

# THE ARCHITECTS' JOURNAL



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## standard contents

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

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Architectural Appointments  
Wanted and Vacant

No. 3050]

[Vol. 118

THE ARCHITECTURAL PRESS

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

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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 on one week, I to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

I GE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1	Sloane 8266
I HVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158/1601
I IBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston 2450	Museum 1783
I LA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb	Institute of Arbitrators. 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2. Temple Bar 4071	Museum 7197/5176
I OB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197/5176
I R	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851	Abbey 6172
I RA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
I SE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
I WA	Inland Waterways Association. 14, Great James' Street, W.C.2.	Chancery 7718
I LDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	Modern Architectural Research Group (English Branch of CIAM) Secretary: Gontran Goulden, Building Centre, 26, Store Street, W.C.1. Museum 5400	Whitehall 3400
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. 23, Saville Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James' Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933	Mayfair 9494
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalt Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers, 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041/4054	Macaulay 4451
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Whitehall 1693
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Langham 4341
NHBCR	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Molesley 1380
NPL	National Physical Laboratory. Head Office, Teddington	City 1476
NSA	National Sawmilling Association. 14, New Bridge Street, E.C.4.	City 1476
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Abbey 4504
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Edinburgh 20396	Langham 5721
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Whitehall 5322/9242
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 3935
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Regent 3335
RS	Royal Society. Burlington House, Piccadilly, W.1.	Trafalgar 2366
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Sloane 5134
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Wimbledon 5101
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association. 32, Queen Anne Street, W.1.	Langham 7616
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984
SNHTPC	Scottish National Housing. Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.	Holborn 2646
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Covent Garden, W.C.2. Temple Bar 5006
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	City 4771
TDA	Timber Development Association. 21, College Hill, E.C.4.	Victoria 8815
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	City 5051
TTF	Timber Trades Federation. 75, Cannon Street, E.C.4.	Whitehall 4341
WDC	War Damage Commission. 6, Carlton House Terrace, S.W.1.	Oxford 47988
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988



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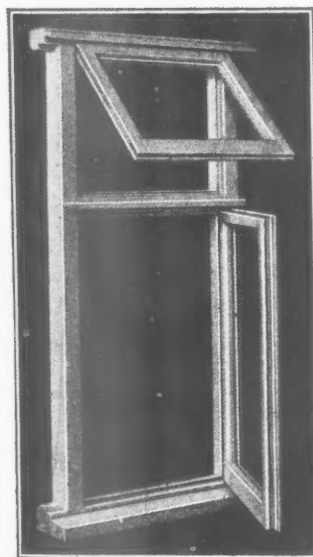
Tel.: RAVensbourne 2624

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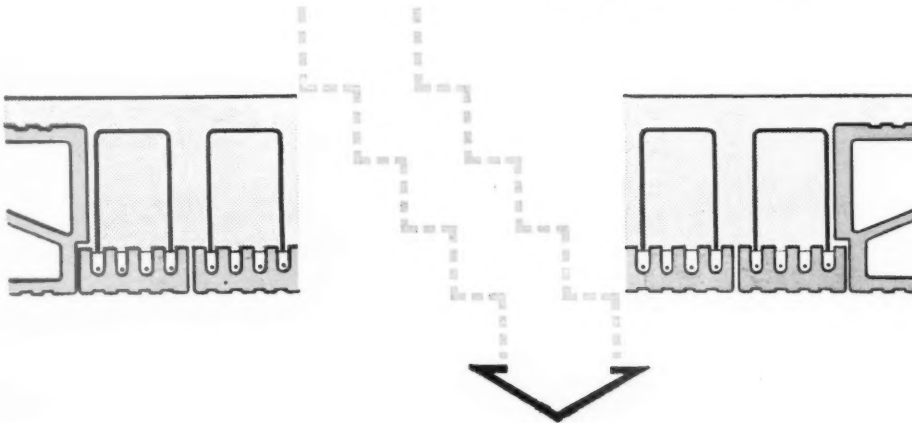


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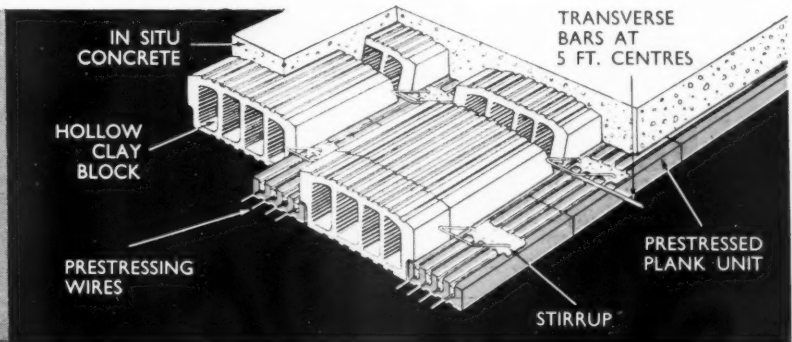
The Stahlton prestressed plank unit is made in the following widths:—3½ in., 4½ in., 5½ in., 7½ in., 9 in.



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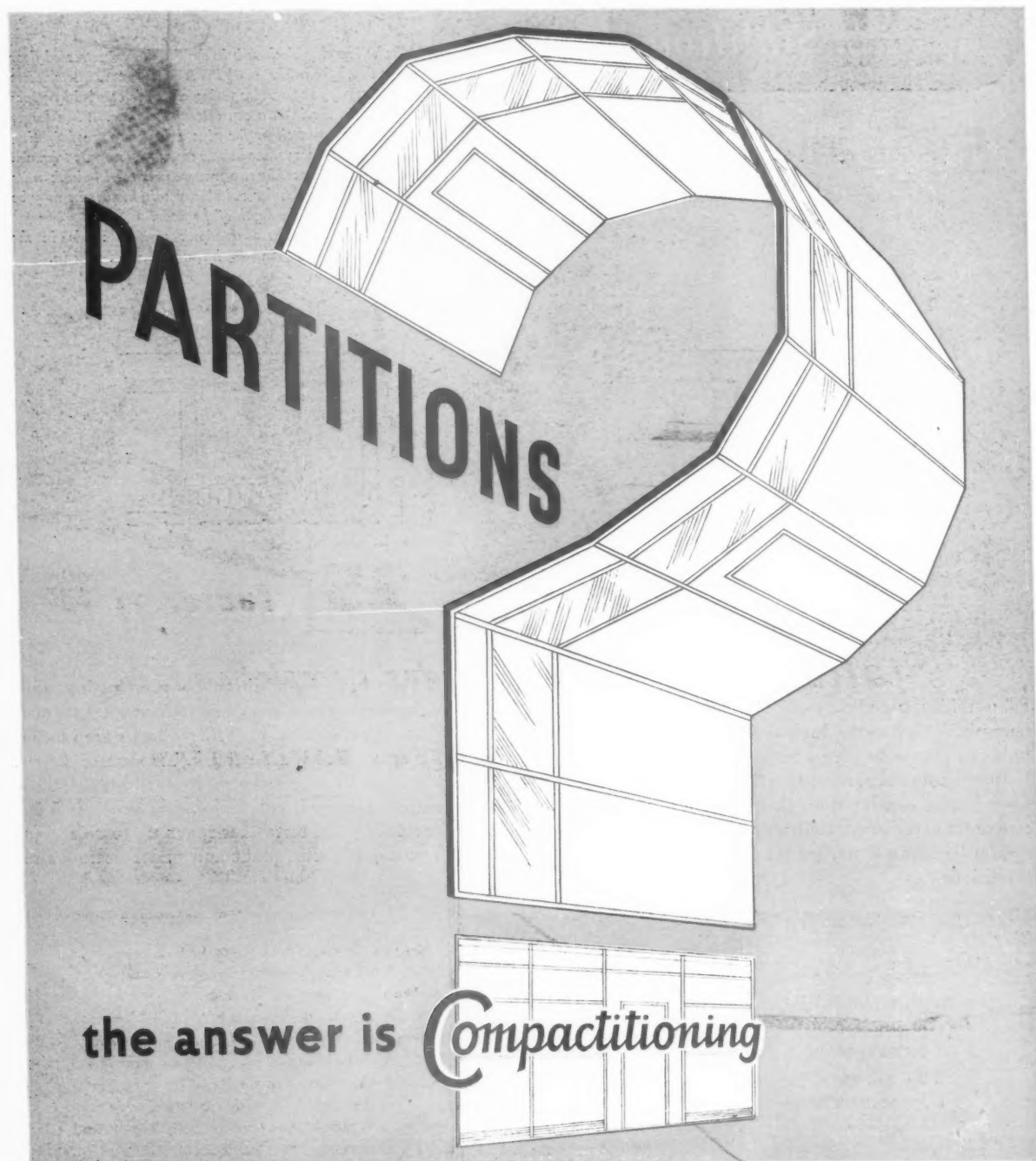
1 Wandsworth Road, London, S.W.8. Telephone: Reliance 5611

Cowbridge Road, Bridgend, Glamorgan. Telephone: Bridgend 961

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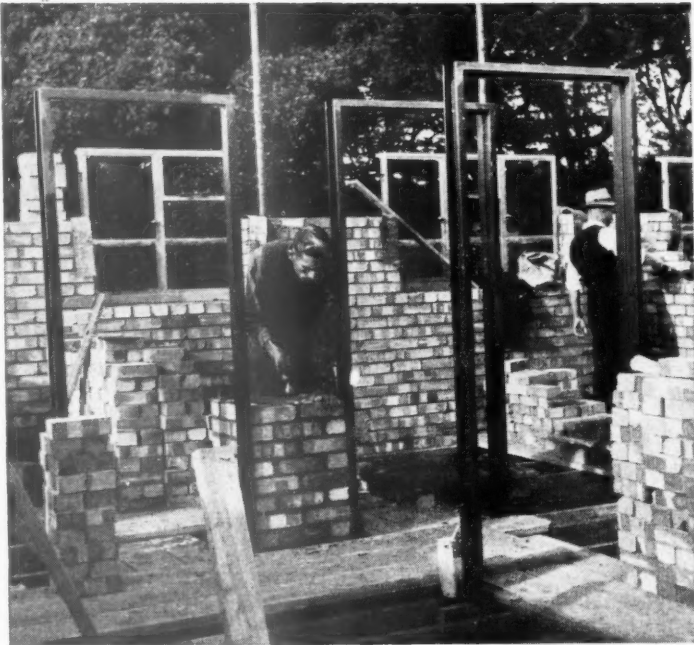


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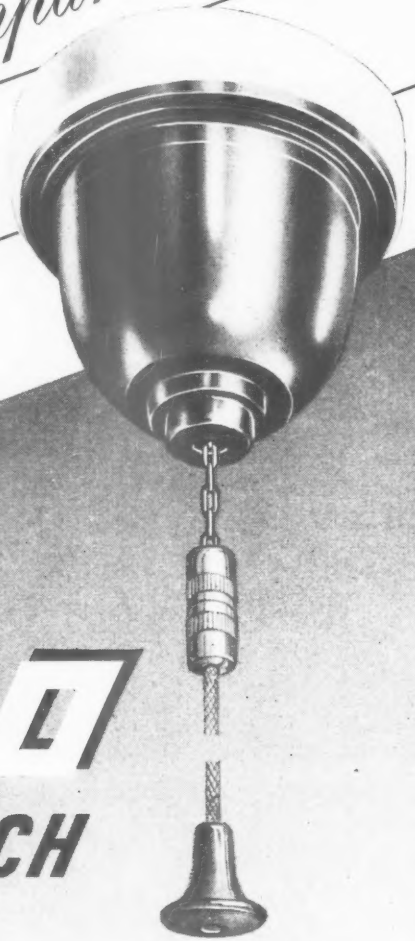
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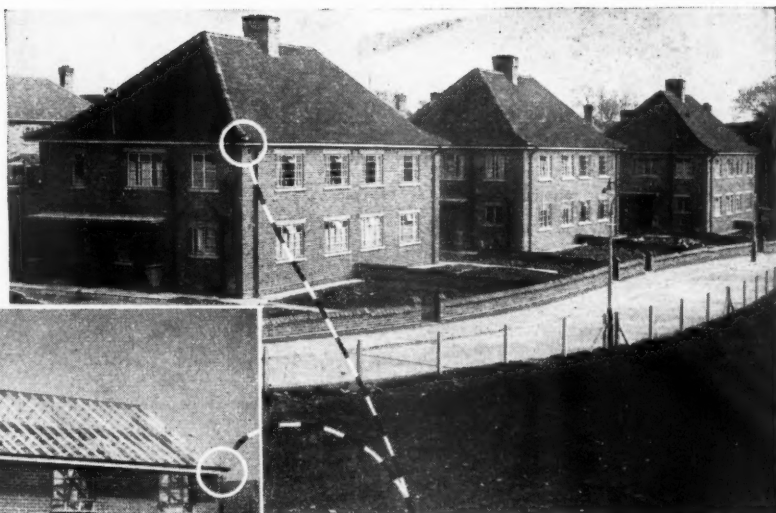
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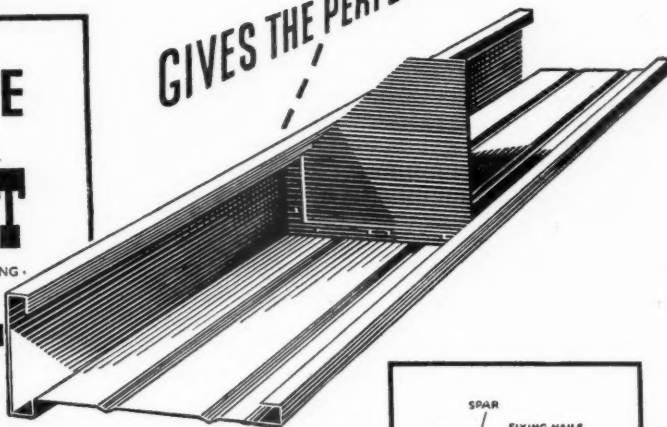
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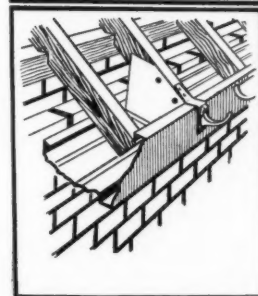
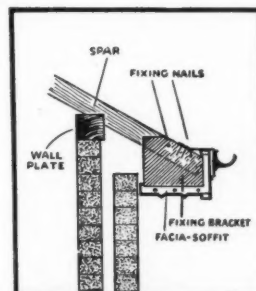
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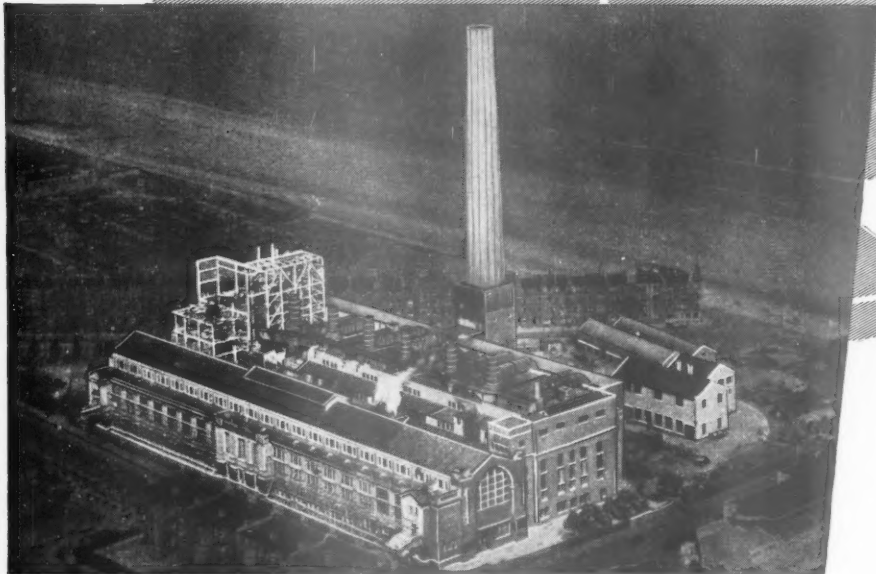
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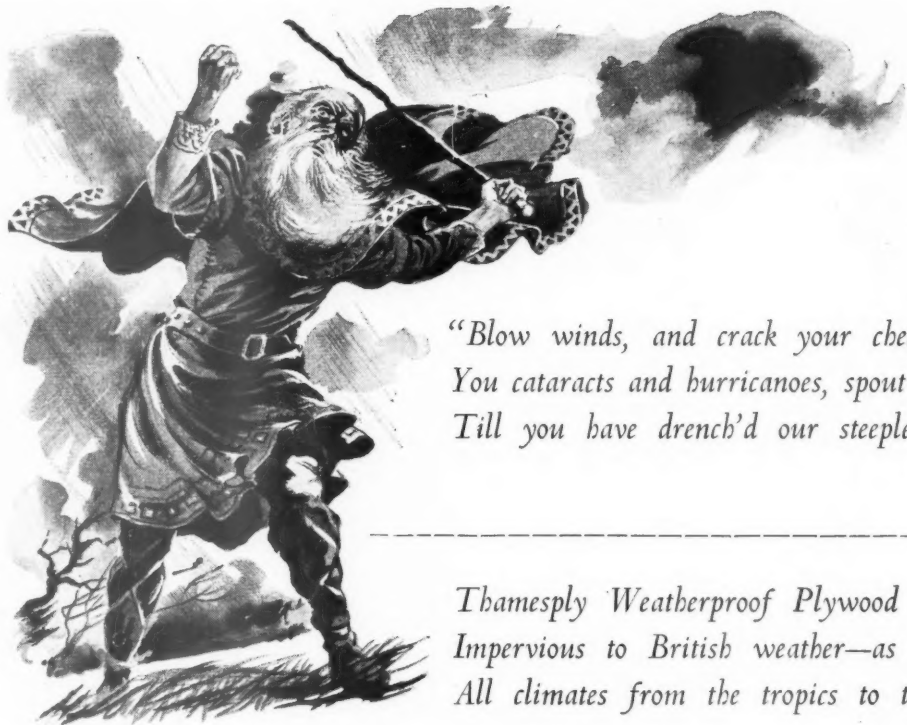
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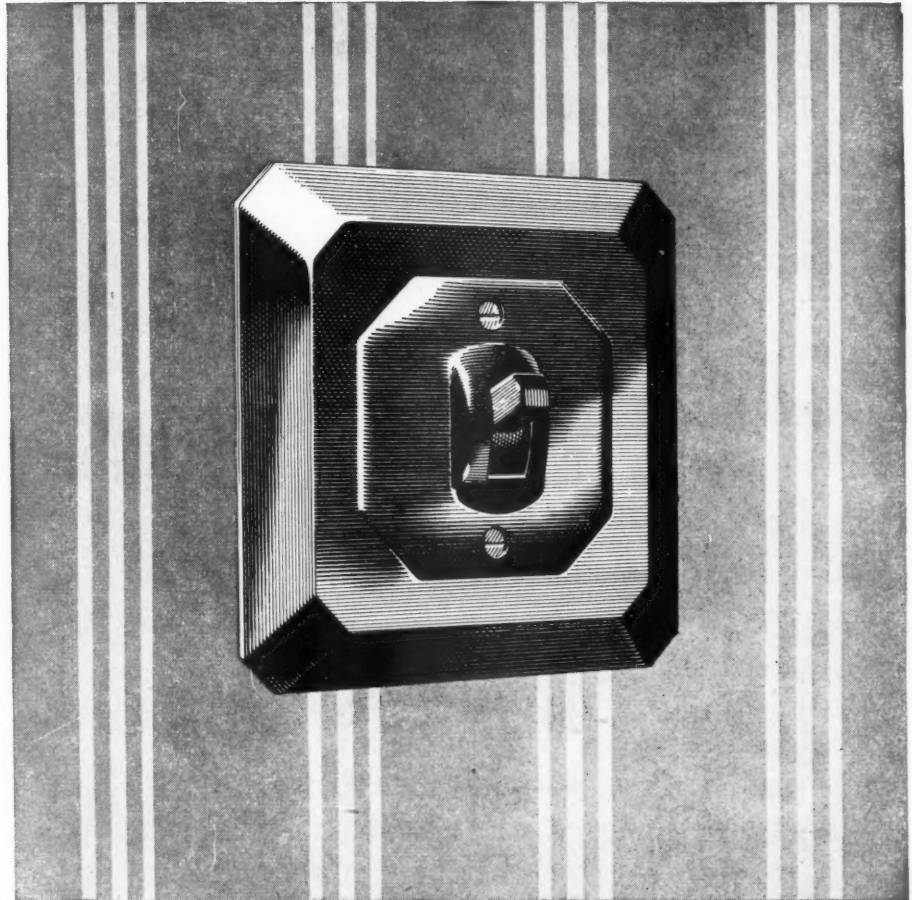
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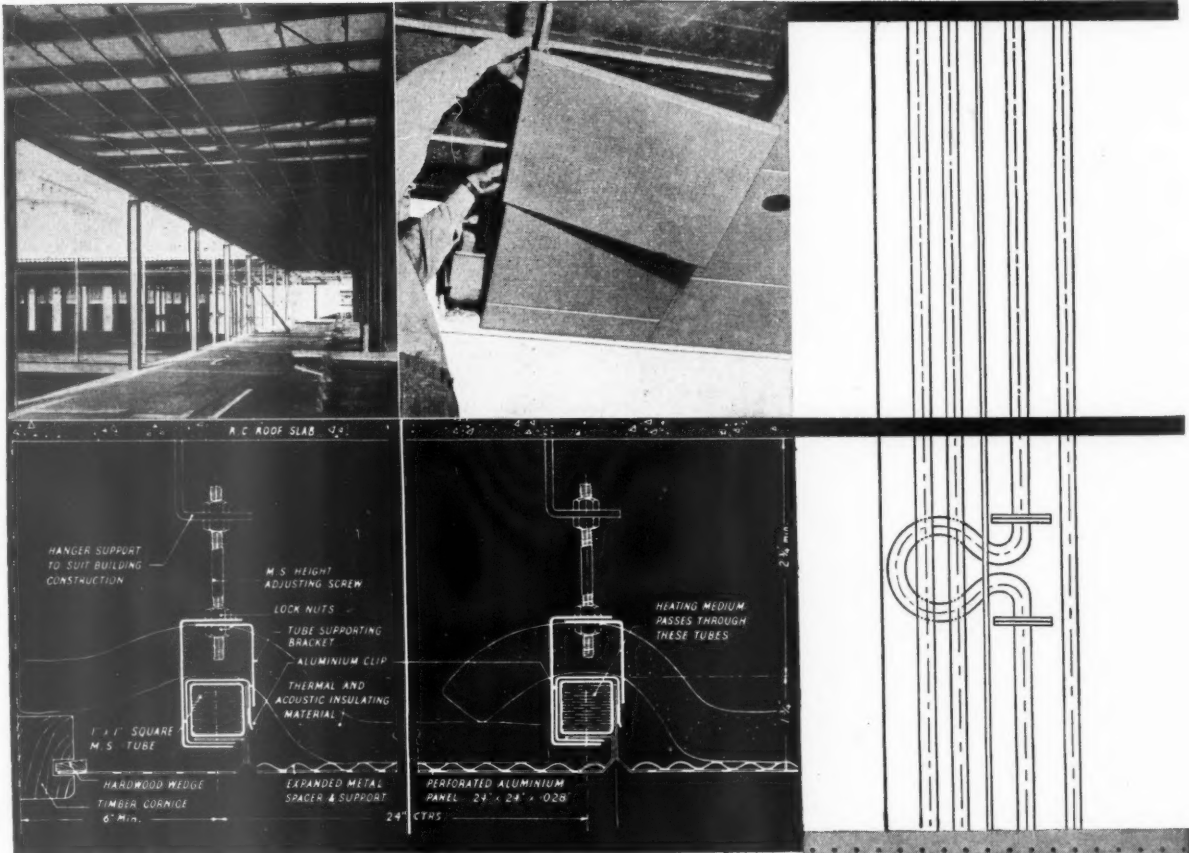
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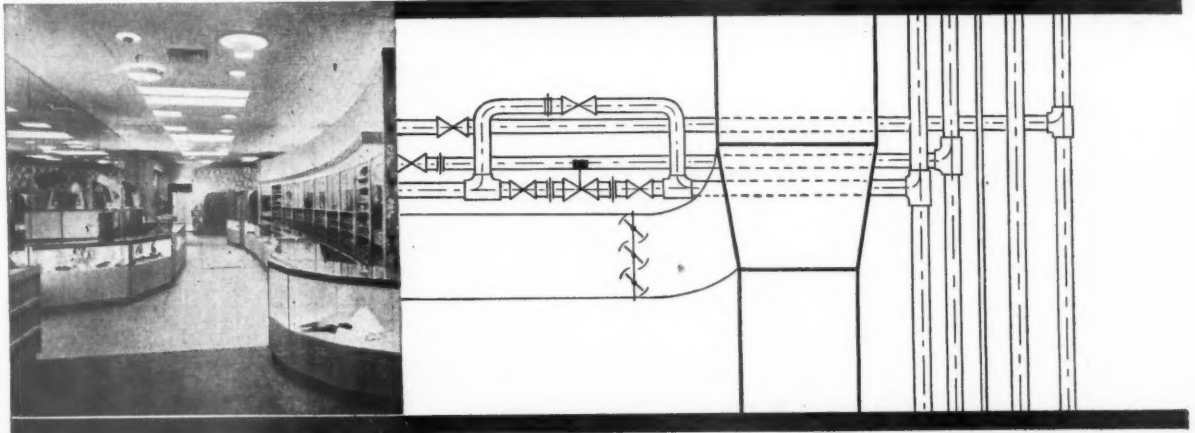
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*designed by J. M. Barnicot M.S.I.A of Falks*



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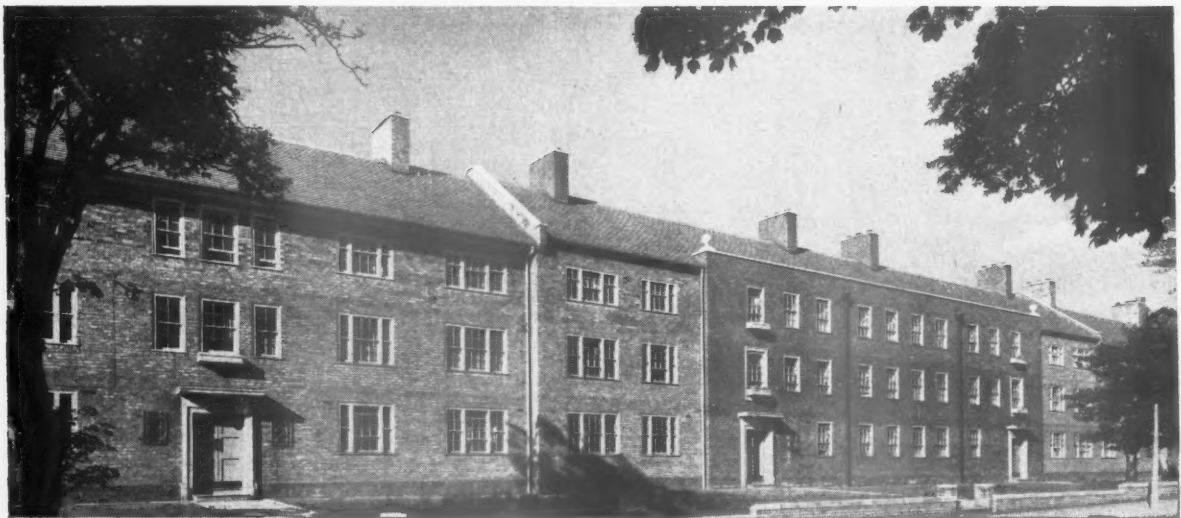
a Cellon finish which will measure up ideally to those requirements. This hearty confidence is well justified as is evidenced by the wide variety of paints and finishes produced in the Cellon factories. For Wood Finishing—the superb Cerric range; for Transport and Marine—the renowned Cerrux range; for Industry—specially formulated finishes by Cellon; AND FOR GOOD DECORATORS EVERYWHERE—

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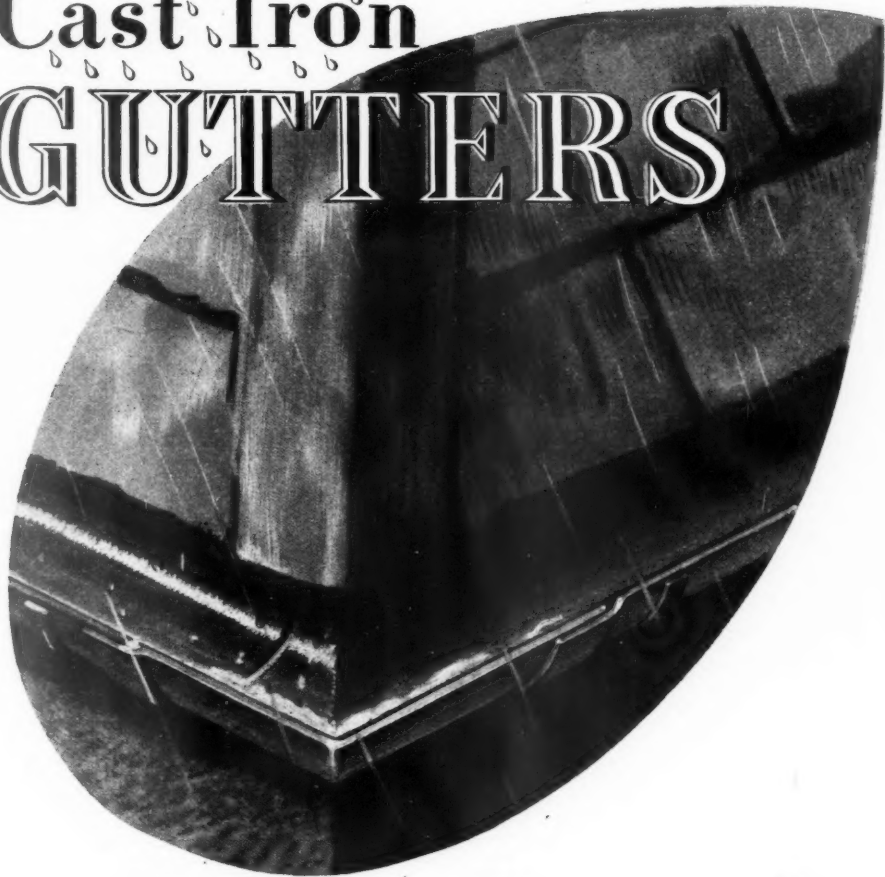
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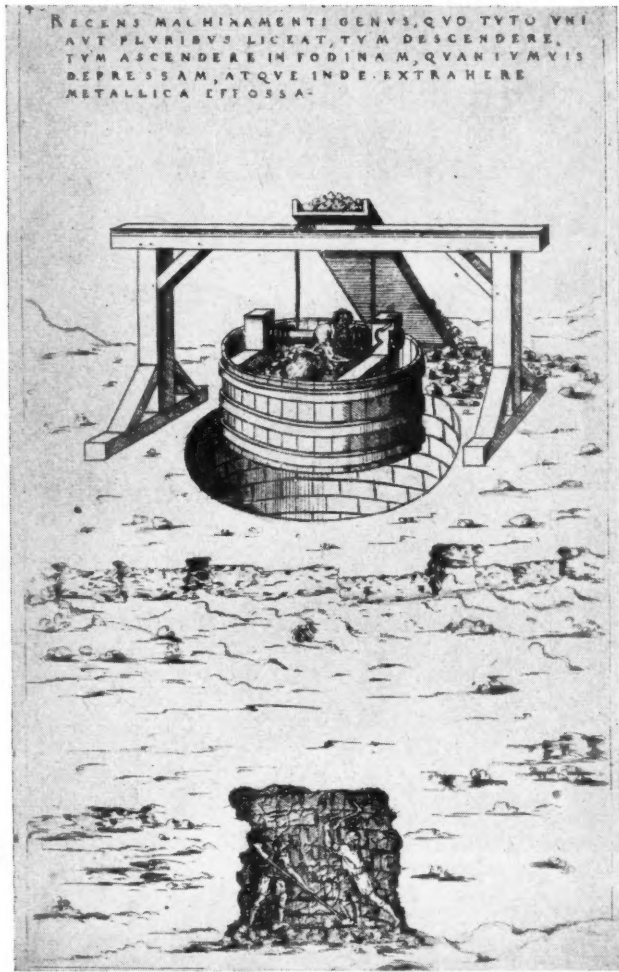
help from the technical service provided by Shell-Mex and B.P. Ltd. I’ll be a wiser bird next time.”



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*A design for a lift to carry both personnel and materials. Construction of the lift shaft is most substantial, but the hoisting mechanism is perhaps a trifle sketchy.*

*By Jacques Besson, French mathematician and scientist, 1659.*

*Photo by courtesy of 'Picture Post'*

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Architect : A. Mackenzie, L.R.I.B.A., Director of Housing, Manchester Corporation

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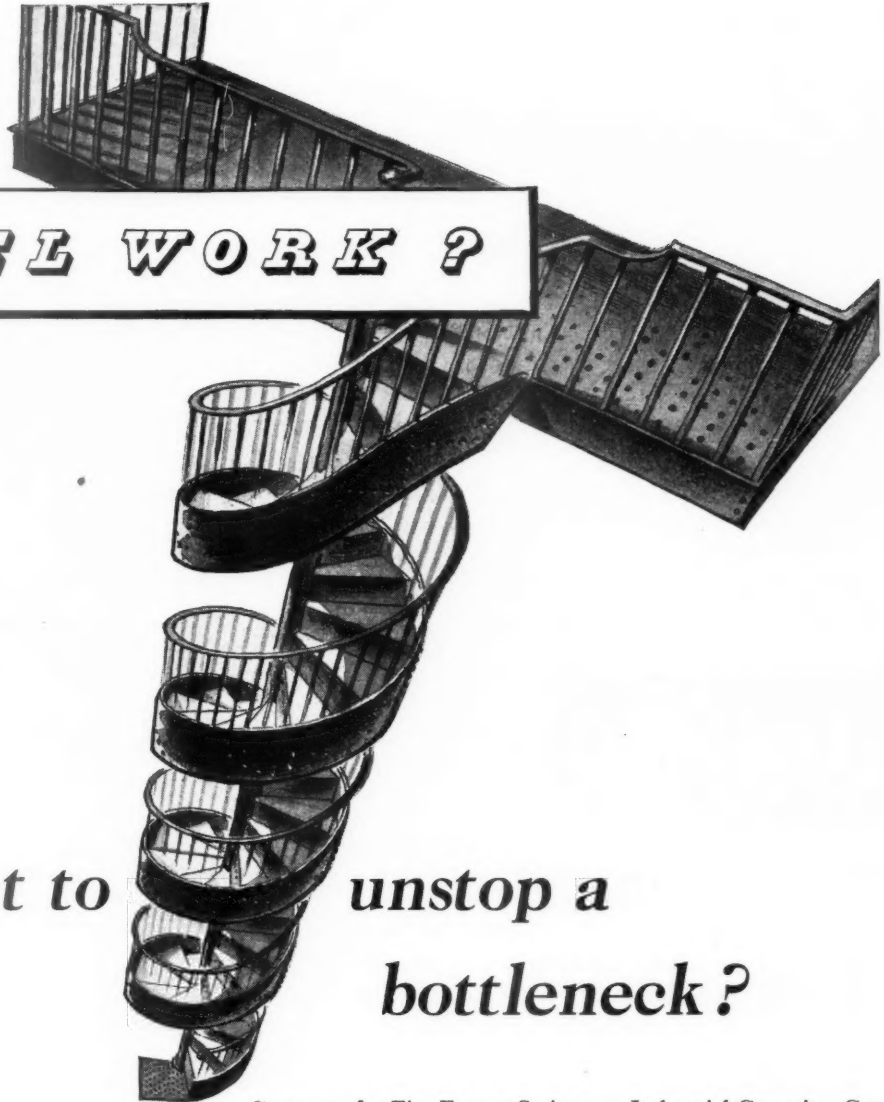
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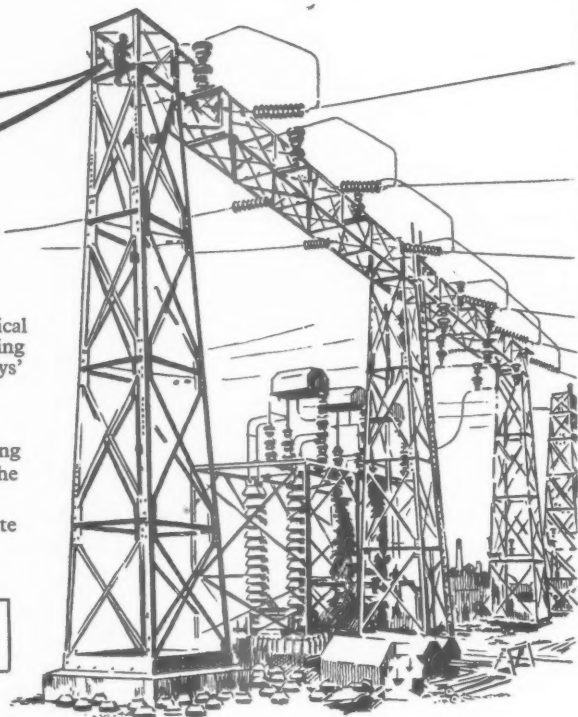
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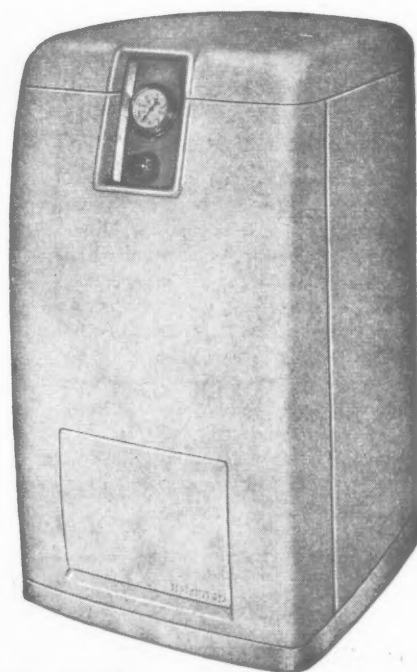
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*For enduring beauty specify*

## ACME SANDSTORM *clay roofing tiles*

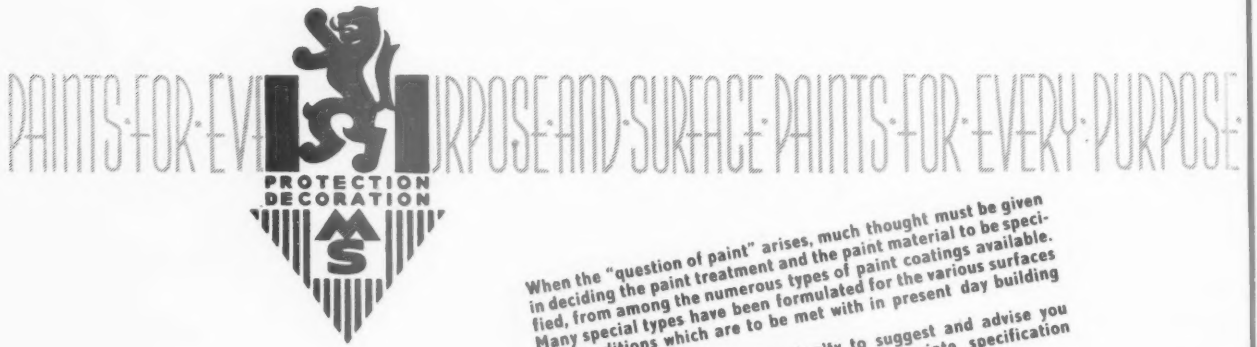


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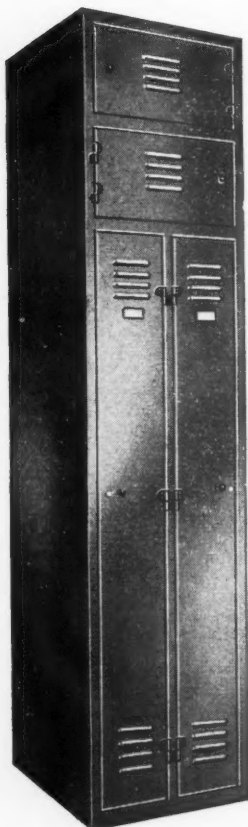
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 STEEL CLOTHES LOCKERS  
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★ These lockers provide separate accommodation for two persons and take up 37½% less wall space than old-style lockers.

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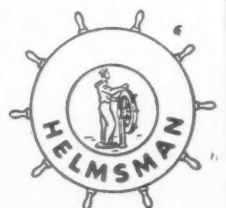
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- ★ *It is an entirely dry process*
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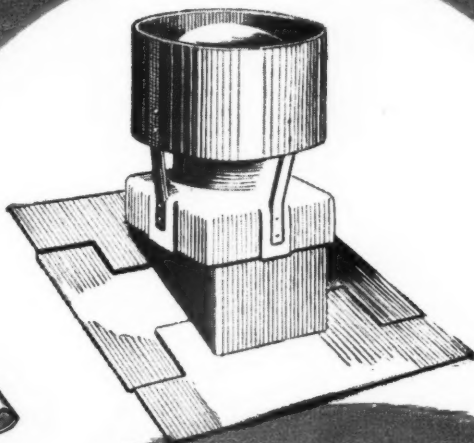
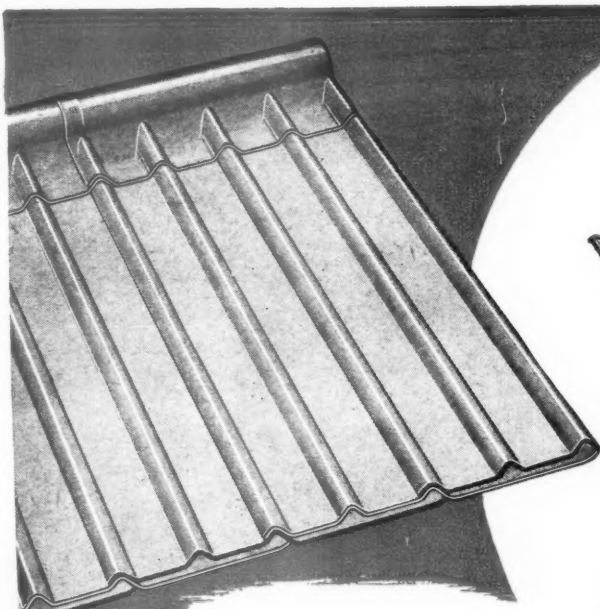
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(Asbestos — cement)

PAT. No. 416840

PAT. No. 472926

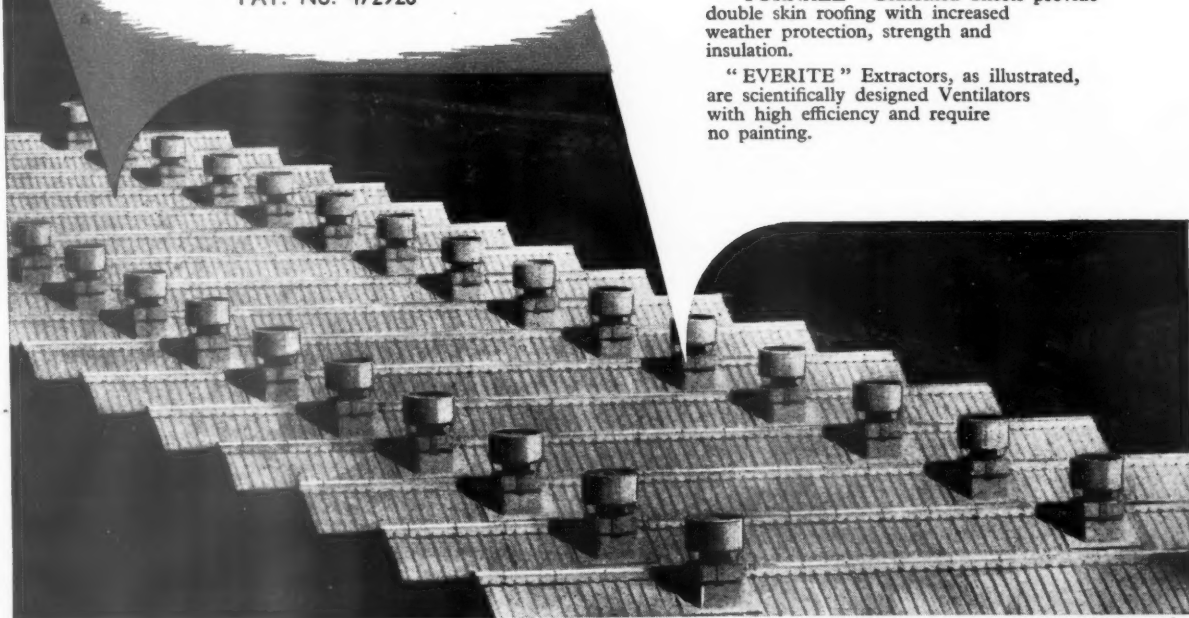
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# "EVERITE" REGD TRADE MARK Asbestos-Cement VENTILATORS WITH COVER SOAKERS

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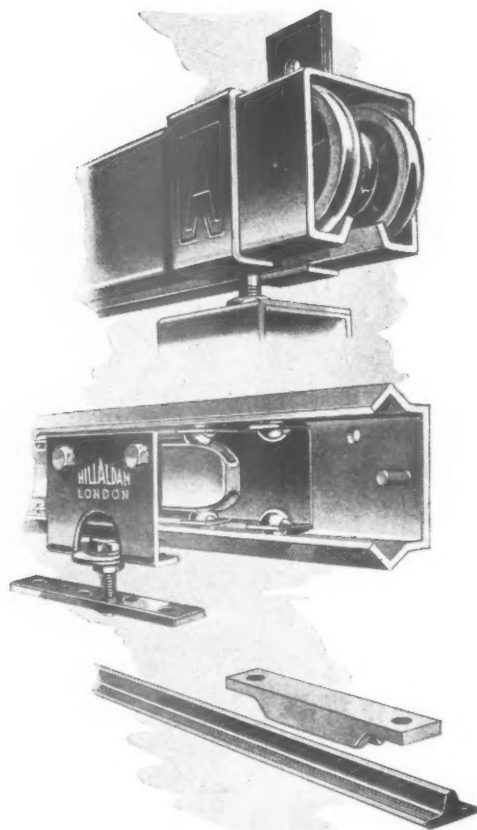
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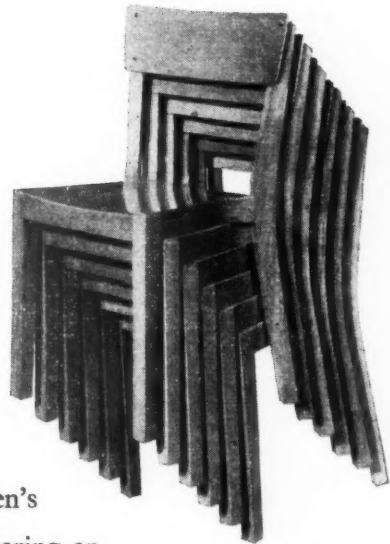
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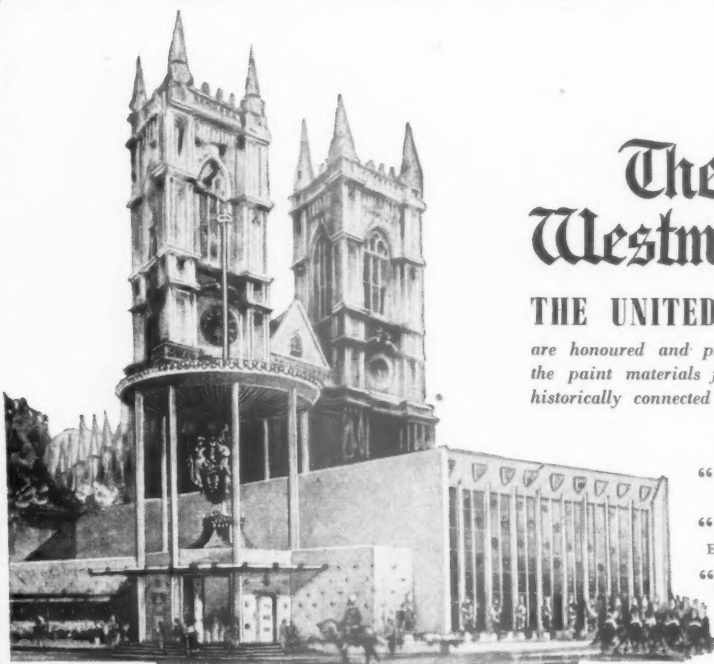
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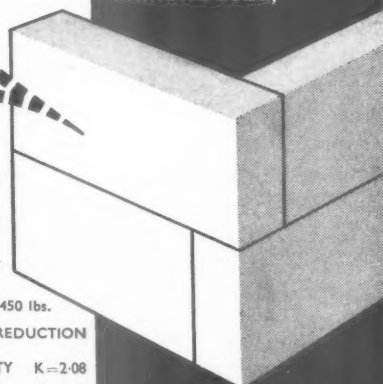
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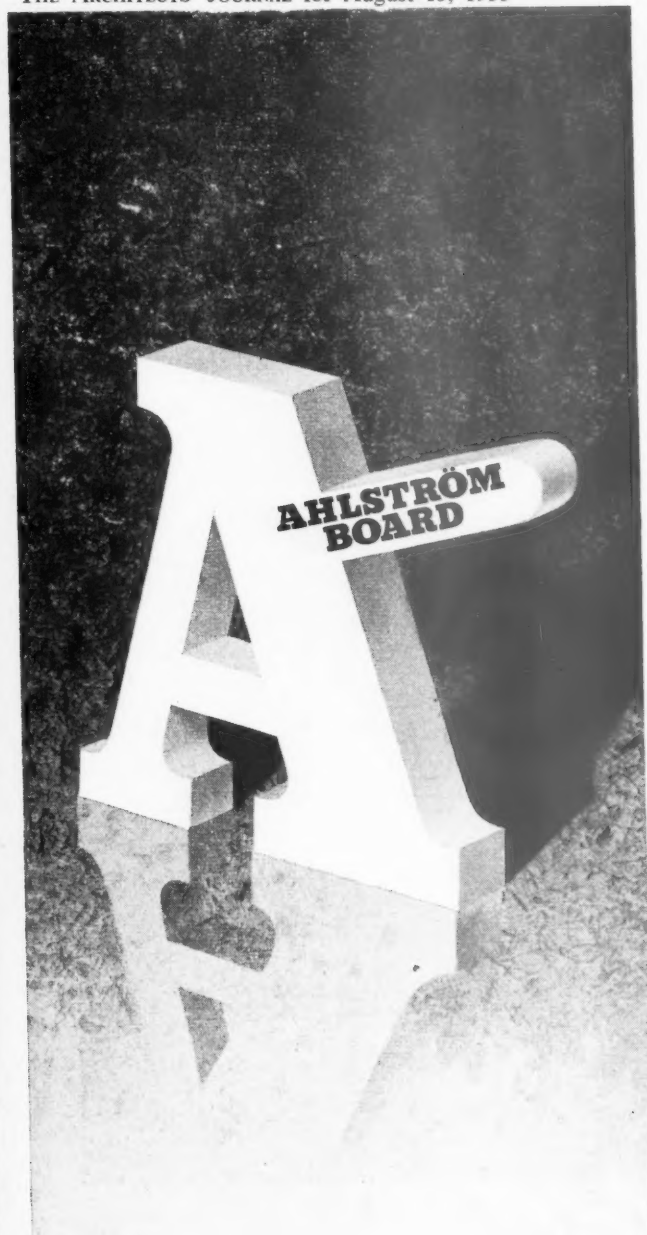
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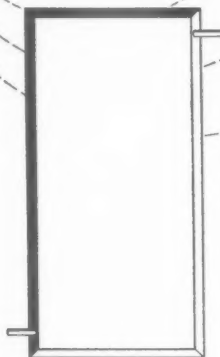
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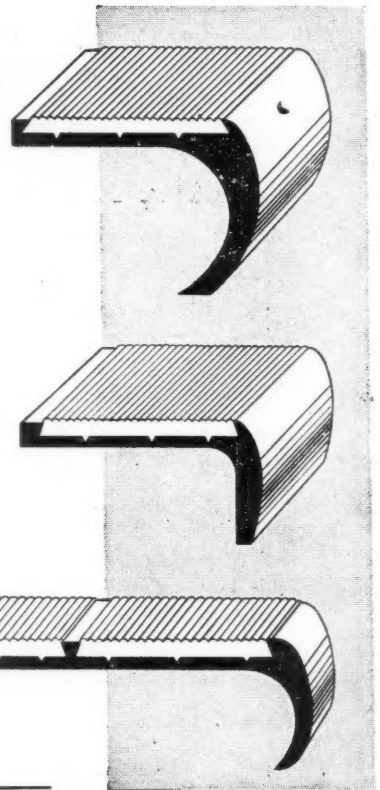
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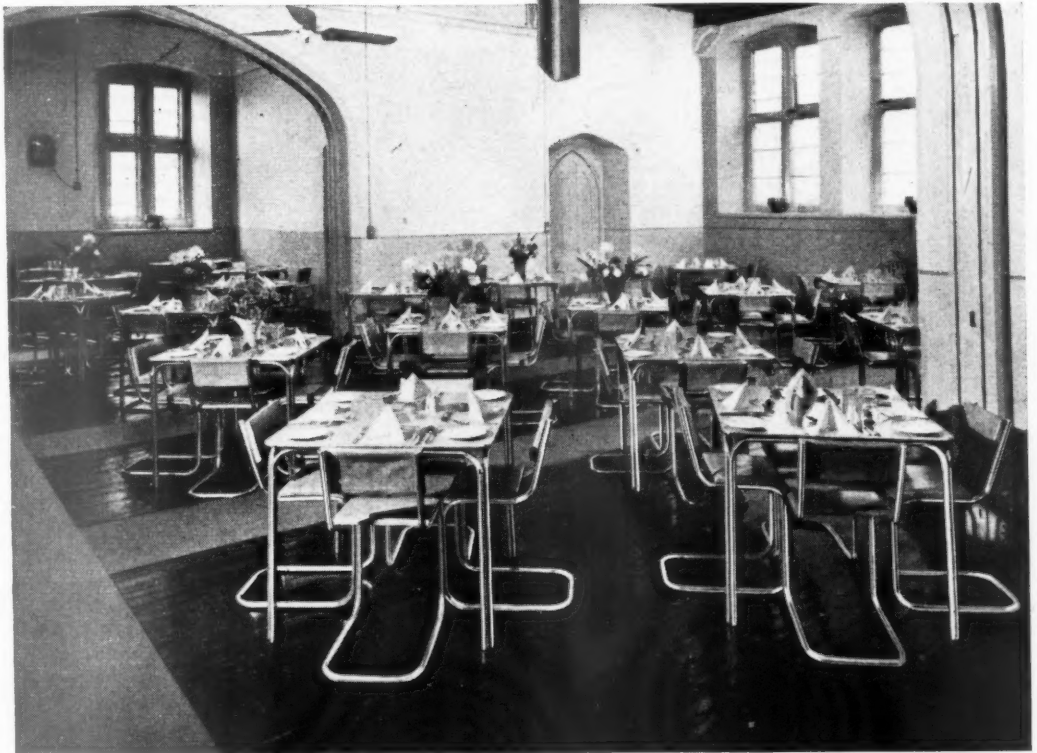
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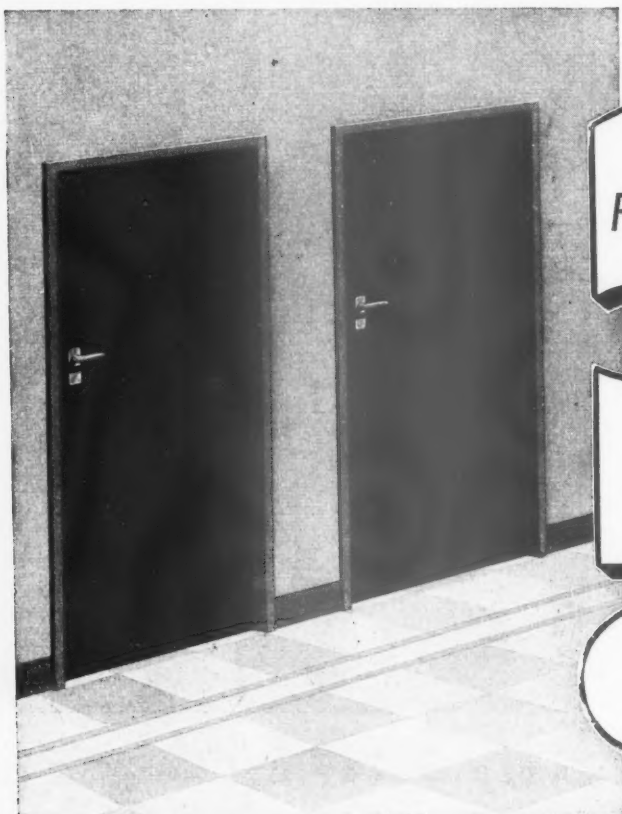
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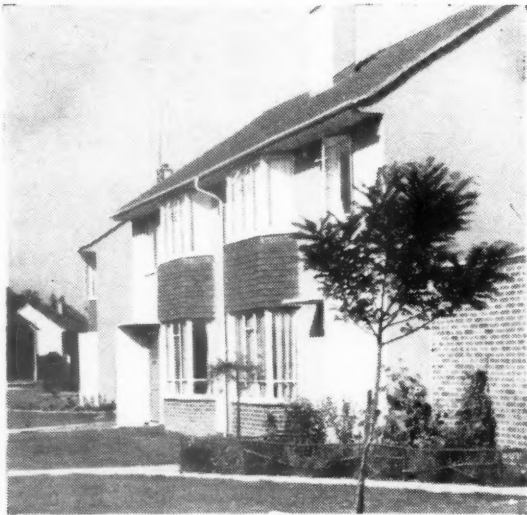
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*Housing contract for the Ministry of Works, Newbury*



*Housing contract for the Ministry of Works, Aldermaston*



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No. 3050 August 13, 1953 VOL. 118

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## COMMIT NO NUISANCE

After the Bank Holiday ASTRAGAL has become very cross with the litter leavers, who seem to get worse as time goes on. The Coronation was an exception; not all pavement sleepers could be expected to clutch six sodden newspapers until they found one of the too rare litter bins. But day-to-day London is filthy, and the most popular parts of the country are not much better.

\*

In the Royal parks there is a £5 penalty for litter, but how long is it since anyone was fined, or even summonsed? Sir David Eccles says that fines are no good and that it is a matter

of upbringing and education. Quite: but a few fines (small if you like) and plenty of publicity might help. H. G. Griffin, CPRE's secretary, says that this worked very well in Sydney; the police might try it in London. I would not like to be fined on the spot, as litter leavers are in the States, but a bit of toughness might do a lot of good.

## GOTHIC VANDALS

Magdalen College, Oxford, may or may not be—officially speaking—an Ancient Monument. Almost certainly it is. In any case it is an integral part of the English scene and, of course, a lovely thing in its own right. However, a letter in *The Times* confirms the incredible rumour that reached ASTRAGAL last week: the stonework towards The High is being rendered in cement and sham stone joints are being scratched upon its surface.

\*

Surely even Lord Grimthorpe knew better, even if Wyatt did not. And it is, surely, only a few years since the upper part of Magdalen Tower was rather carefully and meticulously restored. What has happened. Have the College authorities ignored their professional advisers? One had imagined that this sort of "restoration" was the kind of thing William Morris had pilloried, once and for all, nearly a century ago. Apparently not.

## DONS AS CLIENTS

Incidentally, this particularly misguided action raises a most curious point—about dons as clients. Architecture has made great gains in winning back its true historical position as part of our culture, but many a university skull remains thick. Shocking but true.

Look, for example, at one or two of the larger provincial universities. It is not that the various single buildings are always bad in themselves, or that they are built with undue economy. Senates just seem incapable of a long view. Birmingham and Nottingham, for example, each offer a rare mess of architectural pottage, to which in each case at least four or five architects—one or two in the top rank—have each contributed their own private ingredient. That is no way to make a good pudding. The men of learning and taste who have allowed it all to happen should be ashamed of themselves. It is all very odd; after all these men are familiar with Oxford and Cambridge, if not with Cracow and Bologna.

## JOURNEY INTO THE '80's

A friend tells me that, through the courtesy of King's College, Cambridge, he has been reading the full story of Bodley's Building in an MS volume of minutes and correspondence which records almost everything that happened. He writes me as follows:—

\*

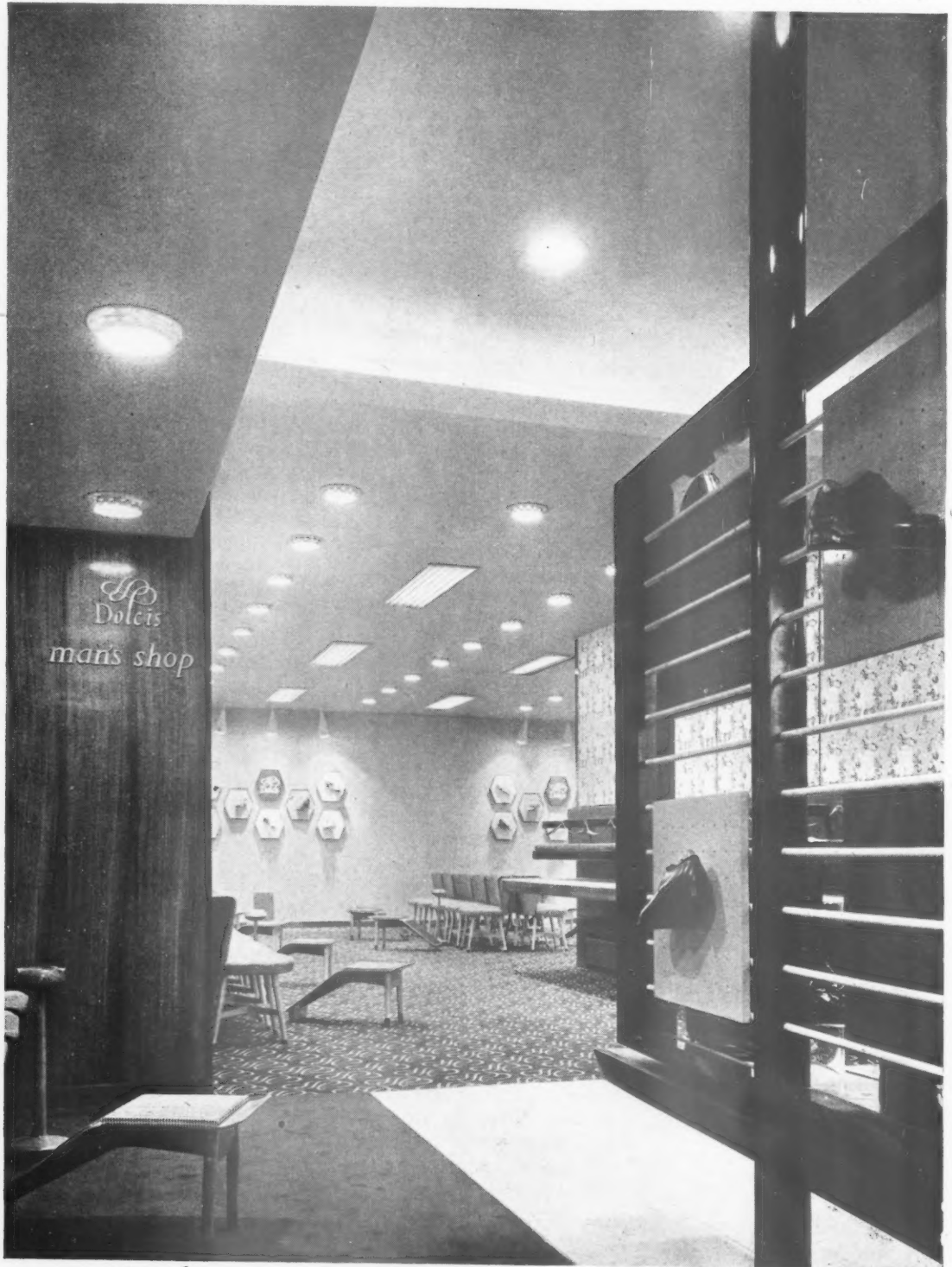
"Reading this volume was a memorable experience. The characters came alive at once and one was able to follow, step by step, the methods of a well-known architect of our grandfathers' time and the worries of his building committee. As in every job there were differences of opinion, and the excitement of wondering who is going to win is increased by the writing, for the most part in the cool, dignified, excellent letters of the Third Bursar, W. H. Macaulay.

\*

"The story begins with Bodley inspecting the site in 1889 and suggesting that the new buildings should be planned with a rebuilt Provost's Lodge in mind. But the College authorities seem to have been happy about the Lodge (by Wilkins) and they don't say anything about it until Bodley's references to demolition become more frequent. Then they write: . . . the new buildings are to be planned on the

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understanding that the Lodge is not going to be pulled down now or at some future date.'

\*

"Then there was the site. It was measured up by the Third Bursar, who did not take diagonals. Bodley was a little stuffy about this and suggested Macaulay might get some help from the builder. He did so, and took to his new rôle so well that he was later able to point out that Bodley's semi-final plans were seven or eight feet too long for the site. The architect thought this trouble could be overcome by the omission of a staircase. Nevertheless, Macaulay continued to take a friendly interest in keeping the building on the site. 'It appears to me,' he wrote, 'that the south wing must be shortened slightly, by about two feet, for it projects about this amount into the river when plotted from your tracing on to my plan.'

\*

"The story develops on classical lines. Bodley is most interested in his North Wing, with gateway and tower, and is deeply hurt when the College decide to build only the East and South Wings and so get more rooms for their money—about 1s. 3d. a cube foot complete. He only just stops short of really naughty behaviour in attempts to get his way. The Committee proceed with remorseless courtesy. They go into details with (to a modern architect) horrifying thoroughness and produce a lot of plans of their own—a number being really very good.

\*

"Bodley never got his North Wing. In 1904 the matter was discussed again and Bodley was granted permission to address the full Governing Body. The rest is silence."

LANCASTER HOUSE

It may or may not be true that Queen Victoria once said to the Duchess of Sutherland: "I have come from my house to your palace," or that Disraeli remarked: "It is worthy of Vicenza!" It is, however, a fact that Stafford House—since 1912 Lancaster House—was, as Benjamin Wyatt, Robert Smirke and (internally) Charles Barry left it to us—one of the greatest of "the great houses" of 19th century London. In this century it made a good home for the London Museum; it is no denigration of that valuable institution to say "too good."

\*

Those who regret the passing of great hostesses are too easily inclined to pillory governmental extravagance in entertaining—you may remember the fuss over the Curzon Street "hotel"—and too prone to forget that foreign diplomats and statesmen can no longer be honoured, flattered or impressed at, say, Brompton or Mentmore. There can, therefore, be only congratulations for the MOW in having made Lancaster House into a great centre for government en-

tertaining, and in having restored all the opulence of its gold and white. Here and there—but only here and there—opulence tends to spill over into vulgarity; here and there, on the other hand, there are bare walls that could surely be ennobled by occasional loans from the National Gallery or the Tate. But it is a wonderful house, as eminently fitted to serve the 20th century as it once was to serve the 19th.

HEARTY BACK-PATS TO THE LCC

Lining up in the queue, behind his editors, to congratulate the LCC housing architects on their new house and maisonette plans,\* ASTRAGAL reflects on the ironies of the architectural situation as they are revealed in the maisonettes.

Although the design is one of the most

\* See pages 189 to 191

*There is a marked resemblance between the LCC housing architects' new maisonette plans (mock-up below) and I. de Wolfe's proposal for a linear house which appeared in the JOURNAL on July 3, 1952. (Sketch on right). The LCC has proved that a good workable and economic plan can be produced within a frontage of 12 ft. See note above and feature on page 191.*

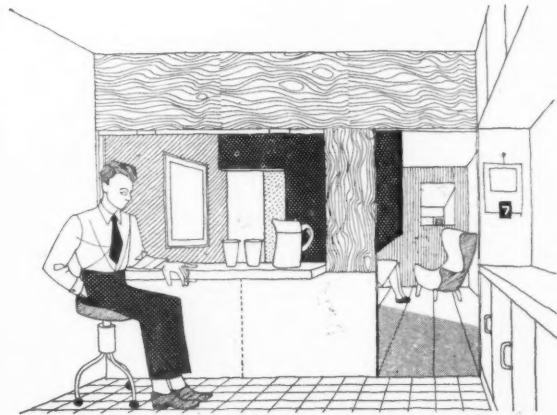
radical attempts we have seen since the war to get the maximum performance out of the minimum amount of building, and every square inch of floor, every cubic inch of volume and every foot run of piping has had to be defended against the demands of economy, the result is one of the most gracious small interiors that has been designed in recent years.

\*

ASTRAGAL, who gets around, made a point of visiting the mock-up which was built to persuade the housing committee that this maisonette would be habitable, and was most impressed—to the extent of wondering whether he couldn't have one built as a private house.

\*

However, the point, and it has been some time coming, is that this design





### Sunshade Art

This month the enquiring eye of the *Architectural Review* has come to rest on shop sunblinds, which are—in Marcus Whiffen's words—"an element in townscape." The example reproduced above is described as "a piece of unconscious abstract art floating without visible means of support across the field of view and forming a splendid foil to the earth-bound shapes of the architecture in the

background." Once one starts looking at sunblinds as examples of unconscious art, and not only as functional devices (whose existence becomes less justified every British summer-time), one can find many interesting variations. But Mr. Whiffen is right in suggesting that shop blinds should be more colourful in a country where colour is more important than shade.

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is not the work of a group of hard-bitten economy-minded housing department assistants who have become cynically resigned to having all their best ideas divided by two. Its conspicuous virtues arise from the fact that the fairly large number of assistants who have contributed to it are all young and still slightly starry-eyed, all convinced aesthetes, experts in clothesmanship, and all disinclined to accept established solutions to housing problems. It would be nice if their chief, Whitfield Lewis, could arrange for them to give lessons to some other housing departments one can think of.

\*

Incidentally, it is believed that a member of this group of assistants was responsible for the following addition to the already lively collection of excuses in the LCC's Late Book: "Foot stuck in Edwardian trousers."

#### WREN—A NEW BIOGRAPHY

Christopher Wren has not, perhaps, been too well served by his biographers. An exception was Geoffrey Webb's little book in the "Great Lives" series, but admittedly it is slight. All the more welcome, therefore, is Martin S. Briggs's *Wren the Incomparable*.\* It is well written and well ordered. The author does not allow his very real affection for Wren to get in the way of his very real critical faculty. As far as one can tell, he also offers a good many new facts.

\*

Wren put up a great many different kinds of building at the same time; therefore his biographers must decide whether to deal with his buildings in categories—Churches, Royal Palaces, Royal Hospitals, etc.—or to tell the chronological story of his life. Either way involves a good deal of cross-reference. Mr. Briggs wisely deals with the buildings in categories and this, for architects at any rate, makes the better book. There is another reason for choosing this method: ASTRAGAL had not realized, until he read this book, how very little we know about Wren's life as distinct from his buildings. It is a most readable book upon a subject that was—rather unexpectedly—not yet exhausted.

#### ASTRAGAL

\* *Wren the Incomparable*, by Martin S. Briggs. George Allen & Unwin. £1 15s.

## The Editors

### LCC IMPROVES ON MOHLG

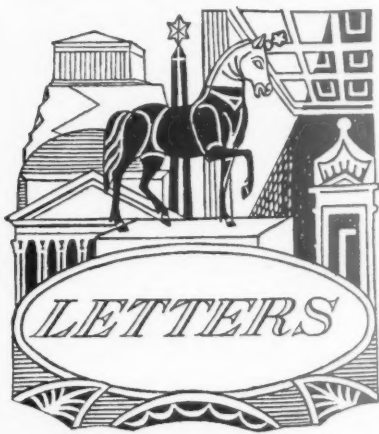
AS the LCC is the country's largest housing authority it is inevitable that the dwellings its architects design should be compared with the plans prepared by MOHLG as a guide for housing authorities throughout the country. The latest housing and maisonette plans from the Housing Division of the LCC's Architect's Department emerge very well from a comparison. (See plans overleaf.)

Let us take first the new two-storey house: this is a terrace house with a frontage of only 16 ft. 3 in. The smallest frontage of any of the so-called narrow-fronted plans published by MOHLG last November was 19 ft. 5 in., and in criticizing the only house which, like the LCC's, caters for six persons, we said this at the time: "This house falls below the standards of any comparable plan in either Housing Manual in having four bedrooms upstairs and the bathroom and w.c. downstairs. The dining-kitchen has a table for six squeezed in between the cooker and the dresser . . . not a single cupboard is provided in any bedroom or anywhere upstairs. A full set of winders starts at the top of the stairs. No pram space." Although 21 sq. ft. smaller, the LCC plan has none of these faults; it has a pram space, a straight staircase, cupboards in three of the four bedrooms, a bathroom and w.c. on the first floor and a w.c. on the ground floor.

There is no recent MOHLG counterpart for the LCC's three-storey house (the last three-storey house plan published by the Ministry was in the 1949 Housing Manual). But this plan is better than any of those in *Houses 1952* or any of the narrow-fronted plans published in November, 1952. The floor area of the LCC house (it caters for six persons) is 117 sq. ft. greater than the MOHLG's six-person, "narrow-fronted" house mentioned above (but about 30 sq. ft. less than the three-storey, five-person house in the 1949 Housing Manual) and the cost of this extra area would probably be balanced by the savings due to the narrower frontage of 12 ft. 10 in. It is, moreover, a good plan, with none of the faults of so many of the recent MOHLG plans.

For the LCC four-person maisonettes there is, again, no recent MOHLG counterpart. It is interesting, however, to compare them with the maisonettes in Le Corbusier's *Unité d'Habitation*. Both cater for four persons; both have roughly the same internal width; the LCC plan (floor area, 705 sq. ft., i.e., about the same as the net area of most of the four-person houses in *Houses 1952*) is about 130 sq. ft. smaller and, of course, it does not have the two-storey living area.

It is, however, a good plan and, like the two house plans, seems to have, within a floor area suited to the economic climate of 1953, all the amenities of the much larger plans produced during the early, palmy days of post-war housing.



F. E. Shrosbree,

General Secretary, ABT

"Practitioner," A.R.I.B.A.

"Chief Architectural Assistant,"

A.R.I.B.A.

### Salaried Architects

SIR.—Your correspondent's article on salaried architects (July 16) is of especial interest to the ABT and he is to be congratulated on the thought he has given to the subject.

May I say, in passing, that a comparison between the total cost of a department and the fees which would have been paid if the work had been given to a private architect, is an argument I have used regularly over a number of years when negotiating with individual local authorities.

However, as regards the proposal to form a new Salaried Architects' Association, I think Cleeve Barr (in your issue of July 30) has put forward some very sound practical reasons against it. Those who so optimistically call for a new organization can have no conception of the cost in time, energy and money to build up an organization, to produce satisfactory rules, to obtain satisfactory staff, and to win recognition. If a new organization were started now, many would not live to see it grow into an effective body—if it ever did so.

The ABT is already recognized and has a seat on the RIBA Council and two on ARCUK. What new body could hope to achieve this in the foreseeable future or gain the experience and standing we already have as a negotiating body with many different employing authorities?

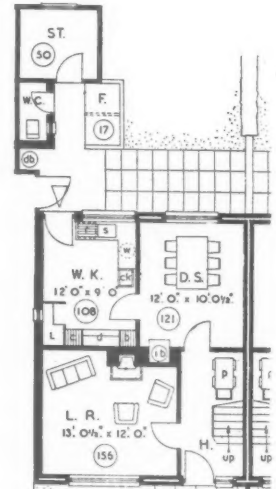
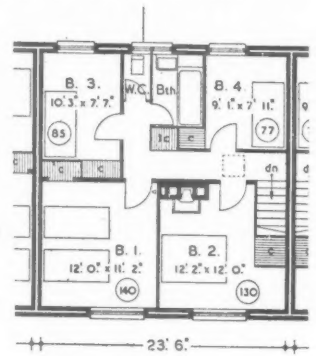
It is a natural human failing for each individual to wish to create an organization which is designed to meet only his personal needs. We feel that many of the demands for a new organization arise from just this motive.

We have to accept the fact that an organization with wide support will not have all the features that everyone wishes, and on the other hand will incorporate some things which some will dislike. Nevertheless, it is a fact that the ABT has the organization to do the job and every salaried architect can join it and work for the changes he would like to see in it.

Mr. Barr has drawn attention to difficulties which he sees in the present form of the ABT. The ABT is prepared at any time to examine itself and see whether we can make changes to unify and effectively represent the architectural profession alongside the RIBA. I am convinced that out of

## PROGRESS IN HOUSE PLANNING : FROM HOUSING

Successive house plans issued by MOHLG have steadily declined in floor area. The floor area for five-person, two-storey houses, for example, having dropped from between 1,000 and 1,150 sq. ft. in 1949 (MOH Housing Manual) to between 880 and 900 sq. ft. in November, 1952 (narrow-frontage "People's Houses"). On this and the facing page the latest house and maisonette plans produced by the Housing Division of the LCC's architect's department are compared with their MOH and MOHLG counterparts. The LCC plans show that the trend towards smaller floor areas is continuing (they are even smaller than the smallest MOHLG plans and between 10 and 24 per cent. smaller than the plans in the 1949 Housing Manual), but that the reductions in standards that usually result from reduction in floor areas can be avoided. Moreover, the LCC's architects have used frontages much smaller than any put forward by MOHLG, being comparable to that of I. de Wolfe's "Linear House" (see AJ July 3, 1952)

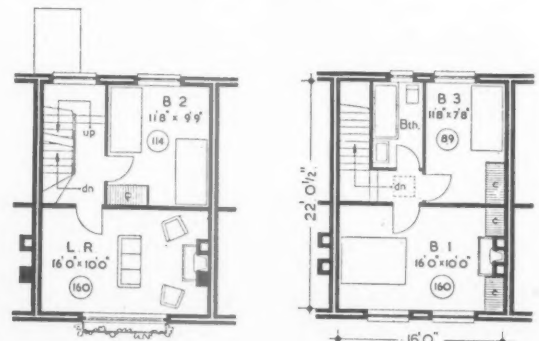
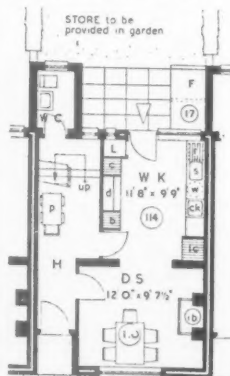


### Three-storey houses

Right, LCC 3-storey terrace house (1953). Six persons. Gross area 1,124 sq. ft. Frontage, 12 ft. 10 in.

Scale for all plans  $\frac{1}{8}'' = 1' 0''$

Below, MOH 3-storey terrace house (1949). Five persons. Area (ex-store), 1,095 sq. ft. Frontage, 16 ft. 11 in.

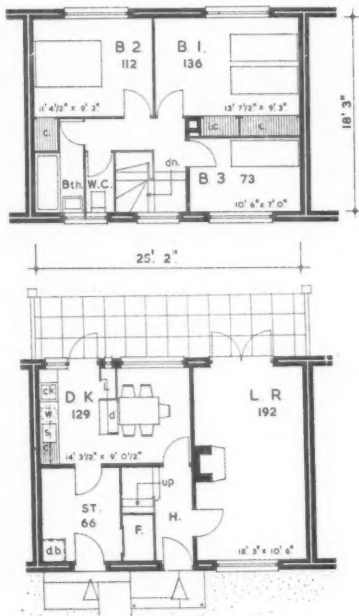


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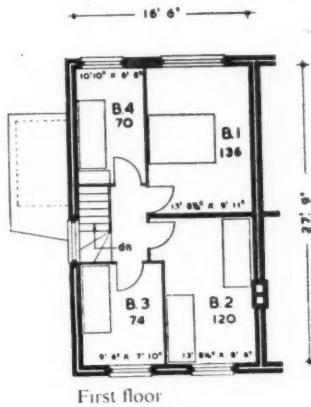
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MANUAL TO THE LCC'S LATEST PLANS

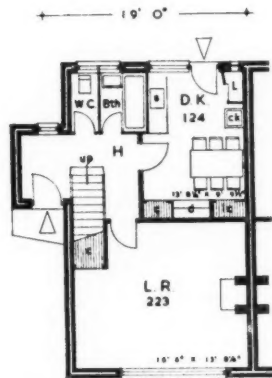


Two-story Houses

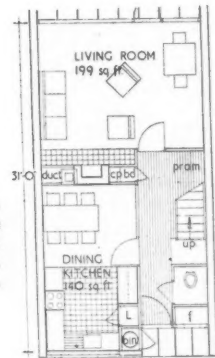
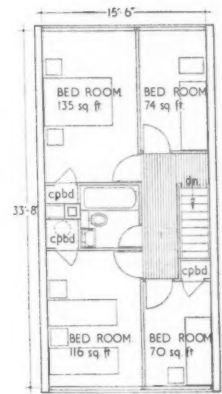
Left, MOH 2-story terrace house (1949). Six persons. Gross area, 1,130 sq. ft. Frontage, 24 ft. 5 in. Above, MOHLG 2-story terrace house (Houses 1952). Five persons. Gross area, 918 sq. ft. Frontage, 26 ft. 1 in.



First floor



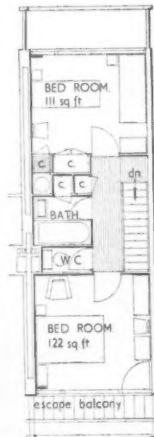
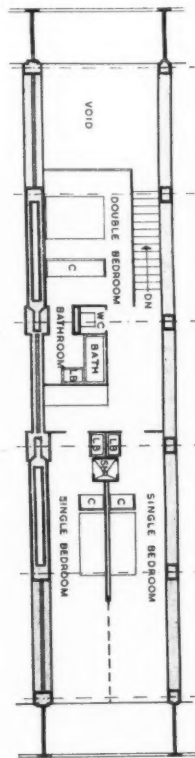
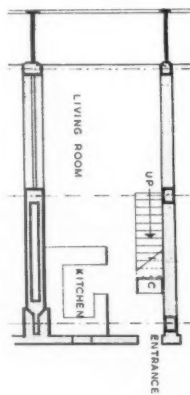
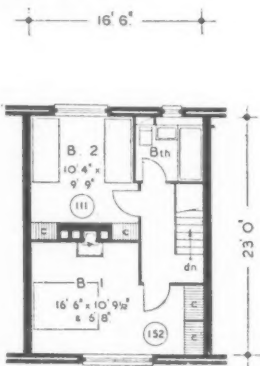
Left, MOHLG 2-story semidetached or end-of-terrace house (Nov., 1952). Six persons. Gross area, 1,007 sq. ft. Frontage (including entrance), 22 ft.



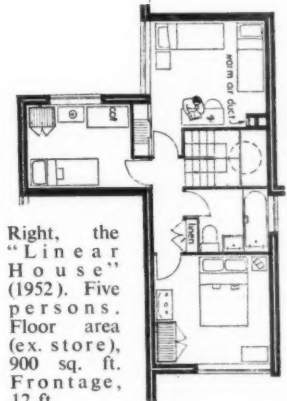
Right, LCC 2-story terrace house (1953). Six persons. Gross area, 986 sq. ft. Frontage, 16 ft. 3 in.

Maisonettes

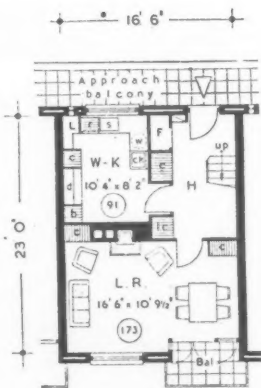
Below, MOH (1949). Four persons. Floor area, 934 sq. ft. Frontage, 17 ft. 5 in.



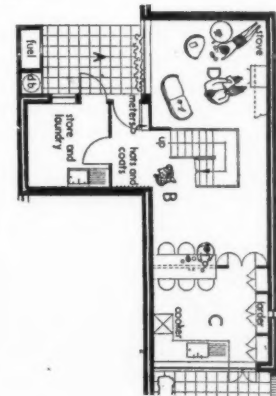
Right, the "Linear House" (1952). Five persons. Floor area (ex. store), 900 sq. ft. Frontage, 12 ft.



Above and right, LeCorbusier's Unite d'Habitation. Four persons. Floor area, approx. 840 sq. ft. Frontage, 12 ft.



Right, LCC maisonette (1953). Four persons. Floor area, 705 sq. ft. Frontage, 11 ft. 10 1/2 in.



the present organizations—and without being presumptuous I suggest that only the RIBA and ABT need be considered—we can build on the experience and loyalty which are already there and produce something which will serve the profession in the way we are all seeking.

F. E. SHROSBREE.

London.

SIR.—Profit, it would appear from your writer's argument, is an expense which has not been incurred. If A's services cost less than B's, the difference is a profit to the fortunate employer of A. This is a very intriguing idea, and I shall endeavour to persuade my bank manager that because I have not bought a Rolls Royce this year, but instead have an old second-hand car, I have made a profit of some thousands of pounds. I shall be thankful, however, that my accountant will not take a similar view when preparing my income-tax returns.

I do not know the precise word to describe the sums of money shown in column 5 of the "Summary of Accounts," but these sums appear to represent the difference between the rate paid and what the writer believes to be the rate for the job. The proposed campaign is therefore exactly similar to that proposed annually by almost every trade union in the country. Leaders of trade unions reach their positions by (among other things) pointing out what appear to them to be the enormous profits of the "boss class"; the JOURNAL is allying itself to a similar cause, with even more absurd ideas of the nature of profit.

While the proposed scale does not seem over-ambitious, the arguments used invite comparison between salaried and private architects, and, if valid, would imply that there is no reason why the salaried architect should receive any less remuneration than his colleague in private practice.

It seems that the salaried architect wants it both ways. He has offered himself as an employee, and, on being accepted, demands the status of an employer. Surely, if the rewards of private practice appear so much better, the thing to do is to start a practice. If the writers of the article and the supporting letters are so confident of their true value to the community, they should not be unwilling to put it to the test in the extremely open market. But if it is argued (and I do not concede it) that it is impossible for a young man to start a practice, then it follows that sooner or later there will be no private practitioners, and therefore any contention based on a scale for private practitioners will be irrelevant, and will certainly be treated as such by an employing authority.

What is impossible is for a young man to start a practice and be guaranteed success. It is impossible to be guaranteed any degree of success, even the equivalent of Grade I, and it is here that the nub of the matter lies. The world owes us a living, and if we can endure five or six years of pleasant toil in a school of architecture it owes us a better living. Why should we risk or venture anything? Surely the Rights of Man include a guaranteed wage in a pleasant occupation for a qualified man. If anyone earns more than the guaranteed wage, he must be getting preferential treatment of some sort from the bountiful providence which hands out these rights and guarantees.

This appears to be the attitude of the subscribers to this campaign—that it is somehow naughty and wicked to save for the day when one can strike out alone, and that any success which may result comes in the form of blood money drawn from the poor Grades I to VIII.

In making the above remarks, I particularly wish to exclude from contumely and



Flats at Finchley, London, N. 3

Above, four blocks of 2-storey flats at St. Michael's Close, built for the Borough of Finchley. The site is 1.3 acres in area. The density will be 65 persons per acre when a fifth block is added. One-bedroom flats are 526 sq. ft. in area, 2-bedroom flats are 693 sq. ft. in area. There is an additional 58 sq. ft. of outbuildings per flat. The architect was J. R. Southcombe, chief architect in Finchley's Housing and Town Planning Department; the assistant in charge was R. W. Hallam.

## BUILDINGS IN THE NEWS



Flats at West Bromwich, Staffordshire

Above, one of six blocks of flats (12 two-bedroom flats of 638 sq. ft. in each block) on the Yew Tree Estate at West Bromwich, which have been constructed by the Wates method. Precast r.c. panels were used to form the outer skin. Concrete was poured into cavities formed at the joints when the slabs were in position. This is the first time the method has been used for 3-storey construction. The architect for Wates Ltd. is Kenneth W. Bland. The contract price was £94,300.





**Flats in East Ham, London, E.6**

*This Y-shaped, 8-storey block of flats, known as Priory Court, is the first block of more than four storeys in East Ham. It contains 75 two-bedroom flats of 695 sq. ft., and 21 three-bedroom flats of 854 sq. ft. The site is 2½ acres in area; the density is 162 persons per acre. The chief housing officer for East Ham is J. E. Austin; architect in charge, C. H. Doody. The contract price was £226,980.*

**Houses at Crawley New Town, Sussex**

*Part of the West Green neighbourhood in Crawley New Town, Sussex. The houses were designed by A. G. Sheppard Fidler; the consulting architects for the layout were Godman and Kay. The neighbourhood, which is nearly completed, will ultimately contain 676 dwellings. The density will be 10·6 dwellings to the acre.*



avoid giving offence to those salaried architects whose work, illustrated often in the JOURNAL, is of such a standard that I cannot imagine them having time or inclination for these anxieties over their status. It would be a matter for great regret if the agitation of some others were to result in friction between men of quality in both spheres.

PRACTITIONER.

Dunbartonshire.

SIR,—I am generally in agreement with the views of your correspondent (July 16). I am employed in a borough council office as chief architectural assistant on Grade VIII. I am responsible to the borough engineer and surveyor for the running of the architectural section and, in addition, advise the borough engineer, his department generally, and the chief housing officer's department on all matters relating to building. My duties are comparable to those of a principal in private practice, in that I actually carry out the design of the building, supervise the erection through all stages to completion and organize the architectural section for this purpose. I also prepare committee reports, attend committee meetings and at all times endeavour to keep the borough engineer informed in general of what is happening so that he is in a position to answer questions from the council or other sources. This latter duty takes up a considerable and, to my mind, unnecessary amount of my time.

With regard to the "Establishment Charges" referred to in the article, therefore, I wish to question the making of a charge for "borough engineer's supervision"—as surely there should be a credit allowance to compensate for the time (of at least the chief assistant) lost in keeping the borough engineer informed.

The fact that the architectural work of so many local authorities comes under the wing of a borough engineer appears to me to be the reason why salaries of architects generally in the employ of local authorities are lower than they should reasonably be.

In my own authority there are four engineers (borough engineer, deputy, chief assistant and senior assistant) receiving higher salaries than I am as chief architectural assistant—yet most of the work of the engineers is purely routine and the value of the architectural work (excluding architectural advice) exceeds by several times the value of the engineering work carried out yearly. It seems obvious, therefore, that if the architect was a chief officer he would have little difficulty in justifying the existence of himself and his staff.

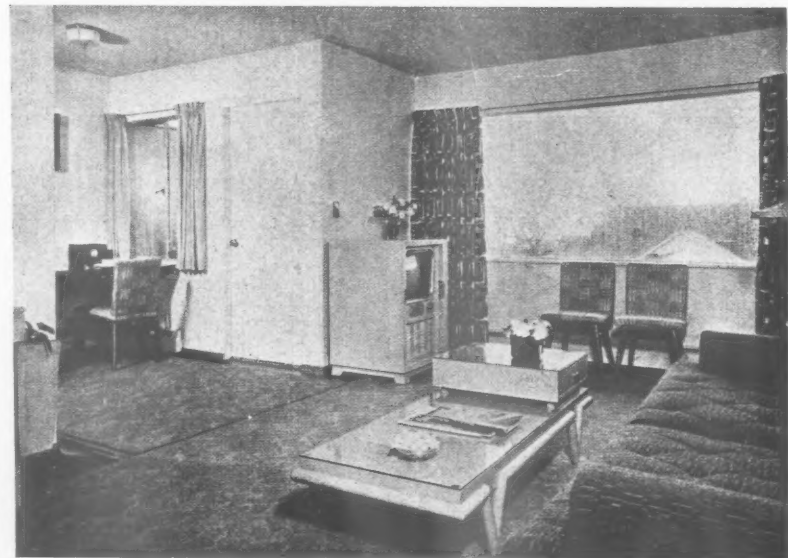
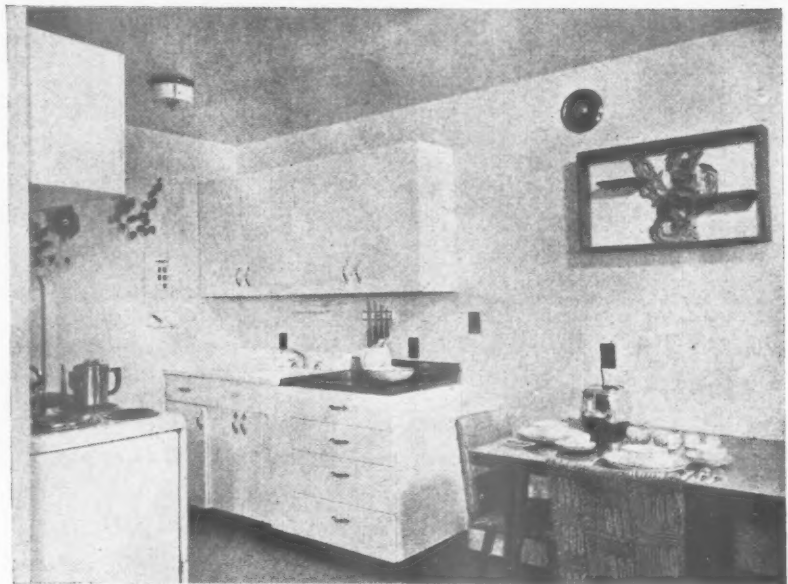
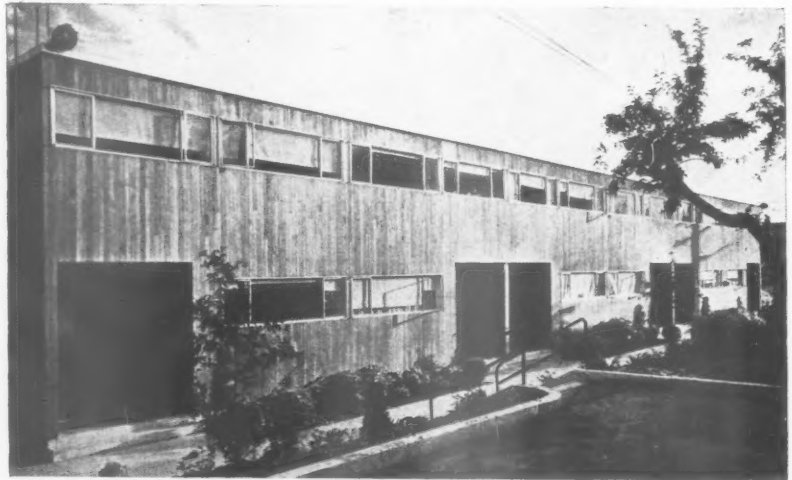
The creation of appointments as architects responsible direct to councils would, I suggest, assist considerably in raising the salaries of all local authority architects, as this creation of higher paid architectural posts could raise the level of all the more junior posts.

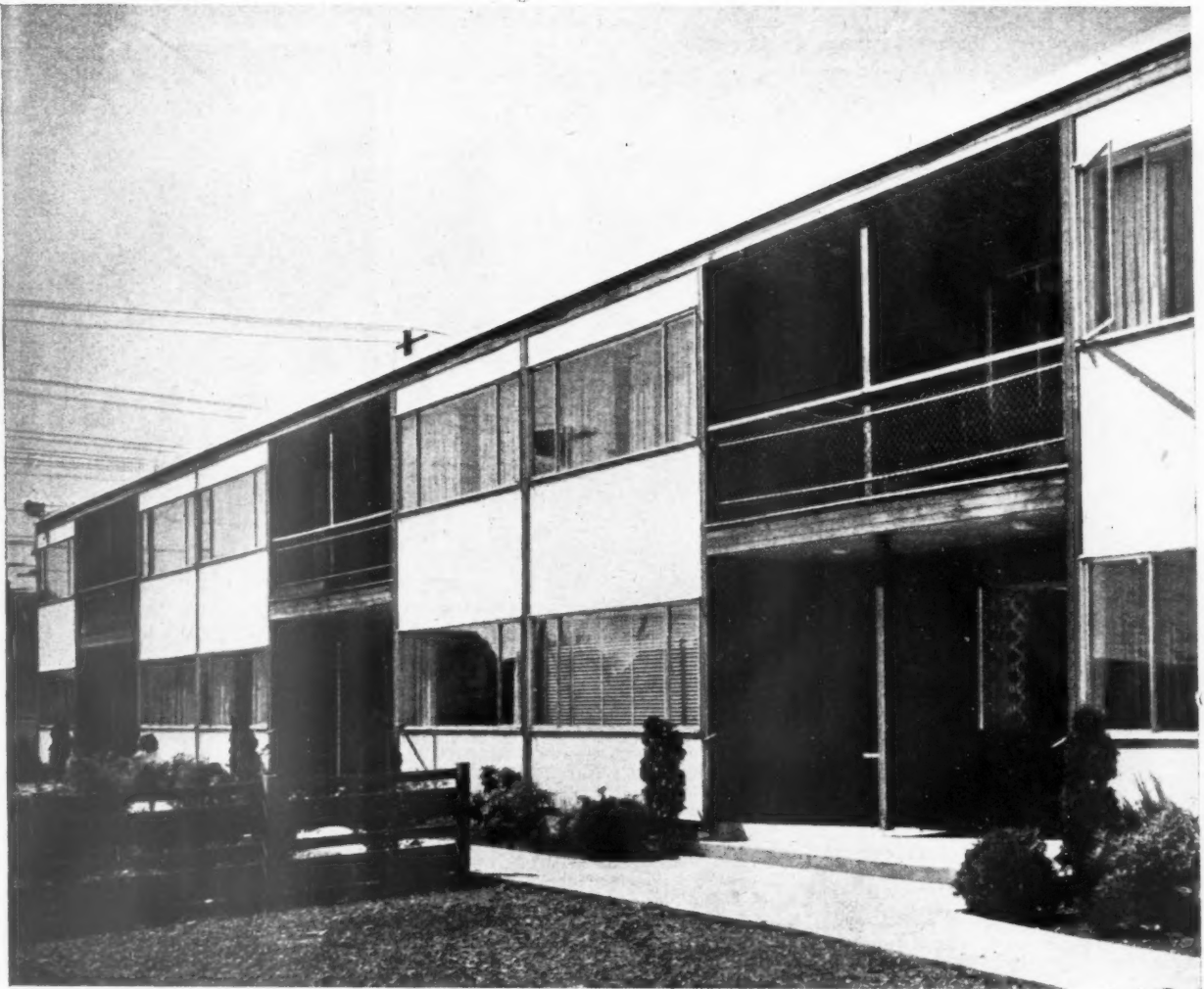
It will be said that an extra burden would be placed on the ratepayers by the creation of new departments in the local government, but this could be minimized by a pooling of the administrative staffs of allied departments and surely it is the architect's due to be paid for the work he is really doing.

At this point it might be worth mentioning that in many cases the architectural work carried out in the office of a borough engineer is attributed to the borough engineer, who may be quite incapable of designing or supervising the construction of the buildings—this I maintain is a great injustice which should be righted and could be if all authorities employed an architect as a chief officer.

"CHIEF ARCHITECTURAL ASSISTANT."

FLATS AT SEATTLE, WASHINGTON, USA





First floor and ground floor plans [Scale:  $\frac{1}{16}'' = 1' 0''$ ]

*This block of twelve flats on two floors at Seattle, Washington USA, was designed by Bassetti and Morse. Flats on the ground floor have one bedroom; those on the first floor have two bedrooms. All living rooms face south. A boiler room with an oil-fired boiler, which provides hot water and warm air to skirting convectors, a laundry and a storage room are provided in a basement at the east end. The block is faced with asbestos cement panels on the south side and stained vertical T. & G. boarding on the north side. Window sashes and the roof fascia are of aluminium. Finishes: walls are plasterboard; floors are hardwood or linoleum; ceilings are lath and plaster. Party walls are sound insulated, as is the floors dividing the two storeys. Opposite: top, the north facade (the windows, which open at the sides and are fixed in the centre, all belong to bedrooms); centre, a kitchen alcove; bottom, a living room on the first floor. Above, from the south-east. (Reproduced from Progressive Architecture, USA).*



**RFAC**

*Annual Report*

In its annual report for 1952 the RFAC has made some critical comments on the desire for monumentality in the design of office blocks, power stations and gasworks. The report states that to monumentalise them is to debase the currency of architectural values as such buildings cannot claim high significance on an emotional plane. There is a risk of making the buildings look ridiculous. The Commission believes that an office block requires a special delicacy in its architectural treatment in order to make it look as little like a "human filing cabinet" as possible. Bucklersbury House, which is to be erected in the City of London, is cited as an "acute example."

It is noted in the Commission's report that the design of power stations is improving; this, it is suggested, is due to a more general employment of architects. The Commission advises the collaboration of architects and engineers in the design of gasworks.

Other matters reported on by the Commission are the "unsympathetic" reconstruction of the upper part of the Charing Cross Hotel and the present tendency to introduce into city centres small public gardens which would be more suited to the suburbs. This type of garden, of which there are many examples in London, is unworthy of the London sites. The report refers to examples in Russell Square, Knightsbridge, and in Piccadilly and the Strand.

The Commission says it would prefer to see Temple Bar maintained in good order in its present position at Cheshunt, in Hertfordshire. If it were re-erected in London, says the Commission, it would be more of an ornament than a gateway.

**MOHLG**

*Housing Progress*

The number of permanent houses and flats completed in Great Britain during June was 26,598 as compared with 26,013 in May and 20,466 in June, 1952. In the first six months of the year 145,304 houses and flats were completed, as compared with 110,964 in the same period of 1952. This is an increase of 30.9 per cent. The number of houses and flats built for sale in the first half of this year was 25,492.

At the end of June 314,167 houses and flats were under construction as compared with 251,705 at the same time in 1952.

It is estimated that 308,000 men were being employed on the construction of permanent houses and the preparation of housing sites

at the end of June. This figure does not include men directly employed by local authorities.

**GLASGOW**

*Housing Problem*

The Corporation of Glasgow, which has built 26,000 houses since 1945, has yet to build 42,000 houses if it is to house the 100,000 applicants on its waiting list. Houses are at present being built at the rate of 4,000 a year. It is estimated that by 1957 the corporation will have to start building houses outside the city boundary as all available sites within the city will have been used.

The city architect, A. G. Jury, visualises the population of Glasgow ten years from now as being housed in 166,000 suitable houses and 160,000 unsuitable or obsolete houses within the city and 19,000 new houses outside the city. In 50 years Mr. Jury believes that Glasgow's population, estimated at 1,089,000, will be housed in 216,000 houses inside the present city boundary and 129,000 dwellings outside the city.

There are at present 168,000 houses, many of them over 100 years old, occupying only 1,810 acres within the city, at a density of 90 dwellings to the acre of which it would not be possible to retain a large number in any re-development scheme. The average density of dwellings in the city outside the acres of high density is 16 dwellings to the acre.

Glasgow is therefore faced with the problem of housing a large proportion of its population outside the city. The problems connected with rehousing are: who is to finance the building of houses outside the city boundary; who is to collect the rent and rates; and what will be the effect on the city rates of housing 650,000 in 200,000 houses as compared with the present 1,000,000 housed in 300,000 houses? The corporation will have to decide this year where it is going to build outside the city boundary. If the present rate of building is to be maintained houses built outside the city will have to be built by the corporation.

**COLONIES**

*Housing and Town Planning Advisory Panel*

The Secretary of State for the Colonies, Oliver Lyttelton, has set up a Colonial Housing and Town Planning Advisory Panel to advise the Colonial Office and Colonial Governments. The following are serving three years in an honorary capacity:—Lionel Brett, architect-planner, Hatfield New Town; Professor R. J. Gardner-Medwin, Roscoe Professor of Architecture, Liverpool University; Desmond Heap, comptroller and city solicitor to the Corporation of London; Sir George Pepler, planning adviser to the Government of Singapore; and Sir John Wrigley, Sir William Holford, Professor of Town Planning, University College, London, and G. Anthony Atkinson, Colonial Liaison Officer, BRS, and Housing Adviser to the Colonial Office, are also members of the panel.

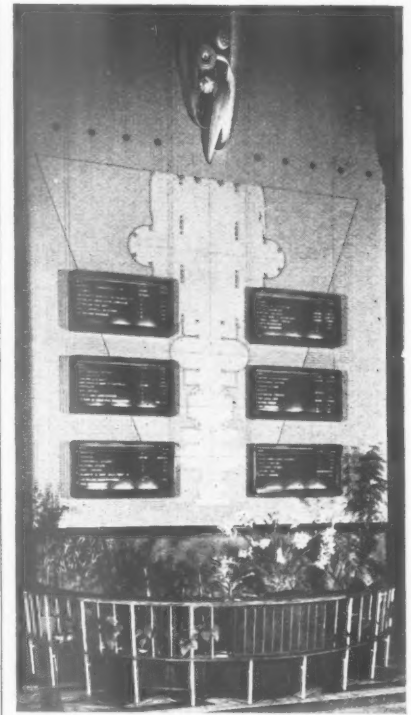
Matters which the panel discuss are decided by Sir William Holford and Mr. Atkinson, in consultation with the staff of the Colonial Office. The panel has met twice—to consider planning and housing in the Federation of Malaya and housing policy in African territories.

**RIBA**

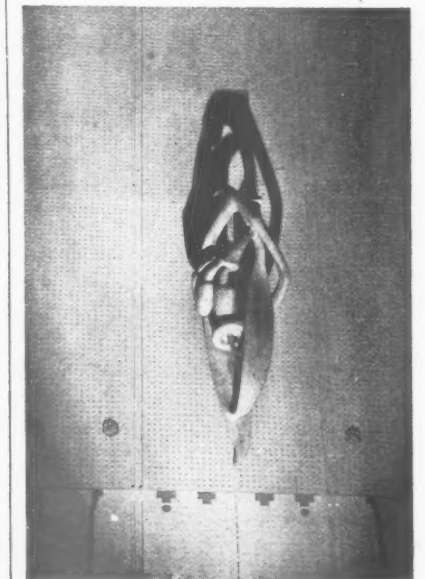
*Final Exam Results*

The RIBA final examination was held in London, Bristol, Leeds, Manchester, Newcastle, Edinburgh and Belfast from June 17

**ALTERATIONS AND**



*Australia House was originally constructed between 1914 and 1918 to the designs of Marshall Mackenzie, after a competition. It was solidly built of good materials, which have deteriorated little, but the building's services have become out of date and extensive overhaul and renewal was found to be necessary. The architects for this work were Westwood, Sons & Harrison. The building contains the main office*



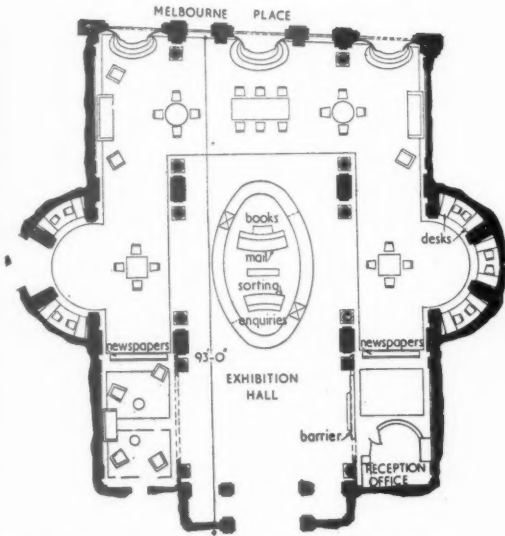
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REDECORATION AT AUSTRALIA HOUSE, ALDWYCH, LONDON, W.C. 2

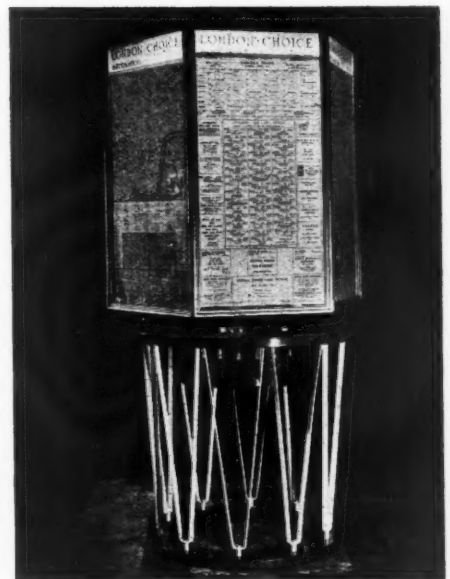


Plan of ground floor exhibition hall [Scale:  $\frac{1}{32}'' = 1'0''$



of the Australian Commonwealth and High Commissioner's department in London, as well as an exhibition hall forming an enquiry centre for Australian visitors to London. This is also used for parties and receptions for up to 1,000 people. In the lower basement there is a staff canteen. The entrance hall, opposite page, top, has flanking walls lined with fibrous plaster over insulating quilt, each decorated with a floor plan. The sculptured motifs designed by Eric Peskett are carved in London plane. In the hall is an elliptical counter, seen above, constructed so that it can be easily divided into sections and moved on castors and used for bars and cloakroom counters at receptions. Over this hang cold

cathode tubes in a light alloy frame, with sheet metal baffles between each set of tubes. The fitting can be lowered for servicing or raised during receptions by a hand winch in a room above the hall. Below, left, is the reception office in the corner of the exhibition hall, and below is the specially designed information stand. Consultants for electrical, heating and engineering works were A. F. Myers & Partners. Quantity Surveyors, Leon and Westwood. The general contractors were Leslie Bilsby, Ltd. Sub-contractors, page 214.



to 26. Of the 448 candidates who took the final examination, 116 passed the whole examination and 25 passed subject to approval of thesis, 35 passed part one and 1 passed part two, subject to the approval of thesis. This compares with 438 who took the examination last December, of which a total of 99 passed the whole examination.

The special final examination was held at the same centres from June 17 to 26. Of the 347 candidates examined, 79 passed the whole examination, 19 passed part one and 1 passed part two. This compared with 94 passes out of 339 candidates in December, 1952.

### President's reply to Mr. Marples' Criticis

A. E. Marples, Parliamentary Secretary to the MOHLG, said recently that architects had generally failed to grasp what few opportunities they had been given since the war. Aesthetically, said Mr. Marples, they had not been bold or convincing, and financially their creations had been too costly. He suggested that they should widen their outlook and have more joint ventures with builders, and that old out-moded professional conventions should be abandoned and design and construction "increased."

Howard Robertson, president of the RIBA, in a letter to *The Observer*, stated that these sweeping denigrations reflected unjustly on architects, who had struggled against the difficulties of controls and restrictions, red tape and shifting standards, often fixed by authorities and government departments. The high cost of building was not due to inefficiency in "design married to construction," nor could bolder convincing buildings be readily created with second-rate or substitute materials under low-cost ceilings and other restrictions. The RIBA would always be willing to discuss with Mr. Marples any suggestions concerning "joint ventures" by architects and builders and the means by which architects could abandon "their outmoded professional conventions."

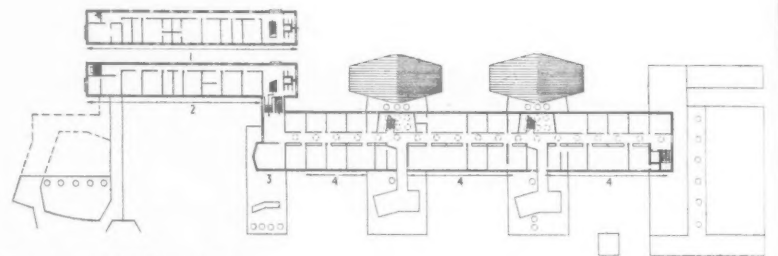
Nigel Fisher, M.P., in another letter to *The Observer*, said that the social, economic and architectural failure of the new towns, a criticism made by J. M. Richards in the July issue of the *Architectural Review*, was due not to individual architects, but to the procedure under which they had to work. Mr. Fisher thought it absurd that architects were not allowed to become directors on the boards of building companies, as in no other industry was the divorce of design and execution so complete.

### BRITISH COUNCIL Visit of Italian Town Planners

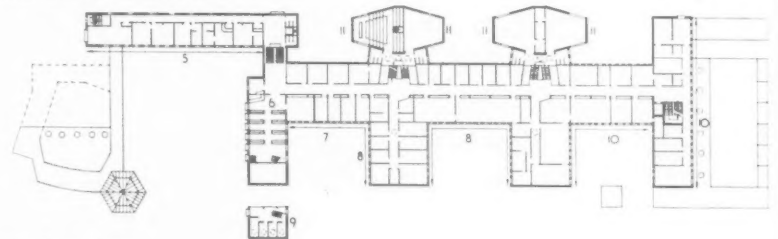
Eight town planners from Ivrea in northern Italy, led by Dr. Carlo Daglio, town planning officer of Ivrea, are on a ten-day visit to this country. They are working on a regional plan for the Canavese, the area round Ivrea and they are here to study related problems. They have visited the MOHLG, Oxford (a city with the same problems as their own), Welwyn Garden City, Harlow New Town, Coventry, Birmingham, Manchester and Wythenshawe. Before returning to Italy on August 16 they will visit East Kilbride and Edinburgh. The visit has been financed by Ing. Olivetti, president of the Italian Town Planning Institute, and an industrialist with a factory in Ivrea. The itinerary has been arranged by the British Council.

## PROPOSED EDINBURGH AND

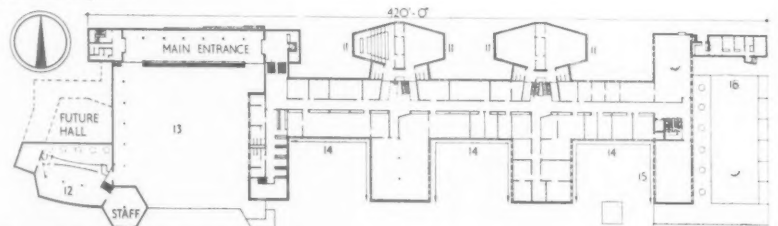
For many years Edinburgh University has been contemplating the removal of its College of Agriculture from its present congested quarters in George Square to an open site at its "Kings Buildings" development to the south of the city. The proposed extension of the Medical School involves the demolition of the present College of Agriculture. A. Reiach and R. Cowan, were commissioned in 1949 to prepare plans for the new College, which early in 1950 were approved by the University. As a result of cuts in government expenditure, the present scheme, as illustrated on this page and opposite, was not finally evolved until 1951, when Treasury approval was granted in principle. Later all work had to be postponed in view of government policy and at present the project is still in abeyance. The perspective views opposite are: top, a "bird's eye" view from the south-west; centre, the forecourt with the administrative block on the right, from the east; bottom, the 4-storey block and lecture theatres from the north. The site is open and slopes gently towards the south and east. On the south it overlooks a golf course and there are fine views of the Braid



Second and third floor plans



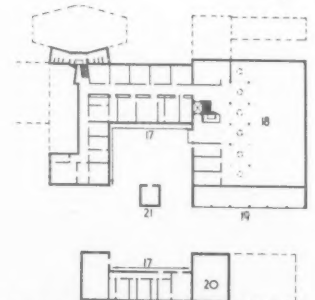
First floor plans



Ground floor plan [Scale: 1 1/2" = 1' 0"]

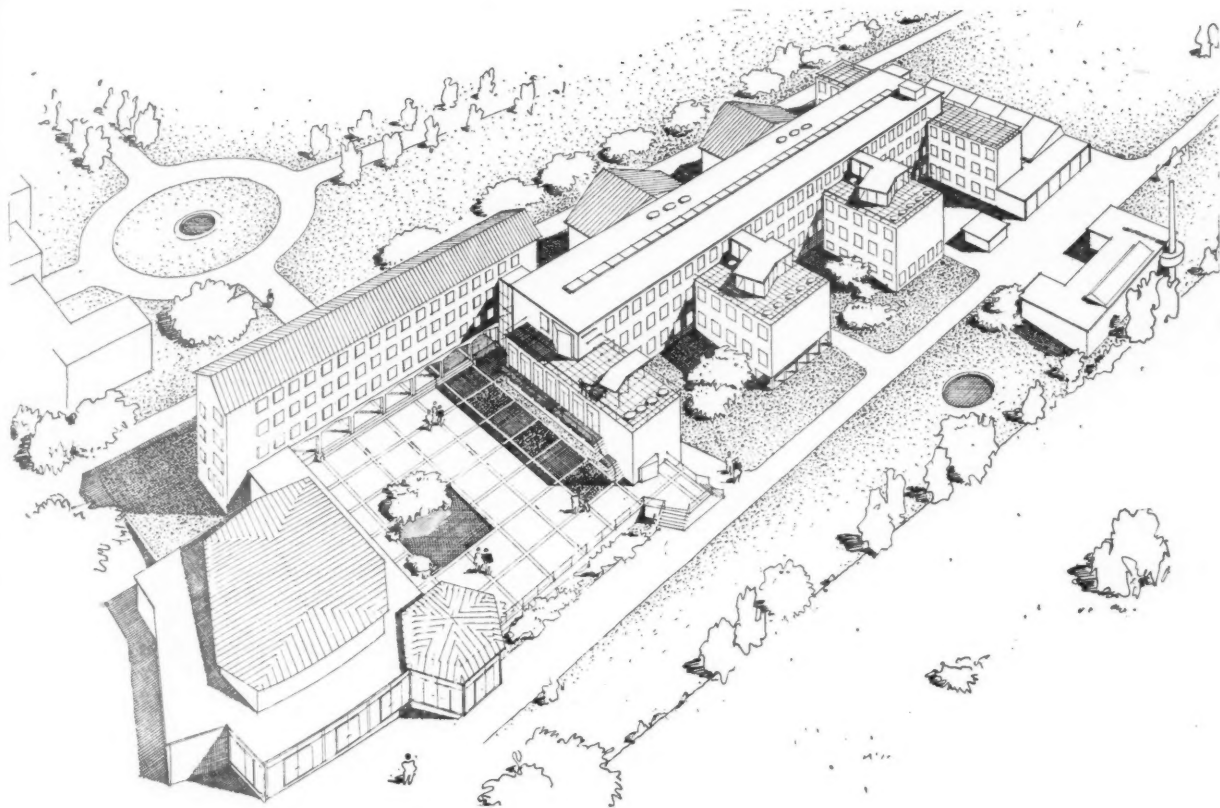
KEY

- |                          |                             |
|--------------------------|-----------------------------|
| 1. Administrative staff. | 12. Canteen.                |
| 2. Advisory Economics.   | 13. Forecourt.              |
| 3. Staff Common Room.    | 14. Chemistry.              |
| 4. Botany.               | 15. Engineering Laboratory. |
| 5. Administration.       | 16. Caretaker's House.      |
| 6. Library.              | 17. Veterinary Services.    |
| 7. Applied Agriculture.  | 18. Engineering Workshops.  |
| 8. Bacteriology.         | 19. Garages.                |
| 9. Mezzanine Floor.      | 20. Boiler House.           |
| 10. Zoology.             | 21. Fireproof Room.         |
| 11. Lecture Theatre.     |                             |

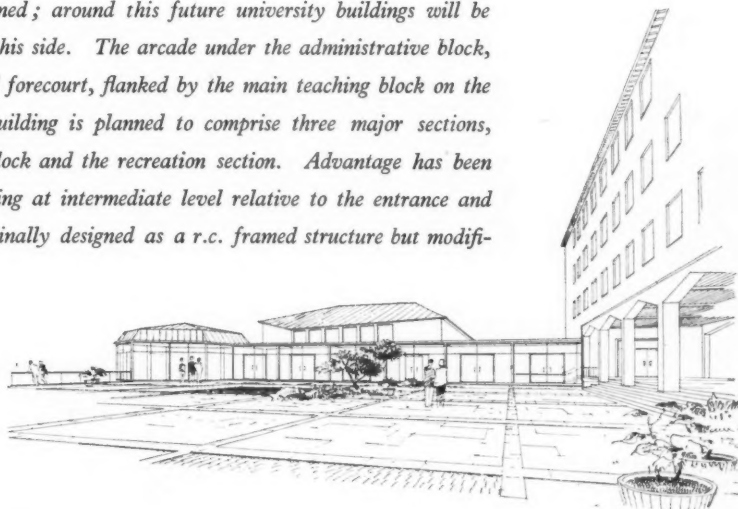


Lower ground floor and boiler house plans

## EAST OF SCOTLAND COLLEGE OF AGRICULTURE



and Pentland Hills. On the north a campus is planned; around this future university buildings will be grouped. The main approach to the site is from this side. The arcade under the administrative block, which forms the main entrance, opens on to a paved forecourt, flanked by the main teaching block on the east and the recreation block on the west. The building is planned to comprise three major sections, the teaching and research wing, the administrative block and the recreation section. Advantage has been taken of the fall of ground to place the teaching wing at intermediate level relative to the entrance and administrative block floors. The building was originally designed as a r.c. framed structure but modifications have been made. In order to save steel, a system of solid piers in calculated brickwork and cast in situ floors has been evolved with the help of the BRS. The cost, at 1951 prices, was estimated to be £350,000, not including equipment.



Since 1950 the Minister of Housing and Local Government has given annual awards of housing medals for the best designed local authority schemes. As readers may know, it is intended that awards should be made for schemes in which compact planning and economical and efficient construction are allied to good layout, grouping and landscaping, and in which attention has been paid to the economical use of land and services. In this article Fello Atkinson discusses the MOHLG medal scheme, and refers particularly to the housing which received the 1952 awards.

## HOUSING AWARDS

By Fello Atkinson

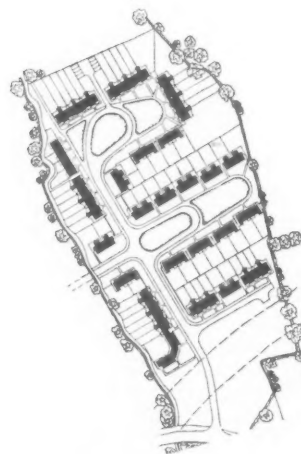
This year 294 housing schemes were submitted for the MOHLG award; 22 awards were made. Glancing through these schemes (illustrated on these pages) one is overwhelmed with depression. Just when there are signs that the years of austerity and planning are showing some return, it is unfortunate that some of these schemes are considered worthy of official approval and are thus offered as examples to other local authorities. Are we really satisfied with such standards?

The last time the JOURNAL commented on the annual housing awards was on December 21, 1950. Even allowing for the fact that the awards were then made for work completed in the five years since the war (not just one year), it is obvious that the standard has fallen considerably in three years. In desperation one looks round for someone to blame for this. I noticed recently that Mr. Marples, the Parliamentary Secretary to the MOHLG, has suggested that architects have failed to grasp what few opportunities they have had since the war. They had not been bold or convincing, he said, and financially their creations had been too costly. What we needed were clean, simple and attractive buildings which could not only be built quickly and cheaply, but could also be maintained at low cost.

As a profession we are advised to re-orient our outlook and design for a

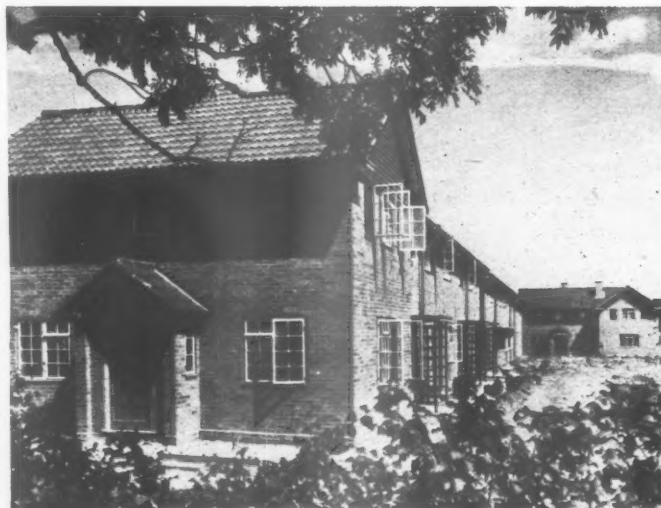
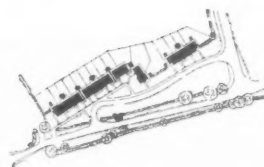


**EPPING RDC**  
housing at HARLOW  
designed by R. O. FOSTER



Each site plan in this feature is placed so that north lies towards the top of the page.

**EAST HAM CBC**  
housing at BRENTWOOD  
designed by A. W. WALLS



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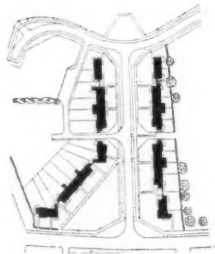
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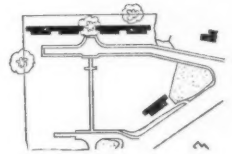
**HELMSLEY RDC**

housing at HELMSLEY  
designed by NEEDHAM, THORP  
and WHITE



**WETHERBY RDC**

housing at NORTH RIGTON  
designed by W. A. JONES



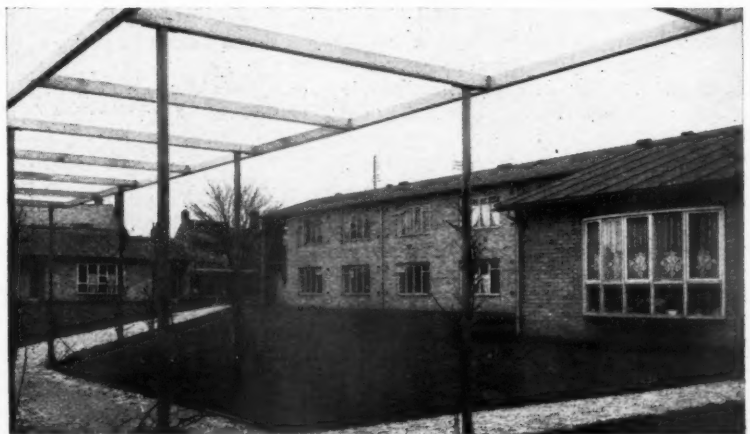
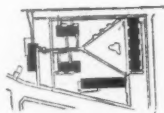
**HIGHAM FERRERS BC**

housing at HIGHAM FERRERS  
designed by GOTCH, SAUNDERS and  
SURRIDGE



**COVENTRY CC**

housing at SPON END  
designed by D. E. E. GIBSON



country no longer rich. While allowing for the fact that Mr. Marples was speaking primarily as a politician and that much of what he said could be discounted as rhetoric, one must remember that he was a very efficient builder and knows what he is talking about. Much of the failure—though I am not certain whether failure in these matters means the same to me as to Mr. Marples—*does* lie with architects. And much of it lies with local authorities, builders and housing ministers. The truth of the matter (and it is a painful truth) is that the politicians want as many houses with as little increase in taxes as possible, and this is inconsistent with boldness, attractiveness and, above all, architectural distinction. The architect (and minister) might be able to do something good within the framework of cost and quantity if it were not for lack of certainty of long-term availability of materials, antiquated building codes and possibly restrictive practices. One is tempted to say that a country no longer rich should not build housing as a priority. That, of course, would be ridiculous; yet we should be careful, for political expediency, not to involve ourselves in a burden of long-term expenditure for what may possibly be a short-term need. The tragedy of our overcrowded country is that wherever one builds, even if one builds very well, one tends to hurt it.

If we build badly we destroy it. If we build in towns it is nearly always at the cost of existing older buildings. If we build in rural areas, we do so at the cost of what little country is left. It is difficult to think of any town in England which has been enhanced by new development in the last thirty years. And there are scores of towns in this country, with their centres torn out by the war, which are ruined and rotting while their outskirts are being choked by new development at enormous future maintenance cost to the community in the way of extended services.

We create minimum standards and by one means and another these become maximum standards as well. So the process is a costly one of constantly pushing up the minimum. The same thing, it would appear, applies in terms not only of cost but also of layout. Those little patches of grass, those dwarf rubble concrete walls, this endless semi-detachment, this lack of constriction which makes a big city development like Liverpool look much the same as Chipping Campden; these are not the desired ideals of wise men but the inevitable result of straitjacket requirements. Garnish with herbs and spices as you will, but if the same meat is put through the same sausage machine the sausages will be roughly alike, whether they are made in East London or in the Yorkshire dales.

Most of the schemes are quite presentable as far as they go, which is

**BRACKLEY RDC**

housing at MORETON PINKNEY

designed by G. F. LAWSON



**MAELOR RDC**

housing at HALGHTON

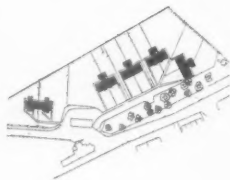
designed by H. A. CLARK, F. C. ROBERTS and PARTNERS



**EAST ASHFORD RDC**

housing at CHILHAM

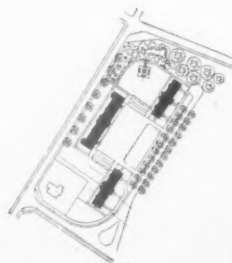
designed by JACKSON and JACKSON



**WINDSOR RDC**

housing at SUNNINGHILL

designed by SAINSBURY and CHAMBERLAIN



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not much farther than many a good pre-war speculative housing scheme. Some are admirable. One seldom fails to be impressed—even thrilled—by Powell and Moya's Pimlico scheme. Hatfield, too, if over full of devices of too many types going in too many different directions, has charm and, at least, the prospect of urbanity. But look for a moment at some of the names in this year's list: Coventry, Peterlee, Harlow—evocative names. Coventry: those dreadful nights in the autumn of 1940. But Coventry in ruins had a plan and Donald Gibson—the future glowed with promise. Peterlee (Lubetkin's master plan)—that bright star in the New Town constellation, the only one to be called into being by the will of its own region. What has happened to those youthful promises? They obviously died somewhere along the line. Yet as compensation there is the occasionally unexpected, such as Crawley's Northgate, which has the merits of cohesion and neatness.

One of the most noticeable things about the 1952 housing schemes is that there seems little to distinguish rural from urban schemes, except size. And if this may be largely due to a lack of urbanity in town development, there would also appear to be a lack of rusticity, a trend towards urban gentility, in the country. The flat schemes appear not only architecturally more distinguished but more liveable-in and cheerful. (But maybe the scale of fees on flats allows architects to be more extravagant in photography.)

Both the Abingdon and the Bath schemes have been related to their surroundings. Whereas at Bath this has resulted in interesting planning and grouping, at Abingdon it seems that certain planning and even formal sacrifices have had to be made.

At Friern Barnet formal unity has been obtained, in spite of the awkward site.

On a much larger scale, at Churchill Gardens, Westminster, this formal unity has been maintained wonderfully, in spite of great variation of block sizes and their proximity.

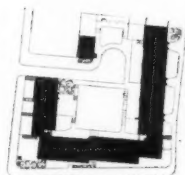
On the other hand, at Hatfield deliberate variety, almost picturesque informality, seems to have been aimed at both in house types and layout, and though this has resulted in some of the most charming groups to be found in the New Towns, it also results in incoherence and, without planning, even chaos.

The Thorntree Gill Estate, at Peterlee, seen from plan and photographs, falls heavily from grace. The very awkward road junction is not helped visually by the setting back of all the buildings around it, except one rather curiously decorated shop, which leaves a

*Continued on p. 206*

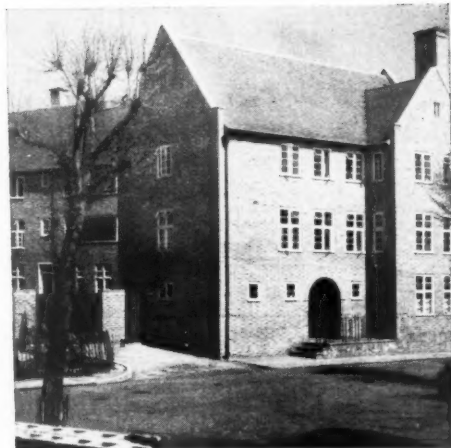
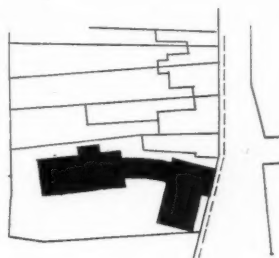
**BATH CC**

flats at JULIAN ROAD  
designed by H. D. ROBERTS



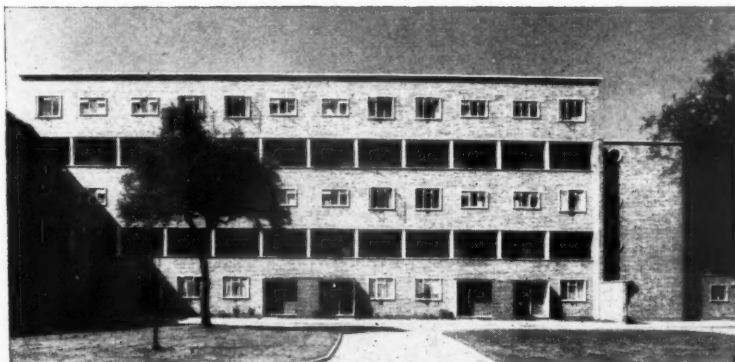
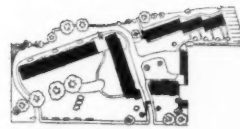
**ABINGDON BC**

flats at THAMES STREET  
designed by F. R. COX



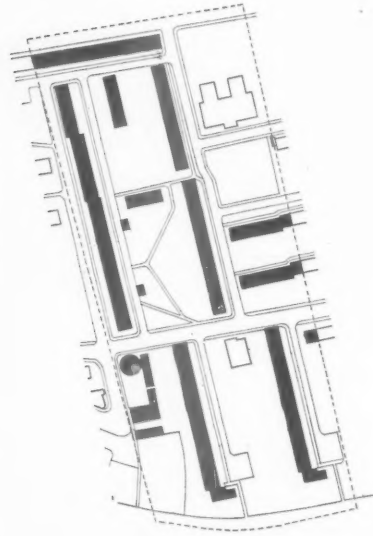
**FRIERN BARNET UDC**

flats and housing at FRIERN BARNET  
designed by K. R. SMITH





**WESTMINSTER CC**  
flats at PIMLICO  
designed by POWELL and MOYA



**HATFIELD DC**  
flats and housing at HATFIELD  
designed by L. BRETT and K. BOYD



**PETERLEE DC**  
flats and houses at PETERLEE  
designed by W. J. SCOTT



LIVE  
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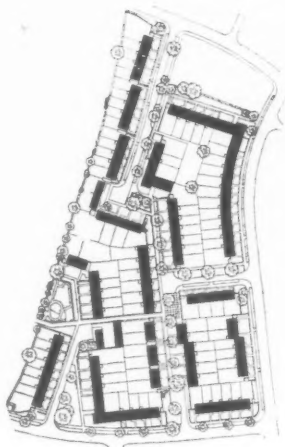
**LIVERPOOL CC**

housing at KIRBY ESTATE  
designed by R. BRADBURY



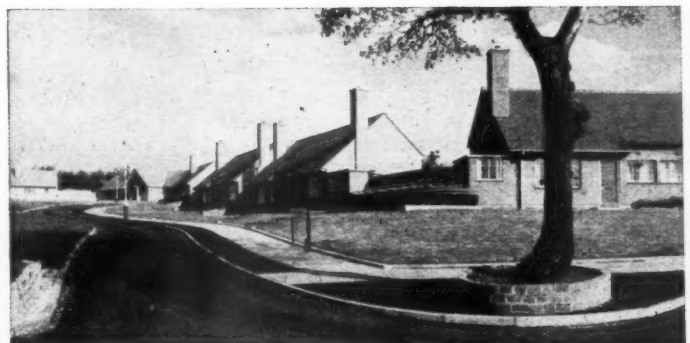
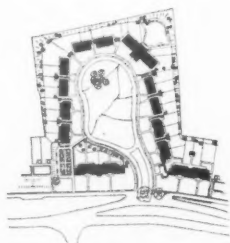
**CRAWLEY DC**

housing at NORTHGATE  
designed by A. G. SHEPPARD FIDLER



**BIRMINGHAM CC**

housing at HARBORNE  
designed by D. O. H. DAVIES



sort of municipal engineer's No Man's Land in the middle.

Both Kirby Estate, Liverpool, and Northgate, Crawley, have been spared awkward corners, unresolved if revealing views of backyards, badly shaped gardens and awkward road junctions. If they are not distinctive, they are at least neat.

Few of the urban layouts give any impression of compactness, and Toronto Gardens, Birmingham, goes to the other extreme. This almost atomic dispersal results, I think, from bungalows being laid out as if they were two-storey buildings. I cannot help feeling that a whole scheme of one-storey buildings is likely to be dull anyhow; with great margins of poor grass (mud in winter) and with no trees, it may be thoroughly depressing.

I am at a loss to find any distinction in Toronto Place, Swansea. There must be something in a name after all that it should conjure up this very North American low-density growth.

The rural schemes are, on the whole, the least interesting. Some of them consist surprisingly of only a few houses, hardly worthy of the name "scheme." I say surprisingly, because I am aware of some very fine rural housing schemes throughout the country which are both distinguished and extensive.

It is a relief to find local authorities using local stone as at Chipping Campden. I am no sentimentalist in these matters, but one does get weary of the endless and not very pleasant texture and colour of our standard mass bricks. When there are so many complaints that there is a shortage of bricks and that quarries are being closed down, it would need only a little monetary imagination somewhere to do everyone a little good.

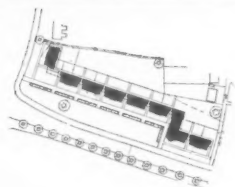
These awards give a false picture. We are a democracy and of course it would be improper to give awards only to the best schemes in the country. There are eleven regions and two medals are given for each region; one for rural and one for urban housing (London, being wholly urban, is given two awards, one for schemes with a density of over 100 persons per acre, and one for schemes of lower densities. Furthermore, the last awards were given only for schemes completed during 1952, so there is considerable dilution of possible quality before one begins. It is also true to say that not all local authorities—including many of the more enterprising—choose to compete for the awards. Indeed, many of the best schemes which are planned to be finished over a number of years are unlikely to be submitted just because their authors feel rightly that they are not complete. Yet the fact remains that these awards, with all the Press campaigning and fanfares, do confer honour and should not be won cheaply.



**SWANSEA CBC**

housing at PENLAN

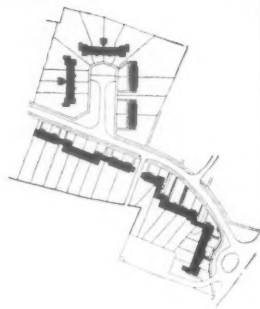
designed by H. T. WYKES



**NORTH COTSWOLD RDC**

housing at CHIPPING CAMDEN

designed by T. R. BATEMAN



**ULVERSTON RDC**

housing at HAWKSHEAD

designed by H. NICHOLSON



## TECHNICAL SECTION

In Information Centre item 18.126 : 18.6.53, an abstract of *Combustible Linings in Dwelling Houses* (publication No. 16 of the Fire Protection Association), Specialist Editor No. 12 suggested that the publication should have mentioned the type of finish used in the test house, since this was "of some importance."

The Joint Fire Research Organization (who carried out the test described in the FPA publication) has now kindly sent us the following information: the boards with which the house was lined were decorated with a normal finish of oil-bound distemper. The Organization states that, under conditions similar to those of the experiment, "the type of decoration would be unlikely to influence greatly the *course* of a fire," but that "some forms of wall decoration, and most of the specifically fire-retardant treatments, will prevent direct ignition by a small source of heat and, in a well-ventilated room, will delay the development of a fire *in the early, and critical, stages.*"

The Organization has carried out recently a series of experiments in order to compare the behaviour of various surface finishes under actual fire conditions with the results obtained from the spread-of-flame test laid down in BS 476.\* Full details of these experiments will be published shortly by the Organization. Four more Information Centre items dealing with various aspects of fire hazard and fire protection appear on pages 211 and 213.

\* Definitions for fire-resistance, incombustibility and non-inflammability of building materials and structures (including methods of test). (BSI, 1932, 2s. 6d.)

This week's survey

### 22 SOUND INSULATION AND ACOUSTICS international electro-acoustics conference

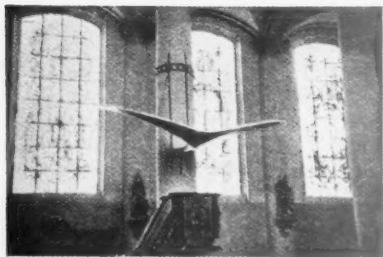
The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

*Over 300 scientists, architects and engineers from 18 countries attended the recent International Electro-Acoustics Congress, held in Holland. Although many of the papers presented were highly technical, those on public address systems and on sound insulation are of particular interest to architects. Specialist Editor No. 15 (Sound Insulation and Acoustics), who attended the congress and whose report appears below, says that the material contained in these papers "will open up the way towards new and better techniques in architectural acoustics."*

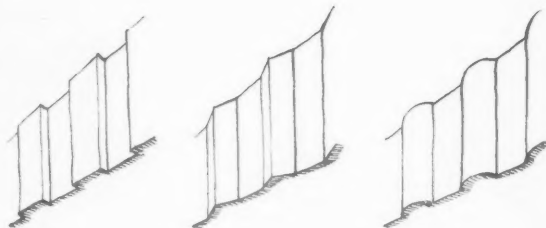
Room acoustics were mentioned in several of the papers at the International Electro-Acoustics Conference. F. W. J. Schweigman (Netherlands) described a method of designing sound-reflecting surfaces for churches in the form of canopies. These can help to make the preacher readily audible to a larger proportion of the congregation.

Mr. Schweigman demonstrated that, in theory, it would be possible, by means of such reflecting surfaces, to make a speaker intelligible to an audience of up to 2,700 persons, without resorting to a sound reinforcement system.

Although this figure would be difficult to achieve in practice, there is no doubt that considerable improvements can be



Left, Fig. 1, sound reflector over pulpit of church at Bergen op Zoom. Right, Fig. 2, three types of diffusing surface—rectangular, triangular and poly-cylindrical.



achieved by using sound reflectors based on Schweigman's designs. It will be seen from Fig. 1 (a church at Bergen op Zoom) that the canopy can be quite attractive in appearance.

In his paper on the design of sound recording studios, W. Furrer (Switzerland) described new methods of measuring sound diffusion. Although measuring techniques are not the concern of the designer, Mr. Furrer's remarks helped to emphasize the importance of achieving adequate diffusion—or a homogeneous field of sound—in studios, and, for that matter, in any auditorium.

The usual method of obtaining diffusion is to provide irregular surfaces wherever possible. There has been considerable discussion, however, as to what shape and size the irregularities should be in order to give the best results. P. V. Brüel (Denmark) described tests he had made on three types of diffusing elements (rectangular,

triangular and poly-cylindrical, see Fig. 2), which indicated that rectangular shapes are best and triangular shapes least effective. Irregularities should project at least 6 in. and should be at least 2 ft. wide or high. These figures are minima and could well be increased for large rooms or auditoria.

#### SIMULATED ECHOES

The use of "simulated echoes" was described by H. S. Knowles (USA). The use of supplementary loudspeakers has been shown to produce in an outdoor auditorium acoustical effects similar to those normally obtained indoors. The use of simulated echoes indoors was demonstrated, during the course of the Conference, at the works of Messrs. Philips of Eindhoven. Recordings of orchestral and choral works were played in an acoustically "dead" studio, but the audience received the impression that it was hearing them in the large concert hall in which they were originally performed.

This effect was achieved partly by the use of "stereophonic" sound (*i.e.*, the use of two channels of recording and reproduction in order to approach more closely the normal process of hearing with two ears) and partly by the use of a number of loudspeakers distributed about the studio, the sound from which was "delayed," according to their distance from the main loudspeakers at the stage end of the room, so as to reach the ear *after* the sound from the main speakers and thus to increase the apparent reverberation time.

Further development of the use of simulated echoes and the use of the Haas effect (slight delays so that sound from nearby loudspeakers reaches the ear at the same time as, or slightly after, sound from the source) may solve the problem of the multi-purpose hall. Normally, if the hall is good for speech, the reverberation time is too short for good musical performance;

whereas, if the reverberation time is long enough to give good musical performance, speech becomes muffled. A delay system which would produce simulated echoes during musical performances and, by means of a simple switch arrangement, the Haas effect for speech would be an excellent installation for multi-purpose halls. But the use of such an arrangement would mean that more halls would have to be designed to provide a satisfactory environment for reproduced sound, rather than *natural* sound, *i.e.*, acoustical conditions similar to those required in cinemas.

#### PUBLIC ADDRESS SYSTEMS

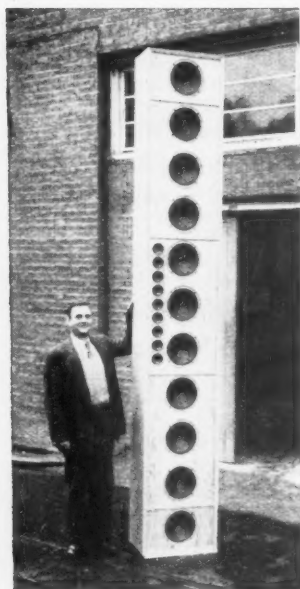
P. Arni (Finland) described the public address system used at the Helsinki Olympic Games. Experiences there showed that both single- and multi-source (distributed) loudspeakers can give satisfactory results out of doors. Columns of loudspeakers (*i.e.*, line sources of sound) were also used and found satisfactory.

The large flat surfaces of the score boards caused annoying echoes at certain areas of the seating. These were overcome, however, by tilting the lines of lettering slightly, and by perforating the board with  $\frac{3}{8}$ -in. holes at  $\frac{3}{4}$ -in. pitch. This modified score board was almost "transparent" to sound and caused no echoes.

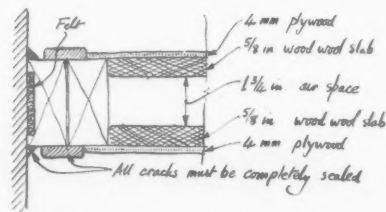
The large hall used for the tennis contests was found to have a very long reverberation time—approx. 4.4 secs., when full. In spite of this, satisfactory speech reinforcement was produced by means of line sources.

P. H. Parkin (UK) described the speech reinforcement system in St. Paul's Cathedral, where loudspeaker columns and the use of the Haas effect now provide maximum intelligibility and realism. The delays are arranged so that the listener, wherever he is, always hears the sound from the loudspeakers slightly after the direct sound from the preacher. The listener gets the impression, however, that *all* the sound he hears comes from the preacher, even when most of it comes from a loudspeaker and from a different direction from the direct source.

There seems little doubt that the column type of loudspeaker (an example of which is shown in Fig. 3) will be used a great deal in the future, and architects should consider, therefore,



Above, Fig. 3, one of the loud-speaker "columns" used in St. Paul's Cathedral. The unit is installed vertically. (Photo by permission of the Director of Building Research, BRS). Right, Fig. 4, lightweight, demountable partition (4.6 lb./sq.ft.); thickness,  $3\frac{1}{4}$  in.; average insulation value, 37.5 db.





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**WORKING DETAIL**

LAYLIGHT CEILING: SHOP IN LONDON, W.1

*Chamberlin, Powell and Bon, architects ; Robert Ashdown, assistant-in-charge*

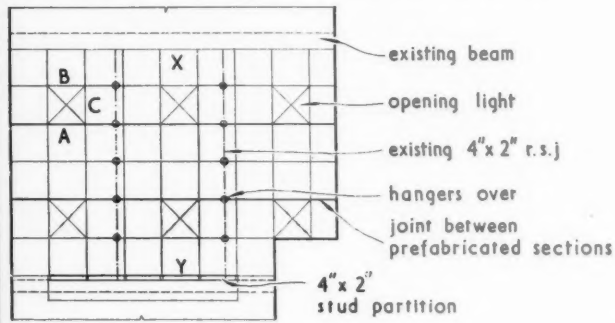


*Three prefabricated panels form the laylight in which special diffusing glass is used.*

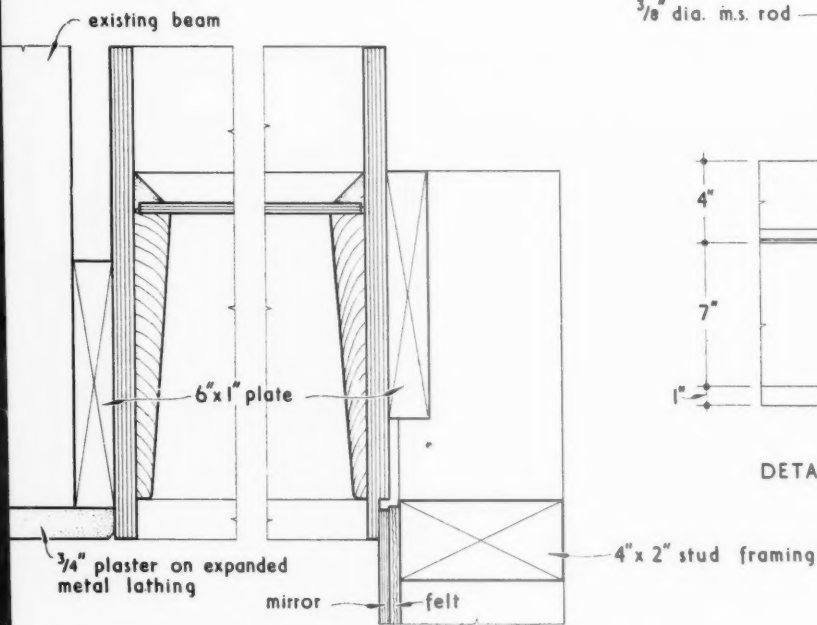
**WORKING DETAIL**

LAYLIGHT CEILING: SHOP IN LONDON, W.1

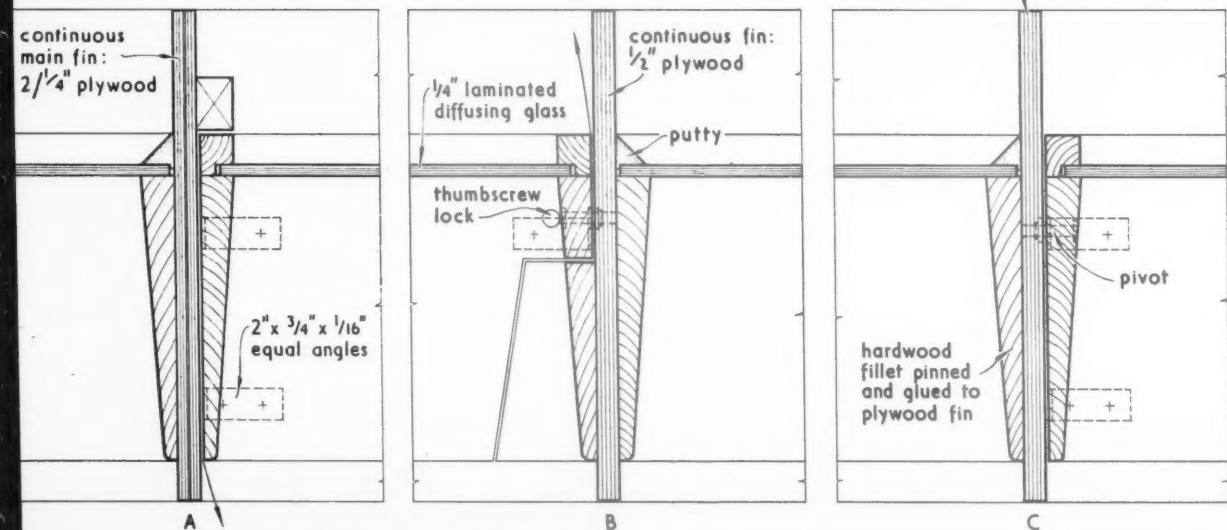
Chamberlin, Powell and Bon, architects ; Robert Ashdown, assistant-in-charge



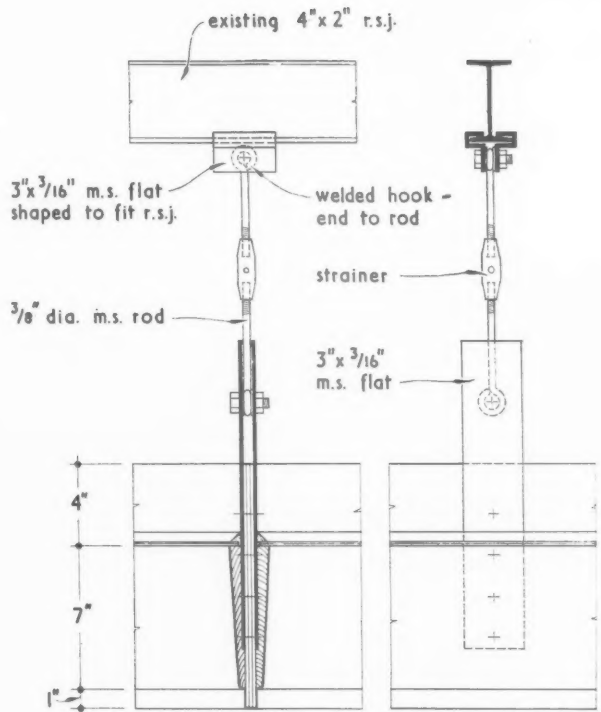
PLAN OF CEILING. scale 1/16" = 1'-0"



DETAILS AT X AND Y. scale 1/4 full size



DETAILS OF OPENING LIGHT. scale 1/4 full size



DETAILS OF HANGER. scale 1/2" = 1'-0"

**WORKING DETAIL**

**COVERED WAYS AND CANOPIES : 8**

CONNECTING BRIDGE : POLYTECHNIC IN LONDON, S.E.1

*Norman and Dawbarn, architects ; Jchn Moreton and Peter Clark, assistants-in-charge ; Travers Morgan and Partners, consulting engineers*



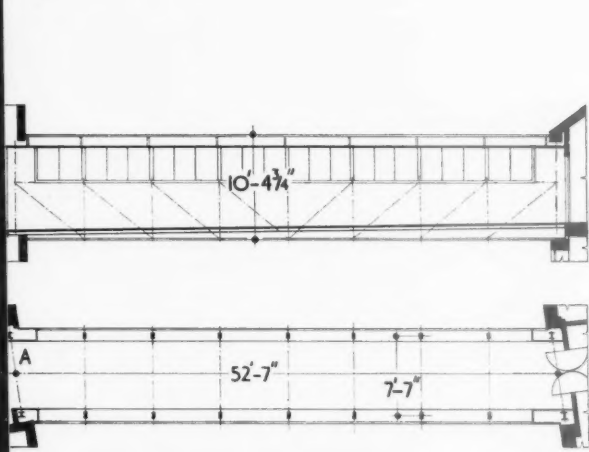
*The aluminium cladding conceals the steel structure of the bridge and the sloping floor between the old and new buildings.*

**WORKING DETAIL**

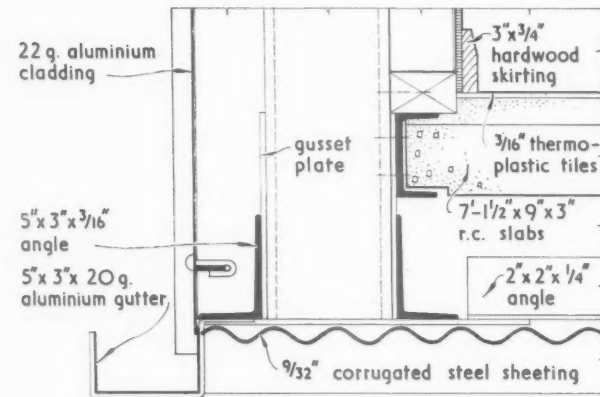
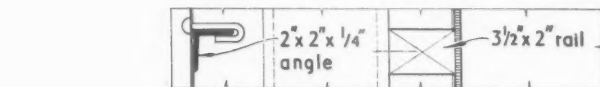
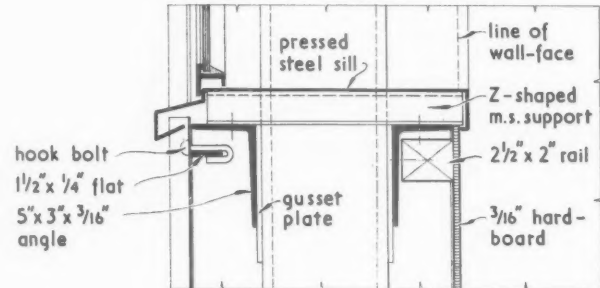
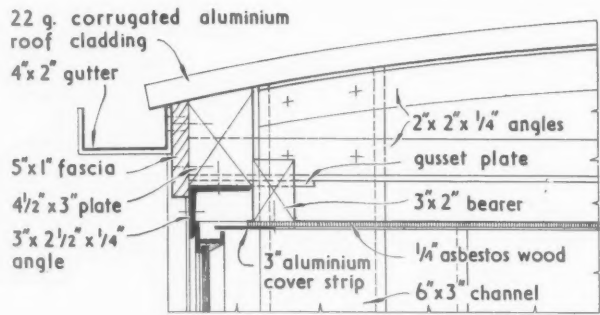
**COVERED WAYS AND CANOPIES : 8**

CONNECTING BRIDGE : POLYTECHNIC IN LONDON, S.E.1

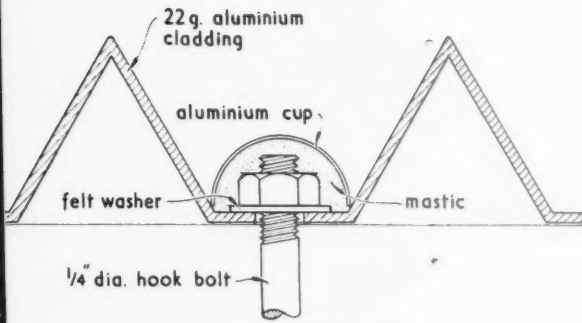
Norman and Dawbarn, architects ; John Moreton and Peter Clark, assistants-in-charge ; Travers Morgan and Partners, consulting engineers



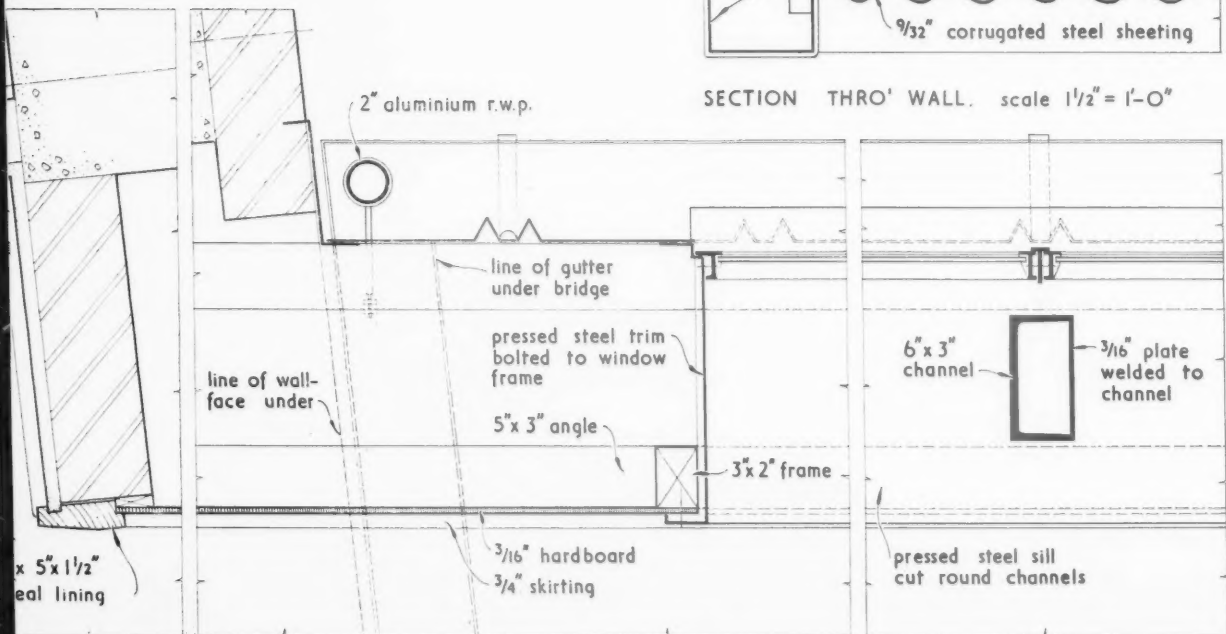
PLAN AND SECTION OF BRIDGE. scale 1/16" = 1'-0"



SECTION THRO' WALL. scale 1/2" = 1'-0"



FIXING OF CLADDING. scale full size



PLAN AT A. scale 1/2" = 1'-0"







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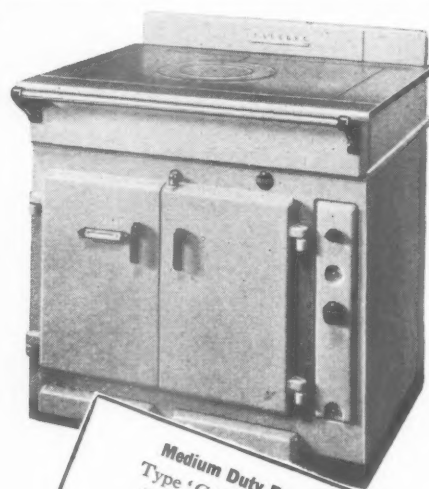


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how it can best be integrated into the design of auditoria.

SOUND INSULATION

The aim in the section of the conference dealing with sound insulation was to discover whether there is any method whereby the sound insulation of light-weight structures may be increased by some 10 or 20 lb. above the value given by the "mass law." That this can, in fact, be done, is of the greatest importance to architects. (Most of the experiments described by speakers in this section related to structures with a maximum weight of about 20 lb./sq. ft.)

C. W. Koster (Netherlands) pointed out that, as a result of recent work, it was now known that insulation depends not only on the mass of the structure, but also, to some degree, on flexural stiffness, damping, and the conditions of edge fixing. It is known that the mathematical theory of sound transmission cannot account for the results of certain experiments, and L. Cremer (Germany) showed that this is partly due to the loss of insulation caused by the exact coincidence of the air sound waves which impinge on the wall with the bending waves which are created in the wall by the sound pressure. (The dimension of the bending waves depends on the stiffness of the wall.) In theory, when the two types of wave exactly coincide, transmission through the wall is complete, i.e., there is no insulation.

Fortunately, for a number of reasons, the loss in insulation is not quite so severe in practice, but the effect of the coincidence does account for a marked dip in the insulation curve. For example, three experimental walls of the same weight were tested. The first, being made of rubber, was not stiff, and there was no "coincidence dip" in the insulation curve. The second and third, being made respectively of steel and concrete, produced the dip.

Measurements made on a partition, as shown in Fig. 4, having a weight of about 4.6 lb./sq. ft., showed it to have an insulation value of 37.5 db., as compared with 29.5 db. which would have

been expected from the mass/insulation curve.

In papers by A. Schock (Germany) and L. Cremer (Germany), the theoretical considerations were amplified, and it was shown that the critical coincidence frequency for a given walling material depends on its stiffness, being lowest for stiff materials. It is well known that the insulation value of any wall rises with frequency. It is important, therefore, to use a material that is not too stiff, so that the insulation loss due to coincidence occurs at a high frequency, over, say, 3,000 c.p.s., where the lack of insulation is least important. A useful rough guide to the desirable stiffness of materials was given by Cremer. If a sample of the material to be used sags, under its own weight, not less than 3 1/4 in. when supported horizontally on two bearings about 6 ft. 6 in. apart, it will have a critical frequency of about 4,000 c.p.s., and will, therefore, be a good material to use for obtaining high values of insulation (compared with a stiffer material of the same weight).

O. Brandt (Sweden) described sound-insulation measurements of lightweight stud partitions. He showed that the spacing between the two leaves of the partition (i.e., the thickness of the studs) is important, but that it is not necessary to exceed 4 in., provided that a porous, sound-damping material is present in the cavity. Moreover, the bridging effect of the studs does not appear to reduce greatly the insulation. A partition consisting of thin plywood fixed to 4-in. by 2-in. timber studs, with one of the plywood surfaces damped with rock-wool inside the cavity (total weight of partition 7 lb./sq. ft.) gives an insulation value of 40 db., as compared with 32 db. given by the mass formula.

K. Gösele (Germany) describes methods by which sound is transmitted through cavity walls. Sounds of the lower frequencies are transmitted through the cavity, but those of medium and high frequencies get through the wall more easily where the cavity is bridged, e.g., at the edges of

the wall or through studs. The insulation at low frequencies can be raised by using an adequate air space, for which the following formulæ are given:

(a) For walls having similar leaves:—

$$\text{minimum spacing} = \frac{11.2}{m} \text{ in.},$$

where m = weight of one leaf in lb./sq. ft.

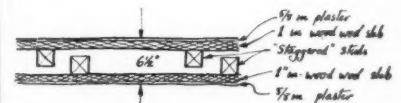
(b) For walls having dissimilar leaves:—

$$\text{minimum spacing} = \frac{5.6}{m_l} \text{ in.},$$

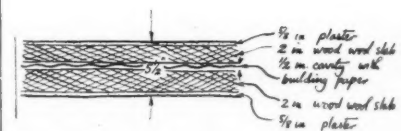
where m<sub>l</sub> = weight of the lighter leaf in lb./sq. ft.

Some interesting results obtained in experiments by Gösele on various walls using wood-wool slabs for insulation are given in the table below. The reason for the very high values achieved is mainly that the critical frequency for this material is suitably high (about 2,500 c.p.s.). Wall type "B" is particularly interesting; although the distance between the leaves is much less than the minimum given by the formula above, a high insulation value is achieved, because the slabs are so porous (the inside surfaces are not filled with plaster) that the effective width of the cavity is much greater than the actual dimensions between the leaves.

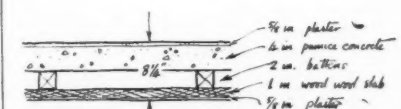
The figures for wall type "C" show how the insulation of a solid wall or ceiling can be improved by suitable treatment, but it should be noted that, if the wood-wool is fixed to the wall with mortar, or if concrete is cast against it, the sound insulation achieved may be less than if no wood-wool were employed.



Partition type "A"



Partition type "B"



Partition type "C"

TABLE\*

Diagram	Description of wall	Weight, lb./sq. ft.	Thickness, in.	Average insulation at 100-3,000 c.p.s. db.	Mass law insulation, db.
A	Two 1-in. wood-wool slabs fixed to staggered wood studs, plastered on external surfaces	14	6.5	52	36
B	Two 2-in. wood-wool slabs built 1/2 in. apart, with building paper in cavity, plastered on external surfaces	17	5.5	53	38
C	4-in. thick pumice concrete wall, with 1-in. wood-wool slabs applied to one side on 2-in. battens, plastered on external surfaces	23	8.25	48	41

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The development of light-weight structures with adequate sound-insulating properties has made much progress as a result of the recent scientific work described at the congress. It must be realised, however, that further experimental work, both in the laboratory and on the site, must be

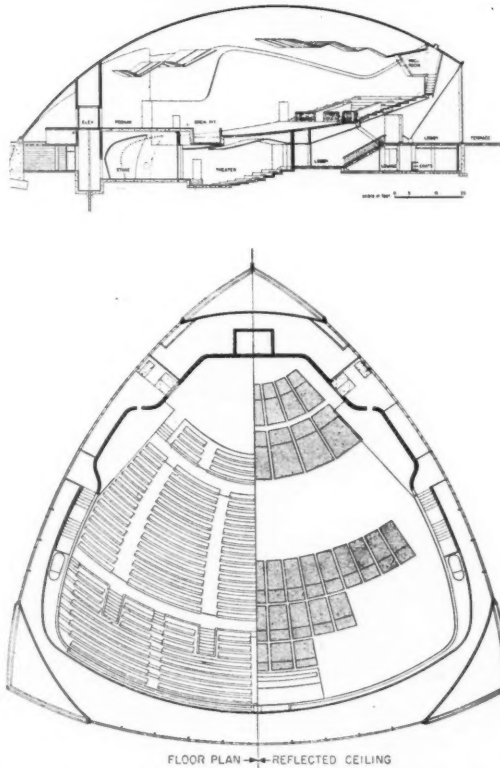
undertaken by such organizations as BRS before these new principles can be confidently assimilated into building design. We hope to give more detailed descriptions of the structures so far tested when the full papers of the congress proceedings become available.

THREE-POINT SUPPORT FOR AUDITORIUM DOME



The thin-shell concrete dome seen in the photo of a model, above, is to be supported at only three points, each a ball joint. It will cover a £½ million auditorium, designed by Eero Saarinen & Associates (consulting engineers, Ammann & Whitney), to be erected at the campus of the Massachusetts Institute of Technology. The roof will be one-eighth of a sphere; it will span 160 ft.; and it will be covered by lead-coated copper plates, overlapping and interlocking over the concrete, but still able to move, so as to allow for thermal expansion and contraction.

External walls will be glazed throughout. Plan and section, above; for further information see Architectural Forum [USA], January, 1953, and Engineering News Record [USA], May 7, 1953.



RECENT INFORMATION CENTRE ITEMS ON SOUND INSULATION AND ACOUSTICS

The acoustics of the Royal Festival Hall .....22.60: 18.6.53  
 Fan sound levels ..... 22.59: 18.6.53  
 Acoustics in modern building practice .....22.58: 26.3.53  
 The influence of the cinema on the design of auditoria .....10.98:27.11.52  
 The use of "sound mirrors" .....22.57: 4.9.52  
 Sound reinforcement in St. Paul's Cathedral .....22.56: 4.9.52

INFORMATION CENTRE

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

2.128 planning: general  
 AN AMERICAN'S VIEW

The Achilles Heel of British Town Planning. Lloyd Rodwin. (Town Planning Review. April, 1953, pp. 22-34.)

The author, associate professor of land economics at the Massachusetts Institute of Technology, spent a year living and travelling in this country, having already studied our housing and planning for many years. In this article, part of a larger study, he suggests that because of its success, the whole town planning movement in Britain is endangered. Increased powers have created new problems (current planning, education and research are our glaring weaknesses). How true—a good article.

4.74 planning: urban and rural  
 SLUM CLEARANCE

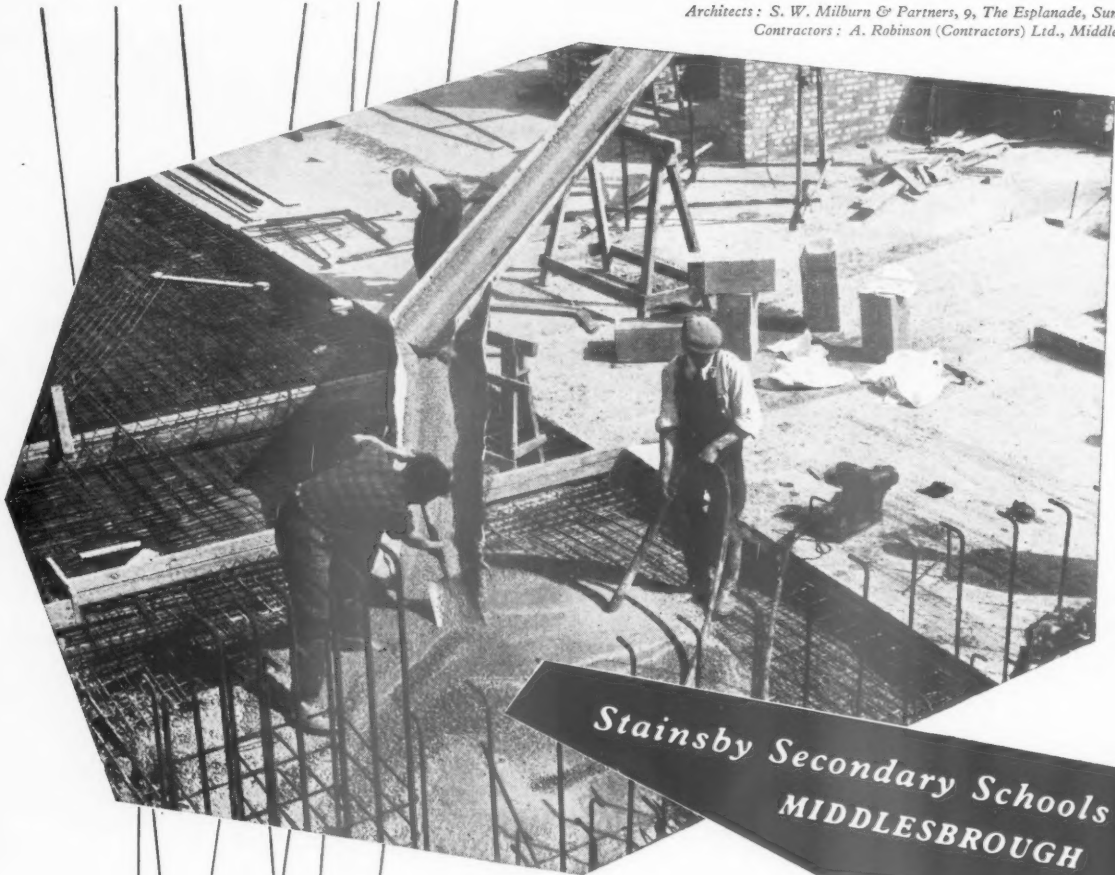
Slum Clearance Problems of Today. F. A. Lodge. (Journal of RSI. July, 1953, pp. 428-436.)

A paper well worth reading by anyone interested in slum-clearance problems, but not already familiar with its administrative implications.

Now that the MOHLG is anticipating a resumption of slum clearance, a clear résumé of the problems entailed, such as this paper provides, is useful. The author compares the pre-war programme and its achievements with the post-war task and shows how much more difficult the latter is, because of the disparity between the high cost of building and the level of rent which the average slum-dweller can afford.

He also described the general legislative background, dealing with clearance areas, redevelopment areas, individual unfit houses and recent legislative changes. He suggests that, before the ordinary authority can do much, it will need substantial governmental assistance.

Architects : S. W. Milburn & Partners, 9, The Esplanade, Sunderland.  
Contractors : A. Robinson (Contractors) Ltd., Middlesbrough.



*Stainsby Secondary Schools*  
**MIDDLESBROUGH**

'PUDLO' is on the job at Stainsby Secondary Schools and has been specified for use in the walls and floor of the boiler house. The site is drained, but the water level rises in the winter above the level of the basement floor. 'PUDLO' Brand waterproofer was therefore chosen for this work in the 1:2:4 concrete in the proportion of 5 lbs to each 100 lbs of the cement.



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## 10.107 design: building types EXPLOSION RISKS

*Interim Note on Flooring in Anaesthetising Locations.* Appendix B to RHB(53)55, and *Interim Note on Rubber of Anti-static (Conducting) Quality for Hospital Use.* Appendix A to RHB(53)55. (Ministry of Health, 1953.)

Two notes of considerable importance to hospital architects. It appears that the danger of explosion in operating theatres is increasing.

Ordinary rubber, PVC, linoleum, asphalt, pitchmastic, wood board, wood block and some composition floors with rubber latex binders are dangerous, and other types are not always safe. A full study of these notes should be made by anyone concerned with this type of work.

## 11.34 materials: general FIRE TESTS

*Fire Tests on Building Materials and Structures.* BS 476:1953 (British Standards Institution, 4s.).

BS 476 was first published in 1932. Since then, a great many tests have been carried out, especially at the Fire Testing Laboratory at Elstree. As a result of the experience gained, the present standard has been prepared, and, since it contains numerous alterations, it is important that this revision should be used for reference and specification purposes. Among the alterations is the omission of the non-inflammability test, which is not really applicable to building materials.

## 17.95 construction: general FIRE RESEARCH

*References to Scientific Literature on Fire.* Part V, 1951. (Fire Research Station, Elstree.)

Lengthy list of references to scientific literature on fire, of specialist nature, mainly of 1951 publications. English and foreign references.

## 17.96 construction: general FIRE TESTING

*Investigations on Building Fires. Part V. Fire Tests on Structural Elements.* National Building Studies Research Paper No. 12. HMSO, 1953. 15s.

Twenty pages on history of fire testing and the fire testing laboratory; description of testing methods, with a few pages of general conclusions on fire resistance of walls, floors,

columns and beams; followed by 250 pp. of test results obtained between 1935 and 1946.

The very complete list of test results is a valuable work to which one can go for reference, but it seems unfortunate that a 1953 publication should stop at results obtained in 1946. The few pages of general conclusions on the fire resistance of various building elements and components are perhaps the part of the book of most general interest to architects.

## 17.97 construction: general FIRE RESEARCH

*Fire Research.* 1952. DSIR and Fire Offices' Committee. (HMSO, 1953. 3s.)

General report on year's work, with statistics on fires. Also, review of first 6 years' work of the Fire Testing Station.

## 19.166 construction: details DOMESTIC FLOORS

*Fire Resistance of Board and Joist Floors for Small Houses and Flats.* BRS Digest No. 54. (HMSO, May 1953. 3d.)

Changes in domestic floor construction, such as the use of thinner joists and the substitution of board type ceilings for lath and plaster, alter its fire resistance. Sufficient testing work has now been done to tabulate the fire resistances of a number of normal joist-type constructions. This is done in terms of:

(a) Full half-hour fire resistance in accordance with BS 476; (b) modified half-hour resistance equivalent to that provided by a traditional floor, with 2-in. wide joists, plain-edged boarding, and lath and plaster ceiling. A very useful statement on an everyday subject.

## 25.102 water supply and sanitation REFUSE

*The Storage, Collection and Disposal of Domestic Refuse.* J. C. Dawes. (The Sanitarian, July, 1953.)

Good general article on subject, with a few points of importance to architects. 14 pp.

## 28.19 miscellaneous SOIL STABILIZATION

*Methods of Test for Stabilized Soils.* BS 1924:1953. (British Standards Institution, 12s. 6d.)

Supplement to BS 1377, *Methods of Test for Soil Classification and Compaction*, describes additional tests for stabilized soils, covering all types of stabilizers in common use and all soils of which 80 per cent. or more of the particles pass a 1½-in. sieve.

## THE INDUSTRY

*From the Industry this week, Brian Grant reports on a timber decking and walling unit, fire-resisting cables, a larger version of "Ductube," and a new solid fuel cooker, and gives some useful data on the comparative costs of using different types of fuel for heating.*

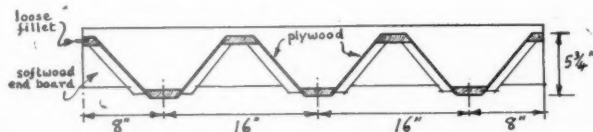
### TIMBER DECKING UNITS

H. Newsum, Sons & Co. Ltd., whose "Riley-Newsum" house was the only 2-storey prefab. on show at the B.I.F., have now brought on to the market a timber decking unit which they call "Trofdek."

This is a structural unit of stressed-skin plywood suitable for roofs (both flat and pitched), floors or walls. It could be used in conjunction with any system of framing and is claimed to be particularly suitable for houses of cross-wall construction. It could, moreover, span from front to rear walls of traditional houses, as, with normal domestic floor loads, "Trofdek" can span up to 24 ft. Tests on a standard 12 ft. by 4 ft. unit spanning 11 ft. 9 in. gave failure at 315 lb./sq. ft., i.e. over 10 times the design load, which is pretty good for a unit with a self-weight of only 3 lb./sq. ft. Numerous advantages are claimed for these units: Firstly, lightness (they weigh only 1.7 lb./sq. ft.)—units up to 100 sq. ft. in area can be handled by 2 men (see photo); secondly, timber saving—the content per square being 3.65 cu. ft. and the content for the floor of a typical house (450 sq. ft.) being only 0.125 stds. (a 60 per cent. saving over traditional construction); thirdly, flexibility—as a result of the "corrugated" section of the units, any form of covering can be used (either supplied ready-fixed to the units, or applied on the site), from hardboard to clay roofing tiles.

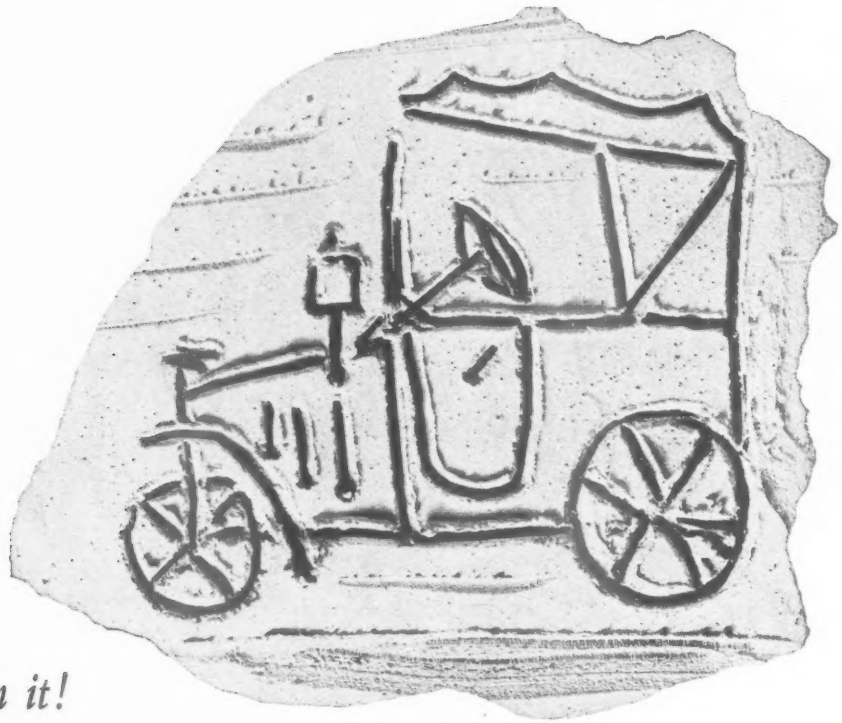
Since the units are made of timber, it is a simple matter to produce "specials" for trimming around openings, etc. The units can be cut and modified by the carpenter on the site, and holes readily cut through the plywood webs or the softwood end boards for services.

Standard widths, multiples of 8 in., are to be 16, 24, 32, 40, 48, 56 and 64 in. The depth of the units will normally be 3½ of the span. The cost is estimated to be from about 13s. 6d. per sq. yd. This may seem high, but the large saving in site labour must be taken into account. For example, it is claimed that 2 men can lay a 360 sq. ft. floor of "Trofdek" units in an hour and 40 minutes.



Above, section through standard "Trofdek" unit. Right, standard unit, 48 sq. ft. in. area, complete with "pre-fixed" flooring, being handled easily by two men. This unit, before being covered, was deflected only 1/10 of the span under the design load (30 lb./sq. ft.); it recovered, after loading for 24 hrs., 88 per cent. of the deflection; it failed at a total load of 14,500 lb (9½ lb./sq. ft.)





## No future in it!

"I suppose you know that the horseless carriage like other pieces of progress came in for a good deal of scepticism in its time."

"Of course I do. But what has the horseless carriage to do with us here today? I suspect you are going to use it as a vehicle . . ."

"Exactly, to introduce the advantages of Carlite pre-mixed vermiculite plaster over old-style sand based plaster."

"I should think you architects must find the advantages considerable."

"Overpowering. Because Carlite is pre-mixed plaster, its quality is absolutely controlled at the factory. I know that when I specify Carlite on a job, I'll get exactly what I expect."

"But that would solve a big problem for us contractors too."

"Of course. If an architect specifies Carlite you just give him Carlite. No bother about proportions of sand, or mixing instructions. Or for that matter great heaps of sand disfiguring the neighbourhood."

"How does Carlite come out in use?"

"Top marks. It's tough, and exceptionally resistant to cracking. The fire resistance is very high, and here's something that ought to please you builders, Carlite weighs less than half as much as old style plaster."

"That certainly would save some elaborate dead load lifting. I'm beginning to see the point of you introducing the subject of progress."



For full details of Carlite write to: The Carlisle Plaster & Cement Co., Cocklakes, Carlisle.  
The Gotham Company Ltd., Wheeler Gate, Nottingham

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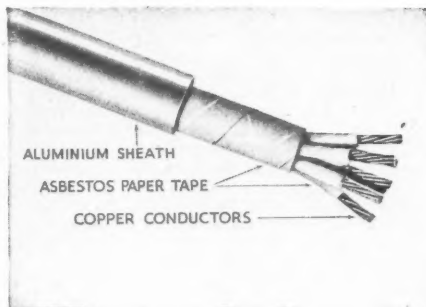
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**FIRE-RESISTING CABLES**

A new range of asbestos-paper-tape insulated cables has been developed by Pirelli-General; the cables are suitable for voltages up to 660 and are for use where fire-resistance, non-inflammability, and maintenance of electrical properties under high temperatures are required. The copper conductors are lapped with a special quality asbestos-paper-tape; the cores are then grouped, and wrapped again with the asbestos paper. Finally, the cable is sheathed either with welded aluminium ("Asbestal") or stainless steel ("Asbesteel"). The smaller "Asbestal" cables have a cold-welded sheath with a small longitudinal fin, while the larger sizes have a corrugated argon-arc welded sheath which is almost as flexible as a lead-sheathed cable, but has enough stiffness to allow a considerably greater distance between supports. (*The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2.*)

**FIREPLACES FOR STOVES**

Present-day types of solid fuel stove have many advantages, but there still remains the difficulty of sweeping the chimney. It is generally necessary to remove the stove, which is the sort of thing that makes sweeps querulous, quite apart from the fact that they will probably be unable to make a proper air-tight joint when the stove is put back again. To overcome this trouble, the Oxshott Brick Works has produced a brick fireplace in which a brick panel immediately over the fire can be removed for easy access to the flue. The design of the fireplace will not be every architect's choice, but the idea is a good one and could no doubt be applied to other designs. (*The Oxshott Brick Works Ltd., Cobham, Surrey.*)

**LARGE DIAMETER PIPES AND DUCTS**

"Ductube," the inflatable rubber tubing used for forming ducts in concrete has been mentioned in these notes from time to time. The manufacturers have now produced a further type, known as "Contiduct," which can be used for the formation of large diameter concrete pipes and culverts up to a diameter of 4 ft. No lining of earthenware or precast concrete pipes is necessary, and experience in France has shown that the rate of flow for the same fall and diameter is greater than with lined pipes, owing to the absence of joints. The flexibility of the tubing allows curves of a radius not less than 30 times the diameter of the tubing to be produced, either in a horizontal or vertical plane.

This new large diameter tubing is produced in sizes from 12 in., with 3-in. increases up to 48 in., and in standard lengths of 75 ft., the maximum length being 150 ft. Provided that reasonable care is exercised, it can be used at least 100 times. (*The Ductube Co. Ltd., 235-241, Regent Street, London, W.1.*)

*Left, "Asbestal," fire-resisting electric cable suitable for voltages up to 660 (manufactured by GEC). Right, the new "Sofono" solid-fuel cooker and water heater, with adjustable heat control for oven and hot plate (manufactured by the Grangemouth Iron Co., Ltd.).*



**NEW SOLID FUEL COOKER**

The photo, right, shows the new "Sofono" solid-fuel cooker and water heater. This has a continuous burning open fire and a large oven with a warming cupboard below it. The hot plate has the now usual insulating cover and there is an adjustable heat control both for the oven and the hot plate. The trivet may be used in three positions—normal for simmering, as in the illustration, as a closure cover for all night burning, and horizontally over the fire so that it acts as an extra hot plate. Finish is vitreous enamel. (*Grangemouth Iron Co. Ltd., Falkirk, Stirlingshire.*)

**THE CASE FOR OIL FIRING**

A small leaflet from "Nu-Way" sets out the relative costs of different types of fuel in terms of useful heat per therm. It is shown that oil at £11 per ton burnt at 70 per cent. efficiency is 1d. per therm cheaper than solid fuel at £6 and 55 per cent. efficiency, and cheaper than either gas or electricity in spite of the high efficiency of gas and electric appliances—85 per cent. for gas and 100 per cent. for electricity. These are, of course, running costs, and do not take into account the capital cost of the installation or the cost of maintenance or attendance.

In a factory or hotel these figures can be pretty accurately assessed, but for the householder it is a more personal matter, depending on the value he puts on his own time. Systems of heating using any of the four fuels can be made almost entirely automatic, except that with solid fuel ash must be removed. The "Nu-Way" company makes oil burners for light oils (suitable for houses, halls or small hotels), and for heavy oils, and the "Rotovac" burner for industrial use with the heaviest and cheapest grades of oil, including creosote, pitch and similar fuels. (*Nu-Way Heating Plants Ltd., Droitwich.*)

**SIX-WAY PLUG**

Houses which have had additions to their wiring systems at different times all too often have several different sizes of socket, either two- or three-pin. Various firms produce plugs with adjustable pins, but the most complete answer so far is the "Crater" six-way plug, which provides six different sets of pins to fit all sockets ranging from 2-pin, 2-amp., to 3-pin, 15-amp.

The pins are all within the body of the plug, the different combinations being selected by turning a shutter on the face. Inevitably, the plug is rather large and

heavy, and it includes more socket sizes than are likely to be found in any house not on the lunatic fringe, but it should be really useful for people who like to travel with electric irons or other portable equipment and who have been defeated by unsuitable sockets in hotel bedrooms.

All things considered, the retail price of 18s. 9d. is not unreasonable, though it should be added that the plug is not suitable for the 3-kw. rectangular-pin socket. Messrs. Crater also make a number of types of rotary switch, both for panel and surface mounting. (*Crater Products Ltd., St. John's, Woking, Surrey.*)

*Readers requiring up-to-date information on building products and services may complete and post this form to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S. W. 1*

**ENQUIRY FORM**

*I am interested in the following advertisements appearing in this issue of "The Architects' Journal." (BLOCK LETTERS, and list in alphabetical order of manufacturers' names please).*

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*Please ask manufacturers to send further particulars to:—*

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## Buildings Illustrated

*Alterations to Australia House, Strand, London, W.C.2, for the Government of The Commonwealth of Australia.* (Pages 196-197.) Architect: Westwood Sons & Harrison, F./R.I.B.A. (originally Marshall Mackenzie). Electrical, engineering and heating consultants: A. F. Myers & Partners. Quantity surveyors: Leon & Westwood. General contractors: Leslie Bilsby Ltd. Sub-contractors: woodblock flooring, The Bennett Flooring Co. Ltd.; central heating, boilers, Saunders & Taylor Ltd.; kitchen equipment, The Crittall Kitchen Equipment Co. Ltd.; electric wiring, Higgins & Cattle Ltd.; electric light fixtures, Thorn Electrical Industries Ltd.; special light fittings, Courtney Pope Ltd.; Exhibition Hall fittings, George Forrest Ltd.; cinema hall fittings, Venveco Ltd.; electric heating (unit heaters), Copperad Ltd.; ventilation, Richard Crittall Ltd.; cinema screen, G. B. Kalee Ltd.; tiling, Copes Tiles Ltd.; textiles and carpets, Heal & Sons, Trollope & Sons (also furniture re-covering).

## Announcements

E. R. Collister, A.R.I.B.A., of 67, London Road, Chelmsford, Essex, and 4A, Market Street, Cambridge, has opened an office at Gloucester House, 19, Charing Cross Road, W.C.2, where he will be pleased to receive trade catalogues, etc.

The Paignton, South Devon, office of C. F. J. Thurley, L.R.I.B.A., is now 51, Hyde Road, Paignton (Tel.: Paignton 57733).

George C. Fox, L.R.I.B.A., M.INST.R.A., P.P.F.A.S., has entered into partnership with W. H. Scanlan, F.R.I.C.S., and S. D. Graves, F.R.I.C.S. (formerly Charles V. Stevens & Co., Chartered Surveyors). The firm will in future practice under the title of Stevens,

Scanlan & Co., Architects and Surveyors, at 56, Buckingham Gate, S.W.1. (Tel.: Victoria 4806).

Structural & Mechanical Development Engineers Ltd., 2, Buckingham Avenue, Slough, Bucks, have changed the company name to S.M.D. Engineers Ltd. This is the construction company of the Almin Group (parent company, Almin Ltd., Farnham Royal, Bucks). The company specializes in aluminium construction and prefabrication, marketing the "Alframe" bungalows, classrooms, hangars, industrial buildings, roofing, etc. The new telegraphic address is Alframe, Slough.

British Insulated Callender's Cables Ltd. Exeter branch office is now at 40, Whipton Village Road, Whipton, Exeter (Tel.: Exeter 67308).

Guy Darnell has been appointed London area manager of Steel Radiators Ltd.

A London showroom for storage equipment has been opened at 36, High Holborn, W.C.1, by Stonehouse Steel Equipment Ltd., of Roften Works, Hooton, Wirral, a subsidiary of Williams & Williams Ltd.

In anticipation of a reduction in the price of linseed oil, Wareing Brothers and Co. Ltd., of Bolton, manufacturers of 'S Ply-Cord' metal window putty, are reducing the price of their various types of putty. They have issued a list which can be obtained on application to their head office, Carlton Street Works, Bolton.

The Steel, Peech & Tozer Branch of The United Steel Companies Ltd. announce that Herbert McWhinnie, J.P., retired from the position of general sales manager on June 30 but is to remain with the company for a period in order to advise on sales development. The position of general sales manager at this branch has now been discontinued and all departments responsible to the commercial director are to be co-ordinated through and supervised by the assistant commercial manager, J. Mackenzie-Mair.

A large number of sales staff changes at home and abroad have recently been made by Williams & Williams Ltd. Changes include the following:—J. S. Higgs has been appointed manager of the Manchester area office in place of G. Mulholland, who has been appointed to New York; G. A. Littlewood has been appointed manager of the Leeds office in place of C. Watkins, who has been appointed to Toronto with J. E. Meredith, whose office in Bromley has been taken over by A. M. Scott; H. Buckingham has been appointed to Tunbridge Wells in place of A. W. D. Sallis, who has been appointed to Malaya; D. A. Tubb has been appointed to Kingston, Jamaica, and his place at Newmarket has been taken over by W. W. Jenkins. The newly-opened Southampton office has Wellesley Davies in charge. R. H. James has been appointed manager of the Reading office.

Production of cement by The Rugby Portland Cement Co. Ltd. has risen 116 per cent. between 1939 and 1952. A new kiln is being installed at the Rugby works. Plants are being built in Trinidad and Western Australia.

A reception of the Architecture Club was held at Sudbrook Park on July 28. Members and guests were received by Viscount Esher. A programme of music for the harpsicord and flute was given by Milliecent Silver and John Francis.

## Correction

The Colt "Inflow Unit" described in The Industry for July 23, is suitable, on account of its size, for industrial applications only—not for domestic use, as readers might have assumed from the notes we published. We are informed by Colt Ventilation, Ltd., that they will be bringing a room air-conditioner on to the market in about 8 weeks' time.



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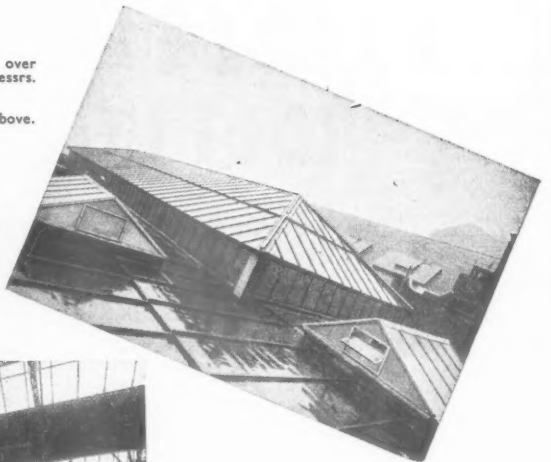
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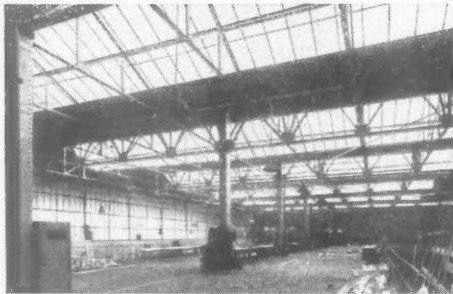


RIGHT: Lantern Lights over Drawing Office of Messrs. Bodec Ltd., Battersea.

LEFT Interior view of above.



BELOW: Roof Glazing over Joiners Shop of Messrs. Harland Wolff Ltd. North Woolwich.



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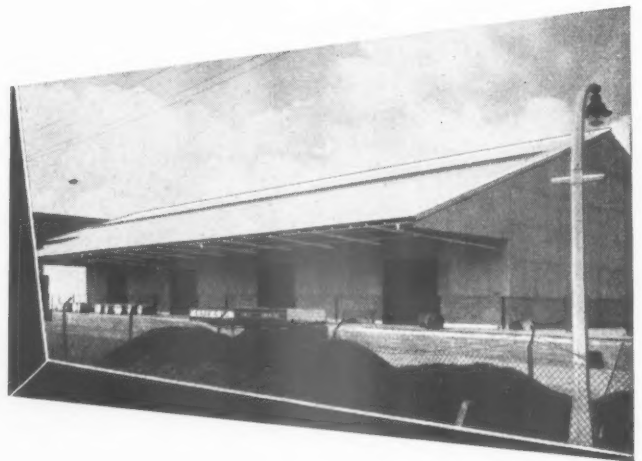
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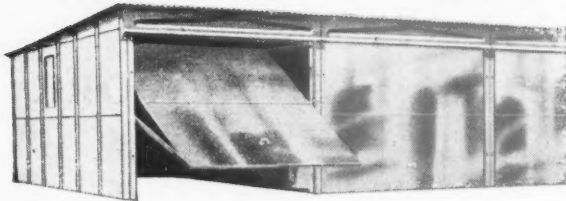
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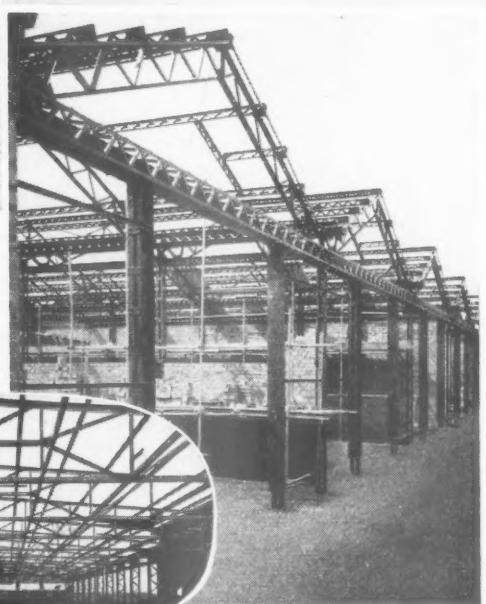
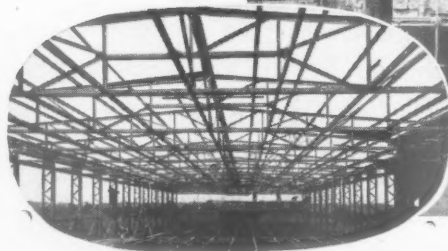
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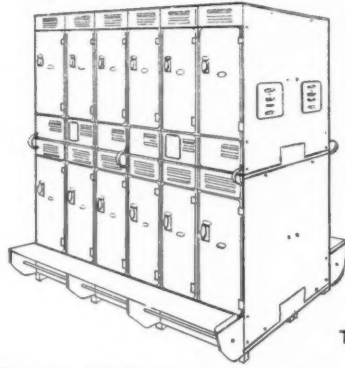
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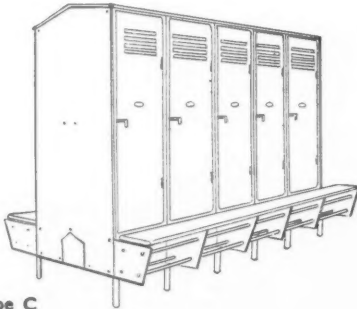
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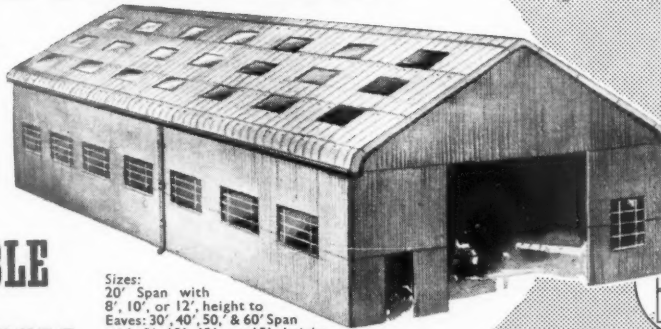
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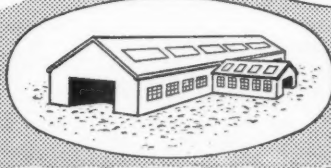
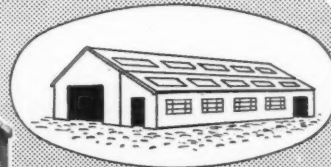
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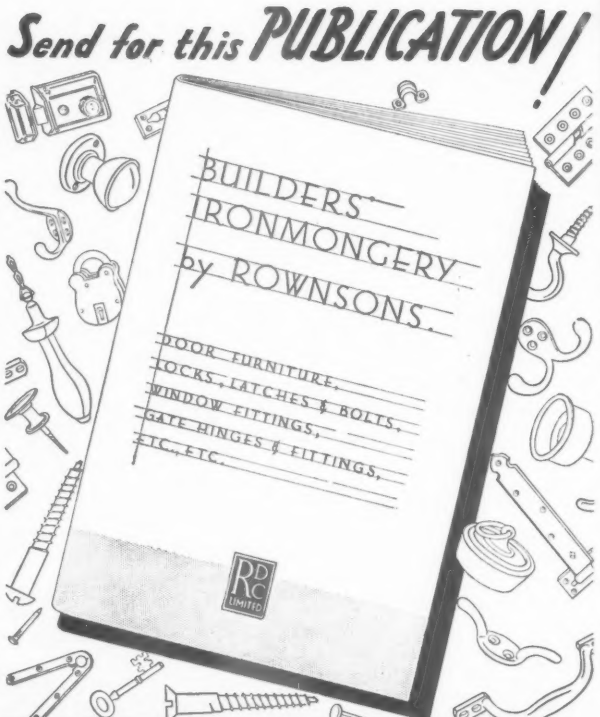
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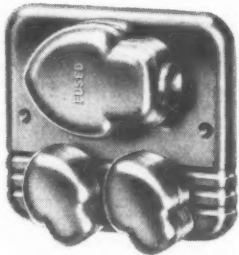
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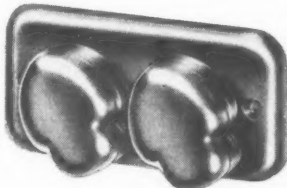
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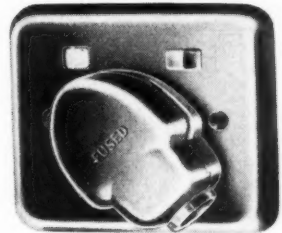
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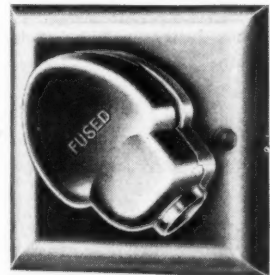
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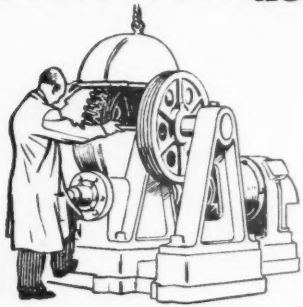


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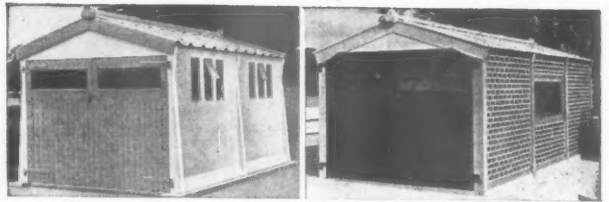
Excellent design and first class workmanship allied with the finest materials combine to raise E.C.M. Lifts above the level of others.



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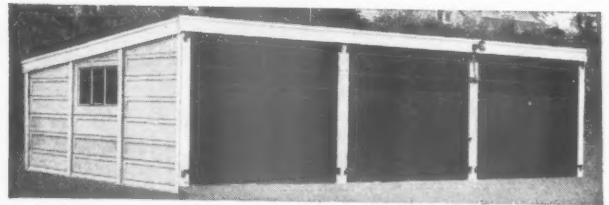


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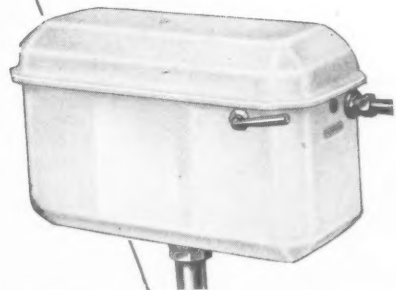


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**CLASSIFIED ADVERTISEMENTS**

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

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

**Public and Official Announcements**

25s. per inch; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment, is exempt from the provisions of the Notification of Vacancies Order, 1952.

**URBAN DISTRICT COUNCIL OF CORBY, ARCHITECTURAL ASSISTANT.**

Applications are invited for the above appointment in the department of the Engineer and Surveyor, at a salary in accordance with Grade V, A.P.T. Division of the National Scale of Salaries (£595-£645), commencing at £595 per annum.

Candidates must be Registered Architects, and should have considerable experience in design, construction and contract administration. Experience of the design and erection of blocks of shops would be an advantage.

The provisions of the Local Government Superannuation Act, 1937, will apply.

The tenancy of a Council house will be offered to the successful candidate if married.

Forms of Application, to be obtained from the undersigned, should be completed and submitted not later than noon on Thursday, the 27th August, 1953.

G. B. BLACKALL, Clerk of the Council.

Council Offices, Corby, Northants. 9260  
27th July, 1953.

**BOROUGH OF EALING.**

TWO CLERKS OF WORKS (temporary) required for supervision of Housing Contract. Salary: £650 p.a., and otherwise in accordance with the Scheme of Conditions of Service for the Miscellaneous Class of Officers. Candidates must be thoroughly experienced, and preference will be given to members of The Institute of Clerks of Works of Great Britain Incorporated. No housing accommodation. Canvassing disqualifies. Form of application, further particulars, etc., from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5. Completed applications to the undersigned not later than 17th August, 1953.

D. J. COPE-BROWN, Town Clerk.

Town Hall, Ealing, W.5. 9258

**URBAN DISTRICT OF FELTHAM, TWO TEMPORARY ARCHITECTURAL ASSISTANTS required.** Salaries £765 per annum. Applicants must be Registered Architects and have had experience chiefly in Local Authority Housing.

Forms of application, obtainable from the undersigned, must be returned, accompanied by copies of two testimonials, not later than 4th September, 1953. Canvassing directly or indirectly, will disqualify and applicants must disclose, in writing, whether to their knowledge they are related to any member of the holder of any senior office under the Council.

M. W. COUPE, Clerk of the Council.

Council Offices, Feltham, Middlesex. 9274

**BEESTON AND STAPLEFORD URBAN DISTRICT COUNCIL.** Applications are invited from experienced Architectural Assistants for the following appointment in the Engineer and Surveyor's Department: SENIOR ARCHITECTURAL ASSISTANT, A.P.T. Grade VI (£670-£735).

Applicants should be Registered Architects and/or Associate Members of the Royal Institution of British Architects, and should have practical experience in the design of housing estates and general municipal buildings.

The appointment will be in accordance with the National Scheme of Conditions of Service. Applications, together with the names of two persons to whom reference may be made, should be sent to the undersigned not later than 22nd August, 1953.

Candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council. Canvassing directly or indirectly will be a disqualification.

H. D. JEFFRIES, Clerk of the Council.

Town Hall, Beeston, Nottingham. 9277

**CITY OF CARLISLE, APPOINTMENT OF SENIOR ASSISTANT ARCHITECT (SCHOOLS).** Applications are invited for the above post. Salary: A.P.T. Grade VI (£670-£735). Housing may be provided.

Forms of application from the City Surveyor, 18, Fisher Street to whom applications are returnable by 19th August, 1953.

H. D. A. ROBERTSON, Town Clerk.

9317

**COUNTY BOROUGH OF WALLASEY. Appointment of:— (a) ARCHITECTURAL ASSISTANTS. (b) QUANTITY SURVEYOR, Grade A.P.T., 5.** Applications are invited for positions of Architectural Assistants in Grades ranging from General to A.P.T., 8. Appointments will be made to Grades appropriate to qualifications, ability and experience in accordance with paragraph 21(v)(xi)—Grading of Special Classes of Officers—of the Scheme of Conditions of Service of the N.J.C. for Local Authorities, and applicants should state the grade for which they wish to be considered. Applications are also invited for the position of Quantity Surveyor, Grade A.P.T., 5, and forms of application for this and the Architectural positions may be obtained from the Borough Architect, Town Hall, Wallasey, to whom they should be returned by not later than 23rd August, 1953.

A. G. HARRISON, Town Clerk. 9296

**THE EAST SUFFOLK COUNTY COUNCIL** invite applications for appointments in the County Architect's Department, viz:— (a) ASSISTANT ARCHITECT, A.P.T., Grade V (£595-£645).

(b) ARCHITECTURAL ASSISTANT, A.P.T., Grades III-IV (£525-£600).

Applicants should be capable of carrying work through all stages. They should have a sound knowledge of design and building construction, and be capable of writing specifications.

Applicants for (a) must be Members of the R.I.B.A. and for (b) should have reached Intermediate stage of R.I.B.A. Examinations.

Commencing salary according to qualifications and experience.

The appointments, which are superannuable and subject to medical examination, will be subject to one month's notice on either side.

Applications, stating age, qualifications, and full details of previous experience, accompanied by copies of two recent testimonials, to E. J. Symcox, F.R.I.B.A., County Architect, County Hall, Ipswich, not later than Tuesday, the 25th August, 1953. 9302

**LINDSEY COUNTY COUNCIL, COUNTY ARCHITECT'S DEPARTMENT.**

Vacancy on permanent staff for QUANTITY SURVEYOR, Grade A.P.T., Va. and VI. £525-£735 for persons holding the Final R.I.C.S. Commencing salary not higher than third step of Va. according to experience.

N.J.C. Conditions of Service. Canvassing will disqualify. Relationship to member or senior officer of the Council to be disclosed in writing with application.

Applications, stating age, qualifications and experience, with names of two persons to whom reference can be made, to be sent to me not later than 21st August, 1953.

A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I., County Architect.

County Offices, Lincoln. 9322

**HARROW URBAN DISTRICT COUNCIL, ENGINEER AND SURVEYOR'S DEPARTMENT.**

Applications are invited for the following appointments in the department of the Engineer and Surveyor (Mr. J. H. Melville Richards, A.M.I.C.E., M.I.Mun.E.):— (a) ARCHITECTURAL ASSISTANT, A.P.T., Grades I/III. Salary scale: £465 to £570 per annum, plus London "weighting," according to age and experience.

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

(b) TEMPORARY CLERK OF WORKS (MAINTENANCE). Salary of £10 per week. Applicants should be experienced in the maintenance of requisitioned houses, including inspection, supervision of repairs and decoration, checking accounts, and obtaining information for correspondence.

It is anticipated that subject to satisfactory service the appointment will be for a minimum period of twelve months. Forms of application, to be obtained from the undersigned, should be returned not later than Friday, 28th August, 1953.

The Council is unable to assist in obtaining housing accommodation.

Canvassing will be a disqualification.

D. H. PRITCHARD, Clerk of the Council.

Council Offices, Harrow Weald Lodge, Harrow, Middlesex. 9325

**BOROUGH OF WALTHAMSTOW, BOROUGH ARCHITECT ENGINEER AND SURVEYOR'S DEPARTMENT, ASSISTANT QUANTITY SURVEYOR, JUNIOR QUANTITY SURVEYOR.**

Applications are invited for the appointments of an Assistant Quantity Surveyor, Grade A.P.T., IV (£585-£630 per annum), and a Junior Quantity Surveyor, General Division (£170 per annum at 16 to £480 per annum at 30).

Applications, endorsed "Quantity Surveyor," with names of two persons for references, should be received by the undersigned not later than Monday, the 31st August, 1953.

G. A. BLAKELEY, Town Clerk.

Town Hall, Walthamstow, E.17. 9292

**COUNTY BOROUGH OF BLACKBURN, ASSISTANT QUANTITY SURVEYOR, Grade VII (£710-£785).**

Candidates should be experienced in the preparation of Bills of Quantities, specifications and estimates, and the settlement of final accounts. Preference will be given to Professional Associates of the Royal Institution of Chartered Surveyors. Provision of housing accommodation if required will be considered.

Applications, with the names of three referees, to the Borough Engineer, Town Hall, by 14th September.

CHAS. S. ROBINSON, Town Clerk. 9339

**DENBIGHSHIRE COUNTY COUNCIL, COUNTY ARCHITECT'S DEPARTMENT.**

The above County Council invites applications for the undermentioned appointment in the County Architect's Department, Wrexham, viz:— ONE ASSISTANT QUANTITY SURVEYOR, A.P.T. Division, Grade V. Salary: £595-£645 per annum.

Candidates must have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors (Quantities Section), and have experience in "taking off" for all types of building works undertaken by a County Authority.

In addition, he should be familiar with, and will be required to undertake working up in all stages, measurement of works on site, interim certificates and final accounts.

The appointment is subject to (a) the National Conditions of Service for Local Government Administrative, etc., Officers; (b) the Local Government Superannuation Act, 1937; (c) the passing of a medical examination, and (d) one calendar month's written notice on either side to expire at the end of a calendar month.

Applications, giving age, qualifications and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to the undersigned, by not later than the 7th day of September, 1953.

W. E. BUFTON, Clerk of the County Council. 9325

County Offices, Ruthin.

**DERBYSHIRE COUNTY COUNCIL, COUNTY ARCHITECT'S DEPARTMENT.**

Applications invited for appointment of ARCHITECTS (permanent staff on A.P.T., Grade V, £595-£645 and £20 to £65 per annum) for duties in connection with the erection of New Schools.

Forms and particulars to be obtained by 22nd August, 1953, from F. Hamer Crossley, County Architect, St. Mary's Gate, Derby. 9324

**BRITISH ELECTRICITY AUTHORITY, EAST MIDLANDS DIVISION.**

Applications are invited for the following positions within the Division:—

CIVIL ENGINEERING DRAUGHTSMEN, Construction Department. (Vacancy No. 22/53).

Candidates should have experience in design and detail of reinforced concrete structures, piled and slab foundations for heavy plant, culverts, cable subways, etc., for general building construction (drainage and sanitation schemes, associated with office and administrative buildings).

The salary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

ENGINEERING DRAUGHTSMEN (MECHANICAL), Construction Department. (Vacancy No. 44/53).

Senior Draughtsmen are required in the Mechanical section of the Construction Department at North Wilford Power Station. Candidates should have experience in one or more of the following:—

(i) Design and layout of Power Station equipment, including Turbo-alternators, boiler plant, coal and ash plant, and General Station Auxiliaries.

(ii) H.P. and L.P. steam and feed pipework. Condensing plant and feed heating systems.

(iii) Conveyor plant, coal handling systems, and material handling of station auxiliary equipment. Salary and conditions of service will be in accordance with the National Joint Board Agreement, Grade 5 (£567-£671 per annum) and Grade 6 (£433-£567 per annum) of Schedule D, according to experience.

ENGINEERING DRAUGHTSMEN (ELECTRICAL), Construction Department. (Vacancy No. 61/53).

Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. Switchgear, transformers, E.H.T. and L.T. cables; knowledge of protective gear systems would be an advantage.

The salary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

The above appointments will be pensionable within the provisions of the British Electricity Authority and Area Boards Superannuation Scheme.

Applications should be submitted on the official form, which may be obtained from the Divisional Establishments Officer, British Electricity Authority, Barker Gate, Nottingham, and should be returned to the undersigned. Please quote Vacancy Number.

L. F. JEFFREY, Divisional Controller. 9288

MANCHESTER MUNICIPAL COLLEGE OF TECHNOLOGY (Faculty of Technology in the University of Manchester) Appointment of ASSISTANT LECTURER IN STRUCTURAL ENGINEERING.

The Governing Body invites applications for an Assistant Lectureship in Structural Engineering in the College with the title and status of Assistant Lecturer in the University of Manchester. Candidates should be graduates in Science of Technology and should possess a good knowledge of Theory of Structures. The person appointed will be required to undertake research work on Structures and to assist in lecturing and laboratory work in Structural Engineering. Salary: £500 per annum, rising by annual increments of £25 to £600 per annum. Commencing salary according to qualifications. Conditions of appointment and form of application may be obtained from The Registrar, College of Technology, Manchester, 1. The last day for the receipt of applications is Wednesday, 16th September, 1953. Canvassing, either directly or indirectly, will disqualify a candidate for appointment.

D. CARDWELL, Acting Principal of the College.

WREXHAM RURAL DISTRICT COUNCIL. APPOINTMENT OF QUANTITY SURVEYOR. Applications are invited for the appointment of Quantity Surveyor, in the Engineer and Surveyor's Department of the Council, at a salary in accordance with Grade VII of the A.P.T. Division (£710 x £25 to £785). The duties of the person appointed to the post will consist of taking off and preparing Bills of Quantities for the works of the Department; Specifications, Interim Valuations, and the Settlement of Final Accounts. The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Joint Council's Scheme of Conditions of Service, and may be determined by one month's notice in writing on either side. The successful applicant will be required to pass a medical examination. If required, Canvassing, either directly or indirectly, will be a disqualification, and relationship to any member or senior officer of the Council must be disclosed. Applications, stating age, qualifications, experience, present appointment and salary, together with copies of two recent testimonials, must be delivered to the undersigned not later than Monday, 24th August, 1953, in envelopes endorsed "Quantity Surveyor."

TREVOR L. WILLIAMS, Clerk and Solicitor, Imperial Buildings, Regent Street, Wrexham, 29th July, 1953.

DEPUY CITY ARCHITECT AND PLANNING OFFICER required by Coventry Corporation. Salary: £1,320 x £100 to £1,420 x £50 to £1,470. Applicants must be fully qualified. Application forms and conditions from Town Clerk, Council House, Coventry, to be returned by 16th September, 1953.

BOROUGH OF LEYTON. APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT. Applications are invited for the above appointment on A.P.T., Grade I (£465-£510, plus London weighting allowance). Candidates should have had general Municipal experience. The appointment is subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Acts, and the passing of a medical examination. Canvassing will disqualify, and candidates must disclose whether they are related to any member or senior officer of the Council. Applications, stating age, details of qualifications and experience, with copies of three recent testimonials, should be delivered to the Borough Engineer and Surveyor, Town Hall, Leyton, E.10, by Wednesday, 26th August, 1953. D. J. OSBORNE, Town Clerk.

SURREY COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, Grade VI, at a commencing salary of £570 per annum, rising by annual increments of £20/£25 to a maximum of £735 per annum, plus London allowance of up to £30 per annum, according to age. Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division) and who have adequate experience in the preparation of Bills of Quantities, site measuring, and in settlement of final accounts. The appointment will be subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination. Applications, stating age, qualifications 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 the 20th August, 1953. Canvassing, either directly or indirectly, will disqualify a candidate from consideration. W. W. RUFF, Clerk of the Council.

UNIVERSITY OF DURHAM. KING'S COLLEGE, NEWCASTLE-UPON-TYNE. The Council of King's College invite applications for a LECTURESHIP in Town and Country Planning. Candidates should be Members or Associate Members of the Town Planning Institute. The salary scale rises by annual increments of £50 to a maximum of £1,100, subject to a review at £900, and the commencing salary of the successful applicant will be fixed at a point on that scale in accordance with his qualifications and experience. The initial salary will not in any case be less than £500, F.S.S.U. and Family Allowance. Duties to commence as soon as possible. Only one copy of application will be required in the first instance, and this, together with the names of three persons to whom reference may be made, should be submitted not later than 27th August to the undersigned, from whom further particulars may be obtained. G. R. HANSON, Registrar of King's College.

CITY AND ROYAL BURGH OF EDINBURGH. CITY ARCHITECT'S DEPARTMENT. Applications are invited from suitably qualified persons for the following posts which may require to be filled: (a) ASSISTANT ARCHITECTS, A.P.T., Grade VII (£715-£790). (b) ASSISTANT ARCHITECTS, A.P.T., Grade Va (£630-£690). (c) ASSISTANT ARCHITECTS, A.P.T., Grades III/IV (£520-£595). (d) ASSISTANT QUANTITY SURVEYOR, A.P.T., Grade VI (£675-£740). (e) QUANTITY SURVEYING ASSISTANTS, A.P.T., Grade IV (£450-£595). Applicants for (a) and (d) must be fully qualified by examination. Applications, giving full details of education and experience, together with the names of three referees, are to be lodged with the City Architect, City Chambers, not later than 28th August, 1953.

COUNTY OF KENT. APPOINTMENT OF COUNTY ARCHITECT. Applications are invited for the above-mentioned appointment from Fellows or Associate Members of the Royal Institute of British Architects, at a salary within the scale of £2,200, rising by annual increments of £100 to £2,700 a year. The post will become vacant upon the retirement of the present holder in April, 1954. The appointment is pensionable, and the successful candidate will be required to pass a medical examination. Further particulars and form of application may be obtained from the undersigned, to whom applications should be delivered by not later than the 30th September, 1953. Canvassing, either directly or indirectly, will operate as a disqualification. W. L. PLATTS, Clerk of the County Council.

HER MAJESTY'S COLONIAL OFFICE. ARCHITECT, PUBLIC WORKS DEPARTMENT, BRITISH SOLOMON ISLANDS, PROTECTORATE. Appointment is on contract for 2 years. Salary in the scale LF1,065-LF1,154 p.a., determined by experience, war service. A compensative allowance of LF125, substantial gratuity and temporary cost-of-living allowance at 10 per cent. of salary is also payable. Free first class passages are provided once each way for officer, his wife and children, not exceeding five persons in all. Leave at the rate of 4 days for each month of residential service. Furnished quarters are provided at a reasonable rental. Candidates must be A.R.I.B.A. Duties are to take charge of an extensive building project at Honiara, which is the Headquarters of the Western Pacific High Commission. Apply in writing to the Director of Recruitment, Colonial Office, Great Smith Street, London, S.W.1, giving briefly age, qualifications and experience. Mention the reference number: CDE. 112/44/01.

CITY OF BIRMINGHAM EDUCATION COMMITTEE. APPOINTMENT OF STAFF OF ARCHITECT'S BRANCH. Applications are invited for the following appointments in the Architect's Branch of the Birmingham Education Department. (Architect to the Committee: Mr. J. R. Sheridan-Shedden, A.R.I.B.A.) (i) CHIEF ASSISTANT ARCHITECT (District). Salary: A.P.T., IX (£815 x £40-£935). The successful candidate will be responsible for the design, working drawings, supervision, as well as administrative work in connection with certain new schools in the major building programme. He must be a chartered and/or registered architect, having good experience in the control of major contracts. (ii) DRAUGHTSMAN. Salary: Misc., Grade IV (£420-£495). Applicants should have had thorough experience as architectural or building draughtsmen, and will be required, under supervision, to prepare working drawings for major contracts. (iii) TECHNICAL ASSISTANT. Salary: General Division (£180-£450, according to age). Applicants should be good draughtsmen, with experience of the preparation of drawings in an Architect's office. (iv) ASSISTANT CLERK OF WORKS (Temporary). Salary: Misc., Grade IV (£420-£495). Applicants should have had a thorough technical training in building construction and materials, and experience of building contracts. Application forms, which may be obtained from the undersigned on receipt of a stamped addressed envelope, must be returned not later than the 5th September, 1953. E. L. RUSSELL, Chief Education Officer, General Purposes Branch, Education Office, Margaret Street, Birmingham, 3.

IMPERIAL WAR GRAVES COMMISSION. SENIOR SUPERINTENDENT OF WORKS, FRANCE.—Duration of appointment approximately 2 years. Candidates should preferably be A.M.I.C.E., or possess similar qualifications. A good knowledge of the French language is required. Candidates should have had experience of Works construction and maintenance on site, preferably abroad. Salary within range £735-£891 per annum, plus a variable temporary local allowance, present rate being approximately: married £300 per annum, single £100 per annum. Figures are net. QUANTITY SURVEYING ASSISTANT, LONDON.—Duration of appointment approximately 2 years. Candidates should be capable of squaring dimensions and abstracting and billing with the minimum of supervision. Desirable that candidates should have passed Intermediate Examination of R.I.C.S. (Quantities) or other similar recognised examination. Salary within range £505-£528 per annum, or £405-£549 per annum, depending upon qualifications, age, etc. Apply: Appointments Officer, Imperial War Graves Commission, Wooburn House, Wooburn Green, High Wycombe, Bucks.

COUNTY COUNCIL OF THE COUNTY OF STIRLING. APPOINTMENT OF ARCHITECTURAL ASSISTANT. Applications are invited for the appointment of Architectural Assistant in the County Architect's Department. The scale of salary will be A.P.T., Grade VIII (£765-£840 per annum). Candidates should be Associate Members of the Royal Institute of British Architects, with experience in new School Buildings or Housing. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Applications, together with copies of three recent testimonials, should be forwarded (marked "Architectural Assistant"), to the County Clerk, Viewforth, Stirling, within 14 days of the appearance of this advertisement. JAMES D. KENNEDY, County Clerk.

NATIONAL COAL BOARD—WEST MIDLANDS DIVISION. Applications are invited for an ARCHITECT, Grade II, £600 x £25 to £650 x £90 (male) and £500 x £20 to £575 (female) in the Divisional Architect's Department of the Board, Headquarters for this appointment will be at Fenton, Stoke-on-Trent. Applicants must have passed the Final Examination of the Royal Institute of British Architects, and have had at least one year's subsequent practical experience, and should be able to prepare sketch plans, working drawings and specifications. The post will be eligible for the Board's Superannuation Scheme. Applications should be sent to the Divisional Establishment Officer, National Coal Board, West Midlands Division, Himley Hall, Dudley, Worcs. 9295

BRANDON AND BYSHOTTLES URBAN DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT. Applications are invited for the appointment of an Assistant in the Architect's Department of the above authority, at a salary in accordance with Grade A.P.T., II, of the National Joint Council's Scheme of Conditions of Service for Local Authorities. Applicants must have a knowledge of design and construction of modern buildings and unit development, and should have several years' previous experience in an Architect's office. The appointment will be for a period of from eighteen months to two years, will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, if the successful applicant has had previous Local Authority service. Canvassing, either directly or indirectly, will disqualify, and applicant must disclose in writing whether to their knowledge they are related to any member of the Council or senior official. Forms of application can be obtained from A. A. Luxmoore, Esq., Clerk to the Council, Browney House, Browney Colliery, Durham. Closing date for applications: Saturday, 22nd August, 1953. A. A. LUXMOORE, Clerk to the Council, Browney House, Browney Colliery, Durham, 30th July, 1953.

APPLICANTS MUST HAVE PASSED THE FINAL EXAMINATION OF THE ROYAL INSTITUTE OF BRITISH ARCHITECTS, AND HAVE HAD AT LEAST ONE YEAR'S SUBSEQUENT PRACTICAL EXPERIENCE, AND SHOULD BE ABLE TO PREPARE SKETCH PLANS, WORKING DRAWINGS AND SPECIFICATIONS. THE POST WILL BE ELIGIBLE FOR THE BOARD'S SUPERANNUATION SCHEME. APPLICATIONS SHOULD BE SENT TO THE DIVISIONAL ESTABLISHMENT OFFICER, NATIONAL COAL BOARD, WEST MIDLANDS DIVISION, HIMLEY HALL, DUDLEY, WORCS. 9295

County Hall, Kingston-upon-Thames, 9313

APPLICANTS MUST HAVE PASSED THE FINAL EXAMINATION OF THE ROYAL INSTITUTE OF BRITISH ARCHITECTS, AND HAVE HAD AT LEAST ONE YEAR'S SUBSEQUENT PRACTICAL EXPERIENCE, AND SHOULD BE ABLE TO PREPARE SKETCH PLANS, WORKING DRAWINGS AND SPECIFICATIONS. THE POST WILL BE ELIGIBLE FOR THE BOARD'S SUPERANNUATION SCHEME. APPLICATIONS SHOULD BE SENT TO THE DIVISIONAL ESTABLISHMENT OFFICER, NATIONAL COAL BOARD, WEST MIDLANDS DIVISION, HIMLEY HALL, DUDLEY, WORCS. 9295

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**STEVENAGE DEVELOPMENT CORPORATION.**  
**CHIEF ARCHITECTS' DEPARTMENT.**  
 Applications are invited for posts as ASSISTANT ARCHITECT on salary grade £555-£530 to £825. Applicants should be fully qualified Architects, with experience of large scale building contracts. Housing accommodation will be available in due course in appropriate cases.  
 Applications, giving details of experience and names of two referees, should be sent to the Chief Administrative Officer, Stevenage Development Corporation, Aston House, near Stevenage, Herts., not later than 1st September, 1953. 9341

**GOVERNMENT NOTICE.**  
**INDUSTRIES DEVELOPMENT ACT**  
 (NORTHERN IRELAND), 1945.  
**IMPORTANT NOTICE TO INDUSTRIAL DEVELOPERS, ARCHITECTS, BUILDING CONTRACTORS AND OTHERS.**

The attention of industrial developers, architects, building contractors and other persons concerned with the erection of buildings required for the purposes of industrial undertakings, is directed to the provisions of Section 9 of the Industries Development Act (Northern Ireland), 1945. The Section provides that a person may not enter into a contract for or begin the erection of such a building, having an aggregate floor space of more than 3,000 sq. ft. at a time earlier than the expiration of three months (or such shorter period as the Ministry may allow) after giving to the Ministry of Commerce a notification in writing of the proposed erection.  
 Notifications are not required in respect of any works already covered by a building licence, but a covering notification should be sent to the Ministry in respect of any work to which the Section applies which has been contracted for or commenced since the abolition of building licensing in Northern Ireland and for which no licence was issued under Defence (General) Regulation 56A.  
 Notifications should be addressed to The Secretary, Ministry of Commerce, Industries Development Branch, Room 34b, Chichester House, Chichester Street, Belfast.  
 The Ministry may, by notice in writing served on any person erecting or proposing to erect such a building, require him to furnish such particulars relating thereto as may be specified in the notice. Every effort will, however, be made to allow work to commence sooner than the end of the maximum three months' period referred to in the Section, the purpose of which is not in any way intended to restrict building, but merely to provide information about industrial development throughout the province.

**MINISTRY OF COMMERCE.**  
 Chichester House, Chichester Street, Belfast.  
 August, 1953. 9335

**THE NORTH WESTERN ELECTRICITY BOARD.**

**APPOINTMENT OF ENGINEERING DRAUGHTSMAN—LEIGH DISTRICT.**  
 Applicants should have had experience in the layout of Sub-stations and diagrams of connections of associated switchgear, transformers and protective systems, and have served a suitable apprenticeship. Possession of the O.N.C. or H.N.C. in Electrical Engineering will be an advantage.  
 Salary scale: £433-£567 p.a. Schedule D.6. N.J.B. conditions.  
 Applications to the Manager, No. 2 Sub-Area, The North-Western Electricity Board, National Buildings, St. Mary's Parsonage, Manchester, 3, by 22nd August, 1953. 9337

**COUNTY BOROUGH OF BARNESLEY.**  
**BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

**APPOINTMENT OF TEMPORARY ASSISTANT ARCHITECT.**  
 Applications are invited from suitably qualified persons for the appointment of Temporary Assistant Architect, in the Borough Engineer's Department, at a salary in accordance with A.P.T., Grade V (£595-£645 per annum).  
 Applicants should be good draughtsmen and have had experience in the design of Municipal housing schemes and/or public buildings.  
 The appointment will be subject to (a) the Scheme of Conditions of Service for A.P.T.C. Staff, (b) any other general conditions of employment in operation within the Corporation from time to time; and (c) to one month's notice on either side.  
 Applications, stating age, present and previous appointments, experience, qualifications, etc., and giving the names of two persons for reference, should reach the Borough Engineer, Town Hall, Barnsley, not later than Tuesday, 1st September, 1953.  
 Canvassing will disqualify, and applicants should disclose whether to their knowledge they are related to any member or senior officer of the Council.  
 A. E. GILFILLAN,  
 Town Clerk.  
 Town Hall, Barnsley.  
 August, 1953. 9336

**BRITISH STANDARDS INSTITUTION**  
 requires an ARCHITECT to lead investigations into the applications of Modular Co-ordination to Building. The appointment is expected to continue for two years and possibly longer. Salary range: £1,200 to £1,500. Apply in writing, giving age, qualifications, experience, and also reasons for suitability for the appointment, to the Establishment Officer, B.S.I., 24, Victoria Street, S.W.1. 9327

**PERTH AND KINROSS JOINT COUNTY COUNCIL** require ASSISTANT ARCHITECT. Experience in the design, construction and maintenance of Local Authority properties is desirable. House available. Salary scale: £550-£650. Particulars and application forms from County Clerk, County Offices, York Place, Perth. Applications to be lodged by 24th August. 9300

**Tenders for Contracts**

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

**METROPOLITAN BOROUGH OF CAMBERWELL.**  
**PERMANENT HOUSING SCHEMES.**  
**PANELS OF CONTRACTORS.**

The Council invite applications from contractors who wish to submit tenders for the erection of dwellings in future permanent housing schemes. Three panels will be compiled covering (a) work up to £10,000; (b) work from £10,000 to £25,000; (c) work from £25,000 to £50,000. A limited number of applicants will be selected for each panel, but the Council reserve the right to add from time to time other firms to the panels.  
 Applications, stating for which panel(s) the application is made, together with a statement of recent housing contracts, or other work carried out and the names of referees, should be sent to the Town Clerk, Town Hall, S.E.5, not later than 19th August, 1953.  
 Firms selected to tender will be required to state on the tender form whether they are parties to schemes such as that operated by the London Builders' conference relating to the submission of tenders.  
 A deposit of two guineas will be required subsequently in respect of each tender submitted for categories (a) and (b) and five guineas in respect of category (c). Deposit will be returnable on receipt of a bona fide tender.  
 The Council reserve the right to make such enquiries into the bona fides of applicants as may be deemed necessary, and do not bind themselves to invite every applicant to tender or to accept the lowest or any tender. 9281

**BOROUGH OF ALTRINCHAM.**  
**MARKET HALL.**  
**SUPPLY AND ERECTION OF COLLAPSIBLE GATES.**

Tenders are invited for the supply and erection of approximately 100 1 in. yds. of collapsible fencing 8 ft. 6 in. high around the open Market. Specifications and plans may be obtained on application to the Department of the Borough Surveyor, Town Hall, Altrincham, and Tenders in the envelope provided are to be delivered to the Town Clerk, Town Hall, Altrincham, not later than Friday, 28th August.  
 The Council does not bind itself to accept the lowest or any Tender.

**A. GLOSSOP.**  
 Town Clerk.  
 9315

**Architectural Appointments Vacant**  
 4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she is, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

**TO ALL APPLICATIONS MADE TO BOX No. 8996:** Due to the number of applications received, it has not been possible to reply personally to them, but wish to confirm to all concerned that the posts have now been filled. 9304

**ASSISTANT** required for large general Architectural Practice with offices in Maidenhead. Some experience in specification writing essential. Salary £500 to £500, according to experience. Box 8933.

**ARCHITECTURAL ASSISTANTS** required immediately with 3 to 5 years' experience. 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. 9265

**ARCHITECTURAL ASSISTANT, Intermediate** R.I.B.A. Standard with office experience, required in small private office. Write stating experience and salary required, to Robert S. Shaw, A.R.I.B.A., 402, Bitterne Road, Southampton. 9118

**ILFORD, LIMITED,** require Architectural Assistants with at least two years' office experience. Minimum standard R.I.B.A., Intermediate. Five day working week with pension scheme and staff canteen in operation. Applications in writing, giving age, training, and experience to Chief Staff Architect, Ilford Limited, Romford, Essex. 9182

**PROGRESSIVE** London office require SENIOR ARCHITECTURAL ASSISTANT (aged 30-35 approx.), qualified, and experienced in private practice, preferably familiar with hospital work. Thorough knowledge of design and construction essential. Good opportunity for architect with initiative. Salary: £700-£800 p.a., according to ability and experience. Box 9329.

**THE CO-OPERATIVE WHOLESALE SOCIETY LTD.,** invite applications for the appointment of Assistant Architects on the staff of the Manchester Architect's Department. Applicants should be of Intermediate R.I.B.A. standard with good practical office experience, and capable of preparing sketch plans, working drawings and details under supervision of Senior Architects.  
 The appointments are permanent with prospects of promotion. Successful candidates will be required to undergo a medical examination for entry into a compulsory Superannuation Scheme. Applications stating age, experience, qualifications and salary required to G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester. 9276

**ARCHITECTURAL ASSISTANT** required in Westminster office of Consulting Engineers for detailing designs of Power Stations, Administrative Office Blocks, etc. Apply stating age, experience and qualifications Box 9308.

**ASSISTANT** with minimum of three years' office experience required immediately for busy contemporary office W.V.I. Must be efficient draughtsman for working drawings, sketch plans, etc. Salary according to experience. Box 9309.

**ASSISTANT ARCHITECT** (45), registered, fully experienced; car owner. Also two Assistant Architects Inter. standard required by large brewery company in the north west. Write giving details of experience and salary required to Box 9311.

**ASSISTANT** required temporarily for interesting work on architectural text book. Intermediate standard. Typing ability an advantage. State qualifications. Box 9320.

**SENIOR ARCHITECTURAL ASSISTANT.** Applications are invited for the appointment of Senior Architectural Assistants at a salary by arrangement within the scale of £650 to £850. Applicants should be qualified members of the R.I.B.A. and have had considerable office experience in either Industrial or Housing work and be capable of administering building contracts, Superannuation and profit sharing schemes are in operation. The successful applicant will be required to live in or near Rugby, but a house will not be provided. Applications, giving particulars of age, qualifications and experience, with the names of two referees should be submitted not later than 15th August, 1953. Douglas J. Oliver, Chartered Architects and Planning Consultants, Members of the Grenfell Baines Group, 10, St. Matthews Street, Rugby. 9310

**YOUNG ARCHITECT,** with flair for Domestic Elevational Perspectives, living West London postal district, wishing to augment income in spare time. Ring Hallett, Acorn 3898. 9328

**ARCHITECT,** essentially experienced in a similar work, required by London firm of Contractors for lay-out, design and supervision of Housing Estates and Blocks of Flats, State age, experience, qualification, salary required, date services available. Box 9326.

**OLD-ESTABLISHED** Newcastle-upon-Tyne Company, Agents for Fabricators of Structural Steel Work for Schools and Factories, also Ventilation and Glazing Products, require REPRESENTATIVE for North of England. Excellent opportunity for man with Architectural qualifications, good personality, willing to consider appointment on basic salary and commission. Pension scheme. Box 9330.

**BOURNEMOUTH** Chartered Architects require ASSISTANT. Applicant should be at least Intermediate standard, and with sound knowledge of building construction; capable of preparing working drawings, details and specifications, and some general supervision. Salary according to capability. All details to Box 9346.

**ASSISTANT ARCHITECT** required. Salary: £600 p.a. or thereabouts, according to experience. Knowledge of hospital design an advantage. Apply, giving full particulars, to Frederick Gibberd, 8, Percy Street, W.1. 9342

**ARCHITECTURAL ASSISTANT (SENIOR)** required. Please write, stating details of experience, qualifications and salary required. Martin & Martin & W. H. Ward, 106, Colmore Row, Birmingham, 3. 9344

**ARCHITECTURAL ASSISTANT, Inter.** R.I.B.A. standard, with office experience. Please write, stating experience and salary required. Martin & Martin & W. H. Ward, 106, Colmore Row, Birmingham, 3. 9345

**Architectural Appointments Wanted**

**ARCHITECTURAL STUDENT** taking Inter. in November requires post in Edinburgh from second week in September. Box 734.

**ARCHITECTURAL ASSISTANT, 26,** experienced in producing design, & in scale working drawings and details, surveying and levelling, desires position in London Architect's office with contemporary outlook. Box 9303.

**SENIOR ASSISTANT** (age 35); school trained; 15 years' varied office experience all branches of the profession; neat, accurate, and essentially quick draughtsman; excellent references. Surveys, conversions, specs,  $\frac{1}{8}$  in.,  $\frac{1}{4}$  in. scales,  $\frac{1}{2}$  in. W.D. F.S.; perspectives, rough sketches to completion; flats, industrial buildings, schools, hospitals, housing, cinemas, estate layouts, etc. Own car. Desires engagement with first class firm in London Area, or Southern County if accommodation available. No objection to temporary engagement. Minimum salary requested £750 per annum. Box 738.

**B. ARCH.** (Rand), A.R.I.B.A., 3 years' office experience, seeks post in firm doing work of contemporary nature. Will be abroad February/March. Box 9331.

**ARCHITECT**, A.R.I.B.A., A.A. Dipl. Hons. (36 years), 6 years' experience in design, construction, supervision and dealing with Local Authorities, requires position leading to Partnership, or 4 days per week job, the latter at salary of £850 per annum. Box 739.

**SENIOR ASSISTANT** (34), with 11 years' varying experience, used to supervision of large schemes of flats, considers change of position, and possibly type of work, in London or S.W. Minimum salary: £750 per annum. Box 740.

**EDINBURGH**.—Woman A.R.I.B.A. (28), school-trained, 6 years' general experience, accustomed to responsibility, requires job in Edinburgh, preferably general private practice, with opportunities site supervision. Available interview Edinburgh, August 24-September 5. Box 741.

**SENIOR ASSISTANT** (26), B.A., A.R.I.B.A., seeks further responsible position in contemporary London office or abroad. Varied experience, including supervision of industrial buildings, welfare, and private housing. Own car. Box 9333.

**CHIEF ASSISTANT**, first class Hons. Degree, A.R.I.B.A. (39), widely experienced, seeks position of responsibility, with future prospects. Salary by arrangement. Box 9334.

**ARCHITECTURAL ASSISTANT** (Dipl. Arch.), 4 years' office experience, age 28, seeks position in London for short period. Box 742.

**SENIOR ASSISTANT**, 23 years' experience in the design and construction of domestic buildings, large industrial projects, factories, research laboratories, etc., able to control works throughout, supervision of draughtsmen and site works, seeks responsible senior position. Box 743.

**ASSOCIATE**, 5 years' varied experience, seeks responsible position in contemporary office, temporary or permanent. London area. Salary by arrangement. Box 744.

**Other Appointments Vacant**

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

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment, is exempted from the provisions of the Notification of Vacancies Order, 1952.

**REQUIRED. — DRAWING OFFICE MANAGER AND TECHNICAL EDITOR** for Architectural Magazine. Applicants must be first-class draughtsmen, possess a sound knowledge of building practice, and be interested in the preparation of technical data; salary according to experience. Applications in writing only, to the Organising Secretary, The Architectural Press, Ltd., 9-13, Queen Anne's Gate, London, S.W.1. 9158

**DRAUGHTSMAN** required for Exhibition and Shopfitting Company with wide knowledge of timber fabrication and construction. Interesting and progressive post for man with initiative. Write in first instance giving details of experience and salary required to J. E. Slater, Ltd., Smeeton Road, Kibworth, Leicestershire. 9318

**QUANTITY SURVEYORS** required by large firm of Building Contractors in the West of Scotland, in the following grades:—

(1) **ESTIMATING SURVEYOR**. Must have considerable experience in scheduling, estimating, and preparation of tenders. Commencing salary: £800-£1,000 per annum.

(2) **SENIOR SURVEYORS**. Thorough knowledge of the preparation of schedules for all trades, schedules of materials and re-measurement of all trades. Commencing salary range: £600-£800 per annum.

(3) **JUNIOR SURVEYORS**. Experience in re-measurement and some knowledge of scheduling. Commencing salary range: £350-£500.

Commencing salary in each grade will depend upon qualifications and experience. Staff Pension Scheme in operation. Applications, stating full particulars of previous experience and age, should be addressed to Box 9272.

**REPRESENTATIVE** required by well-known London Builders' Merchants to call on Architects. Must be experienced. Write, giving full particulars, to Box 9343.

**For Sale or Wanted**

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

**RECONDITIONED EX-ARMY HUTS**, and manufactured buildings. Timber, Asbestos, Nissen type, Hall type, etc. All sizes and prices. Write, call, or telephone, Universal Supplies (Belvedere), Ltd., Dept. 25, Crabtree Manorway, Belvedere, Kent. Tel.: Erith 2948. 6803

**TYPEWRITERS**.—All makes and prices. Office or Portable. Most language keyboards. Also Adding, Listing and Calculating Machines for sale—H.P. or Hire. Nu-Bilt Typewriters, Ltd. (London's Largest Stockists), 25, Southampton Row, W.C.1 (near Holborn Tube Station). CHA. 8172 (8 lines). 9280

**AS new**, Architect's Oak Plan Cabinet by a Mason of Colchester; double elephant size; 6 drawers; cost £33, will take £25; carriage paid, Mrs. Robertson, College Gate House, Bury-St.-Edmunds. 9319

**Services Offered**

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

**SURVEYING and Levelling of Sites**, Bills of Quantities, Variation Accounts, Survey of Buildings and Reports. Qualified Surveyor LIV. 1839. Box 8822.

**SURVEYING and Levelling of Building Sites** and Measured Drawings undertaken by experienced Surveyor at moderate charges. Box 6583.

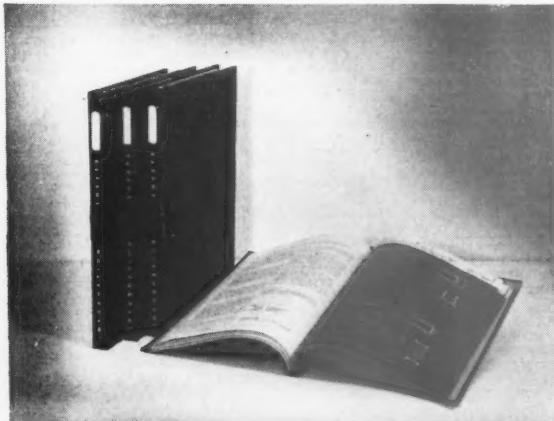
**CHARTERED ARCHITECT** with 25 years' experience on large scale industrial and Metropolitan Housing Developments offers assistance to busy Architects. Small office staff available. Preparation of constructional details, working drawings, sketches, reports, surveys and levels. Box 9321.

**BUILDING SURVEYOR**, A.I.A.S., aged 33, studying special Final R.I.B.A., seeks position of trust and responsibility where keenness and drive would be appreciated; London or Southern suburbs; wide experience most aspects of building; salary by arrangement. Box 9306.

**PERSPECTIVES** and presentation drawings by experienced Architect and Draughtsman. Box 9305.

**DRAUGHTSMAN and Artist**, with considerable varied experience, requires free-lance drawing and/or tracing work. Would consider full-time position with reasonable prospects. Willing to specialise. Box 9332.

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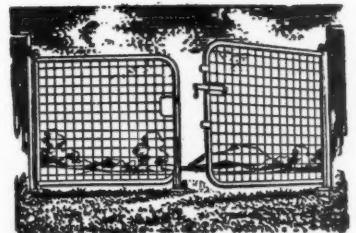
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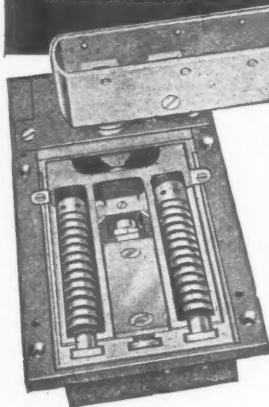
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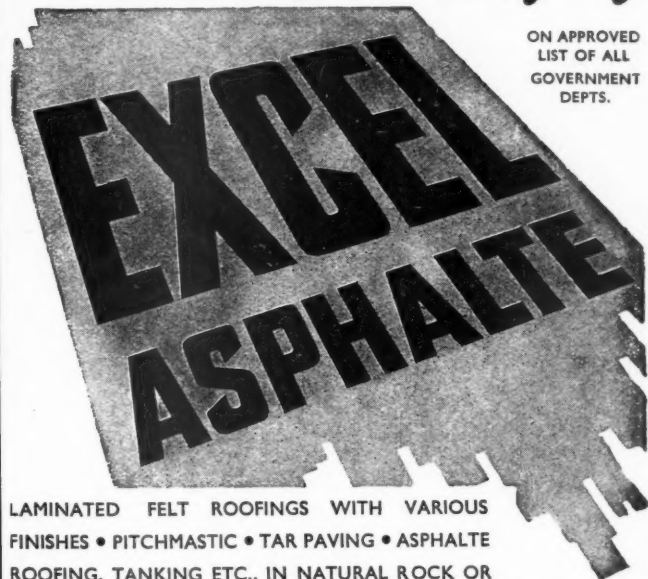
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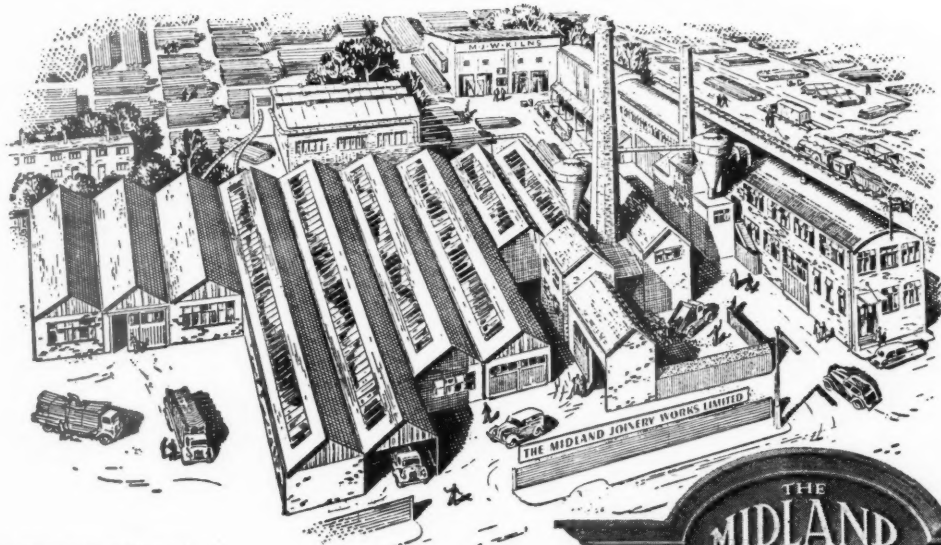
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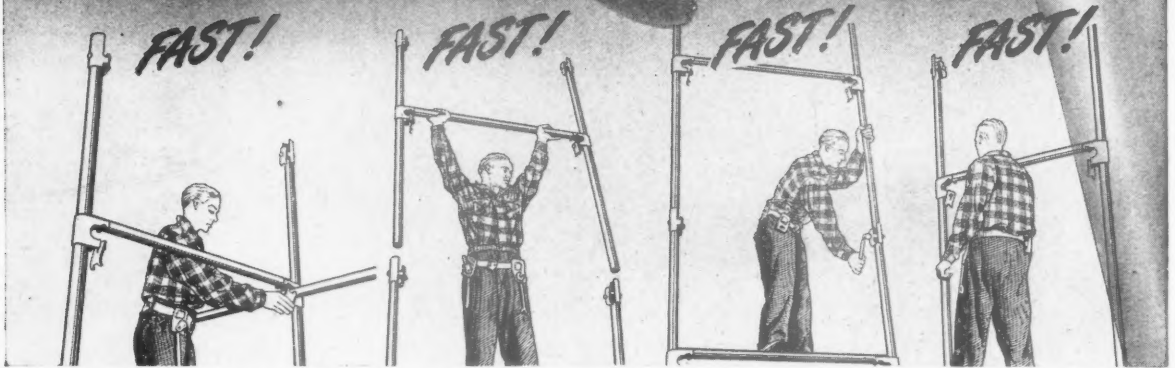


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