, 12" deep	per yard super	1/8
Excavating not exceeding 10' 0" deep to reduce levels	per yard cube	6/9
Excavating not exceeding 5' 0" deep to form basement	per yard cube	7/7
Ditto, exceeding 5' 0" and not exceeding 10' 0" deep ditto	per yard cube	10/11
Excavating not exceeding 5' 0" deep to form surface trenches	per yard cube	9/3
Ditto exceeding 5' 0" deep and not exceeding 10' 0" deep ditto	per yard cube	12/7
Excavating not exceeding 5' 0" deep to form basement trench, commencing 10' 0" deep	per yard cube	15/11

#### Disposal

Returning, filling and ramming around foundations	per yard cube	2/11
Wheeling excavated soil not exceeding 100 yards and depositing	per yard cube	3/4
Ditto and spreading and levelling	per yard cube	4/4½
Ditto, ditto, and consolidating to make up levels under floors and pavings	per yard cube	5/6
Filling into lorries and carting away	per yard cube	11/7½

#### Planking and Strutting

Planking and strutting to sides of surface or basement excavation not exceeding 5' 0" deep	per ft. super	-/6
Ditto not exceeding 10' 0" deep	per ft. super	-/8
Planking and strutting to sides of surface trenches not exceeding 5' 0" deep (both sides measured)	per ft. super	-/1½
Ditto not exceeding 10' 0" deep (ditto)	per ft. super	-/3

### CONCRETOR

#### Concrete (Basic Prices)

Portland cement concrete 1 : 3 : 6 with 1½" coarse aggregate in foundations and masses exceeding 12" thick	per yard cube	60/9
Ditto 1 : 2 : 4 with 1½" coarse aggregate ditto	per yard cube	62/-

#### Add to Basic Prices for :—

Working around rod or mesh reinforcement	per yard cube	3/4
Being in beds less than 12" thick (6"-12")	per yard cube	1/8
Ditto less than 6" thick (4½"-6")	per yard cube	5/-

### CONCRETOR—(continued)

Being in small quantities not exceeding 3' cube	per yard cube	13/5
Being in suspended floors and roofs	per yard cube	10/1
Being in walls not exceeding 6" thick	per yard cube	16/9
Ditto exceeding 6" but not exceeding 12" thick	per yard cube	11/9
Ditto exceeding 12" thick	per yard cube	8/4½
Being in lintels, beams, etc., not exceeding 72 sq. in. sectional area	per yard cube	25/2
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	20/2
Ditto exceeding 144 sq. in. sectional area	per yard cube	16/9
Being in columns not exceeding 72 sq. in. sectional area	per yard cube	31/10
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	25/2
Ditto exceeding 144 sq. in. sectional area	per yard cube	20/2

#### Formwork

Close boarded formwork and supports to soffits of floors not exceeding 12' high	per yard super	15/3
Ditto to vertical faces of walls (both sides measured)	per yard super	14/10
Ditto to sides and soffits of lintols and beams	per ft. super	2/3
Add to any of the above for wrot formwork and rubbing down concrete	per yard super	2/3

#### Reinforcement

½" to 1" diameter mild steel rod reinforcement, hooked, bent and tied at intersections as required and fixing in concrete	per cwt.	44/6
½" diameter ditto	per cwt.	47/7
½" diameter ditto	per cwt.	57/7
Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in concrete	per yard super	3/-
Ditto weighing 9.32 lb. per yard super ditto	per yard super	5/8

### BRICKLAYER

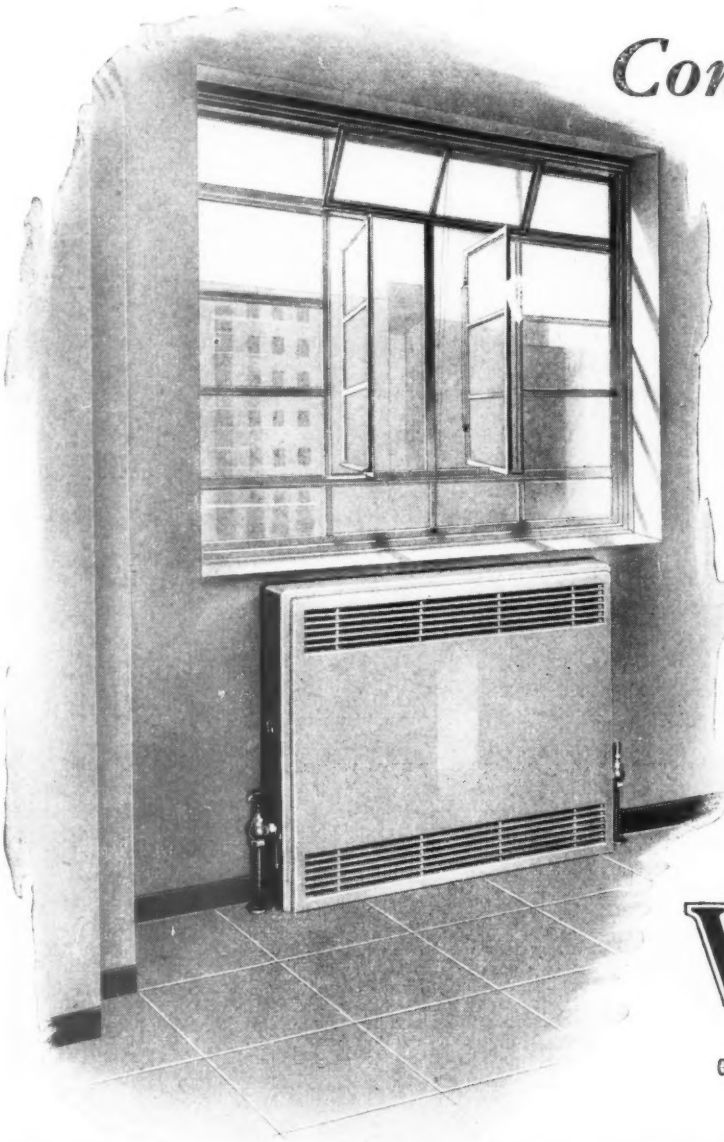
#### Common Brickwork

	Flettons	Rough stocks
Reduced brickwork one brick thick in cement-lime mortar (1 : 3 : 9)	per yard super 26/-	31/3
Add to the above :—		
If in cement mortar (1 : 3)	per yard super -/3	-/3
If circular on plan to flat sweep	per yard super 4/1	4/5
Ditto to quick sweep	per yard super 8/2	8/9
Half brick wall in cement lime mortar (1 : 3 : 9)	per yard super 14/2	16/8
Ditto built fair and pointed both sides with a neat flush joint	per yard super 15/9	18/5

**WELDEX  
HEATERS**

**INFORMATION ON PLANNED  
HEATING AND VENTILATING**

## Convector Heaters



The "WELDEX" Convector is designed to answer the demand of Architects and Heating Engineers for reliable, robust and attractive equipment for Hospitals, Schools, Offices, etc.

They are supplied in three casing styles: Wall Type, Floor Type and Floor type with Bottom Grille, the latter of which is illustrated here and in a range of lengths.

CASING fabricated from 18 gauge steel sheet and with easily removable Front Panel for inspection and cleaning.

FINISH Stoved Grey Primer is standard but special and two-colour finishes can be supplied.

ELEMENTS Universal type using "WELDEX" Steel Gilled Tubes in all-welded construction suitable for steam up to 100 p.s.i.g. and accelerated low pressure hot water.

DAMPER can be fitted if required and is adjustable.

ILLUSTRATED leaflet with table of ratings is available, and will be supplied on request.

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## 3-storey flats in 'no-fines' concrete

*Three-storey no-fines flats at Coventry. Walls 12" thick. Concrete suspended floors with noise insulation. External finish spar dry dash giving self-cleaning surface. To the design of the City Architect: D. E. E. Gibson, A.R.I.B.A.*



This is Wimpey's latest contribution to the solution of the housing problem. The "No-Fines" technique, long successful in the construction of two-storey buildings, has been adapted for these attractive three-storey flats, now completed and occupied by satisfied tenants. This new Wimpey development offers many advantages. Quite apart from the great speed of erection, by which nine flats can be poured in a week from a single set-up, the demands on skilled labour are

minimised, and the design can be readily adapted to meet particular local requirements. Furthermore, this construction, which compares most favourably in every way with traditional types, is available at most economical and competitive prices.

**WIMPEY**

★ *NO-FINES means that the fine material, normal in dense concrete is omitted. The resultant mix has air cavities which give good thermal insulation and avoid the risk of capillary attraction. No-fines walls are therefore warm and dry*

*Send your enquiries to:*

GEORGE WIMPEY & CO. LTD., HAMMERSMITH GROVE, LONDON, W.6. RIVerside 2000

## BRICKLAYER—(continued)

		Rough Flettons	stocks
One brick wall built fair and pointed both sides with a neat flush joint	per yard super	30/10	35/10
11" hollow wall with 2 cavity and galvanized iron twisted ties	per yard super	30/6	35/9
<i>Engineering Brickwork</i>			
		Lingfield Engin- eering	Blue Pressed bricks
Reduced brickwork one brick thick in cement mortar (1 : 3)	per yard super	36/8	57/6
Half brick wall in cement mortar (1 : 3)	per yard super	19/9	30/1
Ditto built fair and pointed both sides with a neat flush joint	per yard super	21/6	32/5
One brick wall built fair and ditto	per yard super	40/6	61/-
<i>Sundries</i>			
Extra for internal fair face and flush pointing	per yard super	1/-	
Horizontal damp-proof course of two courses of slates and bedding and pointing	per foot super	3/3	
Ditto of hessian base bitumen well lapped at joints	per foot super	-10½	
Fixing only metal window, size 1' 8" × 4' 0", including cutting and pinning lugs to brickwork, bedding frames and pointing in mastic one side	each	7/-	
Ditto, 3' 3" × 4' 0" ditto	each	10/10½	
Ditto, 6' 6" × 4' 0" ditto	each	19/3	
<i>Partitions</i>			
Breeze concrete solid parti- tion blocks to B.S. 492 and setting in cement mortar	per yard super	7/7½ 8/10½ 10/4	13/-
Hollow clay partition blocks to B.S. 1190, keyed on both sides and ditto	per yard super	7/11 8/9 10/-	12/2
Moler hollow partition blocks, keyed on both sides and ditto	per yard super	12/6 15/4½ 17/4	19/9
<i>Facings</i>			
		White glazed facings p.c.	
		1,230/- M	
		for stretchers	
		1,215/- M	
		for headers	
		and point- ing with	
		white	
		cement	
Extra over common brickwork built with bricks p.c. 100/9-M for facings as described, and pointing with a neat weath- ered joint:—		Ordinary facings, p.c. p.c.	
To solid wall in Flemish bond	per yard super	218/6 237/4	75/-
To cavity wall in stretcher bond	per yard super	12/6 14/-	60/-
To ditto in Flemish bond with snapped headers	per yard super	10/3 11/4	—
Half brick wall in facings in stretcher bond built fair and pointed one side with a neat weathered joint	per yard super	12/2 14/-	—
Ditto pointed both sides	per yard super	23/3 24/3	—
One brick wall in facings built fair and pointed one side	per yard super	24/2 25/2	—
Ditto pointed both sides	per yard super	43/6 45/9	—
Brick on end flat arch in facings 4½" on soffit and 9" high and pointing	per yard super	44/6 46/6	—
Brick on edge coping to 9" wall with two courses plain tiles under, laid breaking joint, two cement angle fillets and pointing	per foot run	2/8 2/9	—
	per foot run	4/6 4/8	—

## ASPHALTER

<i>Tanking</i>			
		To B.S.	To B.S.
		1097	1418
Horizontal asphalt tanking in three thicknesses on brick or concrete	per yard super	15/9	25/9
Vertical ditto	per yard super	20/-	29/5
<i>Roofing</i>			
		To B.S.	To B.S.
		988	1162
¾" asphalt flat in two thicknesses on and including felt underlay	per yard super	12/-	19/2

## ASPHALTER—(continued)

		To B.S. 988	To B.S. 1162
¾" asphalt skirting 6" high with angle fillet at bottom and rounded top, turned into groove	per foot run	2/1	2/6½
¾" asphalt fascia 6" high with solid water check roll at top and under- cut drip at bottom	per foot run	2/11	3/3

## DRAINLAYER

*Trenches and Beds*

N.B.—The following prices are applicable to hand excavation in heavy soil, only requiring planking and strutting for depths of 3' or more.

Excavate trenches for 4"-9" pipes, including planking and strutting, filling in and ram- ming, and wheeling and spreading surplus:—			
For each 12" in depth, for trenches not exceeding 3' 0" deep	per yard run	2/8	
Ditto for trenches exceeding 3' 0" and not exceeding 5' 0" deep	per yard run	4/-½	
Ditto for trenches exceeding 5' 0" and not exceeding 10' 0" deep	per yard run	6/5	
6" concrete (1 : 3 : 6) bed and benching for pipes	per yard run	4" 8/2	6" 9/5
6" ditto, and surround	per yard run	13/2	15/11

*Drains*

		3"	4"	6"
Clayware butt-jointed land drains and laying in trench	per foot run	-/4	-/4½	-/8
"Seconds" quality glazed stoneware socketed drains and laying and jointing in trench	per foot run	1/10	2/6½	4/3
"British Standard" quality ditto	per foot run	2/2	3/1	5/2
Extra on "Seconds" qual- ity for bends	each	2/9	3/11	7/2
Ditto "British Standard" quality ditto	each	3/4½	4/11	7/6
Extra on "Seconds" quality for single junction	each	4/8	6/11	15/-
Ditto "British Standard" quality ditto	each	6/9	7/6	19/-
Cast iron socketed drains to B.S. 437 and laying and jointing in trench	per foot run	9/8	14/9	29/-
Extra for short radius bend (Fig. No. 4)	each	19/-	38/-	117/3
Extra for single junction (Fig. No. 18)	each	35/-	68/-	188/6

*Fittings, etc.*

		4"	6"
Glazed stoneware trapped gully with galvan- ized grating and outlet and setting in concrete	each	20/4	37/6
Ditto with vertical inlet ditto	each	25/3	42/4
Cast iron trapped gully with high invert, grat- ing, and 4" outlet and setting in concrete	each	42/6	—
Ditto with vertical inlet ditto	each	52/3	—
Glazed stoneware intercepting trap with inspec- tion arm, stopper and chain and fixing in manhole and jointing to drain	each	62/6	72/9
Brown glazed stoneware half round straight channels and bedding and jointing in cement mortar	per foot run	1/7	2/5
Ditto ordinary channel bend and ditto	each	4/10	6/9½
Cast iron coated single seal manhole cover and frame to B.S. 497 Grade C and setting frame in cement and cover in grease	each	44/-	61/9
Galvanized ditto	each	74/9	109/-

## PAVIOR

		¾"	1"	1½"
Cement and sand (1 : 3) floated screed to receive pavings	per yard super	3/2	3/11	4/5
Ditto trowelled smooth to receive linoleum	per yard super	3/6	4/3	4/9
Cement and sand (1 : 3) paving trowelled hard and smooth	per yard super	3/6½	4/3	4/9
Granolithic paving (1 : 2½) laid on concrete	per yard super	5/7	6/4	7/1
¾" Red composition paving to B.S. 776 laid on prepared screed	per yard super	16/-		
¾" Terrazzo paving (Portland cement and spar aggregate) laid on prepared screed	per yard super	37/3		
Extra for white or cream cement	per yard super	5/3		
¾" Rubber flooring in all colours, laid on pre- pared screed	per yard super	51/-		
¾" × 12" × 12" Rubber tile flooring ditto	per yard super	41/6		

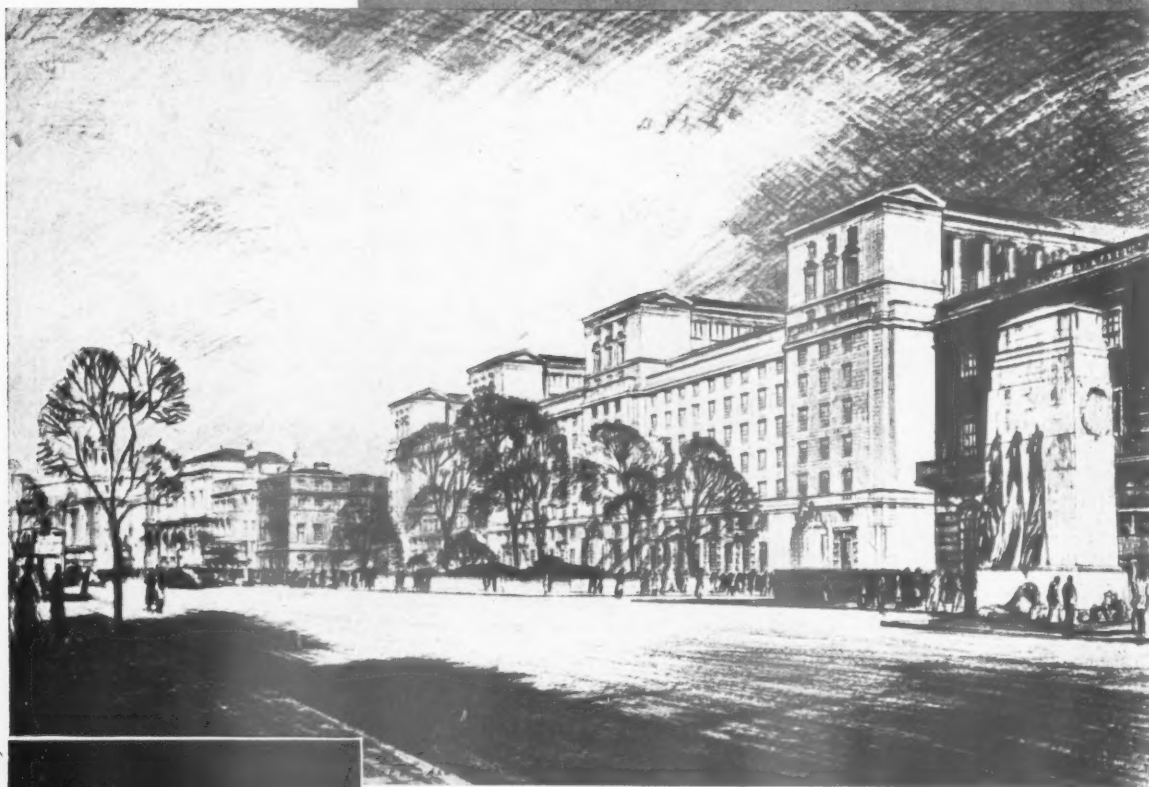


Prominent on the London scene are the new Whitehall offices being constructed by Richard Costain Ltd., the first stage of which is now approaching an advanced state of completion as can be seen by the illustration adjoining. The drawing reproduced below shows how this fine Government building will look when fully completed.

Architect:  
**E. VINCENT HARRIS, R.A.**  
Consulting Engineers:  
**R. TRAVERS-MORGAN & PARTNERS**



## The new Government Offices Whitehall Gardens



Richard  
**COSTAIN**  
*Limited*

### MAIN CONTRACTORS

Head Office: DOLPHIN SQUARE, LONDON, S.W.1. VICTORIA 6624  
Branches: MIDDLE EAST, RHODESIA, UGANDA AND NIGERIA

## PAVIOR—(continued)

$\frac{1}{8}$ " $\times$ 12" $\times$ 12" Cork tile flooring (brown shades) laid in mastic on prepared screed, surfaced and polished....	per yard super	40/8
$1\frac{1}{8}$ " Hard red paving bricks p.c. 340/- per M. laid flat on prepared bed in cement mortar....	per yard super	19/-
$1\frac{1}{8}$ " Ditto laid herringbone .....	per yard super	20/9
6" $\times$ 6" Red quarry tile paving to B.S. 1286 laid on prepared screed with straight joints .....	per yard super	19/7 21/11
6" $\times$ 6" Buff quarry tiles as last .....	per yard super	22/3 25/6
$2\frac{1}{2}$ " (Finished) Gravel path laid on prepared bed, well watered and rolled to cambers and falls .....	per yard super	2/4

## MASON

Portland stone and all labours in pilasters, quoins, jambs, lintols, etc. ....	per foot cube	36/-
Ditto in arches, columns, cornices, etc. ....	per foot cube	50/-
Ashlar av. $6\frac{1}{2}$ " on bed with plain dressed face....	per foot super	20/-
Portland stone or artificial stone to B.S. 1217 :—	Portland Artificial	
$4\frac{1}{2}$ " $\times$ 4" Sill, sunk, weathered, throated and grooved for water bar, set and jointed in cement mortar .....	per foot run	6/9 4/6
9" $\times$ 3" ditto .....	per foot run	8/- 6/3
2" $\times$ 12" Coping, weathered and twice throated, set and jointed as last .....	per foot run	7/4 5/8
3" $\times$ 12" Ditto .....	per foot run	10/3 8/3
5" $\times$ 12" Saddle back coping twice throated, set and jointed as last .....	per foot run	17/- 12/9
6" $\times$ 12" Ditto .....	per foot run	18/9 15/9

## SLATER, TILER AND ROOFER

<i>Slate</i>		20" $\times$ 10"	16" $\times$ 8"
Best Bangor slates to B.S. 680 laid with 3" lap, each slate nailed with two stout copper nails .....	per square	236/3	223/3
Ditto hung vertically to dormer cheeks and gables .....	per square	243/6	233/9
<i>Tiles</i>		Hand made	Machine made
Best sand faced plain (nibbed) tiles to B.S. 402, $10\frac{1}{4}$ " $\times$ 6" laid to a 4" gauge with each tile in every fourth course nailed with galvanized nails .....	per square	162/9	155/-
Ditto hung vertically to dormer cheeks and gables to $4\frac{1}{4}$ " gauge with each tile nailed with galvanized nails .....	per square	158/-	150/3
Berkshire hand made sand faced red pantiles $14\frac{1}{2}$ " $\times$ 10" laid to $2\frac{1}{2}$ " head and $1\frac{1}{2}$ " side laps, each tile in every third course nailed with galvanized nails .....	per square	157/6	
Ditto to mansard slopes....	per square	165/6	
Concrete plain (nibbed) tiles to B.S. 473, $10\frac{1}{4}$ " $\times$ 6" laid as before described for plain tiles....	per square	99/9	
Ditto hung vertically to dormer cheeks, and gables, ditto .....	per square	103/6	
Concrete interlocking tiles $15\frac{1}{2}$ " $\times$ 9" laid to 3" lap, each tile in every third course nailed with galvanized nails .....	per square	78/9	
Ditto to mansard slopes ditto .....	per square	86/8	
<i>Asbestos Cement</i>			
6" Corrugated asbestos cement sheeting fixed to wood roofs with galvanized drive screws and washers with a side lap of $1\frac{1}{2}$ corrugations and an end lap of 6" .....	per square	78/9	
6" Ditto but fixed vertically .....	per square	84/-	
Add to both last if fixed to steel purlins or sheeting rails with galvanized hook bolts .....	per square	2/11	
<i>Felt</i>			
Reinforced bituminous roofing felt laid with 3" laps and nailed to rafters at 18" centres with galvanized clout nails .....	per square	28/11	
One-ply bitumen felt to B.S. 989 laid on concrete. Each layer bedded in hot bitumen .....	per yard super	7/2	9/9

## CARPENTER

<i>Carcassing</i>			
Softwood, sawn and fixed, in plates, sleeper joists and lintols .....	per foot cube	17/11	
Ditto in floor and ceiling joists....	per foot cube	19/6	
Ditto in stud partitions .....	per foot cube	21/-	
Ditto in rafters .....	per foot cube	20/10	
Ditto in purlins and struts .....	per foot cube	21/-	

## CARPENTER—(continued)

Ditto and framing in ridge .....	per foot cube	20/10
Ditto in hip and valley rafters including cutting rafters to sizes .....	per foot cube	22/10

## Battening and Boarding

$\frac{3}{4}$ " $\times$ $1\frac{1}{2}$ " Battens nailed to softwood for 20" $\times$ 10" slates to $8\frac{1}{2}$ " gauge .....	per square	29/11	31/6
Ditto $16\frac{1}{2}$ " $\times$ 10" slates to $6\frac{1}{2}$ " gauge .....	per square	37/10	39/11
Ditto $10\frac{1}{2}$ " $\times$ 6" tiles to 4" gauge ( $4\frac{1}{2}$ " for vertical hanging) .....	per square	60/4	57/9
Ditto $14\frac{1}{2}$ " $\times$ 10" pantiles to 12" gauge .....	per square	21/-	21/6
Ditto 15" $\times$ 9" concrete interlocking tiles to 12" gauge .....	per square	21/-	21/6
Roof boarding in batten widths close jointed and fixed to flat or sloping roofs .....	per square	124/-	159/9
Ditto tongued and grooved and prepared for felt roofing including firing to falls .....	per square	181/6	217/9
Sawn gang boarding fixed to joists in roof .....	per foot super	1/4	1/9
Wrot and crosstongued eaves soffit .....	per foot super	2/-	2/5
6" Wrot and grooved eaves fascia planted on .....	per foot run	-10/1	1/1
<i>Wall and Ceiling Boards</i>			
$\frac{1}{2}$ " Fibre board to B.S. 1142 fixed with galvanized flat headed nails to softwood .....	per yard super	6/6	6/7
$\frac{3}{8}$ " Asbestos cement flat sheeting to B.S. 690 fixed as last .....	per yard super	5/4	5/7 $\frac{1}{2}$
$\frac{1}{4}$ " Ditto .....	per yard super	6/4	6/8

## JOINER

## Floors and Skirtings

(All thicknesses stated are nominal)

Plain edge softwood flooring in batten widths nailed to floor joists .....	per square	152/-	170/-	206/3
Tongued and grooved ditto .....	per square	168/-	180/3	218/-
1" Double grooved and tongued and grooved wood block floor laid herringbone with two-block border, set in hot mastic composition on prepared screed and wax polished :—				
Swedish softwood .....	per yard super	30/3		
European Beech .....	per yard super	36/6		
English Oak .....	per yard super	45/3		
European Oak .....	per yard super	42/3		
Burma Teak .....	per yard super	46/9		
Softwood skirtings with splayed or molded top edge, planted on (per inch sectional area) .....	per foot run	-12 $\frac{1}{2}$	-12 $\frac{1}{2}$	
Extra for grounds plugged to brickwork .....	per foot run	-6		

## Windows in Softwood

Rebated and molded softwood fanlights and casement sashes divided into squares for glass .....	per foot super	11" 2"	2" 3/-
Extra for hanging .....	each	6/1	6/1
Cased frames with 6" $\times$ 3" Oak sill and 2" molded double hung sashes including pulleys, line and weights .....	per foot super	—	9/9
N.B.—The above prices are for purpose made joinery. Standard pattern casement windows and double hung sashes and frames to B.S. 644 are cheaper.			

## Doors in Softwood

Framed ledged and braced doors filled in with 1" T. & G. and V-jointed boarding and hanging .....	per foot super	11" 11" 2"	5/6 5/6
Four-panel door, square both sides and hanging .....	per foot super	3/5	4/1 4/1
Ditto molded one side .....	per foot super	3/8	4/4 4/4
Ditto molded both sides .....	per foot super	3/11 $\frac{1}{2}$	4/7 4/7
N.B.—The above prices are for purpose made doors. Standard panelled doors to B.S. 459 are cheaper.			
$1\frac{1}{2}$ " Standard flush doors 2' 6" $\times$ 6' 6" internal pattern....	each	97/6	
2" Ditto external pattern .....	each	106/9	

## Linings, Frames, etc., in Softwood

Window and door linings etc. (per inch in sectional area) .....	per foot run	Up to 6" 6" to 12"	-3 $\frac{1}{2}$ -3
Frames wrot all round and framed (ditto) .....	per foot run	-2 $\frac{1}{2}$	-2 $\frac{1}{2}$
Mullions, transoms and cills (ditto)....	per foot run	-3 $\frac{1}{2}$	-2 $\frac{1}{2}$
Moldings, architraves, etc. (ditto) .....	per foot run	2" to 4" 4" to 6"	-2 $\frac{1}{2}$ -2 $\frac{1}{2}$

## Heat, Light—and Time

The water and gas supplies, the electricity and telephone wiring in modern buildings are, as a matter of course, planned on the drawing board, but the clocks are too often forgotten. Yet in all large buildings accurate and consistent time-indication is important and it pays to plan it with the other services. The time-indication for the South Bank exhibition was planned in this way using Gibson Master-and-Slave clocks. There are 133 Slave clocks and Time Recorders (some of them specially designed for the buildings in which they are used), driven by electrical impulses from a single Master clock. Batteries charged from the mains maintain the system during power-cuts.

Baume and Company are specialists in electrical time-indication and are always prepared to design special clocks.



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Interior styling: Richard Lonsdale-Hands Associates

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Tops and Fronts · Food Trolleys · Trays, etc.  
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WARERITE LIMITED (UNIT OF BAKELITE LIMITED) WARE · HERTS · TEL: WARE 502

## JOINER—(continued)

			Thickness	
			1"	1½"
6" Window boards with rounded nosings, tongued at back and including bearers	per foot run		2/7	2/10
9" Ditto	per foot run		2/11	3/2½
<i>Shelving and Fittings in Softwood</i>				
Shelving of 2" slats spaced 1" apart on bearers (measured separately)	per foot super	¾"	2/1½	2/8
Shelving on ditto	per foot super		2/2½	2/9
Crosstongued shelving on ditto	per foot super		2/9	3/4½
Shelving 9" wide on ditto	per foot run		1/9	2/1½
2" Shelf bearers plugged to walls	per foot run		-1/1	1/1
The following in framed up cupboard fittings:—				
T. & G. & V-jointed back	per foot super		2/-	2/5
Crosstongued top, bottom shelf or division	per foot super		2/10	3/5
1½" Flush cupboard doors	per foot super		5/11½	
Labour rebate or groove	per foot run		-2½	
Ditto cross-grain	per foot run		-4	
1" x 2" Bearers screwed on	per foot run		-5½	

N.B.—The above prices are for purpose-made cupboard fittings. Standard pattern kitchen fittings to B.S. 1195 are cheaper.

## IRONMONGERY

			Soft-wood	Hard-wood
3" Steel butts (medium quality)	per pair		1/-	1/-
4" Ditto (ditto)	per pair		1/6½	1/6½
Double action floor springs and top centres including filling boxes with oil P.C. 149/3	each	179/3	185/-	
Overhead check action door springs. P.C. 66/8	each	83/-	86/4	
6" Barrel bolts. P.C. 5/6	each	7/6	7/11	
Cupboard locks. P.C. 8/2	each	11/11	12/10	
Norfolk latches. P.C. 5/6	each	9/11	11/3	
Cylinder night latch. P.C. 15/11	each	22/4	24/-	
Mortice latch. P.C. 9/4	each	14/2	15/6	
Rim lock. P.C. 10/-	each	13/11	14/11	
Mortice lock. P.C. 15/2	each	21/6	23/2	
Door furniture. P.C. 24/-	per set	27/4	27/9	
Sash fasteners. P.C. 9/-	each	11/6	12/-	
Caseament fasteners. P.C. 7/11	each	9/10	10/4	
Caseament stays. P.C. 11/6	each	13/10	14/3	

## STEEL AND IRONWORKER

*Structural Steelwork*

The following prices are for Basic sections (5" x 4½" to 16" x 6") only. Prices for other sections vary roughly in proportion to the price of the steel ex mills—see "Current Market Prices of Materials."

R.S.J.—in steel framed structures hoisted and fixed complete	per ton	£	s.	d.
Riveted compound girders including plates and rivets	per ton	56	19	3
R.S. Stanchions including caps, bases, cleats, etc.	per ton	58	10	9
Riveted compound stanchions ditto	per ton	60	7	6
Riveted roof trusses with flat and angle members, plates, cleats, etc., 30' span	per ton	84	10	6
Ditto 40' span	per ton	82	8	6

*Sundries*

Simple wrought iron balustrades fixed complete (excluding mortices etc.)	per cwt.	9	10	6
Bolts with heads, nuts and washers and fixing	per cwt.	11	1	3

## PLASTERER AND TILE FIXER

24 gauge expanded metal lathing and fixing to softwood soffits	per yard super	5/3½
--	----------------	------

*Lime and Gypsum Plaster*

Three coat lime and two coat Sirapite or similar Gypsum plaster:—		Lime	Sirapite
On brick walls and partitions	per yard super	5/5	4/2½
On concrete soffits including hacking	per yard super	6/6	5/11
On soffite of E.M.L. (measured separately)	per yard super	5/6	6/6
On and including wood laths, to soffits per yard super		9/3	—
¾" Gypsum plasterboard fixed to softwood soffits, in accordance with manufacturer's instructions, scrimmed and finished with setting coat of suitable plaster	per yard super		6/11
Plaster moulded cornice or cove (per inch in girth)	per foot run		-4½

*Cement Rendering*

Rendering in Portland cement and sand (1:4) and setting in Keenes cement on brick walls and partitions	per yard super	5/3
Portland cement and sand (1:3) plain face trowelled smooth on ditto	per yard super	4/9½
Portland cement and sand (1:3) screed for tiling on ditto	per yard super	2/7

## PLASTERER AND TILE FIXER—(continued)

*Wall Tiler*

6" x 6" x ¾" Standard quality white glazed wall tiles set and jointed on prepared screed	per yard super	36/9
Ditto eggshell matt or glossy glazed enamelled	per yard super	46/6

## EXTERNAL PLUMBER AND COPPERSMITH AND ZINCWORKER

		Flats	Gutters, flashings, etc.	Stepped flashings
Milled sheet lead and labour	per cwt.	283/9	283/9	291/6
24 S.W.G. sheet copper and labour	per foot super	5/-	5/3	5/6
23 S.W.G. sheet copper and labour	per foot super	5/6	5/9	6/-
14 gauge zinc and labour	per foot super	3/9	4/-	4/4

*Rainwater Pipes and Gutters*

		3"		4"	
		With holder-bats	With nails	With holder-bats	With nails
Cast iron medium section (¾" metal) R.W. pipes and jointing and fixing to walls with pipe nails and distance pieces or holderbats (cutting and pinning holderbats measured separately)	per foot run	4/3	3/4	5/3	4/3
Pressed steel R.W. pipes and ditto	per foot run	3/7	3/-	4/11	4/6
Asbestos cement R.W. pipes and ditto	per foot run	2/4	—	3/-	—
Cast iron half round eaves gutter and jointed and fixed with brackets to fascia	per foot run	2/4	2/9	3/6	4/2
Ditto O.G. ditto	per foot run	2/9	3/5	3/6	5/3
18 Gauge pressed steel half round ditto	per foot run	2/5	—	3/6	—
Ditto O.G. ditto	per foot run	3/-	—	4/-	—
Asbestos cement half round ditto	per foot run	2/-	—	3/1½	—

*Soil and Ventilating Pipes*

		3"		4"	
		Heavy	Med-ium	Heavy	Med-ium
Lead soil, waste and ventilating pipes (17 lb. per yard for 3" and 22.8 lb. per yard for 4" diameter) fixed to walls with lead tacks and brass screws	per foot run	16/9	—	23/3	—
Medium or heavy section cast iron soil, waste and ventilating pipes with caulked joints, fixed to walls, with pipe nails and distance pieces	per foot run	4/5	4/1	5/7	5/7

## INTERNAL PLUMBER

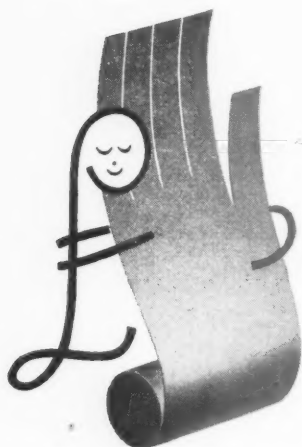
*Lead Pipes*

Prices are based upon the following weights per yard.

		½"	¾"	1"	1½"
Supply		7	11	16	21
Distributing		6	9	12.5	16
Flushing and overflow		3	5	7	9
Waste and ventilating		—	—	—	7
Supply pipe in trench (measured separately)	per foot run	5/6	8/7	12/3	16/2
Ditto fixed to walls and ceilings	per foot run	5/11	9/1	13/-	17/4
Distributing pipe fixed to walls and ceilings	per foot run	6/3	7/8	10/6	13/8
Flushing and overflow pipe ditto	per foot run	3/-	4/10	6/6	8/7
Waste and ventilating pipe ditto	per foot run	—	—	—	7/3
Joints to fittings	each	5/2	6/3	6/7	7/7
Bends	each	1/-½	1/-½	1/4	1/7
Branch joints	each	6/-	7/4	8/-	9/1

*Steel Tubes and Fittings*

Galvanized steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply pipe laid in trench (measured separately)	per foot run	1/10½	2/2	2/3	3/2
Ditto Class B ditto fixed to walls and ceilings as supply, distributing, waste pipe, etc.	per foot run	1/9	2/2	2/3	3/-
Joints to fittings	each	3/4	4/-	4/10	6/-
Bends	each	1/9	2/2	2/10	4/3
Tee, equal or reducing	each	1/11	2/2	2/8	3/6



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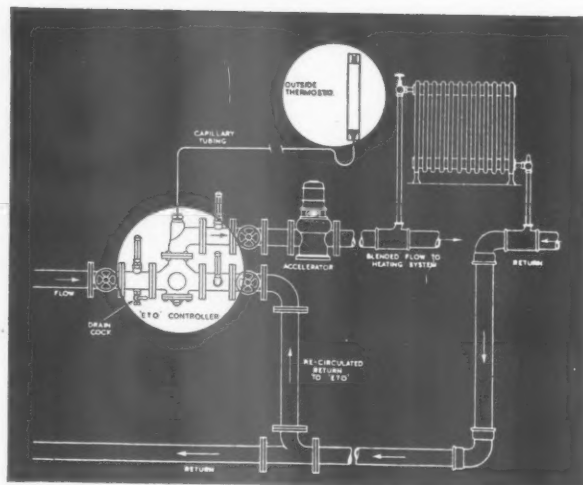
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AR 1151

**INTERNAL PLUMBER—(continued)***Copper Tubes and Fittings*

Prices are based upon the following gauges:—

	1"	1 1/2"	2"	3"
Supply .....	18	17	16	16
Distributing, waste, etc. ....	19	19	18	18
Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench measured separately) ....	per foot run 1 1/8	2/6	3/6	4/2
Ditto to B.S. 659 as distributing, waste pipes, etc. fixed to walls and ceilings. Couplings measured separately ....	per foot run 1/9	2/3	3/1	3/7
Brass compression type couplings—copper to copper ....	each 4/8	5/7	7/11	10/2
Ditto bends ....	each 6/3	7/5	10/10	13/9
Ditto tees ....	each 8/4	9/6	14/9	21/-

*Sanitary Fittings*

Fireclay sinks 24" x 18" x 10" including cutting and pinning brackets to tiled wall. P.C. 60/- ....	each	£	s.	d.
Combined metal sink and drainer 42" x 18" x 8 1/2" to bearers (measured separately). P.C. 322/- ....	each	18	1	0
Fireclay lavatory basin 25" x 18" with taps and towel rail bracket including screwing brackets to tiled wall. P.C. 121/3 ....	each	7	4	0
Rectangular cast iron porcelain enamelled bath 5' 6" long, with taps, and panels to side and one end fixed to framing (measured separately) P.C. 362/3 ....	each	21	8	9
Fireclay w.c. pan with trap, plastic seat, high level cistern and flush pipe, including screwing pan to floor and cistern brackets to backboard. P.C. 194/6 ....	each	12	2	3
Ditto with low level cistern. P.C. 205/6 ....	each	12	15	6

**GLAZIER**

	To wood	To metal
18 oz. Ordinary quality sheet glass and glazing with putty in squares not exceeding 4 ft. sup. ....	per foot super -/9	-/10
24 oz. Ditto and ditto ....	per foot super -/10 1/2	-/11 1/2
32 oz. Ditto and ditto ....	per foot super 1/3 1/2	1/4
1" Figured, rolled, and cathedral—untinted and ditto ....	per foot super 1/-	1/1
1" Rough cast and ditto ....	per foot super 1/3	1/4
1" Wired cast and ditto ....	per foot super 1/4	1/5
1" Georgian wired cast and ditto ....	per foot super 1/4 1/2	1/5 1/2

**GLAZIER—(continued)**

	To wood	To metal
1/2" Georgian wired polished plate and ditto ....	per foot super 4/10	4/11
1/2" Polished plate (glazing quality) and ditto ....	per foot super 4/6 1/2	4/8

**PAINTER***Whitening, Distemper and Paint on Walls*

Prepare and twice whiten plastered walls and ceilings ....	per yard super	1/-
Prepare and twice distemper with washable distemper on plastered walls and ceilings ....	per yard super	1/7
Ditto on brick or concrete ....	per yard super	2/2
Prepare, prime, and paint two coats oil colour on plastered walls and ceilings ....	per yard super	4/8

*Paint on Metal*

	Basic price	Add for each additional coat
Prepare, prime, and paint one coat oil colour on general surfaces ....	per yard super 3/-	1/4
Ditto metal casements ....	per yard super 4/4 1/2	1/11
Ditto members of roof trusses ....	per yard super 3/8	1/7 1/2
Ditto balustrades one side ....	per yard super 4/4 1/2	1/11
Ditto bars, etc., not exceeding 6" girth ....	per yard run -/9	-/4
Ditto small pipe ....	per yard run -/9	-/4
Ditto large pipe ....	per yard run 1/5 1/2	-/7 1/2

*Paint on Wood*

	Basic price	Add for each additional coat
Knot, prime, stop and paint one coat oil colour on general surfaces of woodwork ....	per yard super 3/3	1/4
Ditto on skirtings, rails, frames, etc., not exceeding 3" girth ....	per yard run -/5	-/2
Ditto ditto for each additional 3" in girth ....	per yard run -/4 1/2	-/2
Ditto on sash squares one side ....	per dozen 4/-	1/7
Ditto on large sash squares one side ....	per dozen 7/3	2/10 1/2

*Stain and Varnish on Wood*

Prepare, size, stain and twice varnish on general surfaces of woodwork ....	per yard super	3/4
Ditto on skirtings, rails, frames, etc. not exceeding 3" girth ....	per yard run	-/5
Ditto ditto for each additional 3" in girth ....	per yard run	-/4 1/2

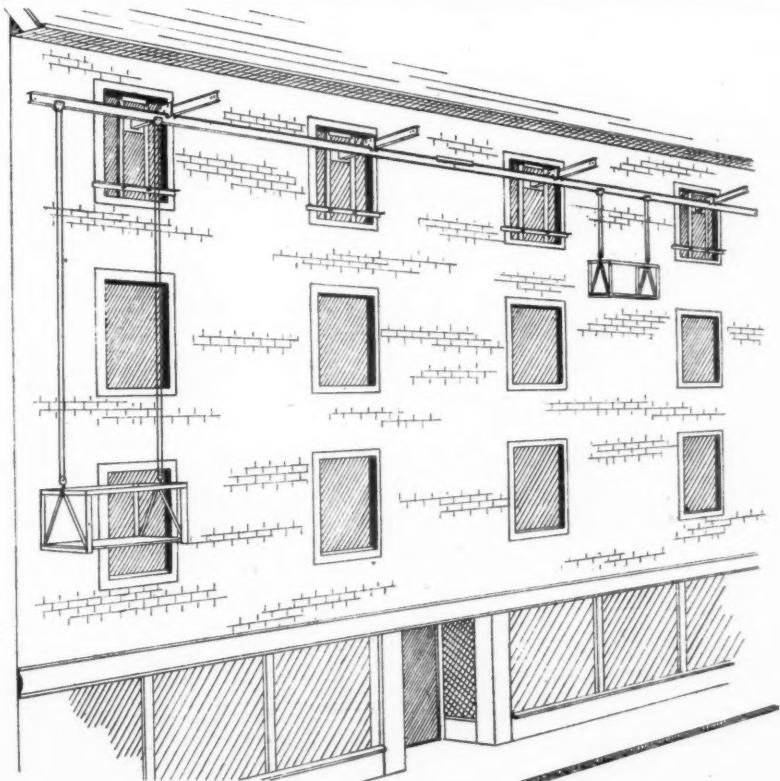
(Continued from page 537)

continuous runway beams, placed above the cantilevers, to support travelling cradles which may be moved horizontally or vertically, thus bringing every point on the wall surface within reach of builders or painters, as in Figure 3. Otherwise, with the cantilever as shown in Figure 2, a runway can be formed by placing scaffolding planks on top of the cantilever, and a hand-rail may be added by bolting the necessary stanchions to the cantilevers or stiffening beams. The usual maximum of 10 ft. between uprights may be increased to 20 ft. by employing stiffening beams between the cantilevers.

The Mark II, a lighter model altogether, takes a load up to 5 cwt., with the cantilevers extending to a point 6 ft. from the uprights, and when in position a pair will support up to 28 lb. per sq. ft.

Fig. 3 shows how the Henderson unit allows free access to shop fronts, entrances, and the loading level for road vehicles. This arrangement of the units provides exceptional flexibility for reaching all parts of the face of a building, even to the painting of a shop sign if need be, without having to adjust anything at all, except the cradle which supports the men at work.

Fig. 3. Mark II units with continuous runway beams and suspended travelling cradles for light maintenance work, such as painting, pointing, roughcasting, etc.



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A.J. 1.11.51

## Buildings Illustrated

Furnishings for Hotel at Lusaka, Northern Rhodesia. (Pages 526-527.) Architect for Hotel: G. A. Jellicoe, F.R.I.B.A., M.T.P.I.

Assistant Architects: Mrs Sheila Haywood, A.R.I.B.A., R. K. Rutherford, A.R.I.B.A., Miss P. M. T. Durling, A.R.I.B.A., Miss M. Braendle. Architect for interior Decoration and Furniture: Dennis Lennon, M.C., A.R.I.B.A.; Assistants: Mrs. Kaethe Morton, M.D.B., Miss Bente Juhl, M.D.B., Miss Pamela Broadhead, A.R.I.B.A., Mrs. Brenda Davison, A.R.I.B.A.; Manufacturers: furniture, Scottish Furniture Manufacturers Ltd.; lighting fittings, Troughton & Young Ltd., Scottish Furniture Manufacturers Ltd.; fabrics, Tibor Ltd., David Whitehead Ltd., Edinburgh Weavers, Donald Bros. Ltd., Wilson & Glennie Ltd., Warner & Sons Ltd.; carpets, James Templeton & Co. Ltd.; wall-papers, Cole & Son Ltd., John Line & Sons Ltd.; cutlery and plate, Gladwin Ltd.; china, Dunn Bennett & Co. Ltd.; crystal glass, Johnsen & Jorgensen Flint Glass Ltd.; linen and napery, Alexander Eccles & Co.; blankets, Charles Earley & Co. Ltd.; pillows, The Puritan Feather Co.; mattresses, The Dunlop Rubber Co. Ltd.; prints, Ganymed Press Ltd.

Works Cloakroom Block for May & Baker Ltd. at Dagenham, Essex. (Page 530.) Architect: Edward D. Mills, F.R.I.B.A., F.R.S.A. General Contractor: E. H. Burgess Ltd.; Sub-Contractors: dampcourses (Staffordshire blue brick), B. Finch & Co. Ltd.; asphalt, Limmer & Trinidad Lake Asphalt Co. Ltd.; bricks, Fisons Ltd. (Brick Dept.); central heating and hot water, plumbing, sanitary & cloakroom fittings, Stitson White & Co. Ltd.; electric wiring, Rylands Electrical Co. Ltd.; electric light fixtures, Merchant Adventurers Ltd.; door furniture, Dryad Metal Works Ltd.; casements and window furniture, James Couper & Co. Ltd.; plaster, Cement Glaze Ltd.

Showroom at 32/34, Great Marlborough Street, W.1. for Lincoln Models Ltd. (Pages 528-529.) Architect: Douglas Stephen & Partner. General Contractor: C. D. Pro-

ductions, Ltd. Sub-contractors: Tiles, Carters Tiles specially hand-painted and fired for tile mural by Fred Millett; glass, Lenscrete Ltd.; wood-block flooring, Philip Flooring Co.; special electric light fittings, C. D. Electrical Ltd., designed by architect, standard fittings from Troughton & Young Ltd.; door furniture, Binns Ltd., supplied by Dryad Metal Works Ltd.; pottery, Briglin Pottery, designed by architect; wallpapers, Arthur Sandersons & Sons Ltd.; chairs, Tylers (Architectural) Ltd., designed by architect; desks and fitted furniture, C. D. Productions; tables (glass), Newton Products Ltd.; showroom chairs, Robin Day, made by Hille Ltd.; shrubs and trees, West End Flower House Ltd.; signs, The Lettering Centre;

Three Storey "No-Fines" Flats on 4 sites in Coventry; Quinton Park, Quinton; Howes Lane, Stonebridge; Allesley Road, Allesley; Fletchamstead Highway. (Pages 533-536.) Architect: D. E. Gibson, C.B.E., M.A., A.R.I.B.A., (City Architect). Deputy City Architect: Frederick Pooley, A.R.I.B.A., A.M.I.S.T.R.U.C.T.E. Housing Architect: Gwyn Morris, A.R.I.B.A., A.M.T.P.I. General Contractor: George Wimpey & Co. Ltd. Agent: D. R. Jardine. Sub-contractors: Asphalt, General Asphalt Co. Ltd.; bricks, London Brick Co. Ltd., Marston Valley Brick Co. Ltd.; tiles, Colthurst Symons Ltd.; glazed partitions, J. A. King & Co. Ltd.; glass, Merrick & Heath; grates and boilers, Ideal Boilers & Radiators Ltd.; gasfitting, electric light fixtures, J. C. Toogood; electric wiring, Francis L. Flynn; sanitary fittings, Matter-son, Huxley & Watson Ltd.; door furniture, Walker & Wood; casements, Wm. Thomas & Sons; iron staircases, metalwork, S. W. Farmer & Son, Ltd.; joinery, Joinery Products, Kingston Joinery, Wm. Thomas & Son; tiling, J. Wormell (Roofing) Ltd.; shrubs and trees, Coventry Corporation Parks Dept.; water supply, Water Board, Coventry.



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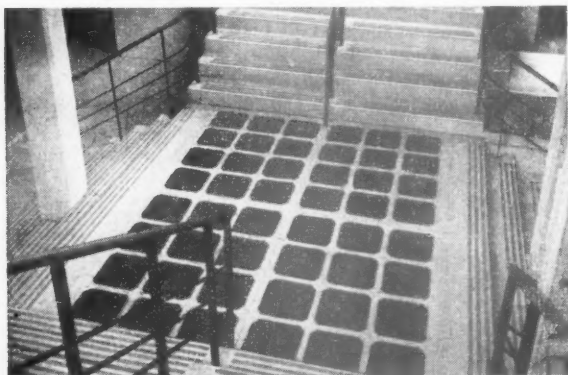
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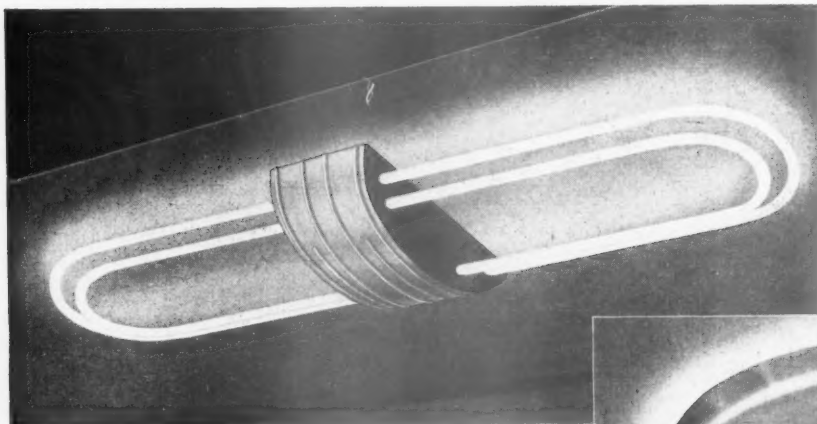


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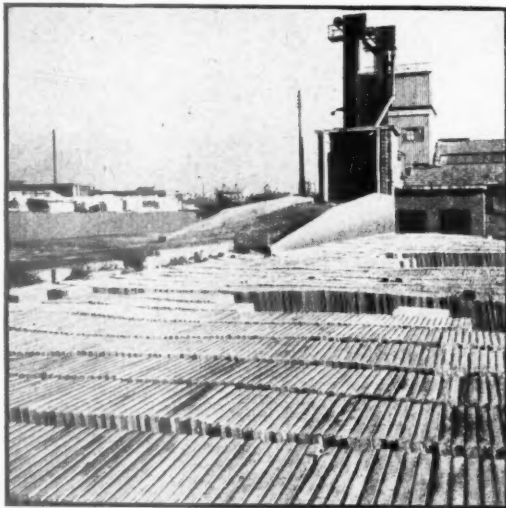
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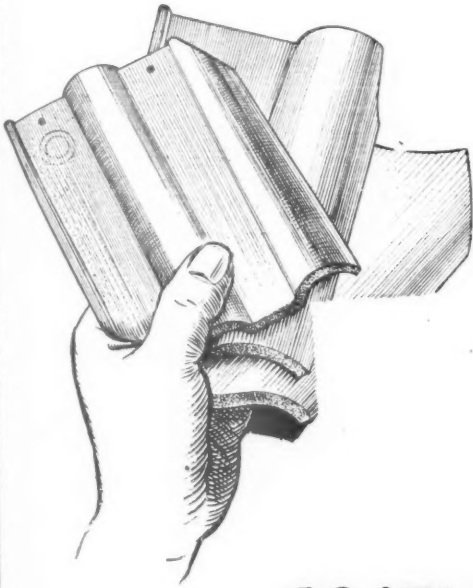
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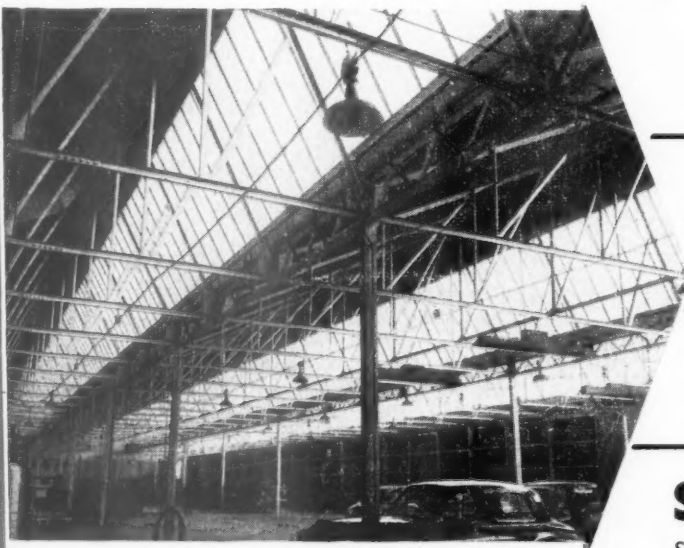
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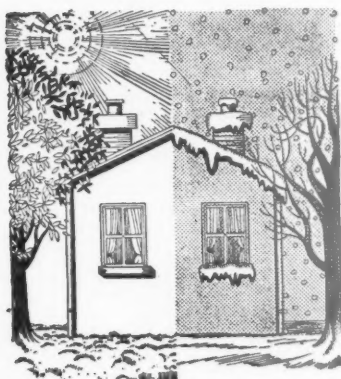
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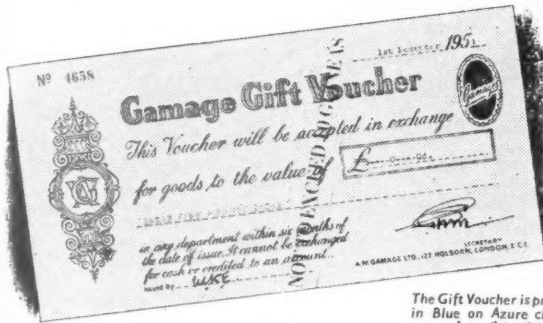
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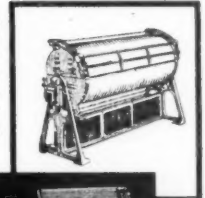
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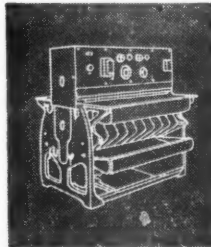
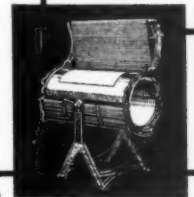
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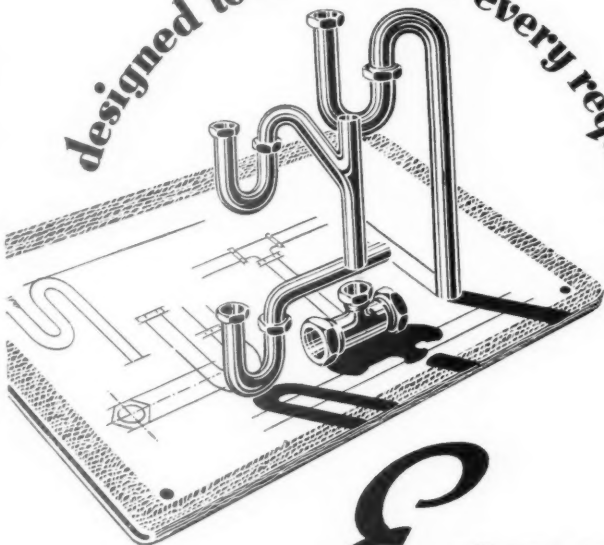
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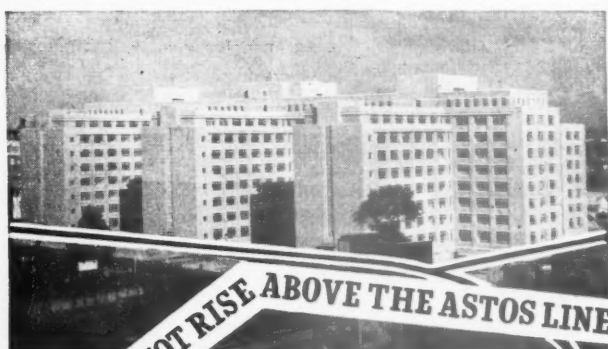
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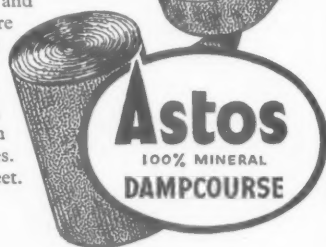


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Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

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Applicants must be Registered Architects and preferably Corporate Members of the Royal Institute of British Architects, and must have a thorough knowledge of architectural works, with practical experience in design and development of schools and public buildings of all types, including the preparation of working drawings and specifications.

Suitable housing accommodation will be made available where necessary, and existing superannuation rights may, with the approval of the Appointing Authority, be transferred to the States of Guernsey Non-Contributory Pension Scheme.

Candidates must not be over 45 years of age, and the successful applicants will be required to pass a medical examination.

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

Applicants should state, in the following order:-

- The specific appointment applied for.
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- Education of training.
- Professional qualifications.
- Present position, salary, and date of appointment.
- Previous positions, with salaries and dates of appointments.
- Detailed particulars of experience.
- Any further remarks in support of application.
- Notice required to terminate present appointment.

Applications, appropriately endorsed according to the position applied for, together with two recent testimonials, should reach the States Supervisor, States Office, Guernsey Channel Islands, not later than Monday, 12th November, 1951. Canvassing in any form will disqualify.

4583

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The Guildhall, Nottingham.

## AIR MINISTRY WORKS DEPARTMENT.

## HEATING AND VENTILATING DESIGNER/

## DRAFTSMEN required in Designs Branch by

## Air Ministry Works Department. Applicants

## should be capable of designing and detailing low

## and high pressure hot water heating installa-

## tions or have had several years experience in the

## design of ventilation and air-conditioning installa-

## tions. The appointments will normally be in

## London and salaries are on ranges up to £675 per

## annum according to age, qualifications and ex-

## perience. Applications stating age, qualifications,

## previous appointments (with dates) should be

## sent to the Air Ministry Directorate General of

## Works (W.9), Bush House, S.E. Wing, Strand,

## London, W.C.2, from which address details may

## be obtained. 4591

## WELWYN GARDEN CITY AND HATFIELD

## DEVELOPMENT CORPORATIONS.

## APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of

Clerk of Works at a salary of £625 per annum.

Applicants should be practical tradesmen, with previous supervisory experience of all trades on substantial contracts and be competent in setting out and levelling.

The appointment is superannuable and terminable by one month's notice on either side.

The successful applicant will be assisted in obtaining housing accommodation if required.

Applications, giving age, qualifications and full details of present and past appointments, salaries and experience, together with the names of three persons to whom reference may be made should be addressed to the General Manager at 4, Wigmore South, Welwyn Garden City, Herts., and be received by the 6th November, 1951. 4574

## WELWYN GARDEN CITY AND HATFIELD

## DEVELOPMENT CORPORATIONS.

## APPOINTMENT OF WORKER-UP.

Applications are invited for the appointment of

Worker-Up at a salary of £575 per annum.

Applicants should be experienced in all aspects of working up Bills of Quantities, Variation

Accounts and Fluctuation Claims.

The appointment is superannuable and terminable by one month's notice on either side. The successful applicant will be assisted in obtaining housing accommodation if required.

Applications, in the candidate's own handwriting, giving age, details of present and past appointments, salaries and experience, together with the names of three persons to whom reference may be made should be addressed to the General Manager, 4, Wigmore South, Welwyn Garden City, Herts., and be received by 6th November, 1951. 4573

## LONDON COUNTY COUNCIL.

## ARCHITECT'S DEPARTMENT.

Applications are invited for positions of ARCHITECT, Grade III (£550-£700) and TECHNICAL ASSISTANT (up to £580) for architectural work on new housing, schools and other public buildings. The positions are superannuable, and the above rates are subject to an addition of 10 per cent. on the first £600 and 7½ per cent. on any remainder. Application forms from the Architect, The County Hall, S.E.1, enclosing stamped addressed foolscap envelope and quoting AR/EK/A. Canvassing disqualifies. (514) 3914

## BOROUGH OF TOTTENHAM.

## BOROUGH ENGINEER AND SURVEYOR'S

## DEPARTMENT.

Applications are invited for the following vacant posts:-

## ARCHITECTURAL SECTION:

(a) SENIOR ARCHITECT (Established). Grade A.P.T. VIII (£735 to £810).

(b) ARCHITECTURAL ASSISTANT (Unestablished). Grade A.P.T. II, III or IV (£470 to £515, £500 to £545, or £530 to £575).

(Plus London weighting allowance of £10 to £30, according to age.)

Qualifications required:-

Post (a): Applicants must hold an appropriate Final qualification.

Post (b): The terms of the decisions of the National Joint Council for Local Authorities' Professional Services, dated 26th July, 1949, will apply, particulars of which will be forwarded with the application form.

The Council are unable to offer housing accommodation.

Form of application. Conditions of Appointment and further particulars may be obtained from the Borough Engineer, Town Hall, Tottenham, N.15, to whom completed application forms should be delivered not later than Monday, 12th November, 1951.

M. LINDSAY TAYLOR.

Town Clerk. 4625

## BOROUGH OF MAIDSTONE.

## APPOINTMENT OF FIRST ARCHITECTURAL

## ASSISTANT IN BOROUGH SURVEYOR'S

## DEPARTMENT.

Applications are invited for the above appointment, at a salary in accordance with Grade V,

commencing at £575 and rising by two annual increments of £15 and one of £20 to a maximum of £620 per annum.

Candidates should have received a thorough architectural training, be members of a recognised Architectural Institute, and be qualified at least up to the standard of the Intermediate Examination of the R.I.B.A., with good experience in Municipal Housing, particularly in the design, etc., of Municipal Housing. Experience in the preparation of Bills of Quantities would be an advantage.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Act, 1937, the passing of a medical examination, and one month's notice on either side. The Corporation cannot undertake to assist in any way with the provision of housing accommodation. Canvassing will disqualify.

Applications, on forms to be supplied, giving the names and addresses of two referees, must reach the undersigned not later than 10 a.m. on Monday, the 19th November, 1951.

JOHN H. HUGHES.

Borough Surveyor. 4601

Borough Surveyor's Department,

Palace Avenue, Maidstone.

26th October, 1951.

## SURREY COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of

QUANTITY SURVEYING ASSISTANT, Grade V, at a commencing salary of £570 per annum, rising by annual increments of £15/£20 to a maximum of £620 per annum, plus London allowance of up to £30, according to age.

Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors (Quantity Sub-Division), and who have an adequate experience in the preparation of Bills of Quantities, site measuring, and in settlement of final accounts.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than 17th November, 1951.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

The Council will be unable to provide any housing accommodation, and the successful applicant will be expected to make his own arrangements in this direction.

T. W. W. GOODERIDGE,

Clerk of the Council. 4626

## COUNTY ARCHITECT'S DEPARTMENT.

## APPOINTMENT OF PLANNING ARCHITECT.

Applications are invited, from persons having wide experience and high qualifications in planning, architecture, and the use of modern building materials, for the above-mentioned appointment, which will be of Chief Officer status.

The salary to be paid will be fixed according to the qualifications and suitability of the person appointed.

The main duties of the post will be the co-ordination of planning and architectural work in respect of residential, industrial and town centre areas, and opportunity will be given to the Planning Architect to carry out architectural design of important buildings in the town. Full particulars of the appointment can be obtained from the General Manager.

The appointment, which is a full time one, is superannuable, and the successful applicant will be required to pass a medical examination. The appointment will be terminable by three months' notice in writing on either side.

If required, a house can be provided for the successful applicant.

Applications, giving full particulars of age, experience and qualifications, together with the names of two referees, should be forwarded to the undersigned not later than Friday, 7th December, 1951.

A. V. WILLIAMS,

General Manager. 4627

## SHOTTON HALL, CASTLE EDEN, CO. DURHAM.

## HEREFORDSHIRE COUNTY COUNCIL.

## COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of a PLANNING ASSISTANT, Grade A.P.T. V (£570-£620 per annum).

Candidates should have obtained the Intermediate Examination of the Town Planning Institute or possess a recognised qualification in Architecture, Surveying or Engineering.

The successful candidate will be required to maintain a motor car in accordance with the Council's scheme for payment of travelling allowances.

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

Applications, stating age, past and present appointments, qualifications, together with the names and addresses of two referees, should be sent to the undersigned not later than the 17th November, 1951.

A. R. DUNCAN,

County Planning Officer. 4628

## CHANDOS HOUSE, ST. OWEN STREET, HERFORD.

## PONTYPRIDD URBAN DISTRICT COUNCIL.

## APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the appointment of a Quantity Surveyor, at a salary in accordance with Grade VII of the A.P.T. Division of the National Scales of Salaries, namely, £685 rising by three annual increments of £25 to a maximum of £760. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

Applicants must be Associate Members of the Royal Institution of Chartered Surveyors (Quantity Section) and have had considerable experience and be competent to take off and prepare Bills of Quantities for all types of buildings.

Form of application is obtainable from the Council's Architect, Mr. W. Cecil Evans, Municipal Buildings, Pontypridd, Glam., and should be obtained by intending applicants.

Applications must be delivered, appropriately endorsed, to the undersigned, not later than the 24th day of November, 1951.

Canvassing will be a disqualification, and candidates must disclose any relationship to Members of the Council.

JOHN HILTON,

Clerk to the Council. 4632

## Municipal Buildings,

## Pontypridd.

## 24th October, 1951.

BRIGHTON EDUCATION COMMITTEE—  
BRIGHTON TECHNICAL COLLEGE.

Principal:

G. E. Watts, M.A., Ph.D., B.Sc., F.R.I.C.  
Required from January, 1952, TEACHER in  
General Building Subjects with special reference  
to Building Quantities, Specifications and Esti-  
mating for Diploma and Certificate Courses.  
Salary in accordance with Burnham Award for  
Assistant Grade "B" (£450-£725) plus graduate  
allowance (£60) and training allowance where  
applicable. Commencing point on scale appro-  
priate to previous industrial and/or teaching  
experience. Further particulars and form of  
application obtainable from the undersigned and  
be returned to the Principal, Technical College,  
Brighton 7, within 14 days.

W. G. STONE.

Education Officer.

54, Old Steine, Brighton.

4602

## COUNTY COUNCIL OF THE

## COUNTY OF LANARK.

COUNTY ARCHITECT-PROPERTY  
DEPARTMENT.

Applications are invited for the appointment of  
CHIEF ARCHITECTURAL ASSISTANT, on the  
salary scale £760-£860. Candidates must be  
Registered Architects and should be fully quali-  
fied; they should have attained a high standard  
in architectural design and construction in addi-  
tion to having had a wide experience in archi-  
tectural practice and in the administration and  
supervision of technical staff and work normally  
carried out by a Local Authority.

In addition, a number of vacancies still remain  
to be filled in grades ranging from A.P.T., Grade  
VII to A.P.T., Grade I and suitable applications  
for these categories are also invited.

In their applications candidates should state  
their qualifications and years of experience and,  
at the same time, make it clear the appointment  
or grade for which application is being made.

The appointments will be subject to the provi-  
sions of the Local Government Superannuation  
(Scotland) Act, 1937, and successful candidates  
will require to pass a medical examination.

Canvassing directly or indirectly will be a  
disqualification.

Applications, stating age, past and present  
appointments and accompanied by the names and  
addresses of three referees, should be sent to  
Mr. W. R. Watt, County Architect, 34, Albert  
Street, Motherwell, Lanarkshire, not later than  
three weeks from the date of the appearance of  
this advert.

WM. C. BROWNIE.

County Clerk.

191, Ingram Street, Glasgow.

4603

## LANCASHIRE COUNTY COUNCIL.

SECTIONAL PLANNING OFFICER (A.P.T.  
VII, £685-£760) required at Ulverston Divisional  
Planning Office. Duties include work in connec-  
tion with Surveys, Town Maps and Development  
Control. Possession of one of the following is  
essential: A.M.T.P.I., A.M.I.C.E., A.R.I.C.S.,  
A.M.I.Mun.E., A.R.I.B.A.

Applications, giving names, addresses and  
qualifications of two referees (preferably one  
should be present employer) to reach the County  
Planning Officer, East Cliff County Offices,  
Preston, by 10th November, 1951.

4604

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

Applications are invited from suitably qualified  
persons for the following posts on the permanent  
establishment of the Department, in connection  
with the reconstruction programme of the County  
Borough:—

(a) SENIOR ASSISTANT ARCHITECT. A.P.T.,  
Grade VII (£685-£760).

(b) ASSISTANT ARCHITECT. A.P.T., Grade  
VI (£645-£720) or £25-£710.

(c) ARCHITECTURAL ASSISTANT. A.P.T.,  
Grade I/III (£440-£515-£485, £470-£515-£515,  
£500-£545).

(d) ASSISTANT PLANNING. A.P.T., Grade  
VI (£645-£720-£20-£25-£710).

Applicants for post (a) should be A.R.I.B.A.  
having considerable experience of large Housing  
and Education works, and Public Buildings, and  
be capable of taking complete charge of Contracts.

Applicants for post (b) should be A.R.I.B.A.  
or Registered Architects, have had experience in  
large Housing and Education works and be able  
to supervise Contracts.

Applicants for post (c) should have had at least  
three years' practical experience in an Architect's  
office, and preference given to candidates who  
have passed the Intermediate Examination of the  
R.I.B.A.

Applicants for post (d) should be A.M.T.P.I.  
with experience in the administrative problems  
and development control arising in the recon-  
struction of war damaged areas.

London Allowance payable in addition to salary  
scales, viz:—

16-20 years ... £10 p.a.

21-25 years ... £20 p.a.

26 years and over ... £30 p.a.

Application forms (returnable by Monday,  
19th November, 1951) to be obtained from the  
Borough Architect and Planning Officer, Thomas  
E. North F.R.I.B.A., 70, West Ham Lane,  
Stratford E.15.

G. E. SMITH.

Town Clerk.

West Ham Town Hall.

Stratford, E.15.

4631

COUNTY BOROUGH OF HUDDERSFIELD.  
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following  
appointments:—

(a) QUANTITY SURVEYOR, salary in accord-  
ance with Grade VII of the National Scales of  
Salaries, commencing at £665 and rising to £760  
per annum.

(b) ASSISTANT QUANTITY SURVEYOR,  
salary in accordance with Grade IV of the  
National Scales of Salaries, commencing at £530  
and rising to £575 per annum.

Applicants for appointment (a) should have had  
considerable experience in taking off, billing,  
measurement of works on site and settlement of  
final accounts, and preference will be given to  
Members of the R.I.C.S. (Quantities Section).

Applicants for appointment (b) should have had  
experience in abstracting and billing, and  
measurement of works on site. Preference will be  
given to persons who have passed the Inter-  
mediate Examination of the R.I.C.S. (Quantities  
Section).

Housing accommodation will be provided for  
the successful candidates, if required.

Conditions of service are those formulated by  
the National Joint Council, and the appointment  
is subject to the provisions of the Local Govern-  
ment Superannuation Act, 1937. The successful  
candidate will be required to pass a medical  
examination.

Applications endorsed "Quantity Surveyor" or  
"Assistant Quantity Surveyor," together with the  
names and addresses of two persons to whom  
reference may be made, should be delivered to  
the Borough Architect & Planning Officer, High  
Street Buildings, Huddersfield, not later than  
12th November, 1951.

HARRY BANN.

Town Clerk.

Town Hall, Huddersfield.

4606

## LIVERPOOL REGIONAL HOSPITAL BOARD.

Applications are invited from suitably qualified  
persons for the following permanent appointments  
in the Regional Architect's Department of the  
Board situated at 88, Church Street, Liverpool, 1.

(a) ASSISTANT QUANTITY SURVEYOR.  
Salary scale, £520-£570 or £595-£660 per annum,  
according to experience.

Applicants must have passed the Intermediate  
Examination of the Royal Institute of Chartered  
Surveyors (Quantities Sub-Division), and should  
have had considerable experience in a Quantity  
Surveyor's office in working-up, abstracting and  
billing; measuring and adjusting variations;  
settling Contractors' Final Accounts, and some  
experience in taking off is essential.

(b) CLERK OF WORKS. Salary scale, £520-£570  
per annum. Applicants should have served an  
apprenticeship in a recognised building trade and  
have a sound knowledge of building construction,  
and must be capable of supervising and reporting  
on works of maintenance, alteration and new  
construction.

(c) ARCHITECTURAL ASSISTANT. Salary  
scale, £420-£455 per annum. Applicants must be  
competent draughtsmen, with a good knowledge of  
building construction, and must have had previous  
experience in an Architect's office.

The salary scales are at present under review.  
All the appointments will be subject to the  
National Health Service (Superannuation) Regula-  
tions, 1950, and the successful candidates may  
be required to pass a medical examination.

Applications, stating age, education, qualifica-  
tions, experience and present and previous  
appointments, together with the names and  
addresses of three referees, and clearly stating the  
post applied for, should be sent to the under-  
signed at 19, James Street, Liverpool, 2, not later  
than 12th November, 1951.

VINCENT COLLINGS.

Secretary to the Board.

4618

## LANCASHIRE COUNTY COUNCIL.

ASSISTANT COUNTY PLANNING OFFICER

(commencing salary within the range £1,200-£75-  
£1,500) required in the County Planning Depart-  
ment, County Offices, Preston. The appointment  
is superannuable and subject to a medical ex-  
amination. The successful candidate, who would  
take charge of the Development Plan Section  
of the Department, must have had wide experi-  
ence in the preparation of Development Plans  
(including County Map and Town Maps) and of  
the practical issues involved in Urban and Rural  
Planning. Candidates must possess one or more  
of the following: a University Degree in Civil  
Engineering, Architecture or Estate Management;  
M.T.P.I.; A.M.I.C.E.; A.R.I.B.A.; A.M.I.Mun.E.;  
A.R.I.C.S.

Applications, stating age, qualifications, experi-  
ence, present salary, and the names of three  
referees (preferably one should be present em-  
ployer) to reach the County Planning Officer, East  
Cliff County Offices, Preston, by 15th November,  
1951.

4605

## LONDON HOSPITAL, WHITECHAPEL, E.1.

Applications are invited for two posts of  
ASSISTANT ARCHITECTS. Salaries, both  
according to experience, (a) £800-£900, (b) £600-  
£700.

National Health Service conditions and Super-  
annuation.

Candidates should be members of the R.I.B.A.  
or equivalent and preferably experienced in  
hospital work.

Applications stating age, present salary and  
brief statement of qualifications and experience  
should be addressed to the Surveyor.

46

EBBW VALE URBAN DISTRICT COUNCIL.  
ARCHITECT'S DEPARTMENT.

Applications are invited for the under-  
mentioned appointment on the permanent staff of  
the Architect's Department:—

ARCHITECTURAL ASSISTANT (Grade A.P.T.,  
III). Salary, £500-£515-£545 per annum.

Applicants should have passed the Intermediate  
Examination of either the Royal Institute of  
British Architects or the Royal Institution of  
Chartered Surveyors (Building Sub-Division), and  
should have had good general architectural and  
surveying experience, not necessarily in Local  
Government offices. In addition some knowledge  
of Quantities would be an advantage.

The Architect's Department has a full pro-  
gramme of work covering Housing Estates, Slum  
Clearance and Reconstruction Schemes, layout of  
new parks and open spaces, Town Planning Ad-  
ministration and general Municipal Building  
work.

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

The Council cannot provide housing accommoda-  
tion.

Applications, stating age, qualifications and ex-  
perience, together with the names of two referees  
to whom reference may be made, should be  
delivered to the undersigned not later than  
Saturday, the 24th day of November, 1951.

Applicants must state in their applications  
whether, to their knowledge, they are related to  
any member of the Council or senior officer under  
the Council.

Canvassing, directly or indirectly, will dis-  
qualify.

R. E. HERBERT.

Clerk of the Council.

District Council Offices, The Walk,

Ebbw Vale, Mon.

20th October, 1951.

4616

## URBAN DISTRICT COUNCIL OF STANLEY

(YORKS).

## ENGINEER &amp; SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL  
ASSISTANT.

Applications are invited for the appointment of  
an Architectural Assistant for housing work.  
Applicants must be Registered Architects and  
have sound experience, particularly in housing.

Salary will be in accordance with Grade V,  
A.P.T. Division, £570-£620. The successful ap-  
plicant will be required to pass a medical examina-  
tion.

Applications, endorsed "Architectural Assis-  
tant," stating age, present and past appointments  
and experience, with three references, to be re-  
ceived by the undersigned by Monday, 19th  
November, 1951.

R. BLAKEY.

Clerk of the Council.

Council Offices, Coach Road,

Outwood, near Wakefield.

4615

## DERBYSHIRE COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for appointments of  
SENIOR ASSISTANT ARCHITECTS in the New  
Schools Section, on A.P.T., Grade VIII (£735-  
£25-£810 per annum). Applicants must be  
Associates of the R.I.B.A. with a particular  
interest in contemporary school design, capable  
of preparing complete working drawings and  
details and competent to supervise building work  
during course of erection. There is a particularly  
interesting programme in hand and the selected  
candidates will be encouraged to take the maxi-  
mum of responsibility. Applications to reach this  
office not later than 15th November, 1951, on  
forms to be obtained from the undersigned.

F. H. CROSSLEY, Dipl.Arch.(I.Pool).

F.R.I.B.A.,

County Architect.

St. Mary's Gate, Derby.

1st November, 1951.

4633

## GLAMORGAN COUNTY COUNCIL.

Applications are invited for the following  
permanent appointment at Headquarters, County  
Hall, Cardiff:—

ONE SENIOR PLANNING ASSISTANT,  
GRADE A.P.T. VI (£645-£220(2)-£25-£710 per  
annum).

The appointment is permanent and subject to  
the National Scheme of Conditions of Service, and  
to the staffing regulations of the County Council  
from time to time in force. Applicants must  
have passed the Final Examination of the T.P.I.,  
the I.C.E., the I.Mun.E., or the R.I.C.S.

A wide knowledge of planning technique is  
required and candidates must have had previous  
experience in the preparation of a Development  
Plan, be competent to analyse survey and research  
work, and be able to assess facilities required in  
existing or proposed communities.

Applications stating age, training, qualifica-  
tions, experience and present salary, and accom-  
panied by two testimonials, should be sent to the  
County Planning Officer at this address, and  
received not later than seven days from the date  
of the appearance of this advertisement.

D. J. PARRY.

Clerk of the County Council.

Glamorgan County Hall,

Cardiff.

18th October, 1951.

4607

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4607

**HARLOW DEVELOPMENT CORPORATION.**  
Applications are invited for the following appointments in the Architect Planner's Department (Frederick Gibberd, F.R.I.B.A., M.T.P.I.) to work under the direction of the Executive Architect (V. Hammett, B.Sc., A.R.I.B.A., A.M.T.P.I., A.R.I.C.S.).

(a) ASSISTANT ARCHITECT. Grade IVa (salary £600 × £25—£700 per annum).  
(b) JUNIOR ASSISTANT ARCHITECT. Grade Vb (£500 × £25—£600 per annum).

(c) JUNIOR ASSISTANT ARCHITECT. Grade Va (£450 × £25—£500 per annum).

Candidates for posts (a) and (b) must have had experience in the preparation of working drawings and details for industrial buildings and possess a minimum qualification of A.R.I.B.A. for (a) and Intermediate A.R.I.B.A. standard for (b). Candidates for the appointment (c) must have had experience in the preparation of working drawings for housing and shops (including flats) and possess qualifications as for (b) above.

The appointments will be made under the terms of the Corporation's Conditions of Service which are similar to those of the Professional and Technical Grades of Local Authorities' Staffs and will in particular involve a contribution to an approved Superannuation Fund. Housing accommodation may be made available in due course to successful candidates.

Applications giving full details of experience and qualifications together with the names of two referees should be addressed to the undersigned to reach him not later than 11th November, 1951.

W. ERIC ADAMS, O.B.E.,  
General Manager.

Teltings, Gilston,  
Harlow, Essex. 4609

**IMPERIAL WAR GRAVES COMMISSION.**  
DEPUTY DIRECTOR OF WORKS.

Applications are invited from suitably qualified candidates for the appointment of Deputy Director of Works in the French district, stationed at Arras.

Candidates should be Associate Members of the Institution of Civil Engineers or the Royal Institution of Chartered Surveyors or possess equivalent qualifications, and preferably have had experience in carrying out constructional work abroad. Considerable administrative experience and a good knowledge of French necessary.

The man appointed will be responsible to the Director of Works at the Commission's Head Office in London for the direction of works construction and maintenance in France.

Salary £1,040 × £40—£1,200 per annum, plus variable temporary local allowance at present at the rate of £300 per annum for a single man or £325 per annum for a married man.

Applications should reach Appointments Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks, within 14 days of the appearance of this advertisement. 4639

**BOROUGH OF WORTHING.**  
BOROUGH ENGINEER'S DEPARTMENT—  
ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment at a salary in accordance with A.P.T. III of the National Joint Council's Scale of Salaries, i.e., £500-£545 per annum.

Applicants should have had experience in the preparation of working drawings and preference will be given to applicants who have at least the Intermediate Examination of the R.I.B.A.

The appointment will be subject to the National Scheme of Conditions of Service of Local Government Officers; to the provisions of the Local Government Superannuation Act, 1937; and to the successful candidate passing satisfactorily a medical examination. The appointment will be determinable by one month's notice on either side. Applications endorsed "Architectural Assistant," stating age, qualifications, and experience, and accompanied by copies of three recent testimonials, should be delivered to the Borough Engineer, Town Hall, Worthing, not later than the 8th November, 1951.

ERNEST G. TOWNSEND,  
Town Clerk.

Town Hall, Worthing.  
18th October, 1951. 4608

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

Applications are invited for the following appointments:

CHIEF ASSISTANT ARCHITECT. Grade X (£870-£1,000).

SENIOR ASSISTANT ARCHITECTS. Grade VII (£685-£760).

ASSISTANT ARCHITECTS. Grade V (£570-£620).

Applicants need not have had previous Local Government experience.

Applications, stating which post is applied for, together with the names of three referees, should be addressed to the County Architect, County Hall, Hertford, Herts., to be received not later than the first post of Friday, 9th November, 1951. 4620

**ESSEX EDUCATION COMMITTEE.**  
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Applications (no forms) giving full particulars of qualifications, training and experience, should be submitted immediately to the Clerk to the Governors at the College.

B. E. LAWRENCE,  
Chief Education Officer. 4647

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

Applications invited for the following permanent staff appointments:—

SENIOR ASSISTANT ARCHITECTS:

(a) Grade VI (£645-£710).

(b) Grade V (£570-£620).

ASSISTANT ARCHITECTS:

(c) Grade III (£500-£545).

(d) Grade II (£470-£515).

Applicants for (a) and (b) must be Associate Members of the R.I.B.A. or hold equivalent qualifications and have considerable experience in design, construction, and contract administration.

Applicants for (c) and (d) must have passed the Intermediate Examination of the R.I.B.A. and have had experience in surveys, preparation of working drawings, details, etc.

Appointments subject to the passing of a medical examination and is superannuable. All appointments terminable by one month's notice in writing on either side.

HOUSING ACCOMMODATION PROVIDED, IF NECESSARY, AT AN ECONOMIC RENT.

Applications, indicating specific appointment applied for, stating age, training, qualifications, experience, present appointment and salary, and the names of two referees, must be delivered to the undersigned by the 12th November, 1951.

J. NELSON MEREDITH, F.R.I.B.A.,  
City Architect.  
Eagle House, Colston Avenue, Bristol, 1.  
24th October, 1951. 4638

## Tenders for Contracts

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

**COUNTY BOROUGH OF READING.**  
TO BUILDERS AND CONTRACTORS.

The Corporation of Reading invite tenders for the erection of a single storey building for use as temporary dwelling accommodation at "Woodlands," Reading Road, Woodley, Berks.

The General Conditions may be inspected at the office of the Borough Architect, Town Hall, Reading, and copies of the Drawing, Specification, Form of Tender and endorsed envelope obtained on application to him.

Tenders must be delivered to the undersigned not later than Thursday, the 22nd November, 1951.

No tender will be considered unless enclosed in the endorsed envelope provided and sealed, but not bearing any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any tender.

G. F. DARLOW,  
Town Clerk.

Town Hall, Reading.  
October, 1951. 4619

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**ARCHITECTURAL ASSISTANT** required for a private Architectural practice in Norwich. Applicant must have good all round experience in all forms of contemporary construction and design and knowledge of preparing specifications. Reply in writing giving full particulars of experience and qualifications and salary required. A. D. Cooke, A.R.I.B.A., 78, Prince of Wales Road, Norwich. 4589

**SENIOR ARCHITECTURAL ASSISTANT** required immediately, good salary and prospects, 5-day week. Write to Messrs. J. M. Sheppard & Partners, 38, Bedford Place, W.C.1. giving particulars of age, qualifications, experience and salary required. 4594

**SCHERRER & HICKS**, 19, Cavendish Square, W.1, require immediately an ASSISTANT of Final standard. Previous experience and supervision of large contracts essential. Telephone No. Langham 6217. 4578

**ARCHITECTURAL ASSISTANT**, of Inter. R.I.B.A. standard, required in small private practice, Chancery Lane. Good draughtsman and capable of detailing essential. Salary, £7 10s. p.w. Write, stating age and experience. Box 4613.

**ARCHITECTURAL ASSISTANT**—Applications invited for vacancy in office of Architect, Eastern Region, British Railways, at King's Cross. Applicants should be of Intermediate R.I.B.A. standard or near. Salary £300-£400, depending on age and experience. Free residential rail travelling facilities within certain limits and other reduced rate rail travelling facilities after qualifying period of service. Apply in writing, giving particulars as to age and experience, to Civil Engineer, British Railways, Eastern Region, King's Cross Station, London, N.1. 4614

**ASSISTANT ARCHITECT**. APPLICATIONS are invited for the above appointment in the Architect's Department. Candidates should be of Intermediate or Final R.I.B.A. standard. Salary up to £650 p.a., according to experience. Full details in writing to Husband & Co., Chartered Civil Engineers and Architects, 388, Glossop Road, Sheffield, 10. 4621

**DEVELOPMENT** Company have in hand for rebuilding four Cottages, London. ARCHITECT required to act professionally and to part finance rebuilding in return for share of profits. Box 4612.

**SENIOR ARCHITECTURAL ASSISTANT** required immediately in busy and varied practice in West Riding area of Yorkshire. Final R.I.B.A. essential, and some office experience desirable. Salary according to R.I.B.A. scales as a minimum, and to qualifications and experience. Pension scheme in operation. Apply with full particulars. Box 4610.

**JUNIOR ARCHITECTURAL ASSISTANT** required immediately in busy and varied practice in the West Riding area of Yorkshire. Intermediate R.I.B.A. qualification desirable and a minimum of two years' office experience. Salary in accordance with R.I.B.A. scales as a minimum and to qualifications and experience. Pension scheme in operation. Apply with full particulars. Box 4611.

**ARCHITECTURAL ASSISTANT** required in Reading. Intermediate or higher standard. Housing, Schools and Industrial experience. Salary by arrangement. Write Box 4629.

**ONE** or two vacancies are likely to occur in this office between December, 1951, and February, 1952, for ARCHITECTURAL ASSISTANTS, with at least three years' responsible experience on building work, including supervision. Salary scale between £550 and £750 p.a., according to experience; this to be stated in the applications, which should be written to W. Holford, F.R.I.B.A., 1, Bank Buildings, Princes Street, London, E.C.2. 4630

**JUNIOR ASSISTANT** (about Inter. standard) required in varied general practice. Kennington & Farms, F. & A.R.I.B.A. Telephone: WELbeck 6543. 4637

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**INTERESTING** job in private office for SENIOR ARCHITECTURAL ASSISTANT having practical knowledge of Hospital work. Salary according to experience. Box 4635.

**SENIOR ARCHITECTURAL ASSISTANT** required by Industrial Architects in London. Salary £600-£700, according to experience and qualifications. Box 4641.

**YOUNG** Man or Woman wanted to assist in a small Architectural practice, North-West London. Some experience and interest in architecture essential. Write, stating salary required. Box 4640.

**ARCHITECTURAL ASSISTANTS**—Two experienced Assistants, capable of taking responsibility, required for work on Schools, Hospitals and/or Housing in busy general practice 10 miles from London. Small flat available for one successful applicant. Apply immediately by letter, giving age, experience in detail, and salary required. Tooley and Foster, Chartered Architects, Midland Bank Chambers, Buckhurst Hill, Essex. 4642

## Architectural Appointments Wanted

**ARCHITECT** (36), with 20 years' varied experience, desires responsible position, in or near London. Able to handle schemes from design to final accounts. Box 280.

**YOUNG LADY ARCHITECT**, fully qualified in foreign University, seeks position (London area). Speaks three foreign languages: French, German, Greek. Reply to Mrs. Fisher, 41b, Parsons Green, London, S.W.6. 283

**ASSOCIATE** (woman), 25, with 3 years' experience in contemporary office, seeks position in London area. Box 282.

**LADY ASSISTANT** requires responsible position in London. Seven years' office experience. Final standard. Box 281.

**YOUNG** Man (age 22) seeks opening in Architect's office. Two years an Assistant Surveyor with established building contractor; service in R.E.'s as Quantity Surveyor's Assistant. Unable to settle in this field, principal interest Architecture. Box 4643.

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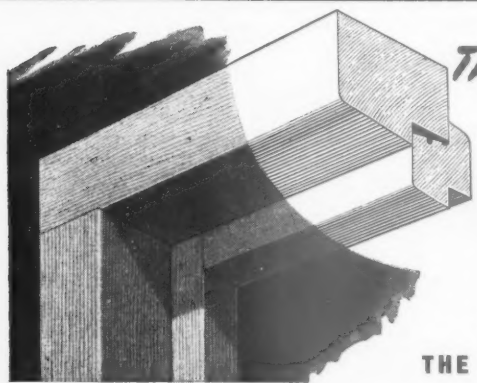
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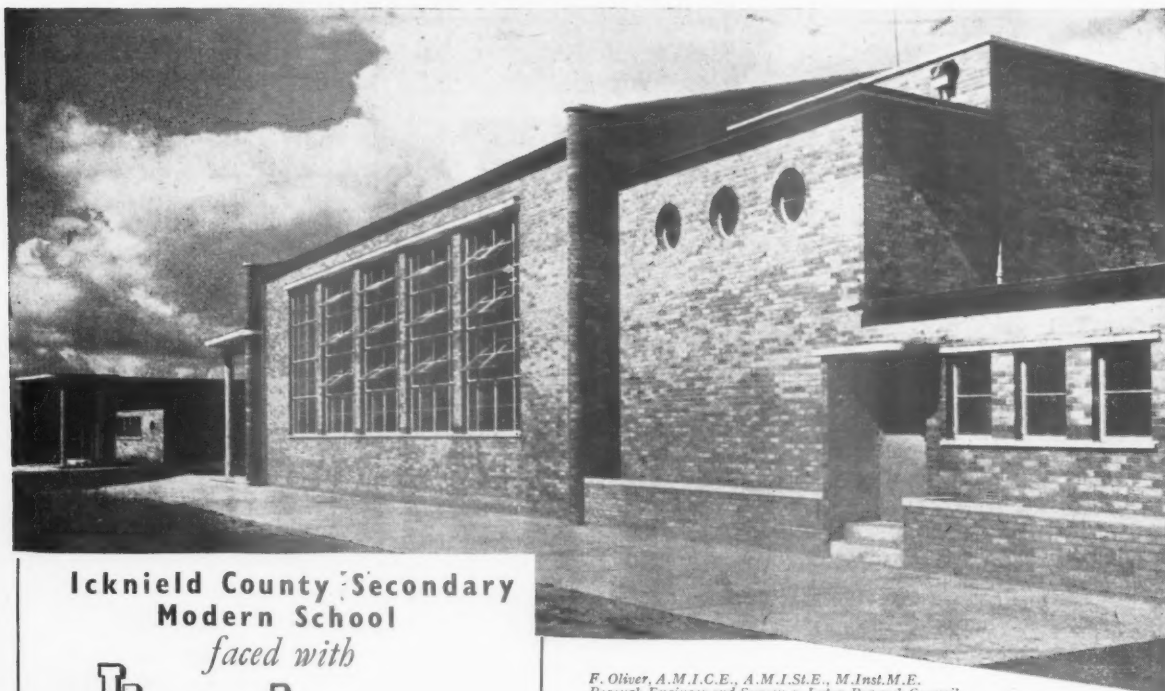
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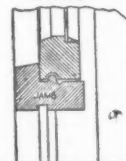
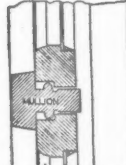
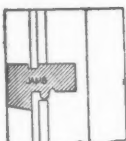
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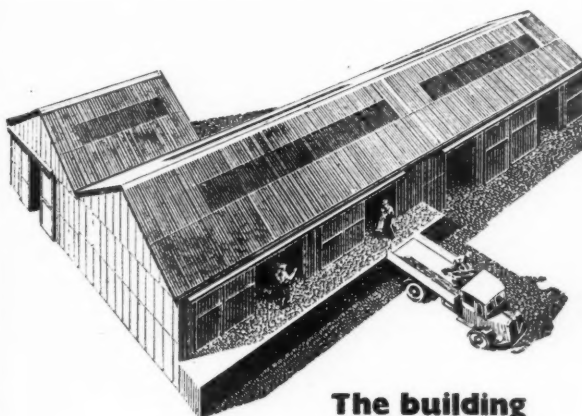
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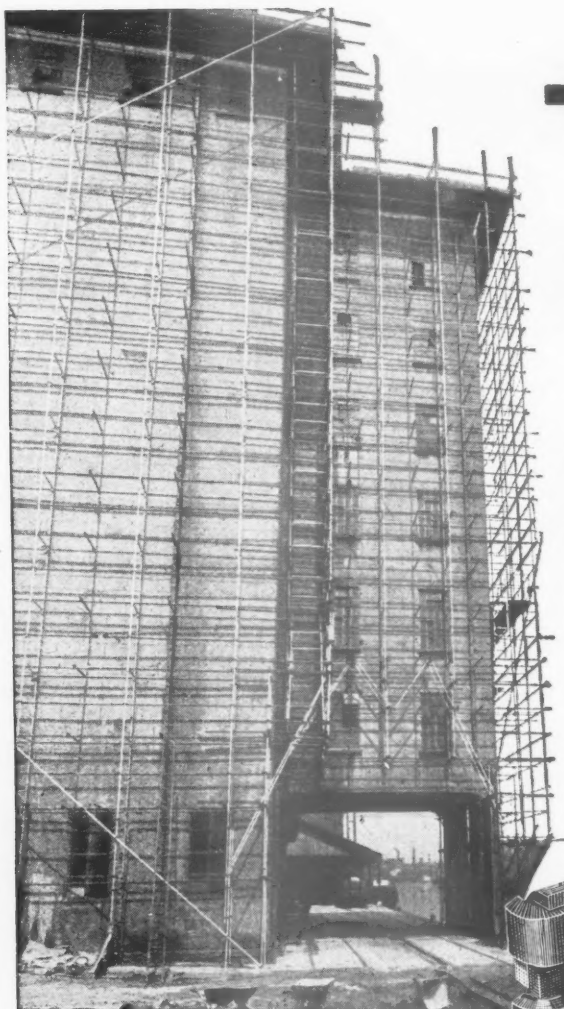


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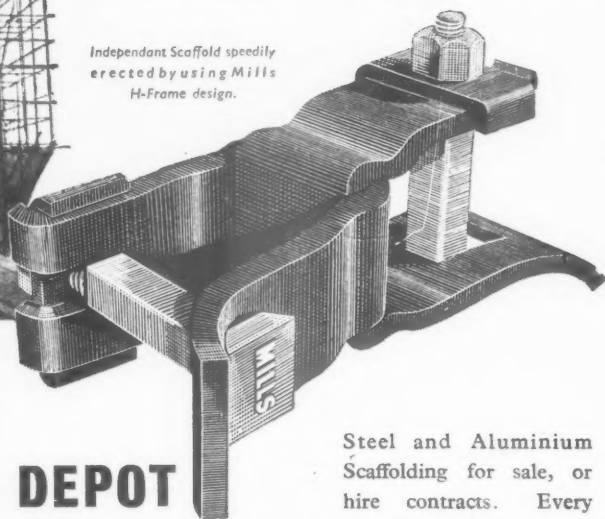


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