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The Architects' JOURNAL for August 26, 1954

THE ARTS DEPT.

THE ARCHITECTS' JOURNAL

PUBLISHED MONTHLY
SEP 1954



Standard contents

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

NEWS and COMMENT

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- Letters
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PHYSICAL PLANNING

SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments Wanted and Vacant

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

- AA Architectural Association, 34/6, Bedford Square, W.C.1. Museum 0974
- AAI Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts. Langham 5721
- ABS Architects' Benevolent Society. 66, Portland Place, W.1. Victoria 0447-8
- ABT Association of Building Technicians. 5, Ashley Place, S.W.1. Whitehall 9737
- ACGB Arts Council of Great Britain. 4, St. James' Square, S.W.1. Mayfair 7501/8
- ADA Aluminium Development Association. 33, Grosvenor Street, W.1. Langham 8738
- ArchSA Architectural Students' Association. 34/36, Bedford Square, W.C.1. Langham 8738
- ARCUK Architects' Registration Council. 68, Portland Place, W.1. Langham 5721
- BAE Board of Architectural Education. 66, Portland Place, W.1. Reliance 7611, Ext. 1706
- BATC Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. Museum 5400
- BC Building Centre. 26, Store Street, Tottenham Court Road, W.C.1. Welbeck 4185
- BCC British Colour Council. 13, Portman Square, W.1. Ealing 9621
- BCCF British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5. Redditch 716
- BCIRA British Cast Iron Research Association. Alvechurch, Birmingham. Fremantle 8494
- BDA British Door Association. 10, The Boltons, S.W.10. Temple Bar 9434
- BEDA British Electrical Development Association. 2, Savoy Hill, W.C.2. Glasgow Central 2891
- BIA British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. Euston 5385
- BIAE British Institute of Adult Education. 29, Tavistock Square, W.C.1. Chancery 7772
- BID Building Industries Distributors. 52, High Holborn, W.C.1. Langham 2785
- BINC Building Industries National Council. 11, Weymouth Street, W.1. Trafalgar 8855
- BOT Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1. Mansion House 9383
- BRDB British Rubber Development Board. Market Buildings, Mark Lane, E.C.3. Garston 2246
- BRS Building Research Station. Bucknalls Lane, Watford. Mayfair 0515
- BSA Building Societies Association. 14, Park Street, W.1. Mayfair 9000
- BSI British Standards Institution. British Standards House, 2, Park St., W.1. Holborn 8146/7
- BTE Building Trades Exhibition. 4, Vernon Place, W.C.1.
- CABAS City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Civic Centre, Newport, Mon. Newport 5491
- CAS County Architects' Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester. Chichester 3001
- CCA Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. Sloane 5255
- CCP Council for Codes of Practice. Lambeth Bridge House, S.E.1. Reliance 7611
- CDA Copper Development Association. Kendals Hall, Radlett, Herts. Radlett 5616
- CIAM Congrès Internationaux d'Architecture Moderne. Doldertal, 7, Zurich, Switzerland.
- COID Council of Industrial Design. Tilbury House, Petty France, S.W.1. Abbey 7080
- CPRE Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280
- CUC Coal Utilization Council. 3, Upper Belgrave Street, S.W.1. Sloane 9116
- CVE Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1. Reading 72255
- DGW Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 7611
- DIA Design and Industries Association. 13, Suffolk Street, S.W.1. Whitehall 0540
- DPT Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1. Trafalgar 8855
- EJMA English Joinery Manufacturers' Association (Incorporated), Sackville House, 40, Piccadilly, W.1. Regent 4448
- EPNS English Place-Name Society. 7, Selwyn Gardens, Cambridge.
- FAS Faculty of Architects and Surveyors. 67, Oxford Street, W.1. Gerrard 0021
- FASS Federation of Association of Specialists and Sub-Contractors, Artillery House, Artillery Row, S.W.1. Abbey 7232
- FBBDO Fibre Building Board Development Organisation, Ltd., Melbourn House, Aldwych, W.C.2. Temple Bar 4561
- FBI Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711
- FC Forestry Commission. 25, Savile Row, W.1.
- FCMI Federation of Coated Macadam Industries. 37, Chester Square, S.W.1. Sloane 1002
- FDMA The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623
- FLD Friends of the Lake District. Pennington House, nr. Ulverston, Lancs. Ulverston 201
- FMB Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C. Chancery 7583
- FPC The Federation of Painting Contractors, St. Stephen's House, S.W.1. Whitehall 3902
- FRHB Federation of Registered House Builders. 82, New Cavendish Street, W.1. Langham 4041
- FS (Eng.) Faculty of Surveyors of England. 67, Oxford Street, W.1. Gerrard 0021
- GC Gas Council. 1, Grosvenor Place, S.W.1. Sloane 4554
- GG Georgian Group. 27, Grosvenor Place, S.W.1. Sloane 2844
- HC Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. Whitehall 2881
- IAAS Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 5615
- ICA Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1. Grosvenor 6186
- ICE Institution of Civil Engineers. Great George Street, S.W.1. Whitehall 4577
- IEE Institution of Electrical Engineers. Savoy Place, W.C.2. Temple Bar 7676
- IES Illuminating Engineering Society. 32, Victoria Street, S.W.1. Abbey 5215

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[Vol. 120

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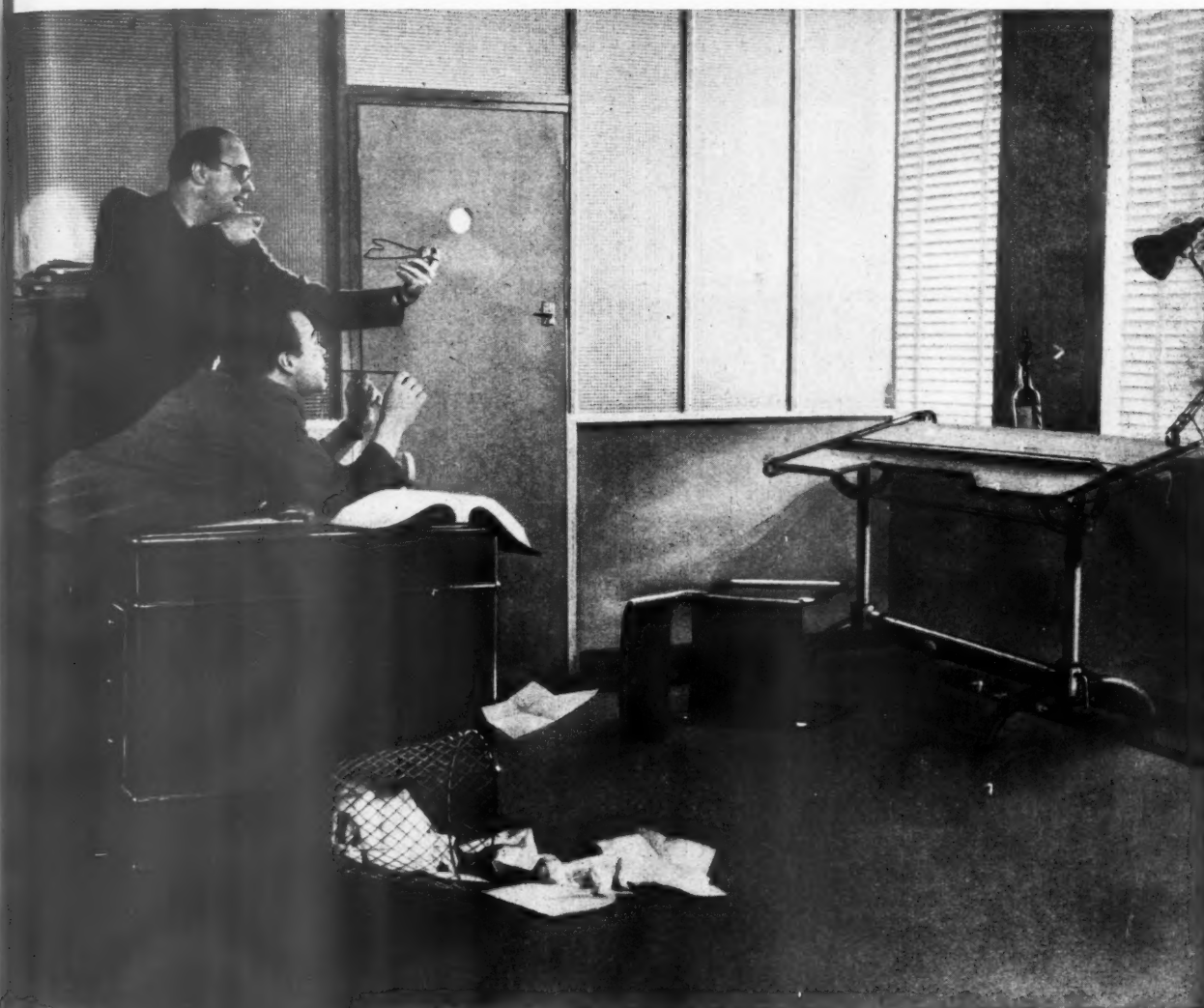
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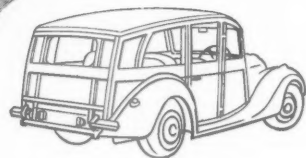
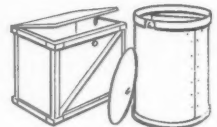
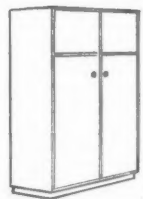
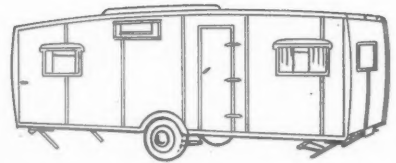
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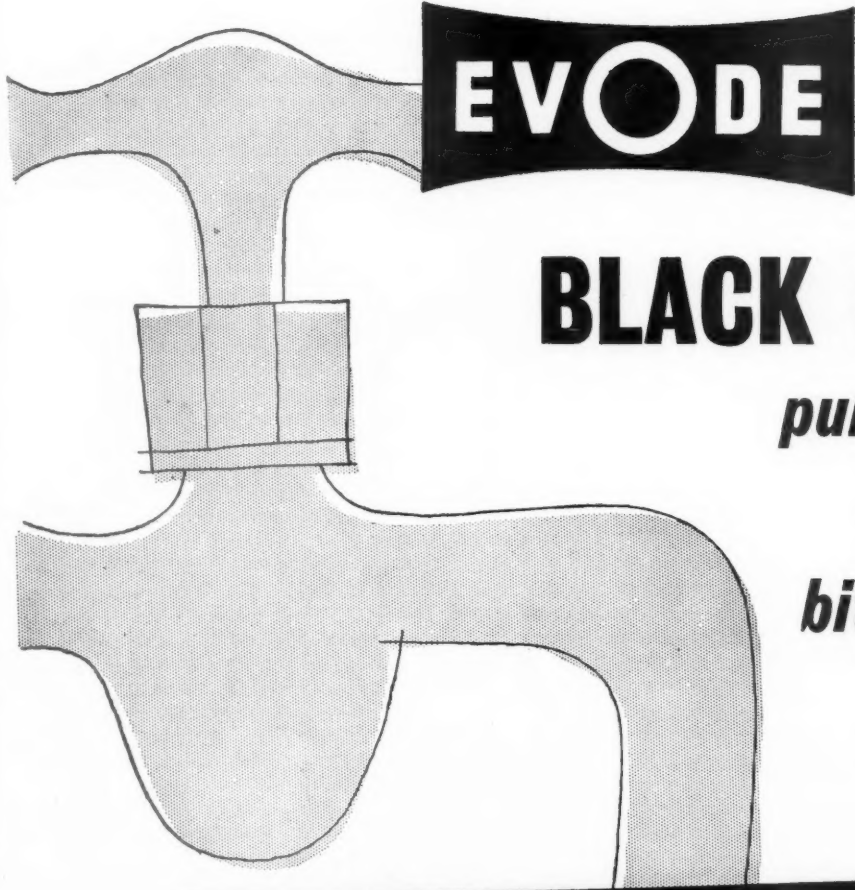


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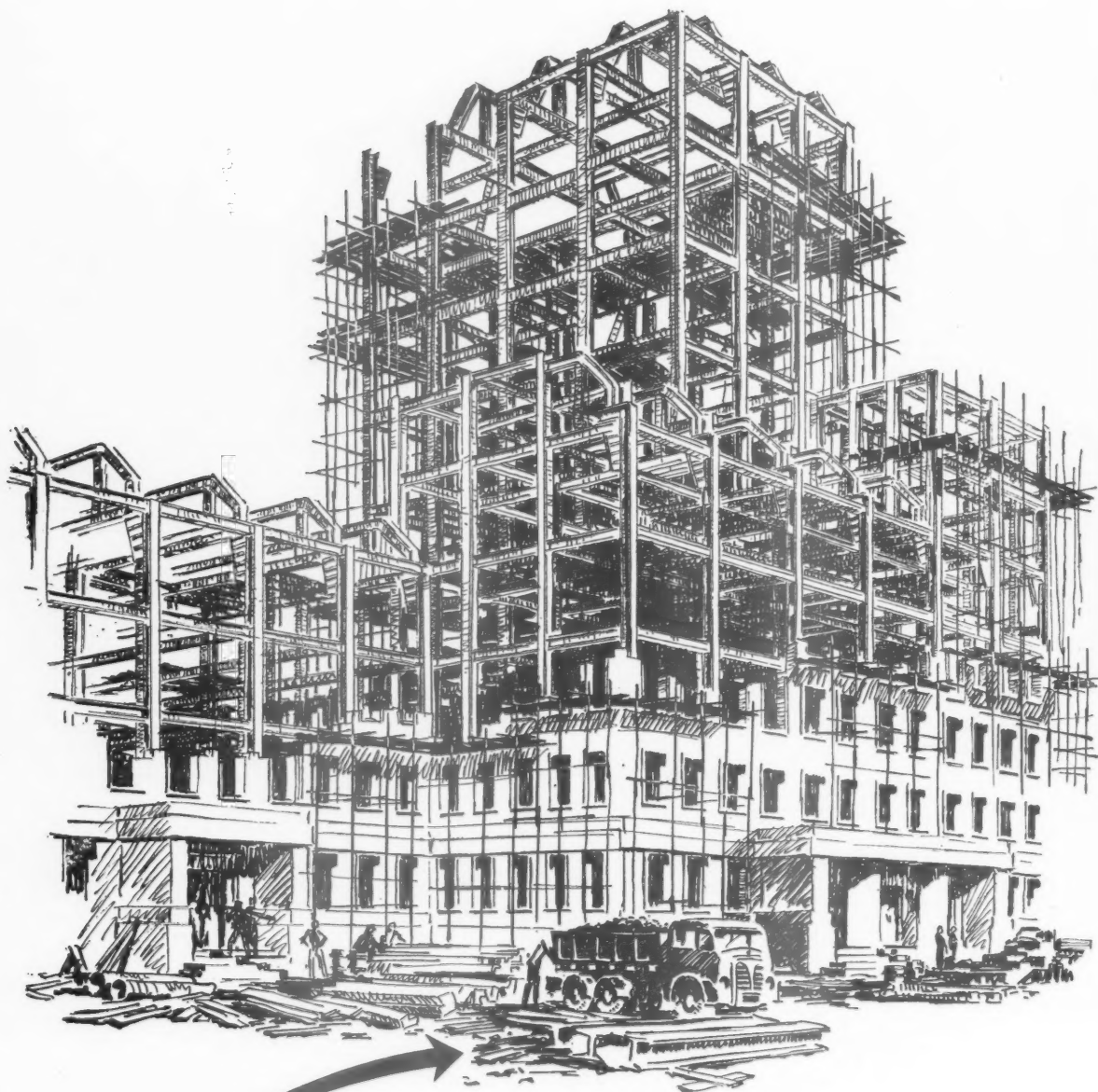
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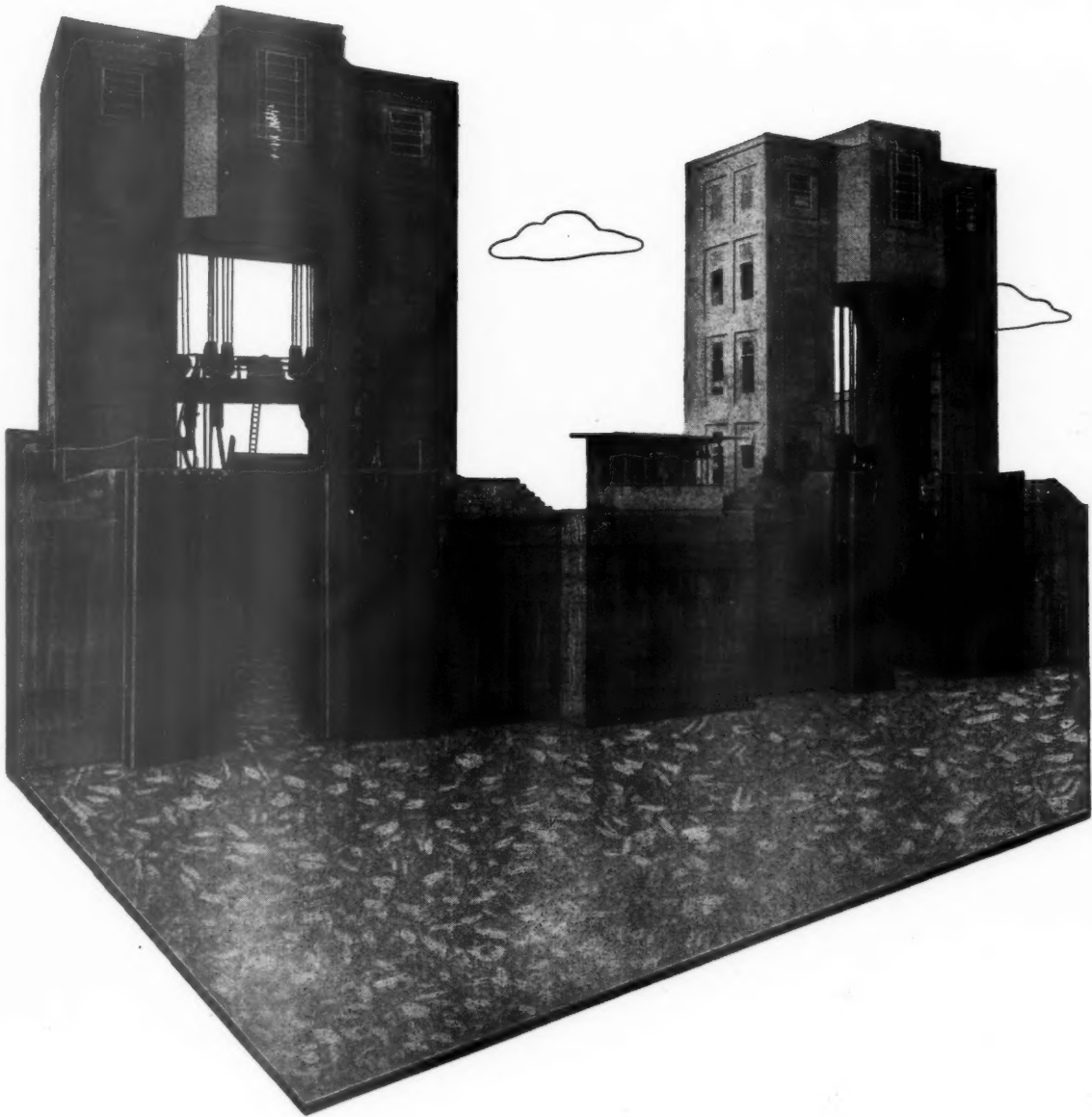
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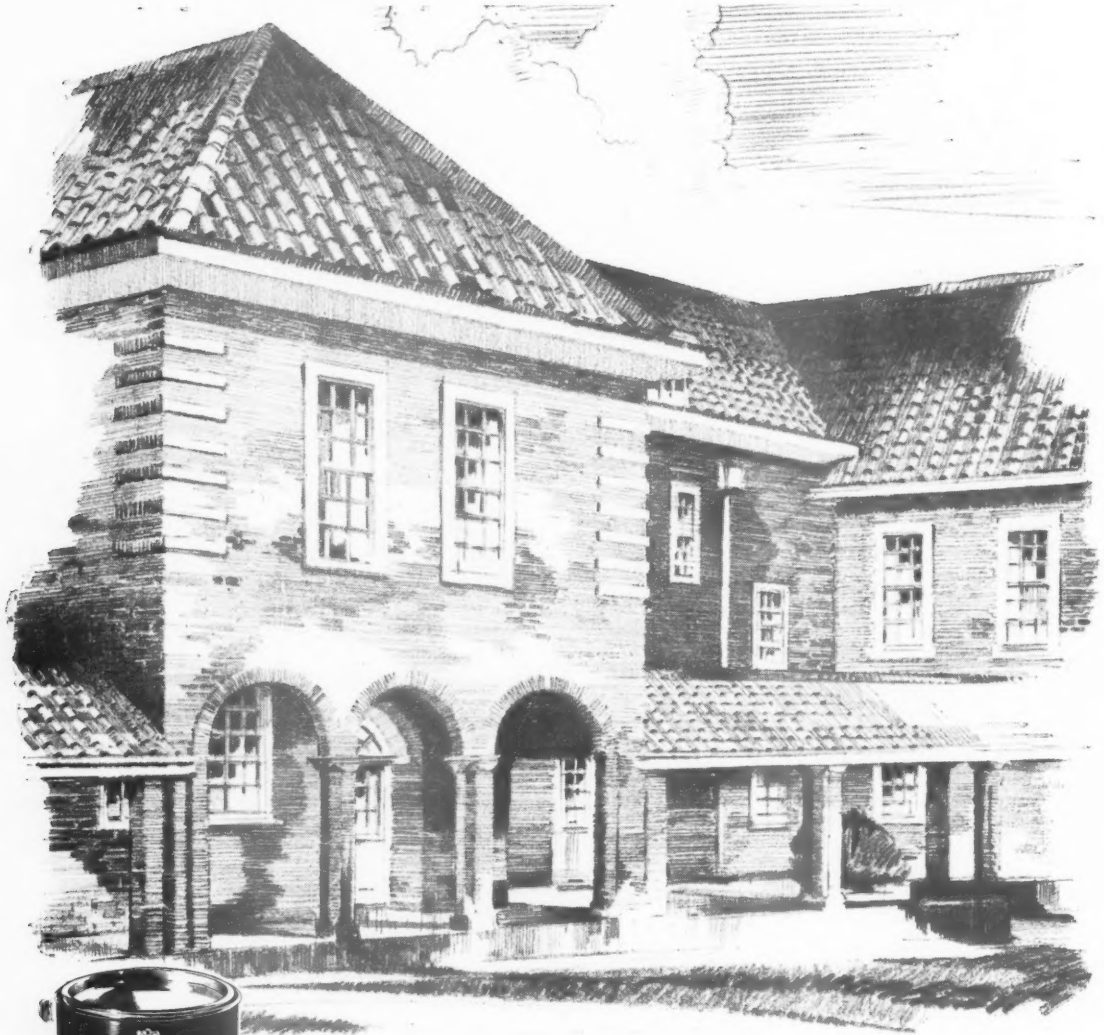
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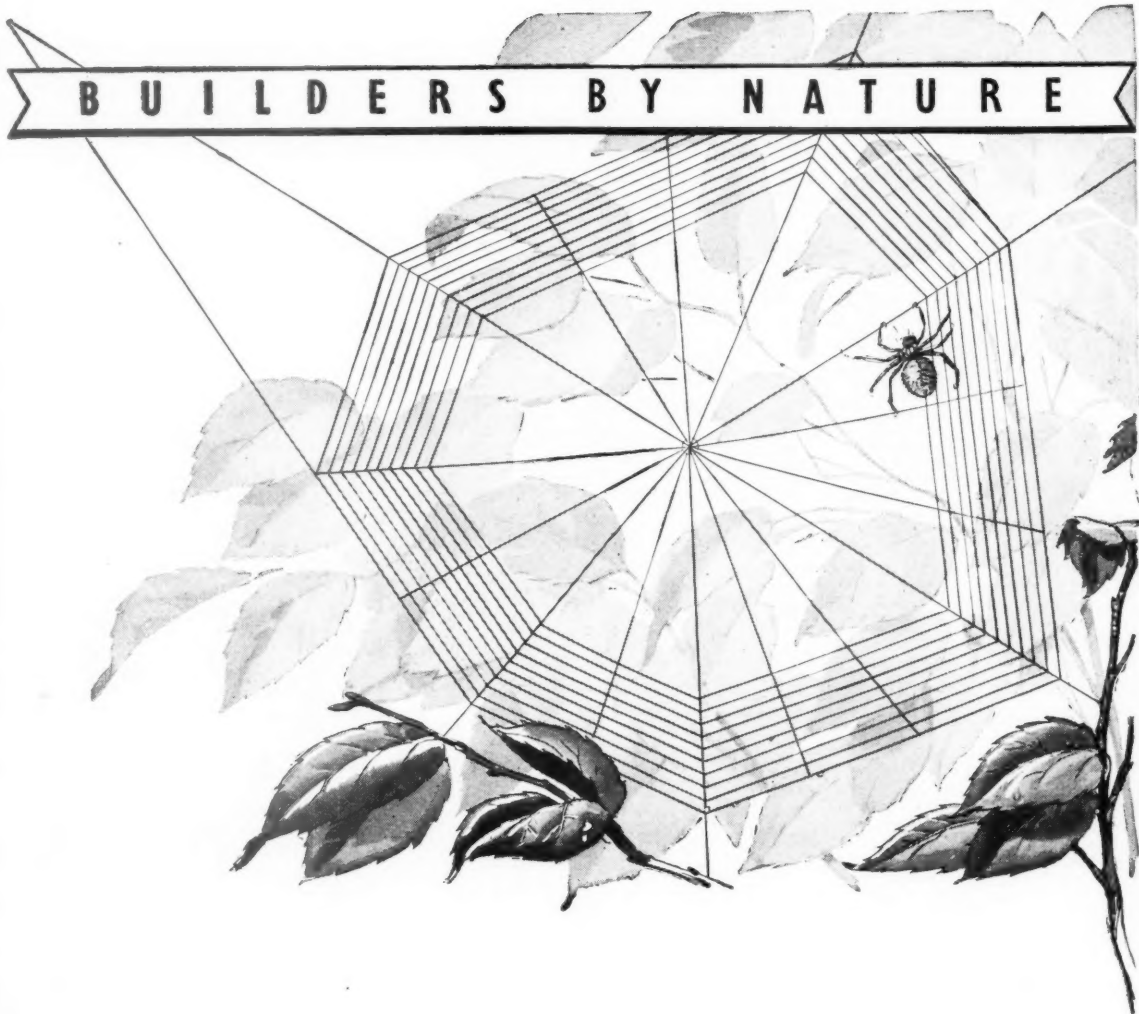


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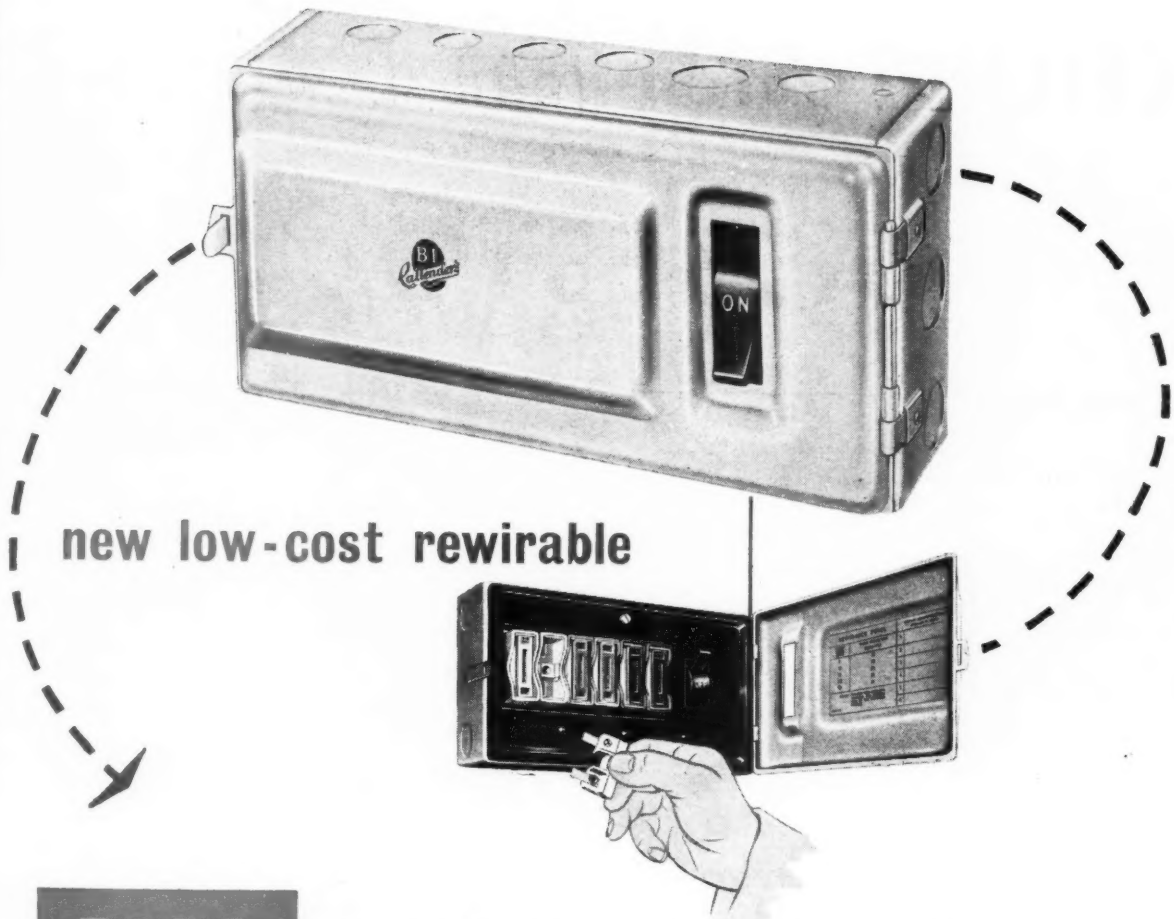
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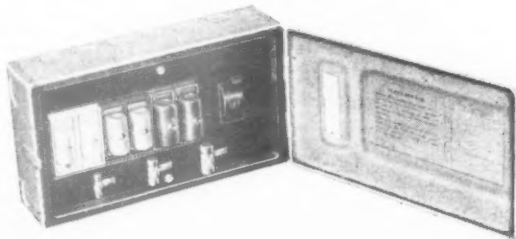


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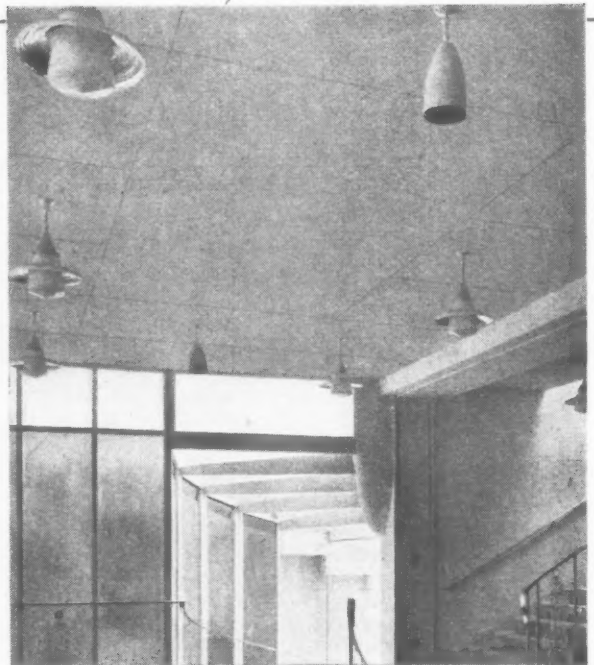
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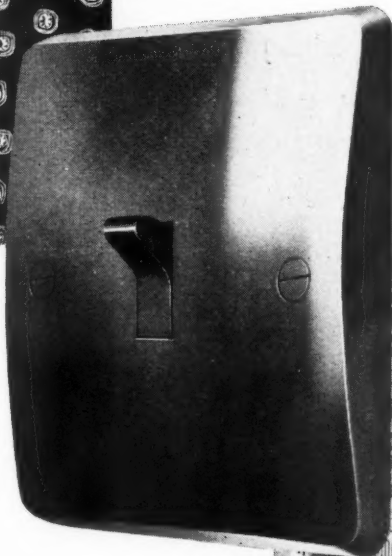
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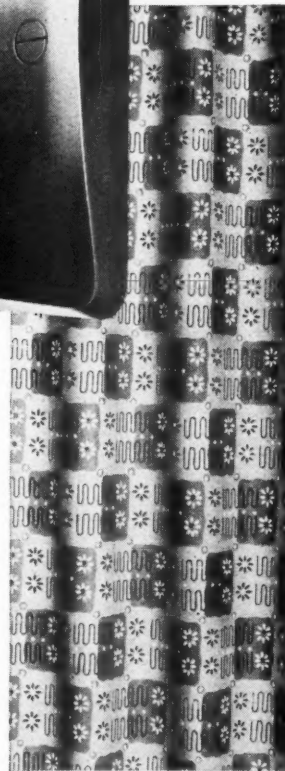
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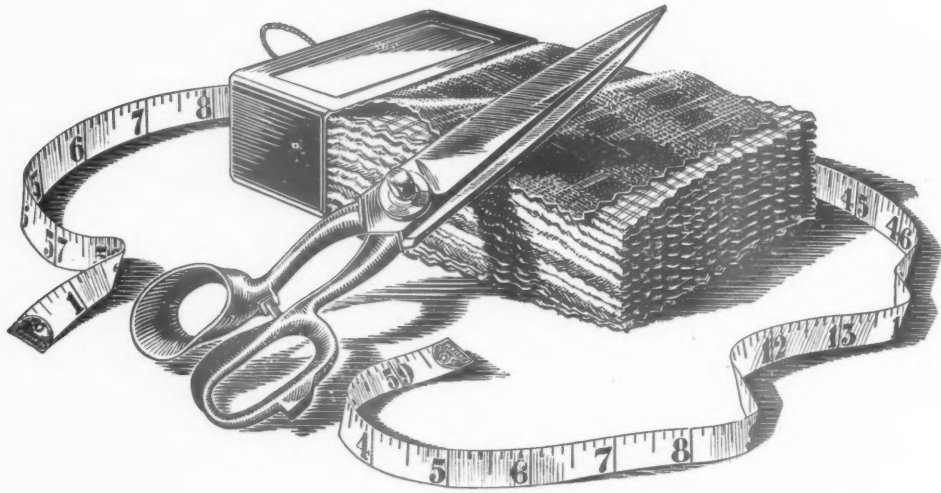
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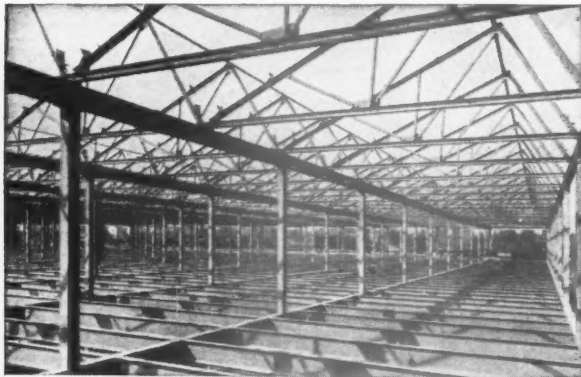
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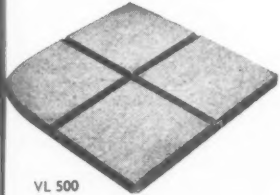
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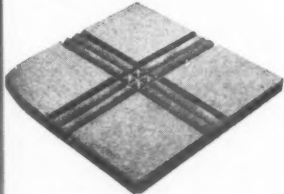
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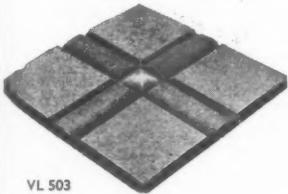
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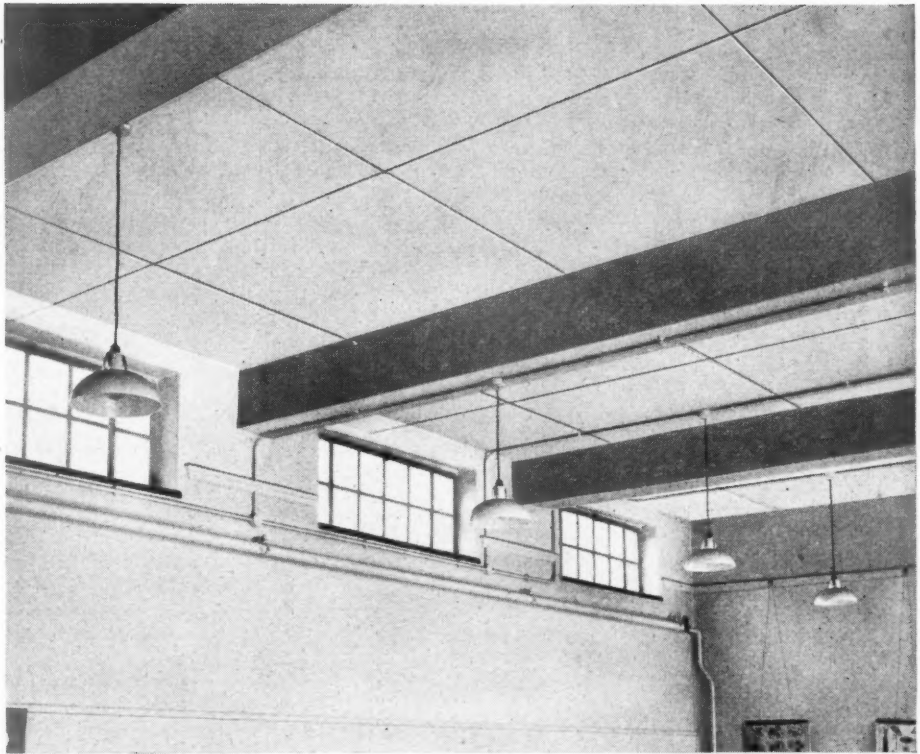
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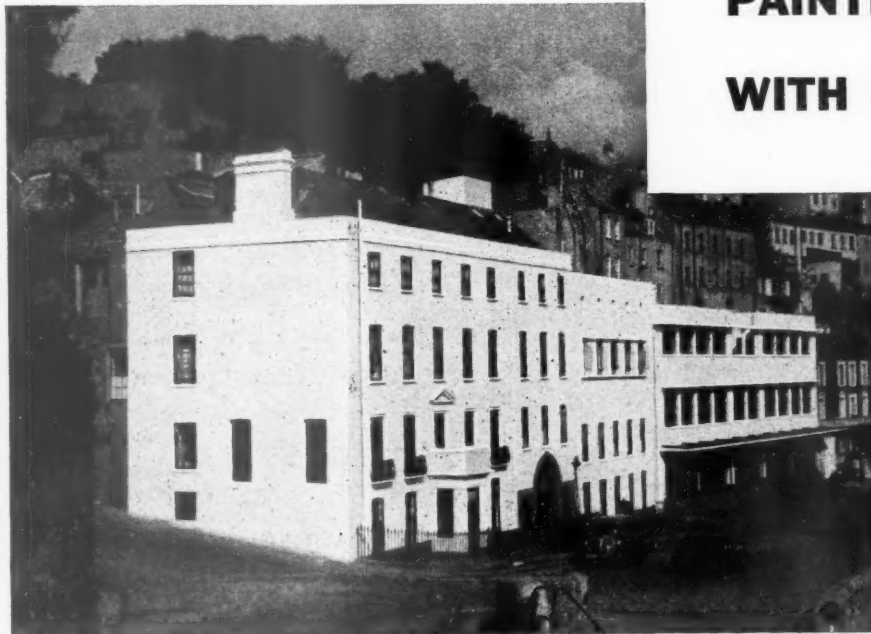
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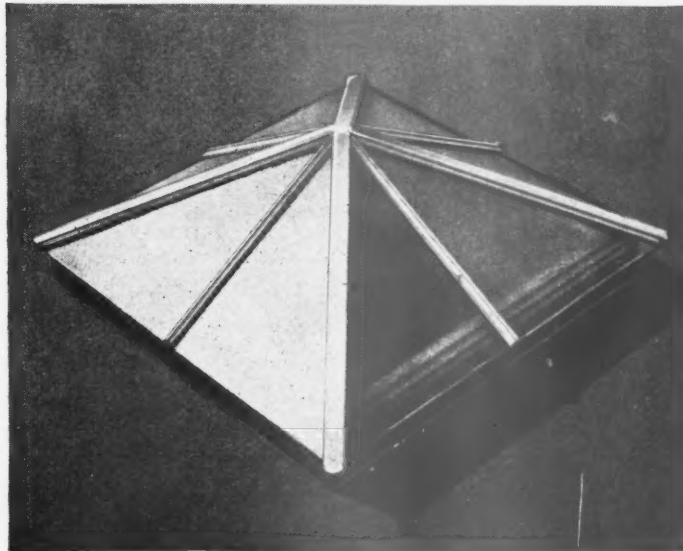
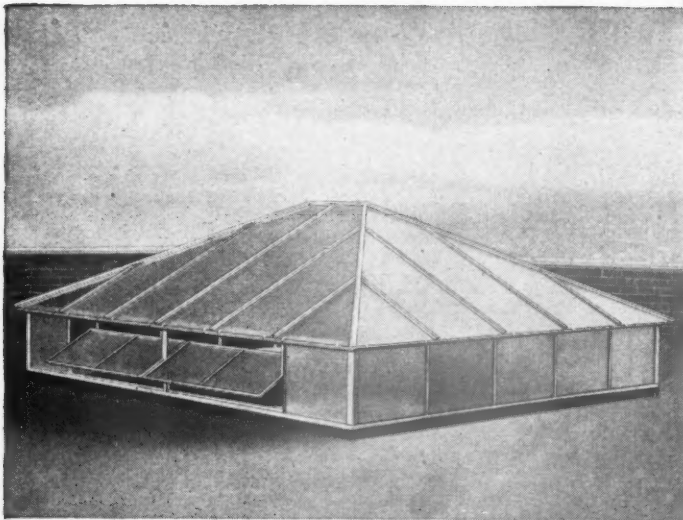
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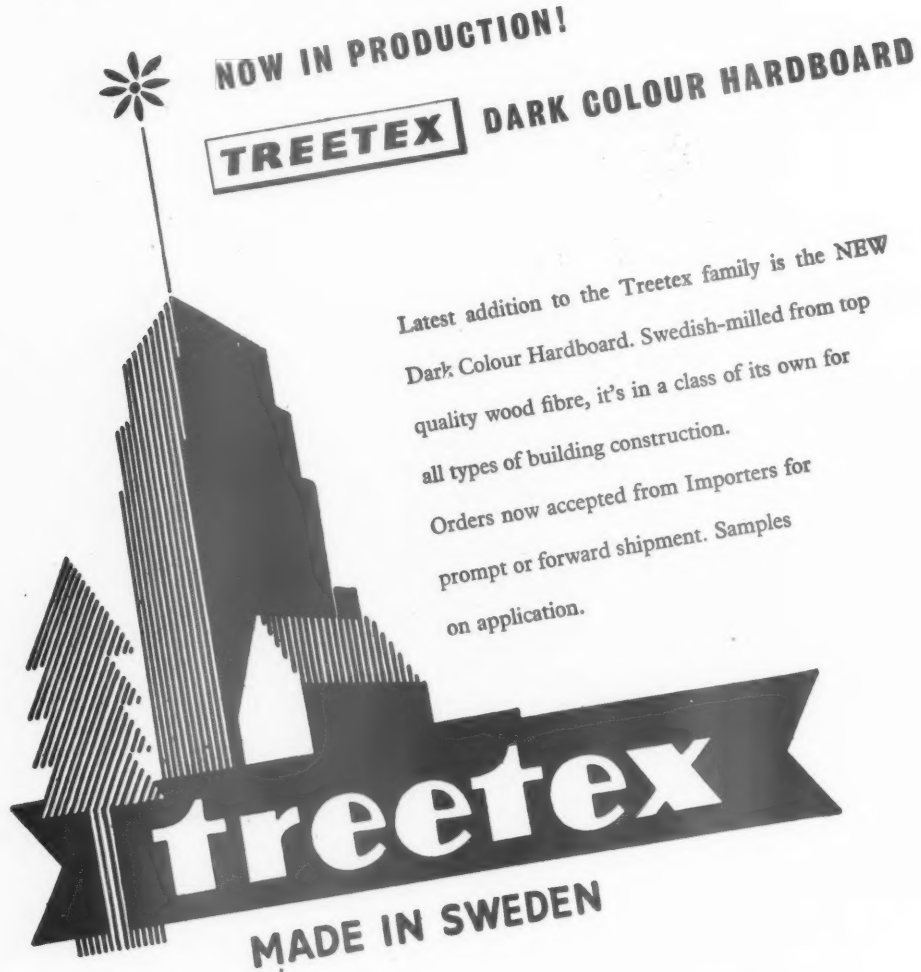
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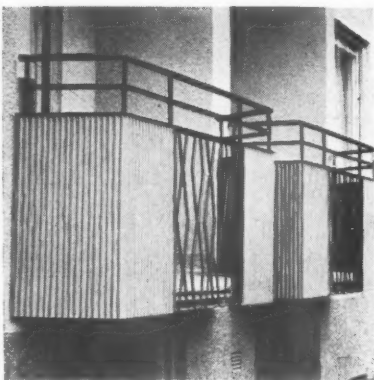
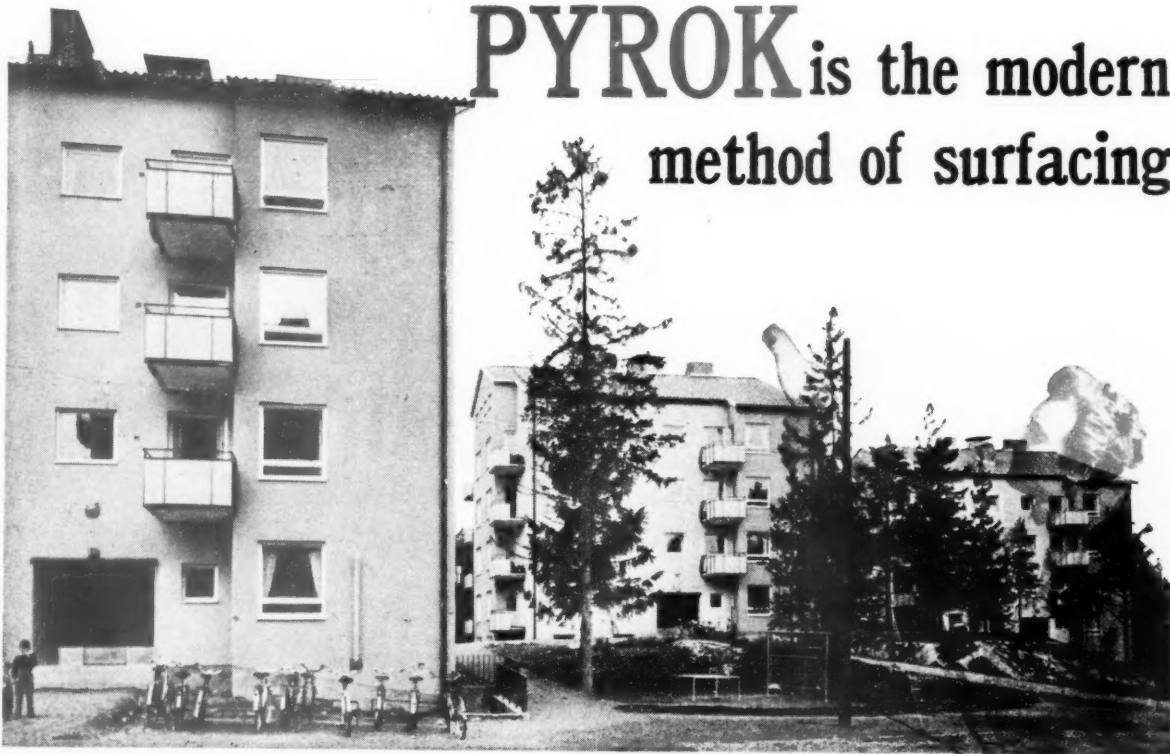
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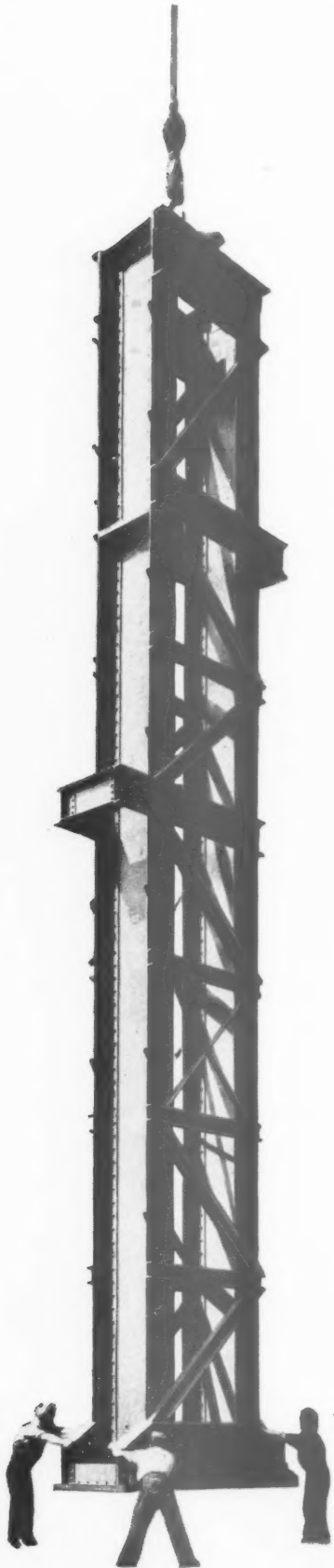
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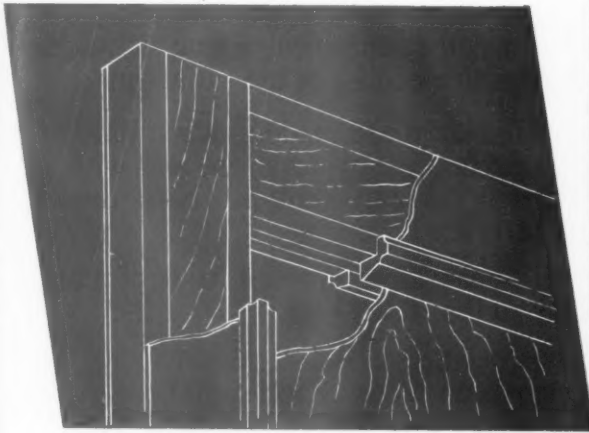
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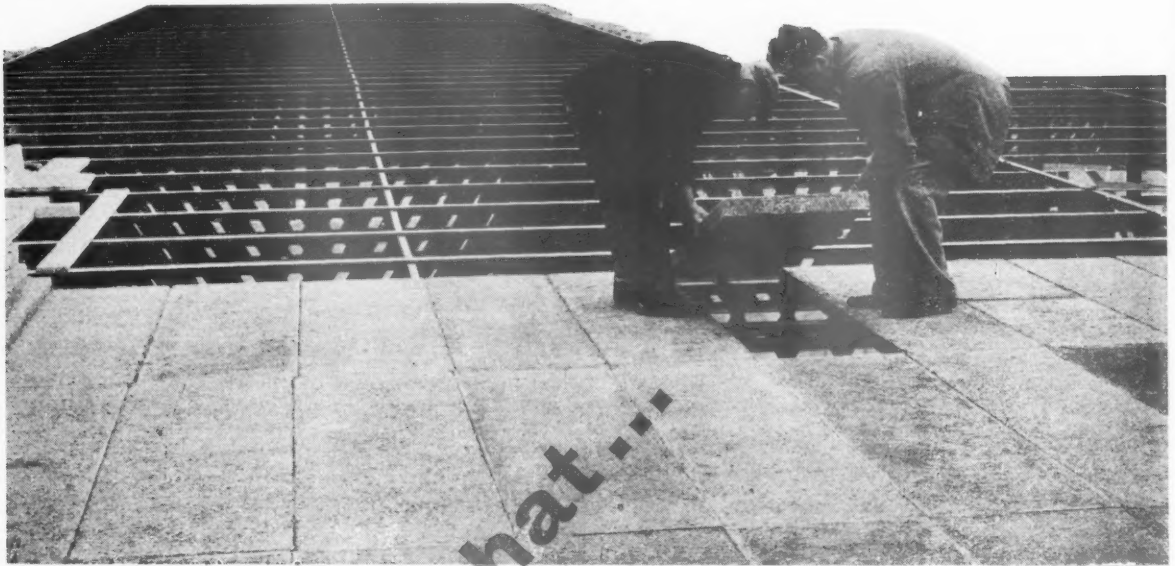
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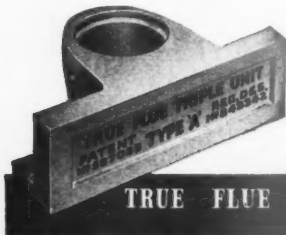
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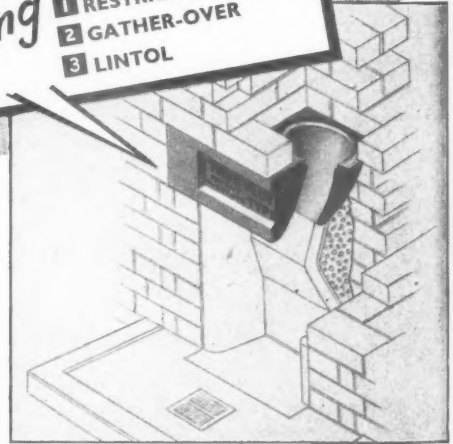
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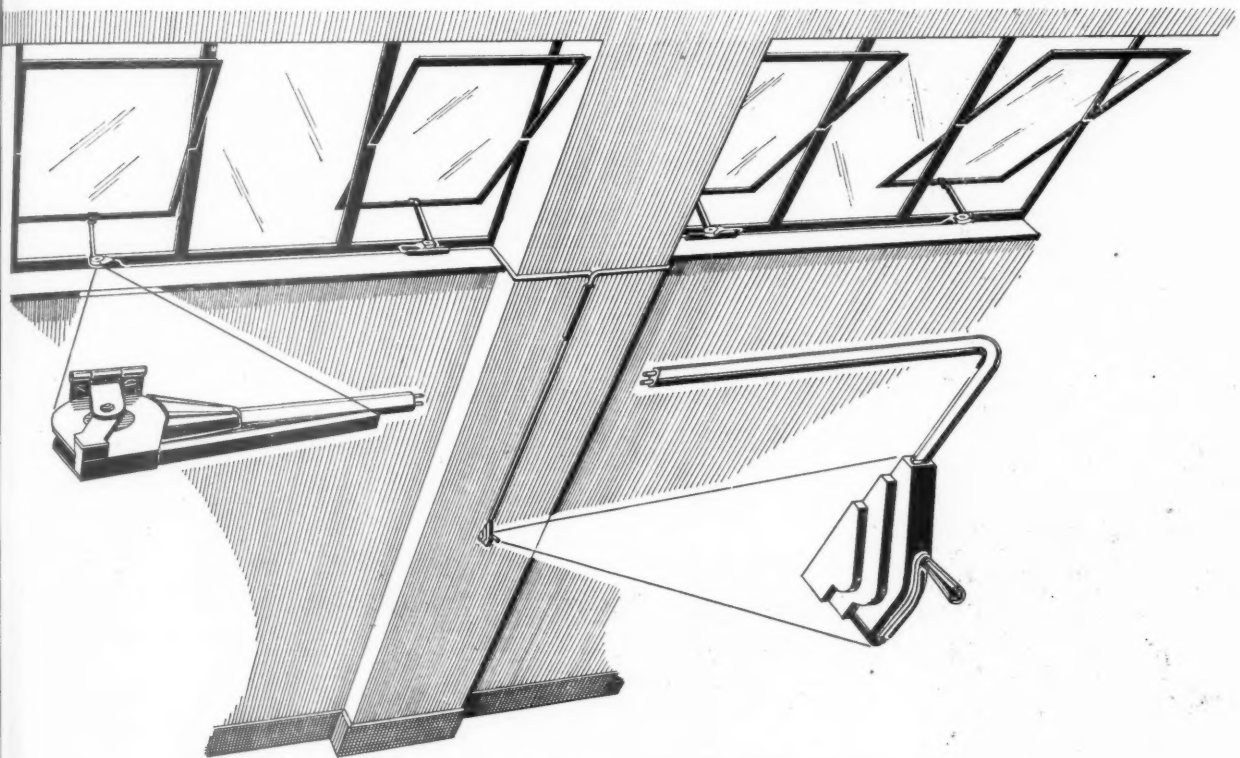
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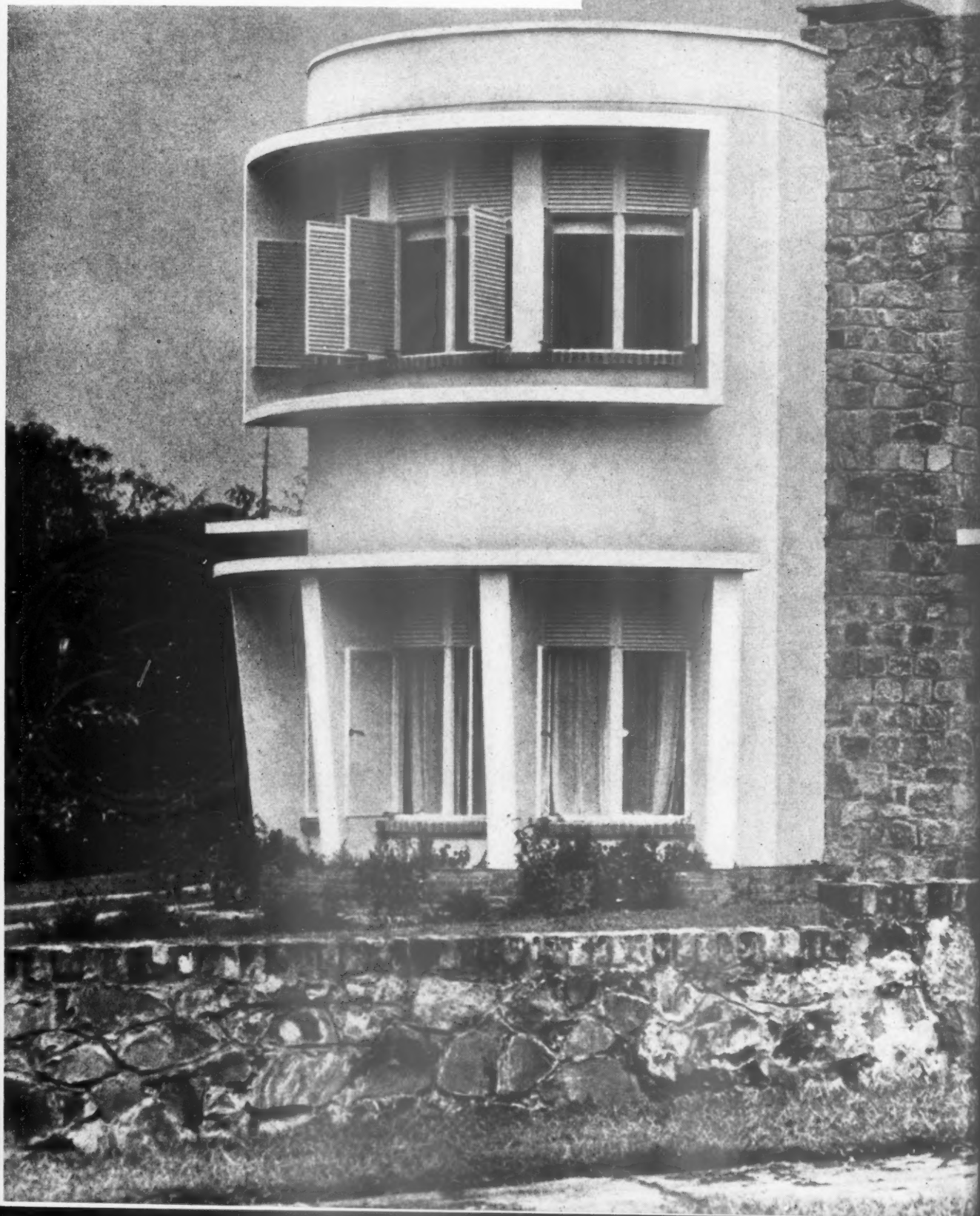
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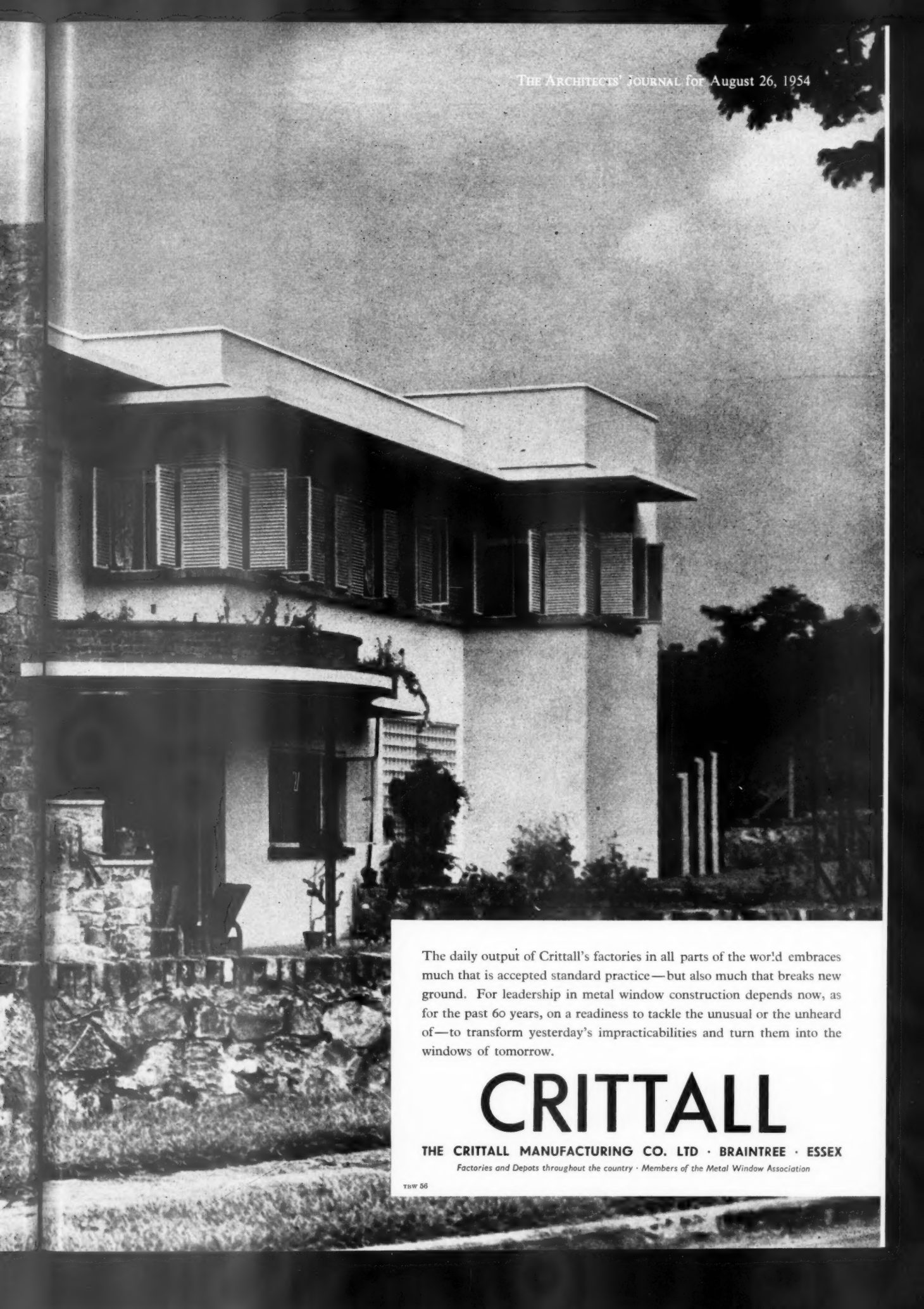
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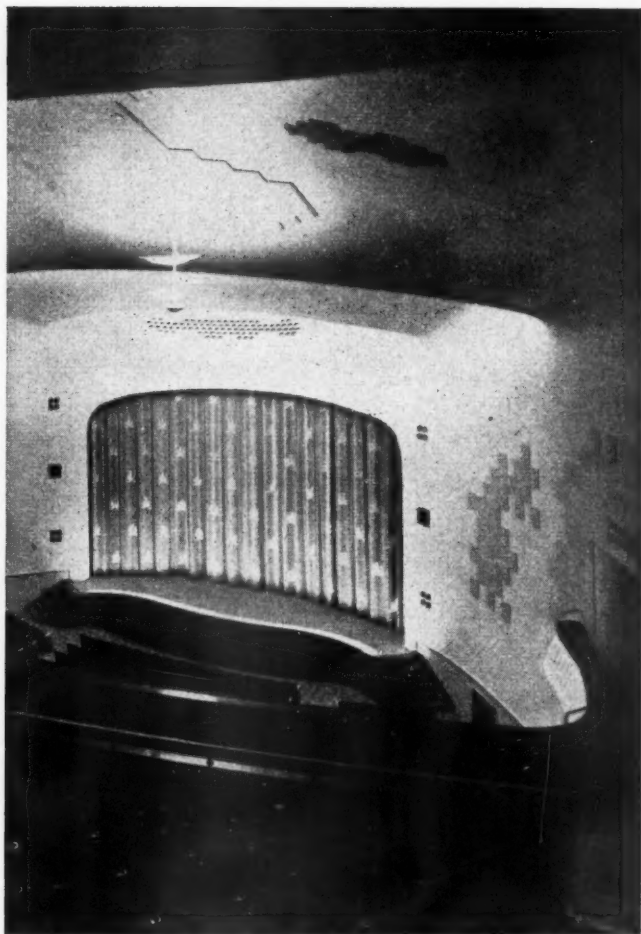
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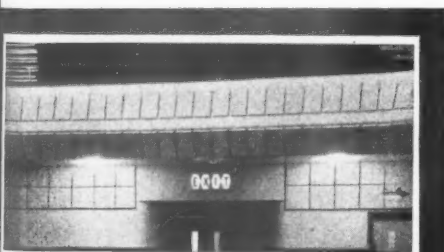
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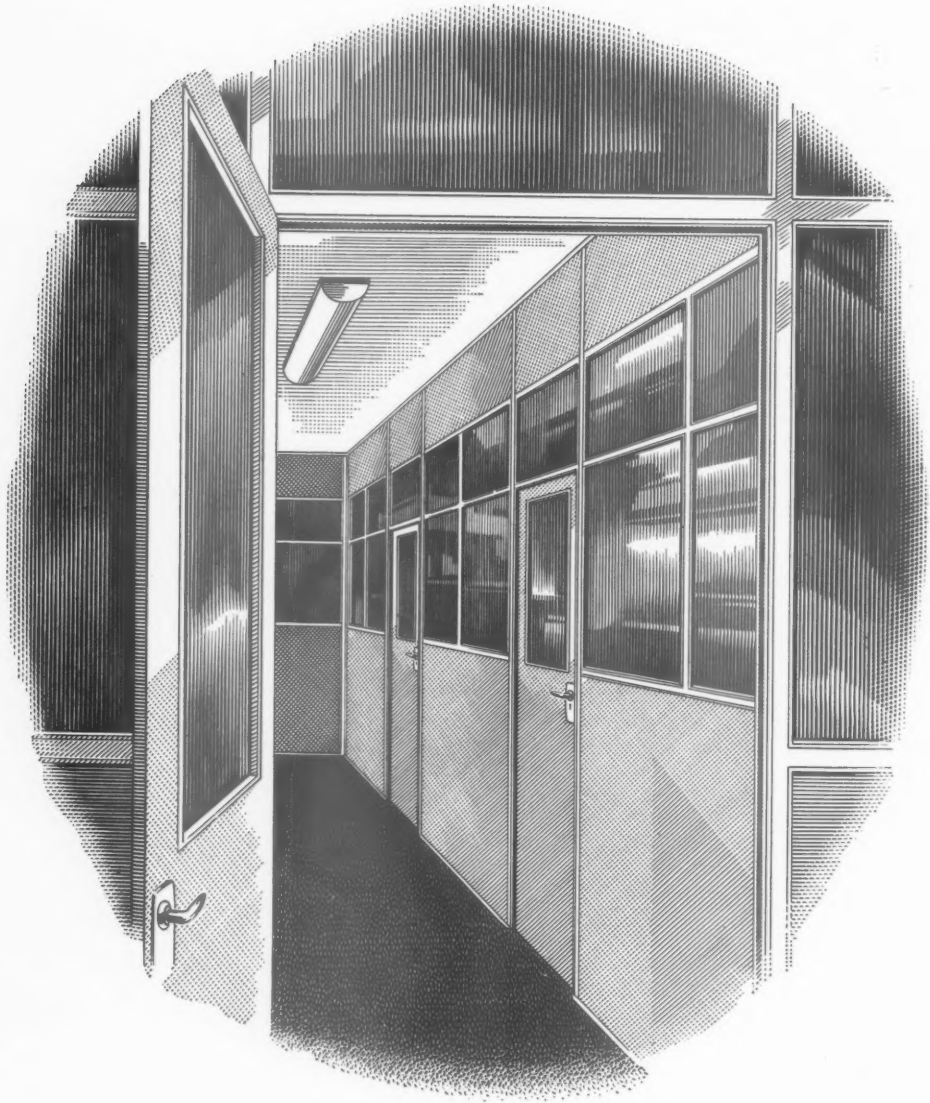
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DOMESTIC ELECTRIC INSTALLATIONS

SOCKET OUTLETS AND PLUGS

One of the most important characteristics of any domestic electric installation is the flexibility it affords in the use of portable electrical appliances, any of which can be used in any room where they may be required from time to time. This, in fact, is a major requirement which many installations unfortunately fail to fulfil. The system involved—that of socket outlets and plugs—has long been familiar, but now that the number of types in common use has been reduced, and each type standardised, it becomes important that the principles involved in the provision of a convenient, efficient and economical socket outlet installation, should be appreciated.

Current Standard Types of Socket Outlets and Plugs

The medley of plugs and sockets of different types and sizes which are found in old houses and flats are by-products of the growth of electrical installation practice now superseded by the series of British Standard designs illustrated in Fig. 1. Whatever the wiring system used in any new installation, these three-pin plugs must be attached to all appliances not permanently connected; an adequate number of socket outlets should therefore be provided to receive them.

Earthing Facilities Essential

The proper 'earthing' of all appliances in every room where there is any 'earthed metal', e.g. water or gas pipes, central heating pipes and radiators, or metal windows is required by the Regulations for the Electrical Equipment of Buildings issued by the Institution of Electrical Engineers, which govern installation practice. In effect, two-pin sockets are now obsolete.

The Universal 13 amp. Socket Outlet and Fused Plug

Designed particularly for use on a ring circuit (see D.I.2) to enable an adequate number of socket outlets to be provided at minimum cost, this universal socket outlet, made to B.S. 1363, is not so widely used as it deserves to be. Its outstanding advantage is that every portable appliance from the smallest lamp to the largest heater can be plugged into the one size of socket outlet. It is no longer necessary to put up with the inconvenience of different sizes of sockets for 'light' and 'power' with the consequent limitation that appliances can only be used in positions where there is the right size of socket outlet to take the plugs attached to them.

The plugs to fit this universal socket outlet are made with flat pins which are much easier to insert and withdraw than the old type. Each plug contains a fuse which can be sized according to the loading of the appliance connected to it: three sizes are standardised: 3 amp. (i.e. for lamps and small appliances taking not more than 700 watts at 240 volts), 7 amp. (1,500 watts), and 13 amp. (3,000 watts). Should a fault occur in an appliance or its flexible cord, only the fuse in its plug will 'blow', all other appliances (and lights) remaining unaffected. The replacement of the fuse in the plug is a simple on-the-spot affair and does not entail a journey to the service unit or, as so often happens, a hunt in the dark to find the fuse affected.

The Flexible Connection

Every flexible cord, irrespective of the type of appliance to which it is fitted, should contain an earth wire which is properly connected to the framework of the appliance and the earth pin of the plug. It should be of an uninkable type, and never laid over the floor across footpaths, or under rugs or carpets where any deterioration will pass unobserved with an increased risk of fire. Flexible cords are the most vulnerable part of the installation: they should be regularly inspected for defects and replaced—never patched—when any are observed.

Number of Socket Outlets Required

Socket outlets are notoriously scarce in the majority of houses and flats in spite of the large number of portable appliances in general use, which increases year by year. An adequate number of socket outlets should therefore be installed at the outset, to enable full advantage to

TABLE 1 USE OF SOCKET OUTLETS

Hall and Landing	1-3	Socket Outlets
Living Room	6-10	"
Double Bedroom	5-8	"
Single Bedroom	3-5	"
Kitchen & Utility Room	6-8	"
Garage	1-3	"

TABLE 2 USE OF PORTABLE APPLIANCES

HALL, LANDING, PASSAGE

Clock, Convector, Floor Polisher, Lamp, Panel Heater, Radiator, Tubular Heater, Vacuum Cleaner.

LIVING ROOM, DINING ROOM, STUDY

Breakfast Cooker, Cine-projector, Clock, Convector, Fan, Fire, Floor Polisher, Grill Boiler, Heater with Fan, Jug, Kettle, Lamps (Standard and Portable), Panel Heater, Percolator, Radiator, Radio, Radiogram, Record Player, Sewing Machine, Tea Maker, Television, Toaster, Trolley, Tubular Heater, Vacuum Cleaner, Waffle Iron, Warming Plate.

BATHROOM

No socket outlets allowed: Fire, Radiator, Towel Rail permanently connected.

BEDROOM

Bed Warmer, Clock, Convector, Electric Blankets, Fan, Fire, Floor Polisher, Hairdryer, Heater with Fan, Iron, Lamps, Panel Heater, Radiator, Radio, Shaver, Tea Maker, Trousers Creaser, Tubular Heater, Vacuum Cleaner.

KITCHEN, UTILITY ROOM

Boiling Ring, Breakfast Cooker, Clock, Clothes Dryer, Convector, Cupboard Heater, Dishwasher, Drying Cabinet, Fan, Fire, Floor Polisher, Freezer, Fruit Steriliser, Grill Boiler, Iron, Ironer, Jug, Kettle, Lamp, Mixer, Panel Heater, Percolator, Radiator, Radio, Refrigerator, Table Cooker, Toaster, Towel Rail, Trolley, Tubular Heater, Waffle Iron, Warming Plate, Wash Boiler, Washing Machine, Water Heater.

GARAGE, WORKSHOP

Battery Charger, Car Heater, Convector, Glue Pot, Lamp, Lathe, Panel Heater, Portable Drill, Polisher, Sander, Saw, Radiator, Soldering Iron, Tubular Heater.

List of portable appliances likely to be used in different rooms: all can be operated from a universal 13 amp. socket outlet.

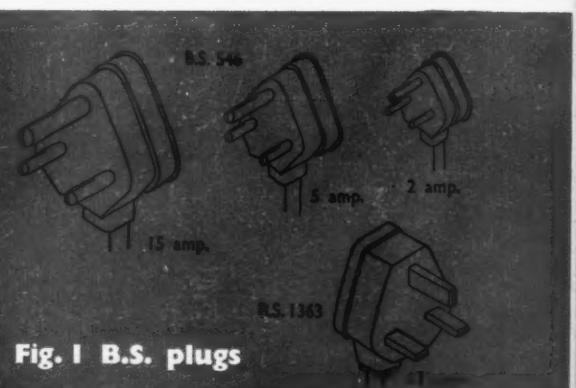
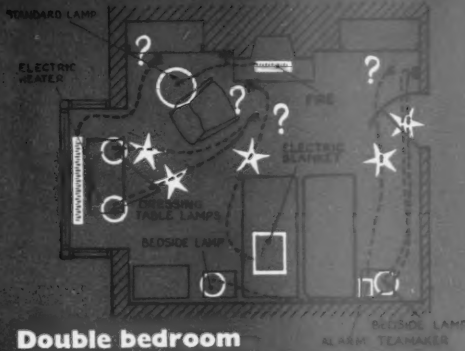


Fig. 1 B.S. plugs

D.I.1



Double bedroom



Living-dining room

Note the dangerous crossing of traffic ways in both rooms at places marked by white lines. The query indicates plug in search of socket.

Fig. 2 Insufficient socket outlets wrongly placed.



Double bedroom



Living-dining room

When additional appliances are likely to be used in the room, it is often convenient to install two-gang socket outlets in place of the single type.

Fig. 3 Correct arrangement of socket outlets.

be taken of the amenities and economies afforded by electric appliances, and to avoid the dangers of multi-plug adaptors with long trailing flexes, and makeshift wiring extensions.

A recommended schedule of socket outlets is given in Table 1: Table 2 will give an idea of the number of portable appliances which can be used in each room. In this respect it is interesting to refer to common practice in the U.S.A., where the installation of 65 socket outlets is considered normal in an average six-roomed house and even a mass produced two-bedroom economy house has 45 outlets.

Positions of Socket Outlets

The importance of the correct positioning of socket outlets does not yet seem to be fully realised even though the number generally installed is so low that careful placing is really essential. They should be easily accessible, not less than 5 inches and preferably as high as 9 inches above floor level except in kitchens and perhaps bedrooms where some will be required above table height.

Socket Outlet Positions in the Rooms

When working out the number and positions of socket outlets required, start by arranging the furniture on the plan. However approximate this may be, it will show the most likely positions of the larger pieces, and disclose the fact that the fireplace wall is *not* the only place for socket outlets. Table and standard lamps, and radio and television receivers are generally better served from side walls. A socket outlet each side of the fireplace will be required (e.g. for electric fire and clock): the others are best placed close to the corners of the room where they are less likely to be masked by furniture and will cover most floor space with the minimum length of flex (see Fig. 3). It is most important that flexes should not cross traffic ways in any room.

In bedrooms, the bed positions being determined in the planning stage, switched socket outlets can be installed waist-high above the bedside tables to serve reading lamps, shaver, alarm clock, automatic tea maker, electric blanket, etc. The switch controlling the electric fire can also be grouped with these socket outlets: there is no necessity for it to be against the socket outlet which serves the fire, or for anyone to have to get out of bed to switch it on or off. Socket outlets will also be required in convenient positions for the dressing table lights, and any other special needs.

No socket outlets should be provided in bathrooms: any electric heaters, fires or towel rails installed, must be connected direct to the mains.

For the hall or landing, socket outlets will be required for a convector and to serve the vacuum cleaner or floor polisher and perhaps for a table lamp or two. As heater and lamps will remain plugged in, their placing will dictate that of the socket outlets.

In the kitchen, socket outlets will be required for drying cabinet or cupboard heater, iron and extract fan. For refrigerators the socket outlet should be placed alongside (*not* behind) the appliance, or within the cupboard framing for built-in types. The socket outlet serving the washing machine should not be in a position where it is likely to come in contact with water. Other socket outlets for a mixer, percolator, toaster, warming plate, etc., should be above working counter height, i.e. between 3 ft. 6 in. and 4 ft. 6 in. above the floor and away from the sink. Heater, towel dryer, clock and radio will also require socket outlets, their position being determined by the detailed kitchen plan.

In general, these socket outlets should be fitted with switches, and sited as near as possible to the place of use of the appliance for greater convenience and to avoid long flexes, considerations which will also govern the use of double (two-gang) socket outlets in any room.

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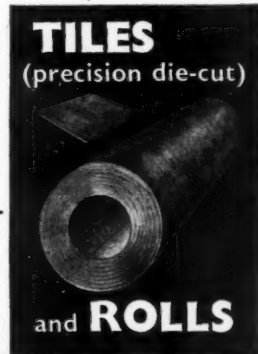
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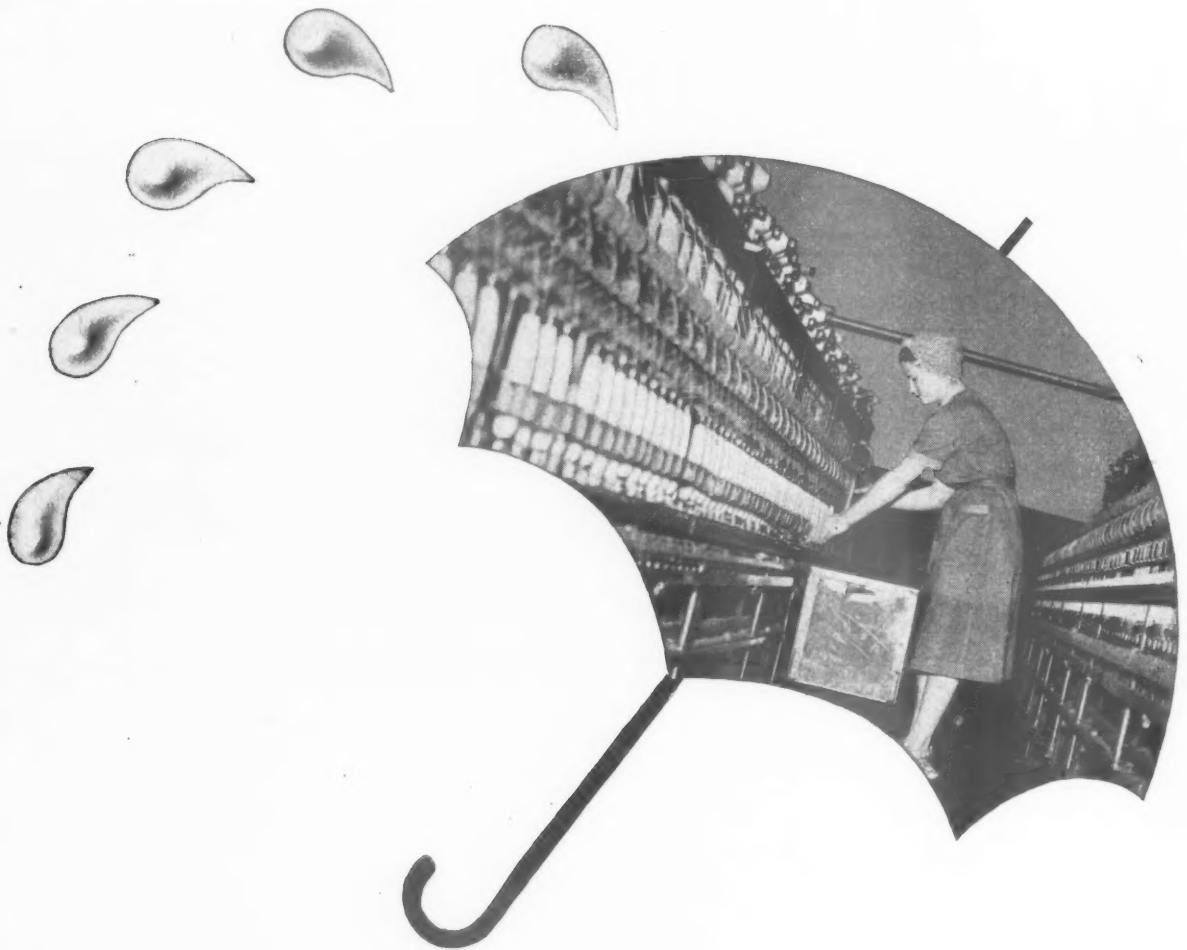
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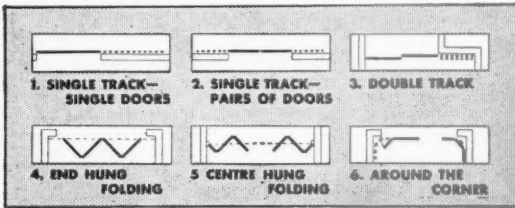
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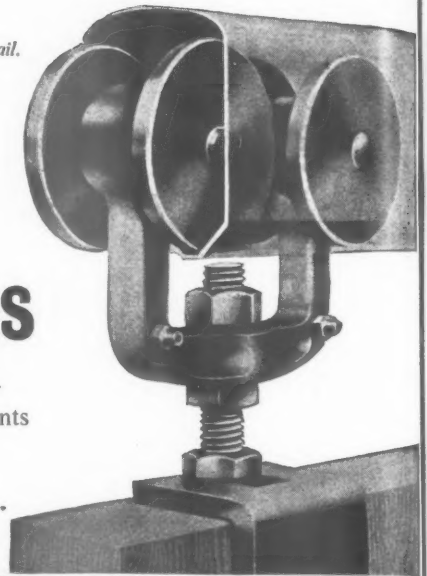
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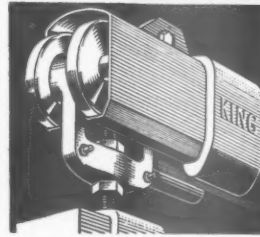
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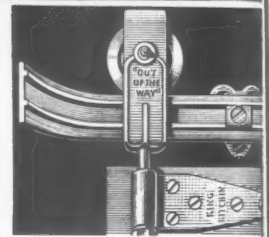
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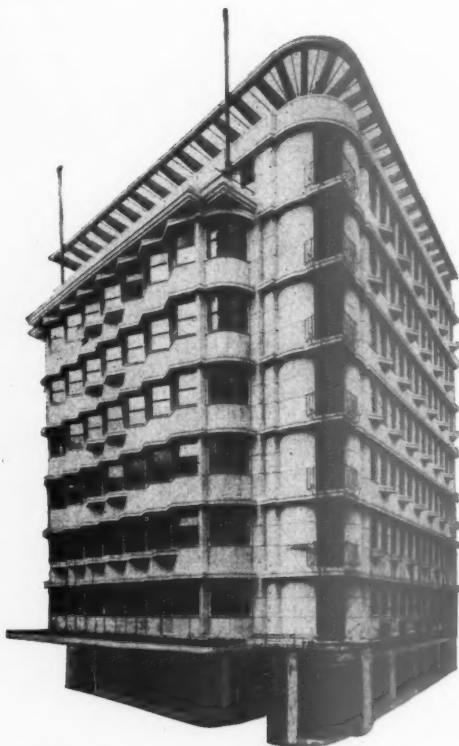
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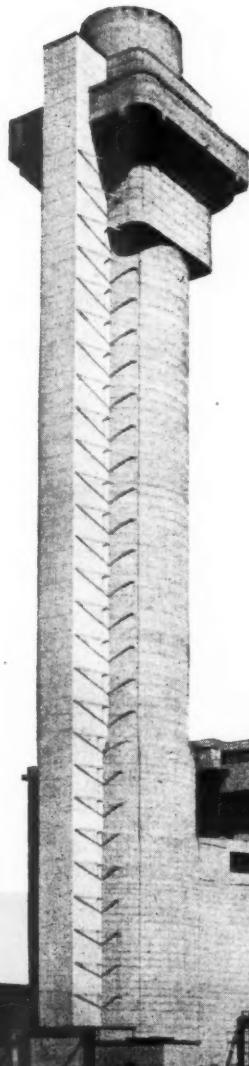
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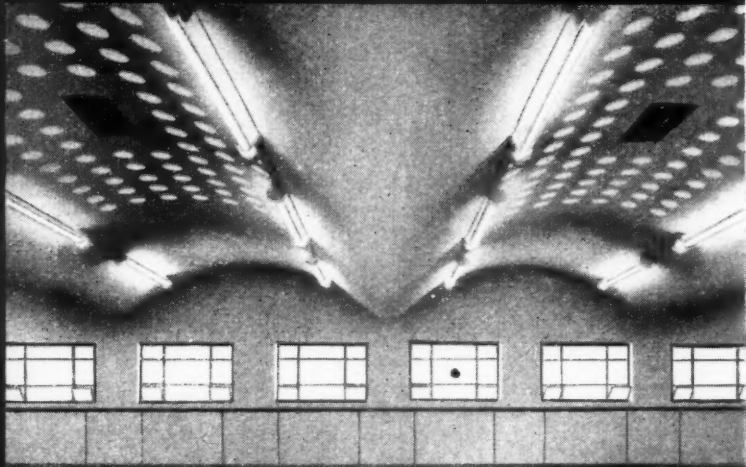
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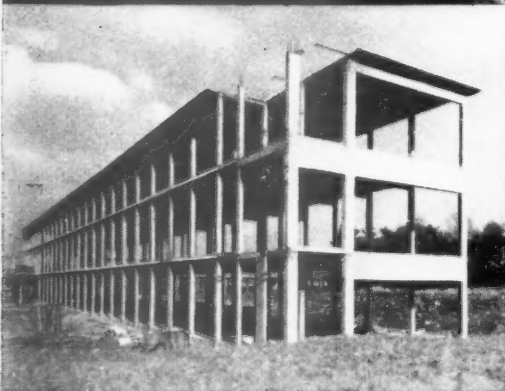
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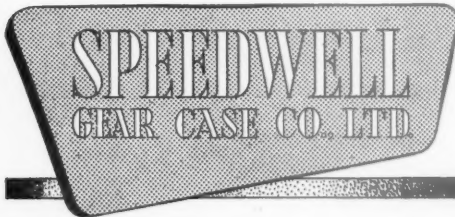
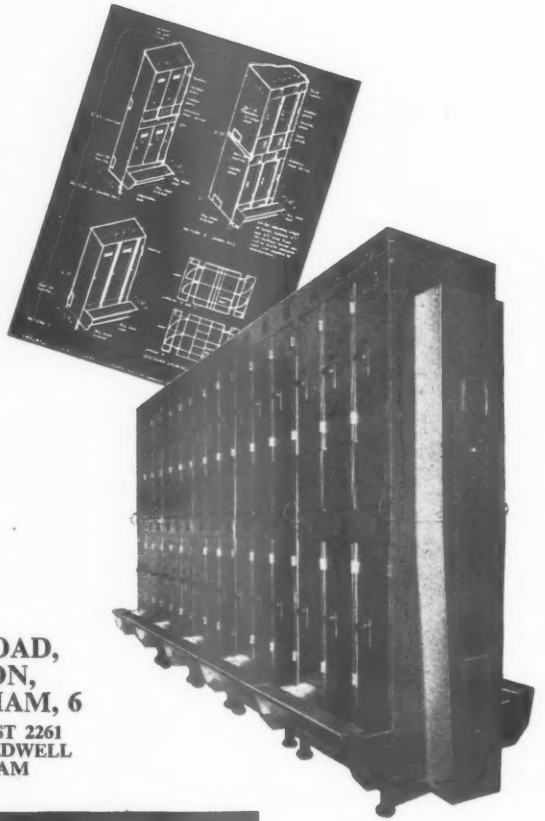
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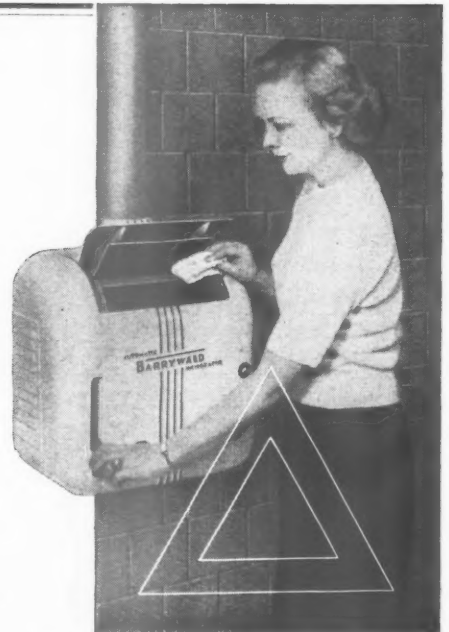
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Ryedale County Secondary School, North Riding Education Committee, Architect J. H. Napper, Esq., M.A., A.M.T.P.I., F.R.I.B.A. Photographs are the copyright and are reproduced by kind permission of the Municipal Journal.

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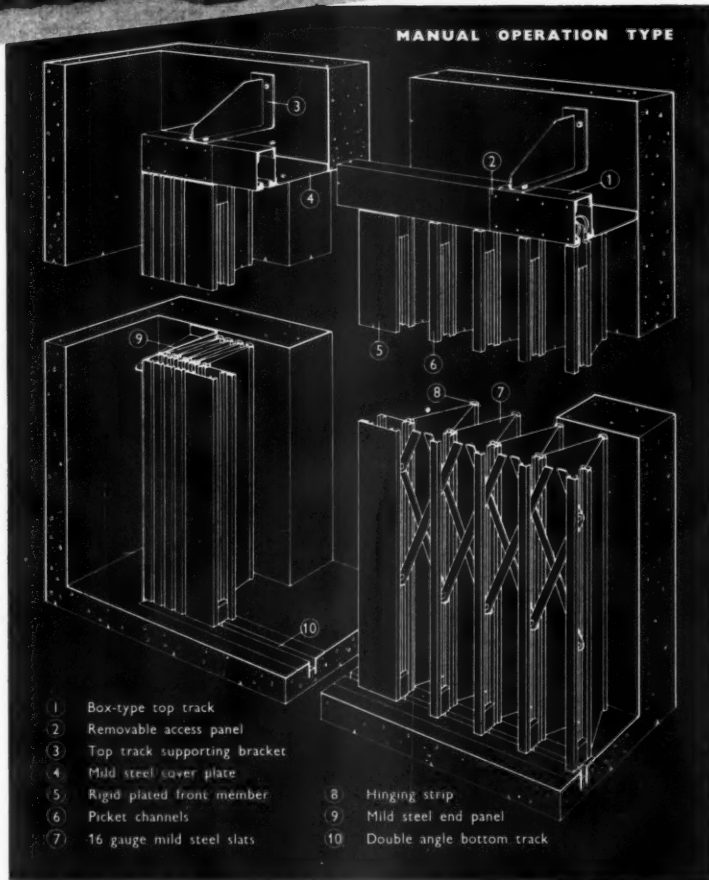
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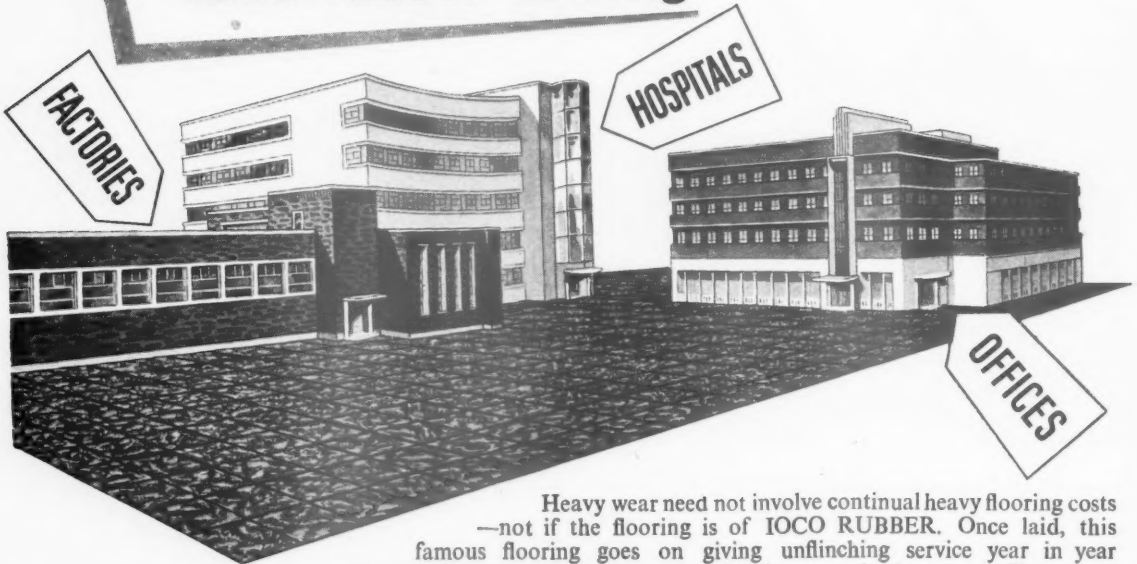
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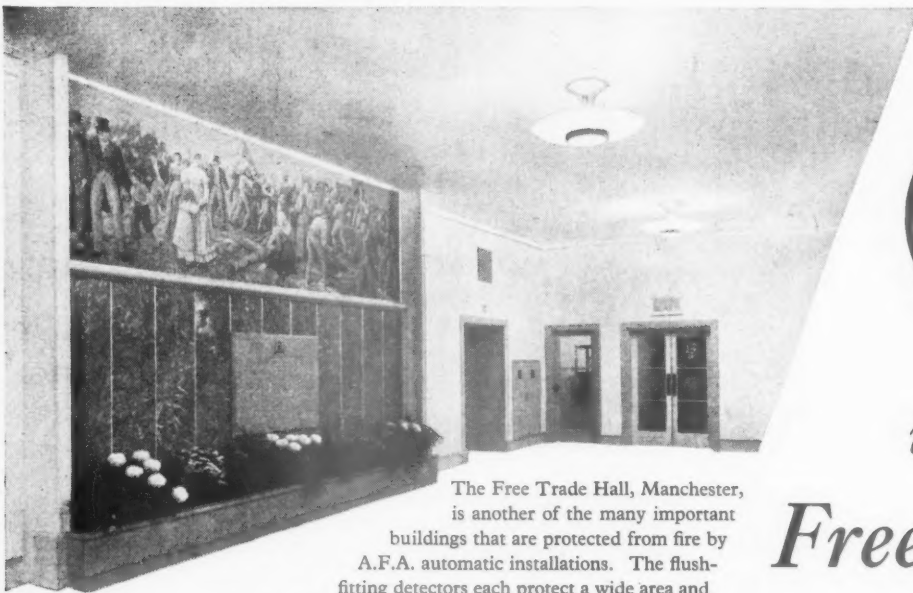


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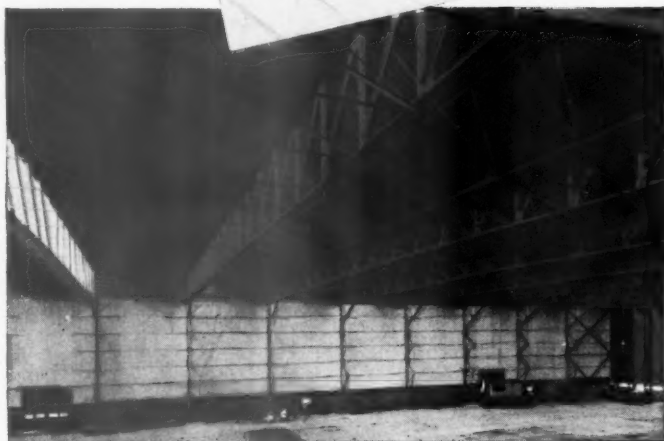


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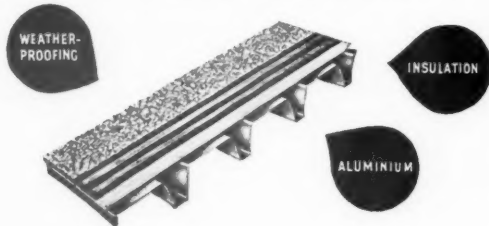
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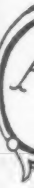
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No. 3104 August 26, 1954 VOL. 120

Subscription rates: by post in the U.K. or abroad, £2 10s. 0d. per annum. Single copies, 1s.; post free, 1s. 3d. Special numbers are included in Subscriptions; single copies 2s. post free 2s. 3d. Back numbers more than 12 months old (when available), double price. Half yearly volumes can be bound complete with index in cloth cases for 25s. 0d.; carriage, 1s. extra.



MONTAGU HOUSE GOES FOR A BURTON

The relish with which demolition contractors work is almost sadistic and gives a slower public little time to protect its own interests. ASTRAGAL was dismayed to hear the crash of masonry and the rending of living timber as he passed the high walls of Montagu House, Portman Square, the other day. The house, one of the last in London within its own grounds, was damaged beyond repair by bombing during the War, and has stood for a decade and more as a ruin among its lovely trees. A proposal to build a Hilton hotel on the site was approved in principle by the LCC two years ago but abandoned. A temporary planning permit has now been granted for a private car park, and

ruin and trees alike are coming down apace.

*

The destruction of the trees cannot, of course, be temporary, and, though there is no doubt some of them must come down, ASTRAGAL—who, after closer study, rather admires the effect achieved in Kensington Gardens by the removal of the elms, and can therefore hardly be called “a man of the trees at any cost”—feels that in this case, and in others where a great deal of building exists nearby, the trees are very important. The sad truth is, of course, that once a planning permit has been granted it never lapses, and in this case no tree preservation order was made because of the proposed hotel development. So down they come, at least some of them—we hope only a few—to make way for the cars, when surely they are most especially needed. There should be other ways of doing these things.

WARNINGS ABOUT GEFFRYE

The Geffrye Museum, over in Shore-ditch, is one of London's provincial museums—no offence meant by the term, just that it has the informal and slightly idiosyncratic atmosphere of, say, the Holburne in Bath or the Stranger's Hall in Norwich, and is not one of the great nationalised treasure-chest cum shop-window affairs whose activities lead to questions in Parliament. ASTRAGAL has always liked it, even if he doesn't get to it very often, and admires the humane and energetic policy of interesting and instructing the younger age-brackets (kids to you) which its curator, Molly Harrison, has pursued.

*

Now the LCC has published an inter-

esting pamphlet-affair intended for the consumption of actual, and intending visitors to the Geffrye, telling them, as usual, about the building and the history of the museum itself*. But what is less usual is the Section headed *Some Warnings*, pointing out, for instance, that no-one claims that the exhibits are wonderful, but simply good middle-of-the-road furniture from solid middle-class houses, that oak panelling and furniture was not dark when it was new, that the rooms are much too clean by the standards of any century previous to our own—and, something which is obvious to common sense, but always overlooked, that a period room never existed in fact, that rooms have always been a jumble of pieces from different epochs, for economic reasons, since only the very rich could afford to strip down and start a whole furnishing scheme from scratch.

*

And we always think we are so clever with our select antiques in our contemporary interiors . . .

AVOIDING SET-BACKS

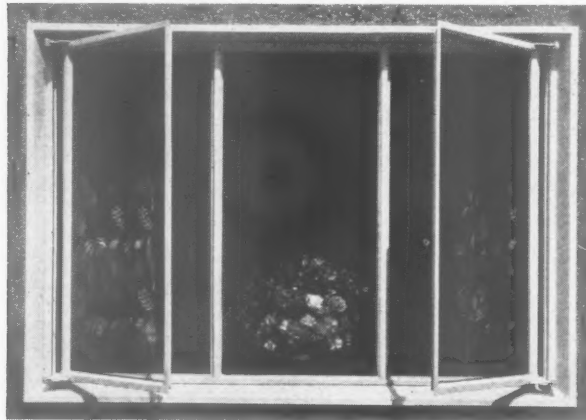
A nark, who staggered in from New York a couple of days ago, reported the more-or-less completion of one of the world's most drastic pieces of architectural re-modelling. An old apartment block just along the street from the Lever building has been stripped down to its steel frame—but stripped, boy, cladding and services and the lot—equipped with new elevators and whatnot outside the original frame, leaving a good spread of uninterrupted floor at each level, remade as offices and reclud in the UN/Lever building manner with patent glazing. Since the

*Introducing the Geffrye Museum—available from the LCC, County Hall, 11d., post free.

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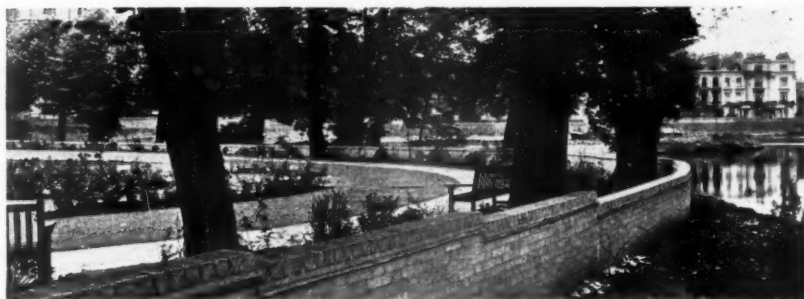
block was originally erected before the current zoning laws came into force in New York, the owners have a bigger building than they would have if they built new—pause for thought. The steel-work was found to be in perfectly good order, and this stripping could presumably be practised on other frame buildings, even—pause for another thought—in London. Don't write to tell ASTRAGAL which inter-war monstrosity you would like to start on, just chalk on it some such slogan as "Clap on a second front now."

The third pause came when ASTRAGAL rather missed the point of another part of the story. The man from New York was chuckling over the fact that quite a lot of citizens thought that the conversion work was being done, not by Emery Roth and Sons, but by the Sage of Taliesin West, on account of a notice on the scaffolding announcing that the ground floor showroom for Jaguar Cars would be designed by Frank Lloyd Wright. Far from chuckling, ASTRAGAL was in a fit state to be floored with the proverbial feather, at the thought of an English car manufacturer employing an architect of international reputation—when was the last time that happened, if ever? Still Jags are remarkable cars and their boss, William Lyons, is—in case you had forgotten—an RDI. Congratulations, Jaguar, and we look forward to the result with acute interest. In the meantime, who is having Corb do them a showroom? Don't all speak at once.

THE PERFECT READER

A correspondent from Newcastle sends us a cutting from a local newspaper concerning "fair-haired 23-year old Nancy Roddam " who walked into a public library last summer and asked for a book on architecture. Then she sat down and drew up the plans of her future home . . ." And there, almost exactly one year later, it is—a five-roomed bungalow, according to the photograph, complete with bay-window, for a cost of £800.

Having recently seen tenders for an admittedly much larger bungalow (4 bedrooms—designed by an architect colleague, the lowest price for which was £8,000, ASTRAGAL was once again reminded of the financial gulf that is so difficult to explain to the layman between one and the other. It's true



The new garden laid out in Paddington Basin by the Borough Council, showing how the brick wall round the periphery of the site, with shrubs behind, cuts off the view of the water. A further view, and comment, appears overleaf as this week's frontispiece.

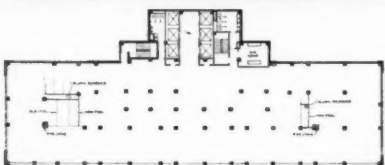
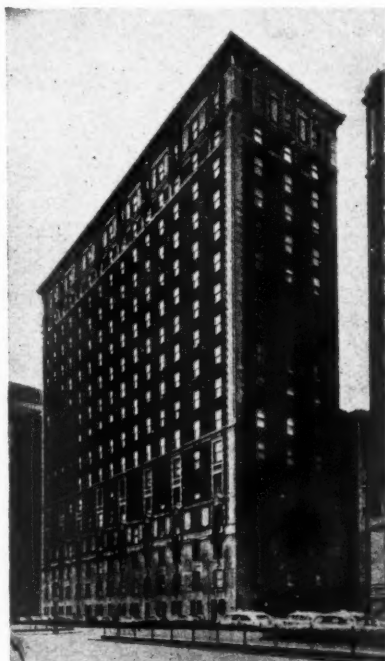
Nancy's house is less than half the size of the other, that the labour was largely free, that the finish and equipment are no doubt vastly different. But even assuming the Newcastle project would normally cost say £2,000 should the other cost four times as much? Is it perhaps true that small builders are alarmed by, rather than receptive to, full sets of drawings and details upon which to tender? Does such full information inspire terror rather than confidence and thus push the price up? Does a full size detail spell "Fuss-pot" to the builder, not "Expert"? It would be interesting to know.

What, of course, would be really interesting to know (and is not re-

vealed) is what the book was that Nancy Roddam took out, Jaggard and Drury? Edwin Gunn? E. & O.E.? Information Sheets? . . . Any lively publisher would of course by now have 'phoned to find out and got Mrs. Roddam down to autograph copies in Derry and Tom's Roof Garden. But all publishers are presumably still elbowing their way into the Mediterranean with their goggles and schnorkels looking for submarine authors—let's leave them to it.

MINIMUM TRANSPORT

Continuing on your behalf his automobile researches, ASTRAGAL has just been taken for a trip in an engaging little device called the Kabinenroller, made by the Messerschmitt aircraft

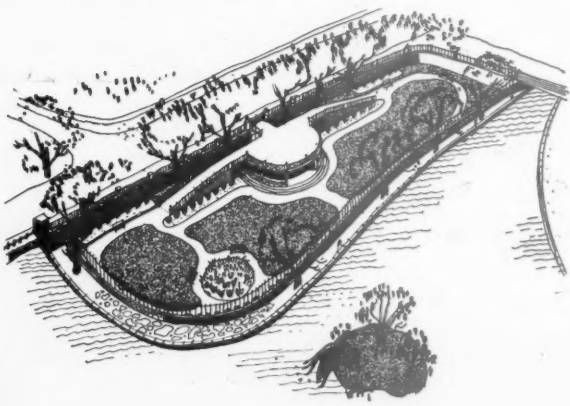


Left, an office block in New York, designed in about 1915. Above, the same block today, being refaced. See ASTRAGAL's note titled "Avoiding Set-backs." (From Progressive Architecture, May, 1954.)



Municipal Mediocrity

"Good food," was the private's comment on army catering, "but my! ain't it badly cooked." Similar criticism could be levelled at the Paddington Borough Council's inexpert attempt at laying out an open space alongside Paddington Basin. No one could object to the lovely roses, shrubs, herbaceous flowers and trees which form the ingredients of this design. *The Times*, indeed, grew so lyrical over the ingredients, "undulating lawns . . . rose beds . . . waterfowl drift by . . . and the sun dapples the stone walls," that it called the layout "simple but striking." The



most striking feature, however, to those not rendered uncritical by the "landscape garden" is the way in which a brick wall, several feet from the water's edge, cuts off all except distant views of the canal from the garden. One of the most attractive qualities of this unique site was the intimate water-land relationship. For a small space the canalized water and pavement-disciplined pedestrian could have been brought in closer proximity. But, presumably, unduly vigorous safety precautions (how many drown in the unfenced Serpentine?) and lack of sense of design on the part of the Borough Council results not only in a 9-inch brick wall, but a row of shrubs and a useless strip of grass—in addition to the existing row of trees—separating the canal from the bench-lined flagged path. The ridiculously formal rose-beds, the sloping double entry, behind the public lavatories and shelter, and the line of the encircling wall and path all strive unnecessarily to keep the eye within the confines of the garden, ignore the glittering water without, and make a mockery of the site's old name of "Little Venice." In October, '53, in an illustrated article in the *JOURNAL*, Gordon Cullen and Kenneth G. Browne prophesied just such a dismal result of official indifference to good design with the sketch, left. The finished garden is not quite the same, but the lavatories (without soap and towels) are equally coarsely detailed, and the entrance ramps and steps to the view point on the shelter roof are clumsily and over-formally handled. An example of good ingredients—flowers, trees and water—being not enough.

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POINTS FROM THIS ISSUE

Builders' Merchants want publicity	pages 247, 263
Limited competition for London offices	page 249

The Editors

COLLABORATION WANTED

WE do not advocate that speculative builders should be compelled to use architects because the architectural profession, in the words of this month's *House Builder and Estate Developer* (the Journal of the Federation of Registered House Builders) "has too few jobs for too many people." We want architects to be responsible for the layout and design of these new estates because they are very much better at the job than builders. We have seen a large portion of the town and countryside ruined in the 'thirties by the speculative builder and it is galling to find a minister of Harold Macmillan's ability and standing prepared to sacrifice still more for political expediency. The Government's anxiety to speed up the process of making the country a "property owning democracy" made it necessary to proffer as attractive a bait (with no architect hook-up) to the near-comatose speculative builder as possible. This was an essential first step towards diverting the supply of labour and materials from local authority housing to private enterprise housing, and reducing the country's enormous burden of housing subsidies.

The Minister has, of course, asked builders to pay attention to design, but requests, as recent illustrations in the JOURNAL have shown, are not always enough. "Good manners (in design) . . . are not something to be imposed; they are normally attained by a gradual process of education, and we can find no good reason for a departure from this principle in the housing field." So says, rather primly, the editor of the *House Builder*. How gradual can the process be? When "design" has never been a school subject, how can a whole population rapidly become enlightened commissioners of it? The recent intensive propaganda of the COID and others may in time have its effect and abolish the present "popular taste" of builders—and certain of the public—for splayed bay windows with leaded panes and half timbered gables. But if taste changes, houses, once built, do not. Not even the cleverest speculative builder has yet designed a house which collapses the year the mortgage ends. The visual horrors the Minister now condones will be still standing, as shabby monuments to his indifference to design, when the readers of this article are dead and gone. For how many more years must we go on retreating from the ideals expressed during the war as regards standards of design, amenity and planning? It is a mistake to imagine that the bent and buckled, if not broken, reed of planning today will protect standards of house design. The bulk of the planning officers in the country are without any training in the appreciation of design, and when a builder brings out in 1954, the plans and elevations of the villas of 1934, the average planning officer



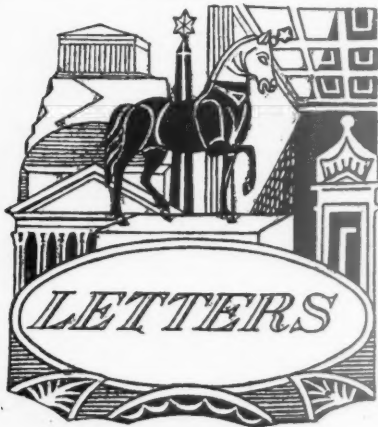
organization. Why is it that foreign manufacturers are always quicker off the mark when designing for "The People"? For those who haven't already seen one, it can be described as a tandem seating scooter but with two wheels at the front instead of one, and a large hinged lid. Controls are a mixture of car and motor cycle and you steer with a handlebar. The photograph above gives the idea. Once I got used to the unorthodoxies it was quite easy to drive, and my demonstrator could obviously do almost anything with it and still leave me feeling quite safe. Not, of course, a job for long distance work, and rather expensive (about £336) with p.t. on top of import duty. But for town work it's very nippy and only 4 ft. wide, and a good buy for anyone wanting a scooter but who doesn't like waterproof clothing.

*

The latter equipment is, of course, a "must" for all Veteran car enthusiasts—one of whom has just told me of an Anglo-American Veteran rally due to take place at Goodwood on September 11. The American team is polishing up its aged Stutz's and Fords ready for the contest which is to be the climax of a triumphant drive south from Liverpool where they will arrive shortly. Marks will be awarded for condition, maintenance, performance and elegance and it will be interesting to see who comes out top. Congratulations to the British Hotels and Tourist Board who thought this idea up and to the British enthusiasts who are helping to run it. It's a safe bet that there will be plenty of architects (and furniture designers) on parade.

ASTRAGAL

knows that such plans can quickly be passed, preserving as they inevitably must, the character of the suburban neighbourhood for which, no doubt, they were first conceived. More difficult for the planning officer is the architect-designed house of contemporary character for which there is no precedent. These are the designs on which he can so easily waste his own, and other's time with footling amendments. The *House Builder* says that architects have not enough jobs and that their fees are too high. Mr. Jackson, below, states that the profession could not cope with more work anyway. We do not know which is right, but may we suggest a solution which would give the general public an architect-designed house for a few guineas? Let the RIBA and Allied Societies, together with the Federation of Registered House Builders, the Building Societies Association and the MOHLG, form regional panels and agree on a number of house designs, and specifications—suitable for the different parts of the country and of varying types of accommodation which would be selected annually from designs submitted by any architect. The architect would get a small royalty on every house built to his design. The client would get a wide selection of designs from which to choose for a very low fee. Planning control—save for site layouts—would be avoided and high standards maintained. Who would gain? Everyone. Who would lose? Possibly the smaller architect and surveyor now engaged in dolling up spec. builders' plans and pushing them through the planning authorities. Well, to be blunt, he deserves to. We are not concerned merely with getting "jobs for the boys" irrespective of quality. We want legislation to ensure that speculative houses—and the layouts—are architect-designed, and by the nation's best architects.



- J. E. Jackson, A.R.I.B.A.
and T. W. Harrison, L.R.I.B.A.
- D. W. Dalby
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- L. A. Hendry, A.R.I.B.A.
- Bertram Hume, F.R.I.B.A.



"Spec."
Building:
More Letters

SIR,—Would it not be wise to stop this argument now, before we get our answer all too plainly from Mr. Macmillan, and the Public?

If all building work were thrown over to us today, with the best will in the world we just could not cope with it.

The RIBA is perhaps not so silly as many of us pretend—but it is about time they faced the facts and turned us into a powerful body with a policy so that Mr. Macmillan could study it and satisfy himself that if he pressed the switch that he hoped would turn English building into Architecture, there would be a sweeping reform and not a hopeless chaotic muddle.

Change the RIBA syllabus until we have a body of practical building designers who realise from the word "go" that they are up against one of the toughest jobs in history

and then we can say "give us all the building work, we can handle it and make it into Architecture."

The Architect's job in its present form is too all-embracing—to practise it at all is rather like trying to stop up a sieve with two fingers. If you bivouac on your job and watch every brick laid you will forget your detail drawings and your contract. To give every architect now in practice ten times as much work as he now controls would have to be a carefully-planned, long-term policy and not a cheerful idea of ASTRAGAL'S. (And above all I read him for his cheerfulness!)

The code word should be *simplicity*—our job must be modified and simplified before we can take over all the building, or our numbers be increased by many thousands.

One practical solution might be for the architect to operate normally until the signing of the contract and then to leave it to the local authority to see that the plans are followed in detail. If supervision work were taken off his shoulders his output could be trebled and the quality of his work could remain the same.

It is, of course, of tremendous importance, as one correspondent has already remarked, that TP control should be exercised far more from County level where skilled Architectural and Town Planning advice is available and not left to the local authority which, with the best will in the world, is seldom architecturally qualified, or qualified in town planning.

J. E. JACKSON
and T. W. HARRISON.

Folkestone.

[We agree with much of what Mr. Jackson and Mr. Harrison write, but reform of the architectural profession and the building industry is a long-term problem. We are concerned that all the 80,000 or so houses built by private builders annually are architect-designed—a far from impossible figure for the profession to handle competently. See this week's leading article.—EDS.]

SIR,—Your criticism was not just of "spec" builders but of tasteless looking housing development where spec builders have the power to erect on what little remains of this green and pleasant land.

Mr. Hewitt (A.J. August 5) talks a lot about pleasing his customers but seems to feel everyone else should permanently live with and unhappily bear with poor-looking structures so long as he can sell his houses.

I am not an architect nor am I a builder, just a plain citizen with an eye and feeling for what looks pleasant. I have been thankful to see much good development post-war whilst designing was to some extent controlled, not merely enough but certainly improvement, and I am depressed that this improvement is endangered and we go back. It costs little to let an architect draw houses to beautiful lines; indeed, simple lines are often cheaper to build to than the crude fanciful brickwork, heavy bays, neo-Norman arched porches, front garden pilasters, dwarf walls, all haphazardly slapped together in the common "spec" builder style of this country. Unlike tasteless but hidden interior furnishings, an ugly house is there for all to see for time immemorial, a blot on the landscape, taking up too something of the rapidly dwindling precious soil of this small island. All builders should surely strive to educate their customers to better things, not pander to bad taste purely for the bigger profits.

London.

D. W. DALBY.

SIR,—I have occasion to read many of the Journals associated with building development and it was refreshing to read the letter



Top, what F. E. Ladly describes as "barracks," the Tile Hill Estate, Coventry, designed by City Architect D. E. E. Gibson—and, for comparison, a row of recently built villas.

by B. A. F. Ellesmoor in your issue of July 22.

There are so many articles in the vein of that of Clifford Culpin reported in *The Surveyor* of July 24, that one is forced to the conclusion that the Architect may be losing sight of two fundamentals, the wishes of the people living in and owning houses, and in the case of municipal estates, the cost of maintenance of open spaces, grass verges, etc.

Despite the diatribe on page 39 of your Journal of July 8, I wonder how many people, other than architects, would prefer to live in the "Barracks" on page 38 compared with the "Villas" on page 39, and which would have the better looking gardens in ten years' time.

In London at least, the idea of unenclosed front garden areas maintained by tenants is just wishful thinking.

F. E. LADLY.

Enfield, Middlesex.

SIR,—Further to the recent correspondence on "spec" designers" and visual decadence, A.J. June 3, 1954, and the comparisons

between architecture and housing, A.J. July 8, I suggest a new use of an old party game.

Each week for a period of three months publish side by side a series of six photographs, one photograph to be from each of the following classes.

(a) designed by an architect who before the war received his training in a full-time School of Architecture.

(b) designed by an architect who since the war has received his training in a full-time School of Architecture.

(c) designed by an architect who became qualified by an external examination.

(d) designed, according to the application for bye-law approval, by a builder, but actually by an architect.

(e) designed by an anonymous salaried architect who does not sign his drawing because (a) he does not want his boss to know, or (b) because he feels guilty of taking work which should have gone to the private practising architect.

(f) designed by a spec builder. Invite readers to (i) guess which dwelling was designed by each class of designer and (ii) place the six each week in order of merit. At the end of the three months you might publish the correct solutions and your order of preference.

The game, if it is treated as such by your readers, and if your photographs give equal consideration to each subject, should be fun. It might also have an educational value.

W. LAMBERT LEE.

Cambridge.

[Mr. Lee proposes what might be an amusing, informative—and for some—embarrassing game. If readers wish to take part, and provided the demand is sufficiently great, we will illustrate any designs submitted under the various categories.—Eds.]

How to get Work

SIR,—The answer to Jeffrey Webb's question (A.J. August 5) on how a young architect in private practice is to get work is

extremely simple. He just resigns from the Register, renames himself a "Building Designer," and relieved of his obligations under the Code of Conduct and Scale of Fees he can go out and get work in the best commercial manner.

There are coming into practice ex-assistants who though legally not qualified are doing very well as "Building Designers" and "Building Consultants" preparing schemes in the vast mass of "bread and butter" work done, the clients for which usually do not know or care even less for the niceties of professional conduct which so hamstringing the young registered architect.

This situation is being brought about by the continually rising standard required for the R.I.B.A. Final and thus for registration, which is already far in excess of what is required to design about 90 per cent. of the building work executed.

Surely it would be better for the A.R.C.U.K. to have an independent examination—say about the standard of the R.I.B.A. Inter. with more emphasis on "Design" and less on "History"—and have these technically competent people registered as "architects" and subject to the Code of Conduct?

L. A. HENDRY.

Spilsby, Lincs.

Helping Mr. Hume

SIR,—I have read ASTRAGAL'S angry outburst in your issue of August 5 on the occasion of the publication of my book "Form and Reform in Architecture," and am writing to say that I can only regard it as a great compliment.

An eminent architect, to whom I sent a copy of the book, wrote to me and said: "Don't take any notice of what the Architectural Press boys may say." A more reasonable spirit, however, prompts me to do so. What about publishing a properly argued review? Abuse can only help me as it helped Le Corbusier 25 years ago.

BERTRAM HUME.

London.



RIBA

Award for Town Planning

Nominations for the RIBA Award for Distinction in Town Planning must be made on November 1. This is the only award in town and country planning bestowed by the RIBA. It is by conferment only, and is limited to Fellows, Associates and Licentiate of the RIBA. Outstanding work in the design and layout, not of individual build-

ings, but of groups of buildings, will be recognized. Recommendations are submitted to the Council by a Standing Committee set up for the purpose. The name of a candidate must be submitted by three or more sponsors, themselves members of the RIBA, who will be required to submit details of the candidate's professional qualifications and experience and evidence of the candidate's actual planning work. Nominations must be addressed the Secretary, RIBA.

BID

Duties of Builders' Merchants

The President of the Building Industry Distributors, E. M. Tatlow, described the organization of the builders' merchants in the following terms at a Press Conference held last week in London to launch a publicity campaign.

"Building Industry Distributors was formed in 1942 by the amalgamation of four organizations which, for many years previously, had represented various groups of merchants in different parts of the country, interested in the distribution of building materials. He described the BID as a nation-wide organization with 1,500 members, whose size and activities vary to a marked degree, but the function of all is the supplying of building materials to the building trade. Collectively, our members deal in practically every article of the many thousands which go into the making of any

building, from the cement, bricks and roofing materials, etc., to the modern kitchen equipment, stoves and fireplaces of every description, glass for the windows, the steel window frames themselves, paint, and all the locks, latches, etc. All do not deal in every article—in fact, few do so—but each one must carry a comprehensive stock of a fair proportion of such articles, and in such quantities as will satisfy the needs of his district. All members of BID comply with these requirements.

A Builders' Merchant, Mr. Tatlow went on, is the link between the manufacturer of the goods and the man who uses them; his function might briefly be described as follows:

To carry and maintain stocks of the various articles and materials, assemble the many items together, and deliver to the building site, in such quantities, and at such times, as the customer requires, and as the progress of the work demands.

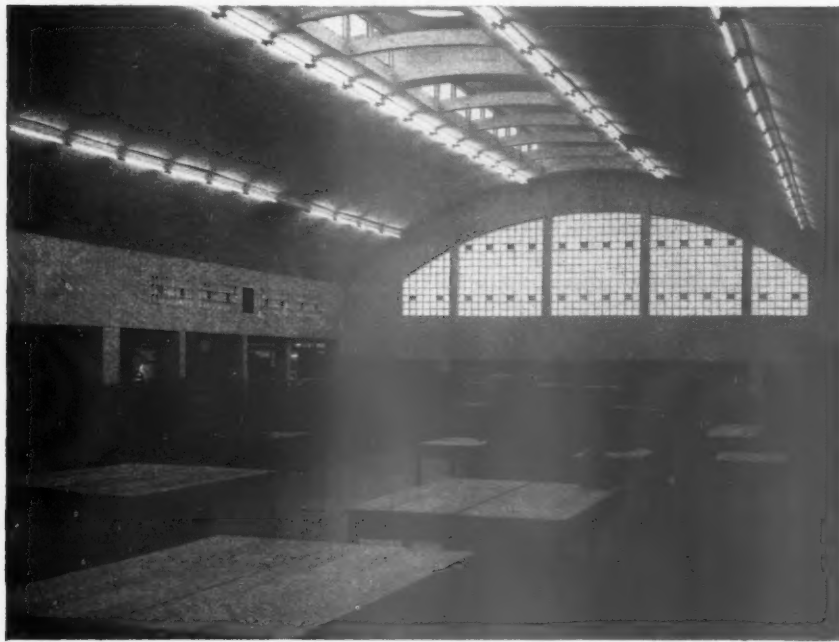
To submit samples, give technical advice regarding any article's suitability for any particular purpose, to architects, surveyors, and builders.

To maintain comprehensive and up-to-date showrooms for the convenience of the Trade and for the Public to be able to see the varied equipment which is available for their selection.

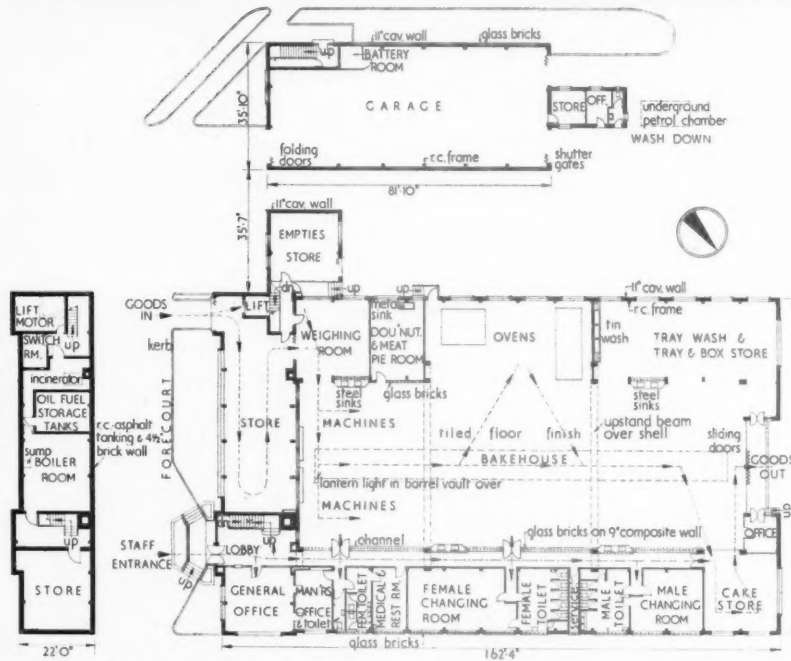
To keep abreast of all modern developments, and test new articles for recommendation to clients.

To provide sufficient, and in some cases specially constructed transport to deliver whatever goods are required, whether in large

NAAFI BAKERY AT NORTH HYKEHAM, LINCOLNSHIRE



This bakery at North Hykeham, a few miles south of Lincoln, by the Architects' Department, Directorate of Works, and Buildings, NAAFI, has been built to replace a number of scattered, out-of-date establishments and is for the production of cakes, pastries, meat pies and bread rolls, but not for bread. The main planning requirement was to provide a large floor area clear of all obstructions for the main preparation and finishing sections (seen left), while certain processes involving heat and steam, such as tray washing, have



First and ground floor plans [Scale: 1/8" = 1' 0"]

or small quantities, expeditiously and in good condition.

To provide "sales service" with travellers regularly calling on customers, so that their requirements may be anticipated, and in times of shortage, advise on available alternatives, and to issue catalogues and lists showing up-to-date details of the various articles.

In these few words, I hope that I have given you some idea of the range and scope of a Builders' Merchant's duties and activities.

Now, where does BID come into the picture?

Our organisation consists of 27 areas, from Scotland in the North, and covering the whole of England and Wales. These areas each have their own local committees and administration, but linked together with a

national council from whom are elected annually the officers and executive committee, who direct the affairs of the Association and deal with day-to-day problems and duties. Our headquarters offices are in London, comprising a staff of about 25, with the chief executive officer at the head. The various articles or commodities in which members generally deal are grouped into what we call "commodity sections," with a commodity committee to each. These committees maintain constant touch with the manufacturers of the goods under their jurisdiction in all matters appertaining to trading, and keep members informed of all trends and changes. Through other committees, the Organisation is in constant and close touch with government departments, builders' organisations and

many other associations who are part of, or interested in, some section of the building trade. All this information is disseminated to the members and to the Area committees.

Building Industry Distributors has its own trade education scheme—a course of instruction for the personnel of members' staffs running each year through the winter months with an examination at the end, when Certificates are given to all who attain to a "pass" standard, and prizes presented to the most successful candidates. We also have an apprenticeship scheme, fully approved by the MOL by which young people entering the trade are given over four years a full training to enable them ultimately to take up responsible positions in the Industry.

From this brief account I hope you will

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John Halcro RFAQ appoi Quart create of the

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see that our organization and its members are playing a useful part, and indeed, hold an essential place in the building industry; a part where service is the first consideration and a place where every endeavour is exerted to promote stability in the distribution of building materials.

RFAC

Change in Membership

John Summerson and Sir William Halcrow, M.I.C.E., have retired from the RFAC, and the Queen has approved the appointment of G. A. Jellicoe and A. S. Quartermaine, M.I.C.E., to fill the vacancies created. It is customary for two members of the commission to retire every year.

EISTEDDFOD

Gold Medal for Architecture

At the next National Eisteddfod of Wales, which is to be held at Pwllheli, Caernarvonshire, in 1955, a Gold Medal is to be offered to the architect of a building which has made a real contribution to the architecture of the Principality. This gold medal is a new departure at the National Eisteddfod. It will not be offered as a prize for competition in an architectural subject, but will be awarded periodically by the Council, on the recommendation of professional assessors, to the architects of buildings of distinction which have been erected in Wales. Nominations will not be confined to large or imposing buildings, but will extend to the smaller or less ambitious designs which may have an equally valuable contribution to make. Entries can include either individual buildings or a group of them within a scheme designed by one architect or partnership. In the latter case, layout and appropriate siting will be factors to be taken into consideration.

The procedure to be followed for nomination is that the architect concerned, or some other individual, organization, or public body, will send to the Eisteddfod Office, Pwllheli, by May 1, 1955, particulars of the building or group (with the architect's name), erected within a given period, to which attention by the judges is desired. Entries should be accompanied by two or three good photographs of the building. Entries will not be restricted to any particular locality. The Court of the National Eisteddfod have appointed the following as judges to advise them on the award of the medal, Mr. Lewis John and Dr. T. Alwyn Lloyd.

There will also be, as stated, three architectural competitions for the design of different buildings as follows:—(1) A Health Centre for Pwllheli and District. Prize £50. (2) The Re-Development of any Caernarvonshire village. Population between 1,500 and 3,000. Prize £30. (3) (For architectural assistants only) A Library for Pwllheli. Prize £20.

Note: Intending competitors in this section should send their names to the General Secretary, Eisteddfod Office, Pwllheli, so that conditions and details as decided by the adjudicators, can be supplied. It is not proposed that the buildings shall be erected or any of the projects carried out.

(Same adjudicators as for the Medal)

COID

Show House at Birmingham

The COID announce that the central feature of the Midland Ideal Home Exhibition

(September 29-October 23) will be a timber bungalow put up by Grosvenor Workmen (Saw Mills) Ltd. No architect is named, but Mrs. Eileen Bell has been appointed by the COID to plan the furnishing and colour schemes, the former being provided by the Birmingham Co-operative Society.

BISRA

Corrosion Advice Bureau

The British Iron and Steel Research Association has formed a Corrosion Advice Bureau in order to deal adequately with the numerous enquiries that are received for advice on the prevention of corrosion of ferrous metals. The Bureau will be at 140, Battersea Park Road, London, S.W.11. (Telephone: MACaulay 5511.) J. C. Hudson has been appointed head of the bureau and E. E. White, secretary. W. H. J. Vernon has been engaged as consultant. The services of the bureau will normally be free to members of the Association, and available to others on a fee paying basis depending on the extent of the investigations required.

COMPETITION

Offices for English Electric

A limited Competition for the design of new offices on the site of the Gaiety Theatre at the corner of the Strand in Aldwych, London, is being held by the English Electric Company, Ltd. The Assessors are Sir Percy Thomas and Mr. John Murray Easton, and the following nine firms of Architects have been invited to take part:—

David du R. Aberdeen; Adams, Holden and Pearson; Farmer and Dark; Farquharson and McMorron; Michael Rosenauer; Louis de Soissons and Partners; Basil Spence and Partners; Sir John Burnet, Tait and Partners; Yorke, Rosenberg and Mardall. It is understood that designs must be submitted by early 1955.

MOW

Building Exhibition in North Wales

Local branches of the NFBTE and the NFBTO, the allied professions and the MOW, are co-operating with Denbighshire Technical College in an exhibition to be held at Wrexham, from September 27 to October 2. The exhibition, the first to be held in North Wales, will be opened by Lord Lloyd, Parliamentary Under Secretary of State for Welsh Affairs, at 2.30 p.m. on September 27, at Denbighshire Technical College, Mold Road, Wrexham.

Examples of students' work will be on view and the college workshops will be open to visitors. There will be displays of: models and drawings showing local building, housing and town planning proposals, depicting the work of architect, surveyor and engineer; a wide range of building materials and a comprehensive selection of powered hand-tools. The MOW contribution will be: *Ancient Monuments*, an exhibit with the Castles of Wales as its subject. *Teamwork in Building*. This shows how efficient building depends on: providing full information, careful organization, detailed programming and progressing, and clear understanding between supervisors and

operatives on the site. *Careers in Building and Domestic Plumbing*. This exhibit contrasts good and poor practice in domestic hot and cold water installation.

The Exhibition will be open daily from 3 p.m. to 8 p.m., admission free.

TRIENNALE

Exhibit from Great Britain

A small group of British manufacturers and designers have combined to stage an unofficial contribution from the U.K. The organizers of the Triennale have made available an area of some twelve hundred square feet. The Triennale, held in Milan once every three years, is the premier international exhibition concerned with contemporary industrial design, furniture, the decorative arts and architecture. Its reputation has grown steadily over the last quarter of a century and it now attracts architects, designers, and buyers interested in quality goods of contemporary design.

In addition to the Italian displays, the foreign Governments participating this year include Austria, Canada, Belgium, Germany, Switzerland, and the Scandinavian countries: there is now also, for the first time, a large Japanese exhibit. The British Government has not accepted an invitation to participate.

The British manufacturers who sponsored this project are Hille of London Ltd. and Ernest Race Ltd. and the designers are Robin Day, Ernest Race, and Misha Black (of Design Research Unit). The British Exhibit is divided into two sections, one half being based on Hille Furniture designed by Robin Day, the second half showing Race furniture designed by Ernest Race: Misha Black has been responsible for the staging of the Race exhibit. The following manufacturers are also participating, supplying carpets, curtains, light fittings, etc., to complete the display: *Fabrics*: Tibor Ltd. (Designer: Tibor Reich), Heal's Wholesale & Export Ltd. (Designer: Lucienne Day), Morton Soudour (Fabrics) Ltd. (Ninon curtains). *Carpets*: S. J. Stockwell & Co. (Carpets) Ltd. *Light Fittings*: George Forrest and Co. Ltd. (Designer: John Reid), Merchant Adventurers of London Ltd. (Designer: Paul Boissevain). *Ceramics and Glass*: Lucie Rie, Josiah Wedgwood & Sons Ltd. (Designers: Victor Skellen and Richard Guyatt), Carter, Stabler & Adams Ltd. James Powell & Sons (Whitefriars) Ltd. *Cutlery*: Roberts & Belk Ltd. *Wallpaper*: Cole & Sons (Wallpapers) Ltd.

A painted panel is by Kenneth Rowntree and a photographic wall panel by Nigel Henderson. The cost of the exhibit is being met by the manufacturers exhibiting, generally in proportion to the area occupied by their products. The designers have given their services free.

DIARY

New Life for Older Houses. Conversion of early nineteenth century houses to modern flats by the MOHLG. At Holles Street, off Oxford Street, W.1. UNTIL END OF AUGUST

LCC Open-Air Sculpture Exhibition. Holland Park. Daily, including Sunday. 10 a.m. until dusk. UNTIL SEPTEMBER

Current American Practice in Heating, Ventilating and Air Conditioning. Paper to be presented by John K. M. Pryke at a special meeting of the IHVE. At the Lecture Hall of the IME, 1, Birdcage Walk, S.W.1. 6 p.m. SEPTEMBER 14



Flats at Clydebank, Glasgow

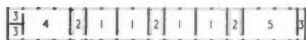
Mountblow House, a block of 32 three-room flats on Clydebank, was recently opened by the Under-Secretary of State for Scotland and is designed by Sam Bunton and Associates. The block is 8 storeys high with a semi-basement containing the heating chamber, laundry and storage space. The photograph above is of the south facade. A considerable amount of research was done before Mountblow House was constructed and the architects have worked in close collaboration with the Department of Health for Scotland, the BRS and the Fire Research Station. The steel content per flat is about 16 cwt., compared with 4½ to 5 tons in traditional methods of construction. The method of construction consists of simple crosswalls of continuous cavity blocks into which concrete is poured with a small quantity of steel to form a structural load bearing wall. This eliminates costly concrete framing and shuttering. Prestressed r.c. planks 2-in. thick form the basis of the floor construction. It is estimated that using this method of construction it is possible to construct multi-storey flats at £1,850 per 3-room flat, including cost of lift, laundries, etc. General contractors, John Lawrence (Glasgow) Ltd.

**BUILDINGS IN
THE NEWS**

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Secondary School, Alperton, Middlesex

The proposed secondary modern school for boys at Alperton, Middlesex, for the Middlesex County Council is designed by C. G. Stillman, County Architect, D. R. Duncan, Area Architect and J. W. Paterson, Senior Architect. The photograph below shows the model seen from the south-west. The building is designed as a 4-form entry school, with staircase access and the classroom block on the south side and the practical room block will be connected at alternate half landings. By this means the building will follow closely the fall of the site, which slopes down steeply from north to south, while also enabling cross ventilation and light from two sides to be provided in all teaching rooms. The assembly hall and the gymnasium are grouped so that changing rooms can be used for both stage and gymnasium purposes. The first floor music room is designed to be used as a balcony to the assembly hall if required.



Second floor plan

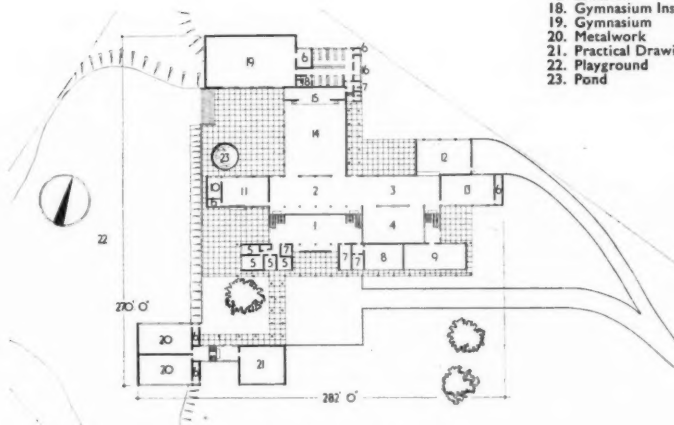
- KEY
- Second Floor
1. Classroom
 2. Cloakroom
 3. Store
 4. Geography
 5. General Workshop



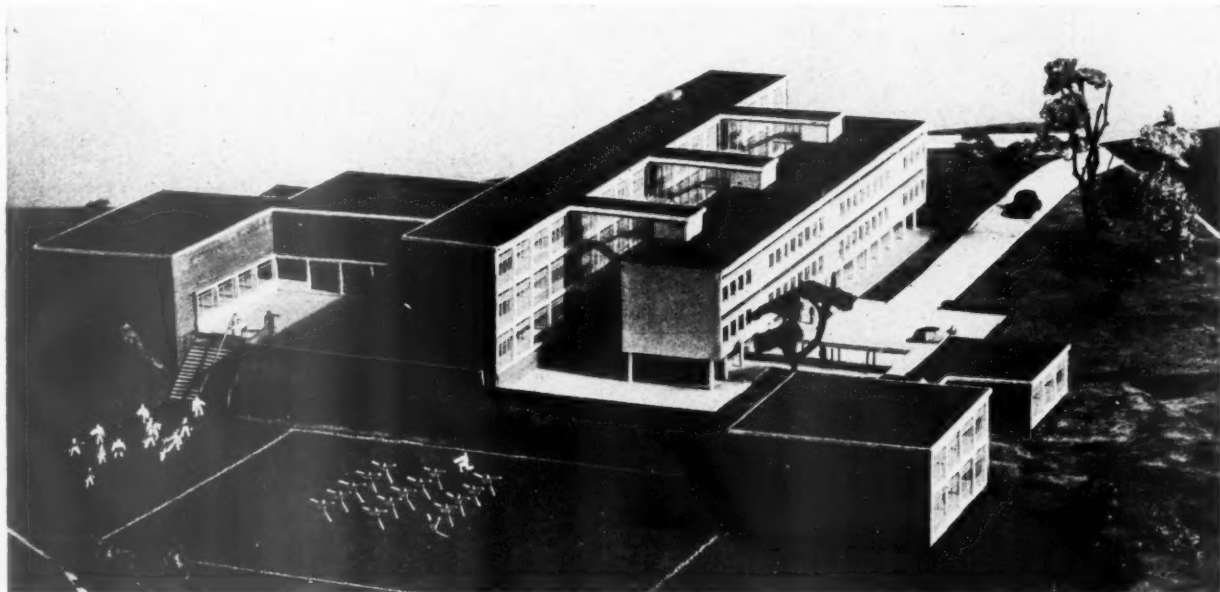
First floor plan

- First Floor
1. Classroom
 2. Cloakroom
 3. Store
 4. Lavatory
 5. Preparation Room
 6. General Science
 7. Music Room and Balcony
 8. Art Room
 - General Workshop
 10. Woodwork
 11. Upper Part of Practical Drawing
 12. Upper Part of Assembly Hall
 13. Upper Part of Gymnasium

- Ground Floor
1. Entrance Hall
 2. Vestibule
 3. Dining Area
 4. Small Hall
 5. Administration
 6. Store
 7. Lavatory
 8. Staff Room
 9. Library
 10. Preparation Room
 11. Biology
 12. Kitchen
 13. Craft Room
 14. Assembly Hall
 15. Stage
 16. Showers
 18. Gymnasium Instructor
 19. Gymnasium
 20. Metalwork
 21. Practical Drawing
 22. Playground
 23. Pond



Ground floor plan [Scale: 1/32" = 1' 0"]



CREMATORIUM

at THORNHILL, CARDIFF, SOUTH WALES

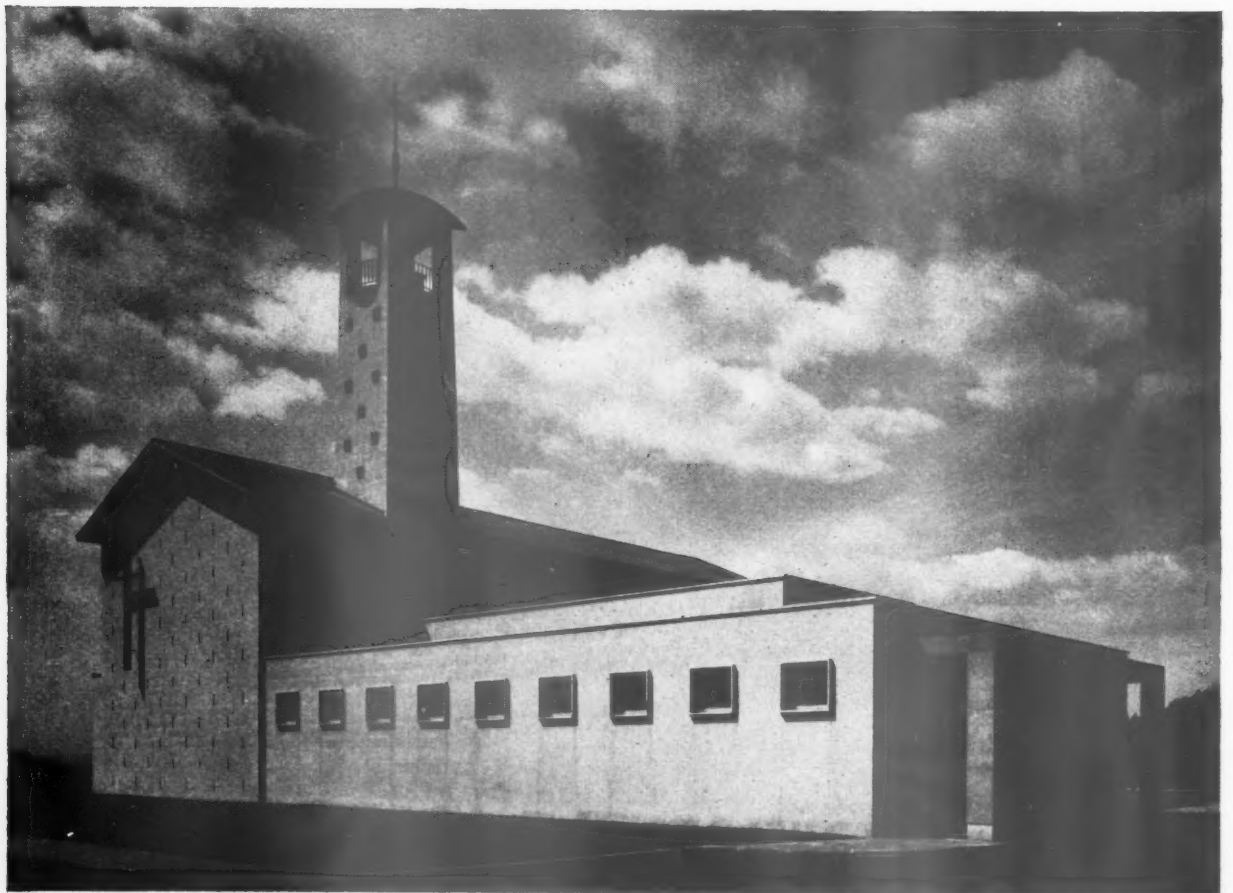
designed by E. C. ROBERTS, City Surveyor,

chief assistant architect, A. L. PRIEST, assistant architects, D. DEVLIN, J. H. PHILLIPS and W. R. J. S. HINDS

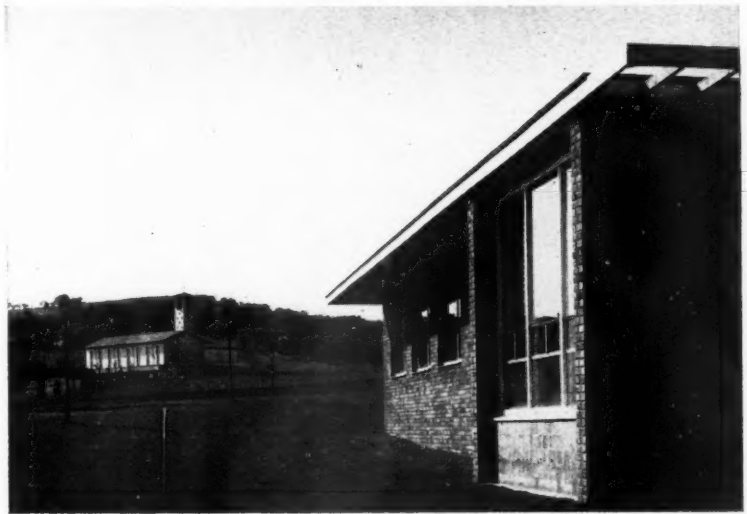
chief assistant structural engineer, P. J. FOSTER

The new cemetery at Thornhill is situated 5 miles north of the Cardiff civic centre, just outside the city boundary and has the main Cardiff-Caerphilly road as its eastern boundary. The site is of 48 acres, of which 36 acres are for earth interment and the remaining 12 acres for the crematorium chapel and garden of remembrance. The interment area is large enough to contain 16,500 graves. Thornhill is the second crematorium to come into use in Wales, the other being near Pontypridd.

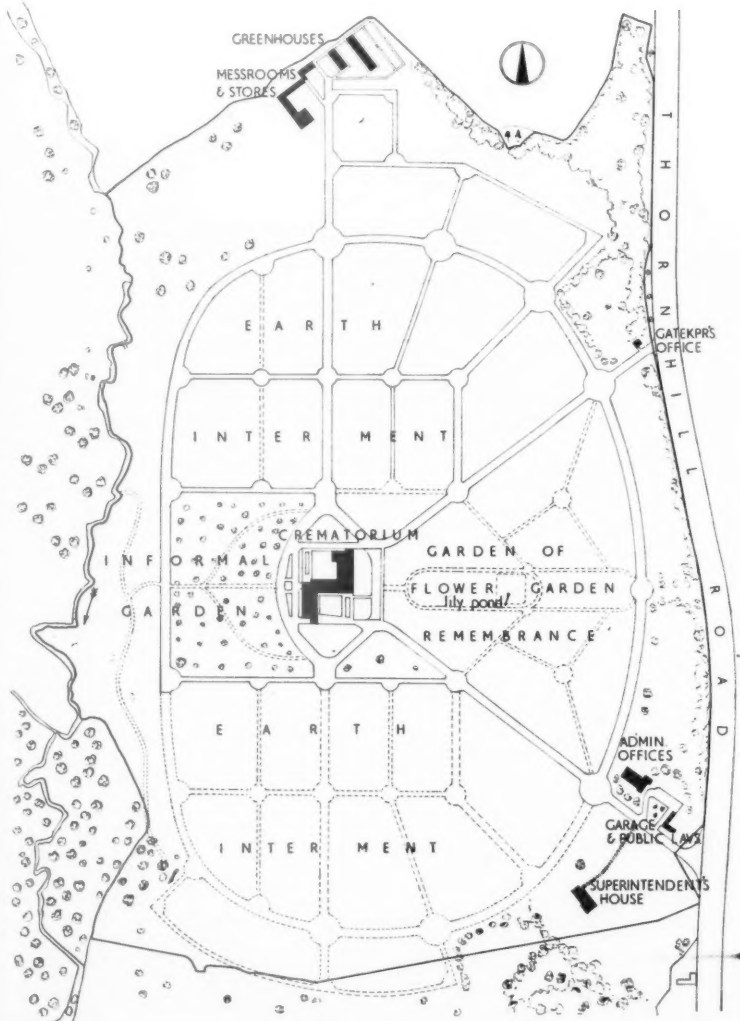
The chapel and cremation wing from the north-east.



PLAN.—The crematorium is designed to provide cremation facilities for the City of Cardiff, population about 250,000, and the surrounding area and the chapel is for use in both cremation and interment services. The chapel provides seating for 156 people and is planned with the altar as the dominant feature and the catafalque, which, in a chapel designed entirely for cremations would be in a central position, is on the south side of the chancel and at a slightly lower level than the altar. At the conclusion of a cremation service an electrically-operated curtain closes off the chancel from the body of the chapel, after which the coffin is placed on a wheeled trolley and taken through the transfer room into the committal chamber for cremation. After the curtain has been closed the mourners still

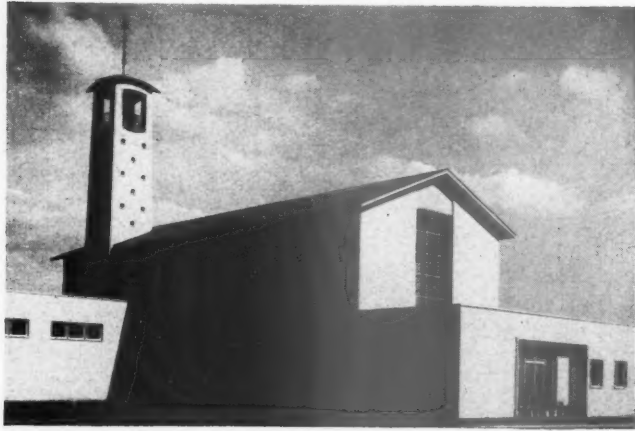


Above, a general view of the site from the south-east. On the right the administrative offices and in the background the chapel.

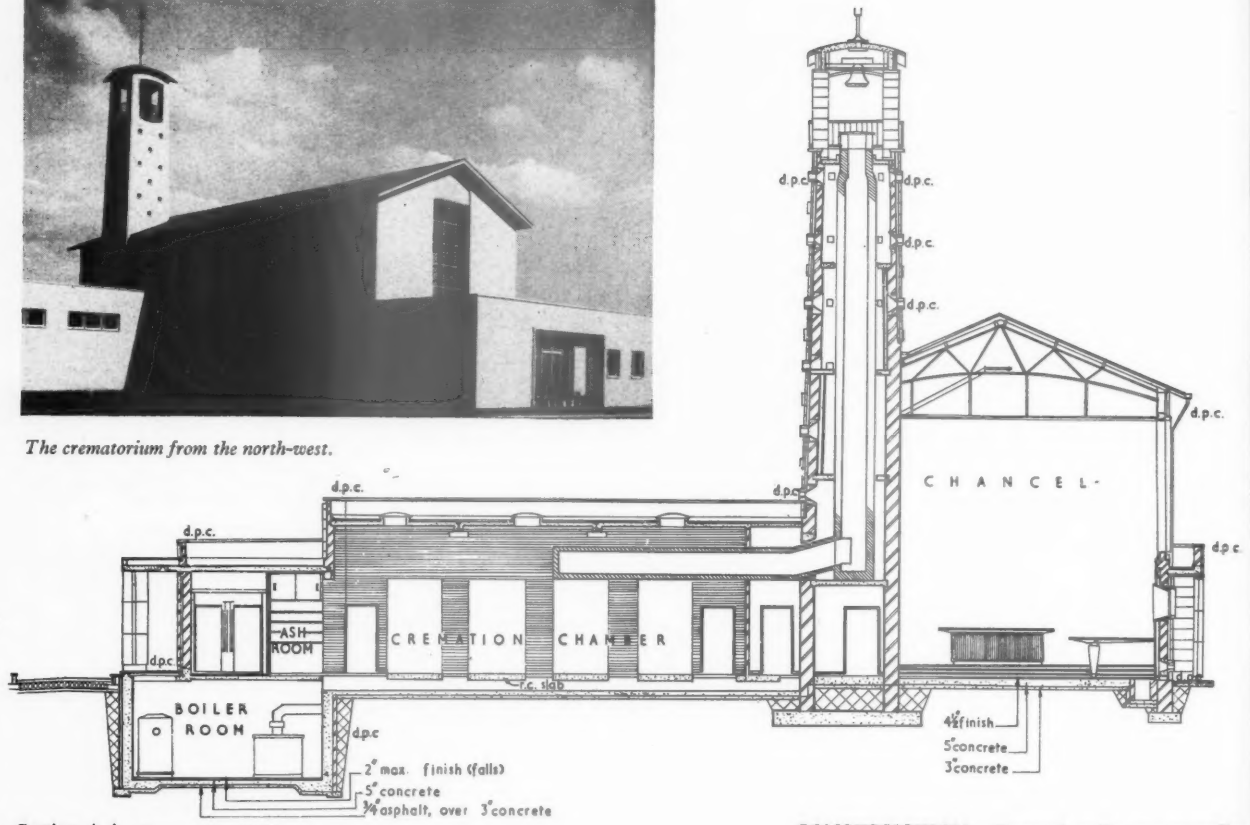


Site plan (layout shown in dotted line is proposed)

have a view of the Cross, mounted high on the east wall of the chancel, through an open screen above the curtain rail. After the service the congregation leave the chapel by the north-west porch. The books of remembrance, which are kept in a room at the west end of the chapel, had to be made available to the public at week-ends when the main part of the chapel is closed. There are in all, 8 books of remembrance, 4 for cremation and 4 for interment and sub-divided, 2 for each quarter of the year. The two current books are kept in a double-sided case in the centre of the room and the remaining books are in cases fixed in the wall panelling. The following requirements had to be taken into consideration in planning the chapel: (a) the need for a simple circulation, which would allow services to take place at intervals of 20 to 30 minutes without congestion of cortège vehicles or mourners; (b) the public rooms had to be separated, as far as possible, from the cremation chamber, committal chamber and chapel ardente, and the latter required access for motor vehicles, while the public are admitted to the chapel ardente only on request. The chapel ardente, which is situated at the north-east corner of the building, is the chamber in which corpses are kept in cold storage prior to cremation when it is preferred that they should be brought to the chapel some time in advance of the cremation service being held; (c) the clients, the Cardiff County Borough Council, required that the altar should be placed at the east end of the chapel.



The crematorium from the north-west.

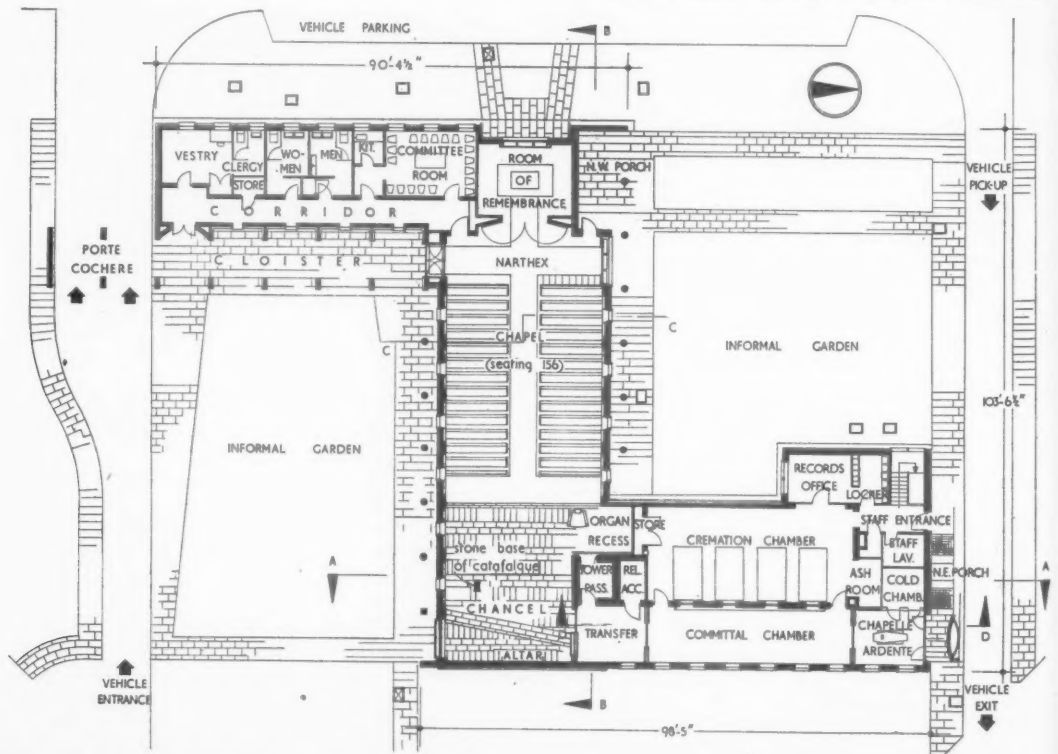


Section A-A [Scale: $\frac{1}{4}'' = 1' 0''$]

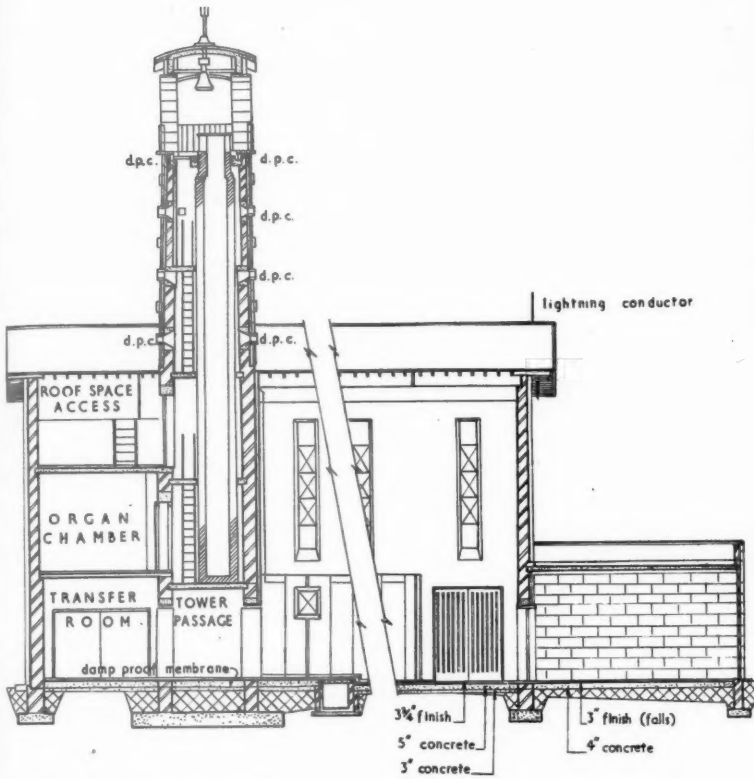
CREMATORIUM

at THORNHILL, CARDIFF
designed by E. C. ROBERTS

CONSTRUCTION.—External walls are generally of 3½-in. stone outer skin, 1½-in. cavity and 9-in. brick inner skin. Galvanized cramps are used and two ½-in. diameter dowels per stone. Floors consist of 3-in. surface concrete, a waterproof membrane



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



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

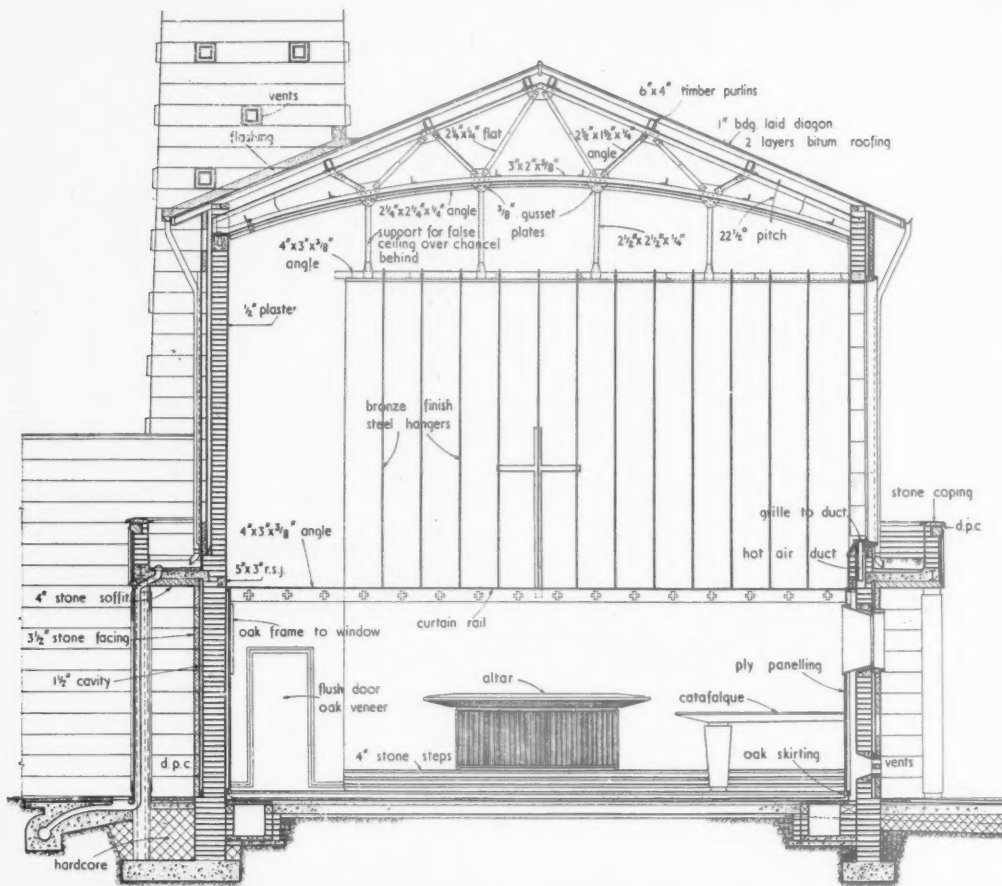


Above, the cloister on the east side of the vestry wing, looking towards the chapel. Below, the south and east facades of the chapel. The main facing material is Portland stone.



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Section C-C, through nave, looking towards the altar and with, in addition, a part section of the roof over the chancel, showing the supports for the false ceiling. (See plan on page 254)

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

CREMATORIUM
at THORNHILL, CARDIFF
designed by E. C. ROBERTS

and 5-in. concrete. The pitched roof over the chapel is of 22 1/2-deg. pitch and is carried on steel trusses at 10 ft. 6 in. centres, timber purlins at 4 ft. 6 in. centres and rafters at 2-ft. centres. Flat roofs are of precast hollow concrete blocks.

FINISHES.—The roof finish of the chapel is two layers of bituminous roofing with green mineral finish on 1-in. diagonal boarding, laid herring-bone fashion. Originally, this pitched roof was intended to be covered with copper, but the shortage of

Right, a view of the chapel from the chancel. Extreme right, from the narthex looking down the cloister which leads from the arrival point for cortege and mourners vehicles.



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WORKING DETAIL

BALCONIES: FLATS IN LONDON S.W.1.

Powell and Moya, architects

BALCONIES: 11

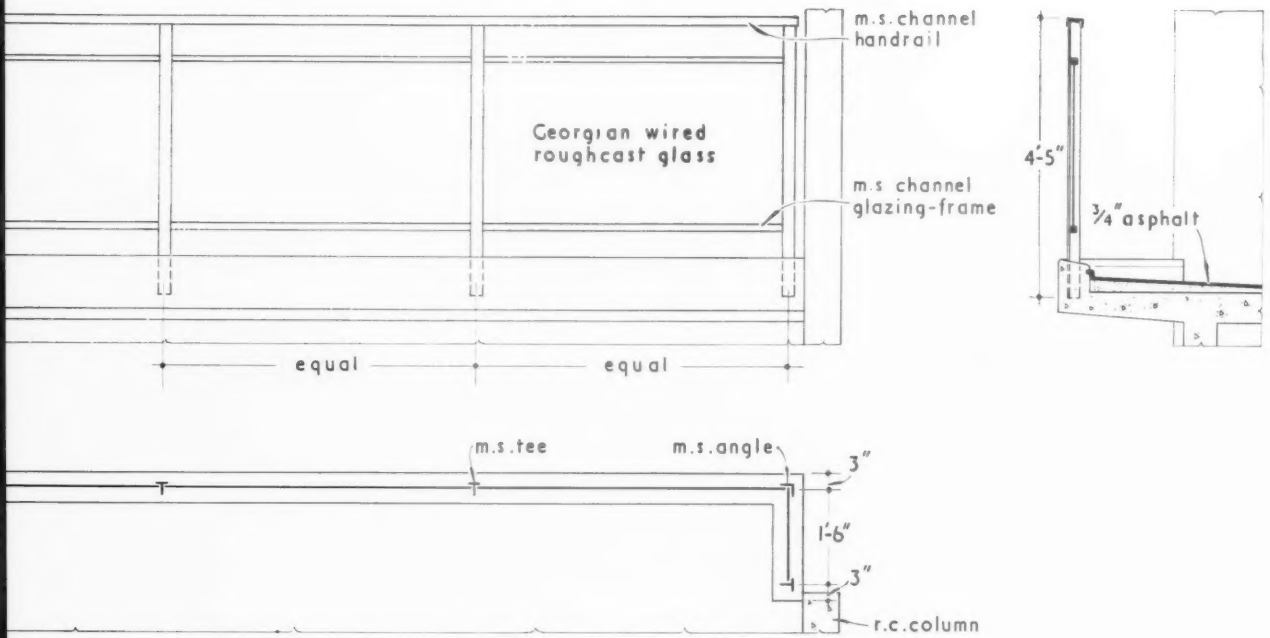


The Georgian-wired glass panels forming the front and sides of each balcony are held in small channels bolted through the flanges of the tee uprights, the nuts being previously welded to the insides of the channel sections.

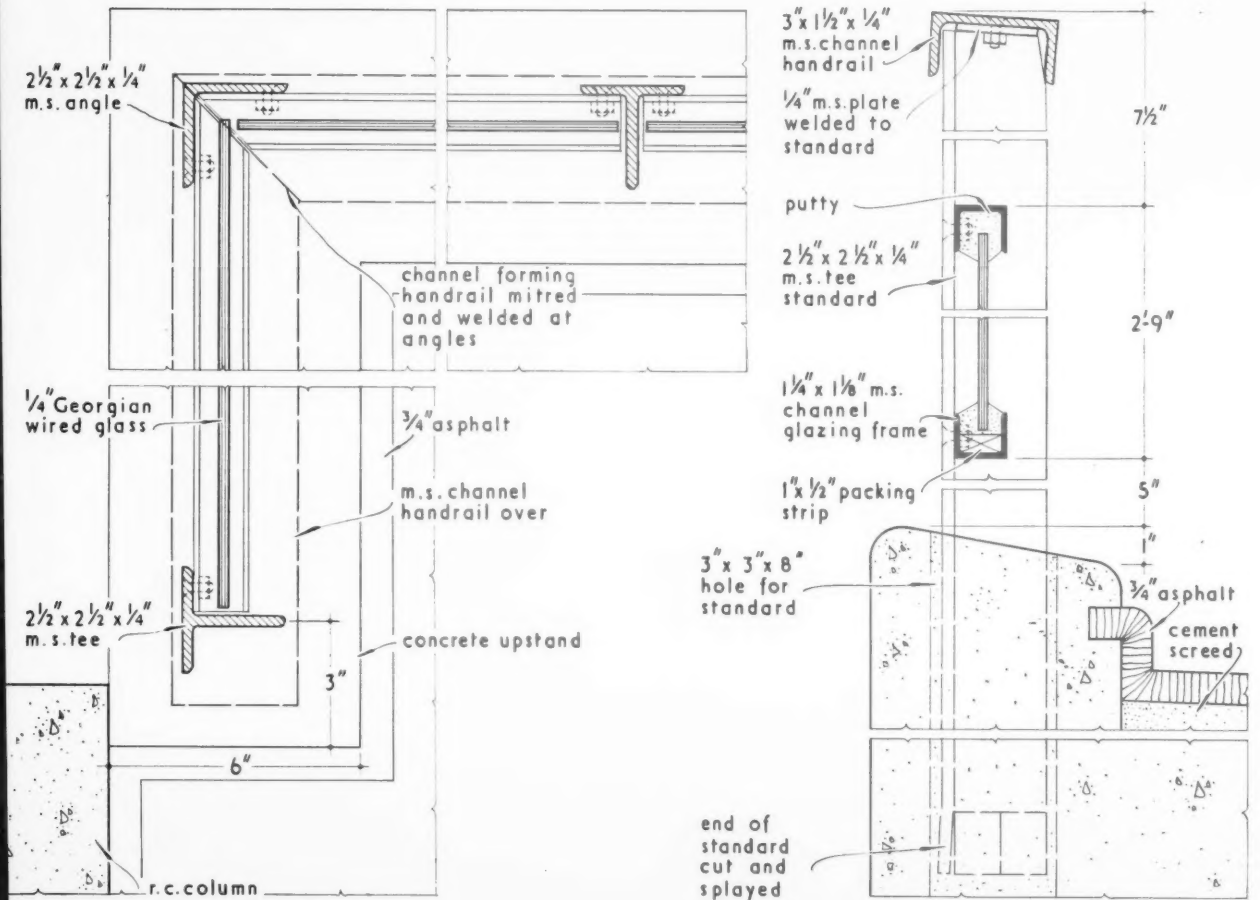
WORKING DETAIL

BALCONIES: FLATS IN LONDON S.W.1.

Powell and Moya, architects



KEY ELEVATION, SECTION AND PLAN. scale $\frac{3}{8}'' = 1'-0''$



PLAN THRO' BALUSTRADE. scale $\frac{1}{4}$ full size

TYPICAL SECTION. scale $\frac{1}{4}$ full size

WORKING DETAIL

NORTHLIGHT IN WORKSHOP: SCHOOL AT BUCKINGHAM

Architects' Co-Partnership, architects

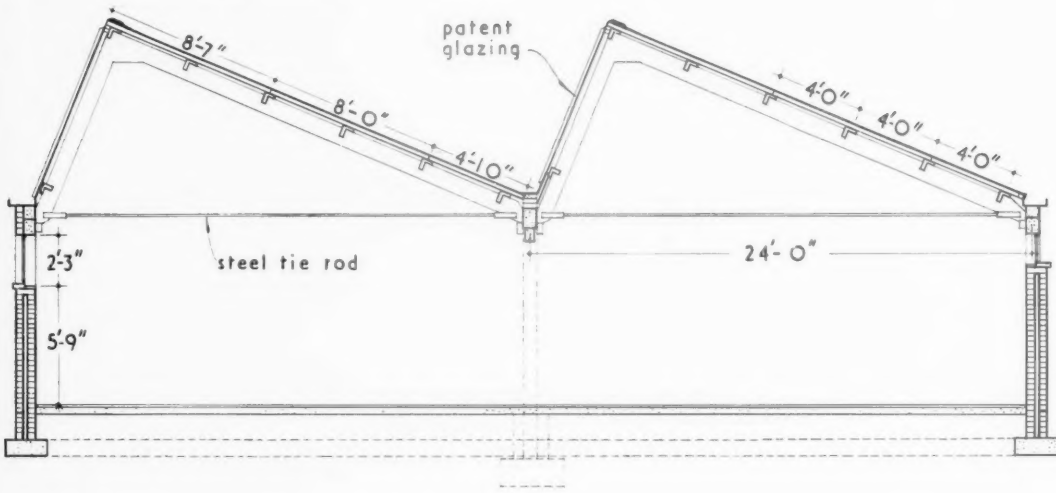


The glazing bars are of aluminium and the unglazed parts of the roof are covered with bituminous felt on reinforced wood-wool slabs.

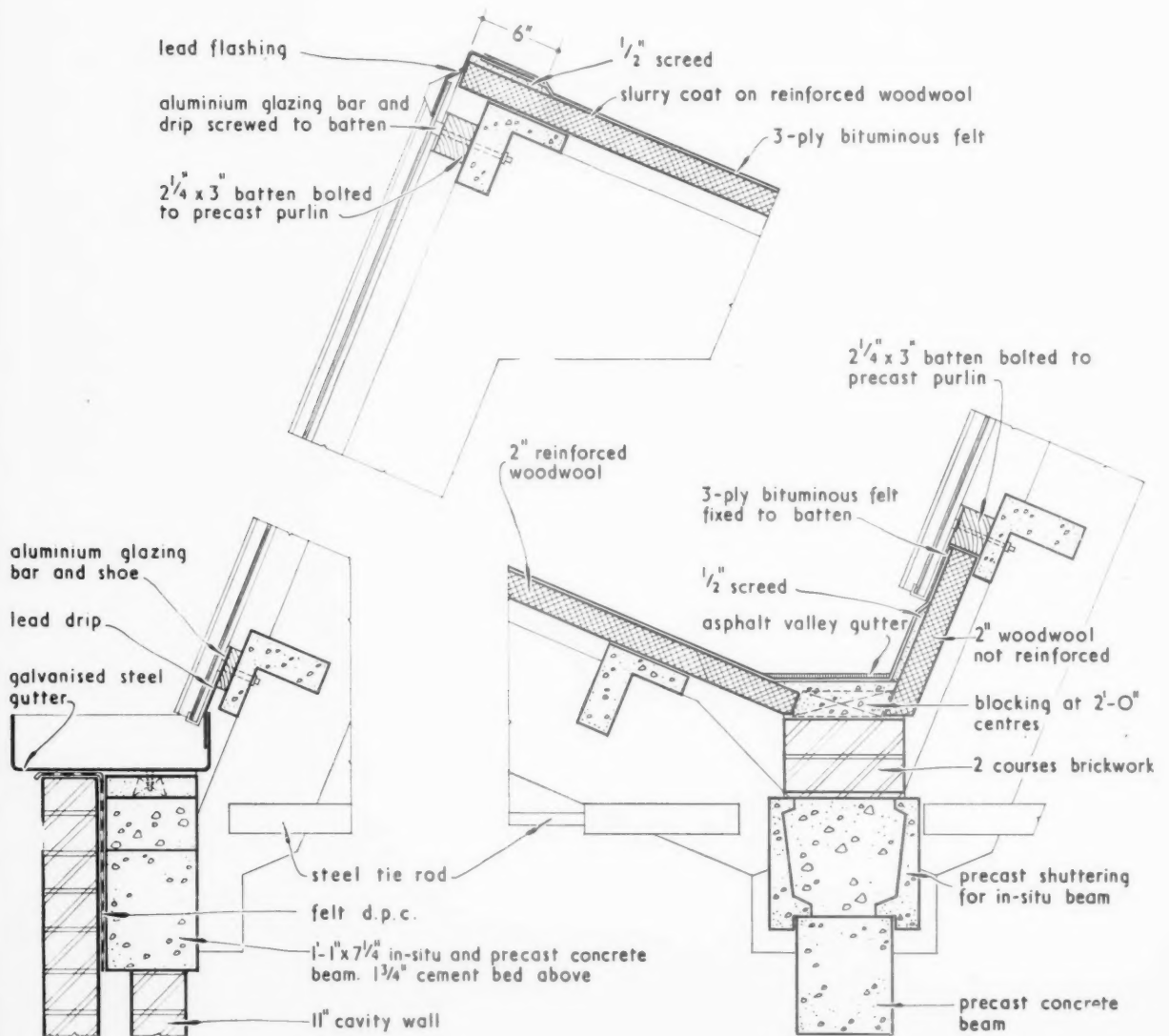
WORKING DETAIL

NORTHLIGHT IN WORKSHOP: SCHOOL AT BUCKINGHAM

Architects' Co-Partnership, architects



KEY SECTION scale $\frac{1}{8}'' = 1'-0''$



DETAILS OF NORTHLIGHT ROOF STRUCTURE.

scale 1" = 1'-0"

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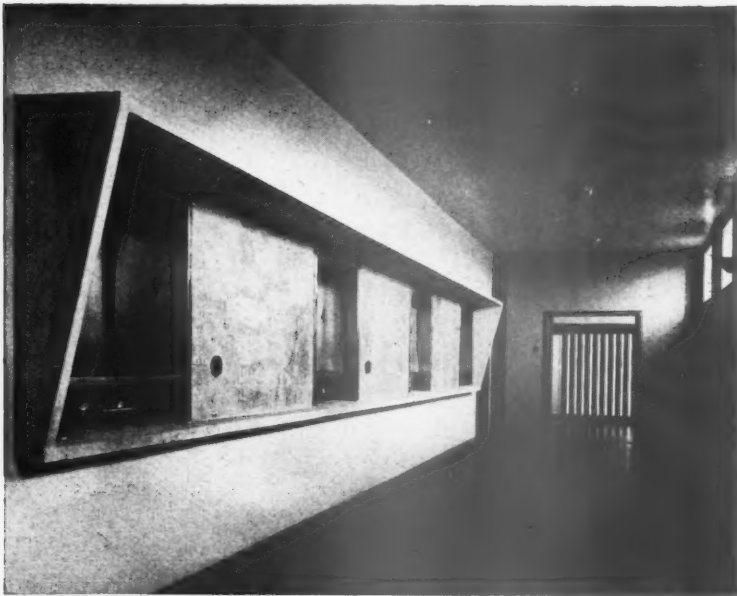
Right, the chancel from the chapel. On the right is part of the catafalque and top, part of the curtain rail which supports an electrically-operated curtain, which divides chapel and chancel after the cremation service. There are rollers set into the top of the catafalque so that the coffin can be easily transferred to the wheeled trolley on which it is taken to the committal chamber. Below, the chapel from the narthex at the west end.



CREMATORIUM

at THORNHILL, CARDIFF
designed by E. C. ROBERTS

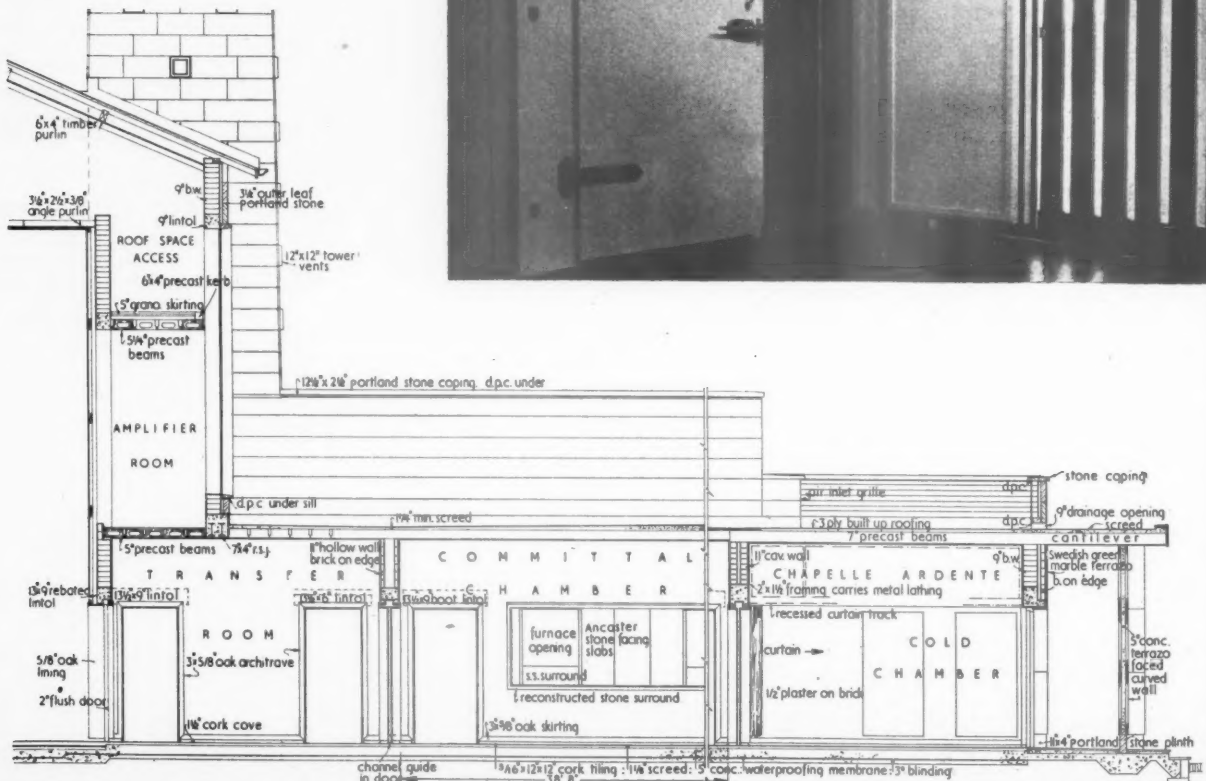
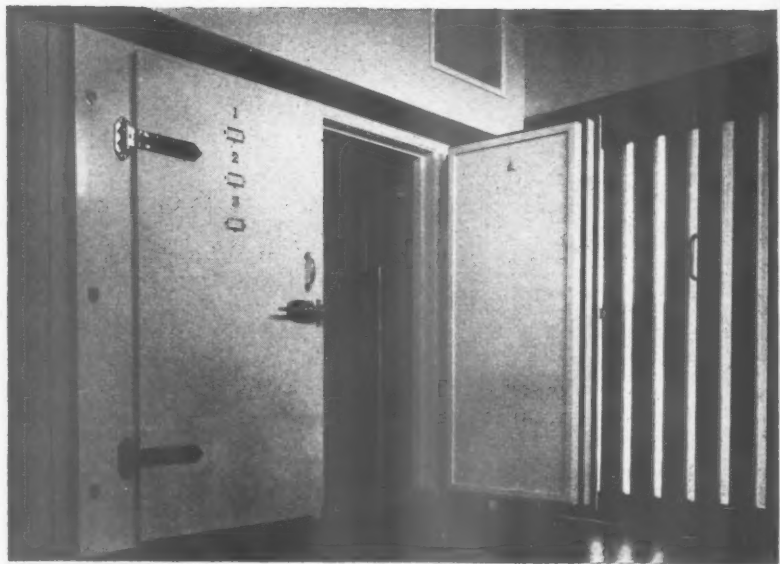
copper at the time compelled the substitution of bituminous felt. Flat roofs are finished with three layers of bituminous felt. Over false ceilings in the vestry wing and main chapel, which contain hot water coils, there is a 9-in. layer of glass silk. Where floor heating is used, in the chapel and chancel, there is a 2-in. screed containing $\frac{1}{2}$ -in. diameter copper pipes. The main flue from the cremator is in moler blocks, carried up within the tower, but not structurally connected to it because of the differential expansion due to extreme heat within the flue. The original steel flue had to be abandoned during the building contract due to a shortage of sheet steel. Portland stone has been used as the main facing material and it is thought that the



Above, the committal chamber. On the left are the doors to the gas-fired cremation furnaces. It is hoped to illustrate one of these furnaces in a later issue of the JOURNAL. Above right, the mirror set in the cremation chamber roof, by the aid of which the emission of smoke is controlled. Right, the cold chamber in the chapelle ardente.

CREMATORIUM

at THORNHILL, CARDIFF
designed by E. C. ROBERTS



Section D-D (see plan on page 254) [Scale: 1/4" = 1' 0"]

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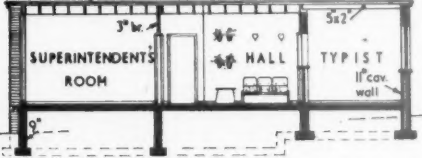
clean atmosphere will avoid the stonework being attacked by acids, etc. Swedish green marble is used as a facing to circular columns and frieze. Internally, woodwork is left natural, clear polished. Church fittings, such as altar, reading desk and catafalque, are in English oak, and all joinery in public rooms is in English or Austrian oak. Walls are plastered and floors are covered with cork tiles and carpets in the vestry, committee room and chapel aisle and chancel approach. In the main chapel the floor is of reconstructed Hoptonwood stone, except in the chancel where natural Ancaster stone is used. Oak panelling is used to a height of 10 ft. The pews, which seat six people each, are in English oak with latex foam cushions.

SERVICES.—Heating is by means of low pressure hot water from a boiler in the basement. The main chapel is heated by floor and ceiling coils consisting of $\frac{1}{2}$ -in. copper pipe at 6-in. to 8-in. centres. The vestry wing is heated by ceiling coils only. In the chapel there are also 500 watt electric heaters behind the panelling which help air circulation and prevent the air becoming stagnant. There are no fans, but grilles at top and bottom of the panelling allow a free circulation of air. The cremation wing and public corridor are heated by electric convector-radiators in wall recesses. No heating or service pipes appear in any part of the building, except in lavatories. The cremation furnaces are gas fired, but after running for a time they work almost entirely on air. Cremation time varies from 50 to 70 minutes, depending on the type of coffin and case. Too much air is liable to produce an excessive

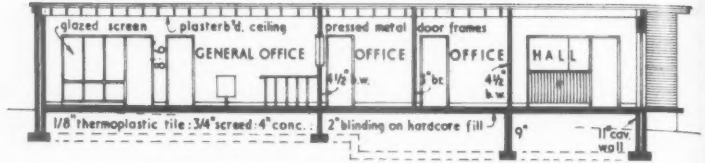


Top left, looking from the room of remembrance through the wrought iron gates into the narthex and chapel. Top right, window at the north end of the narthex. Above, a corner of the committee room.

2 ply built up roofing: 1/4" screed to falls: 1 1/2" wood wool slabs
9x2" & 5x2" joists



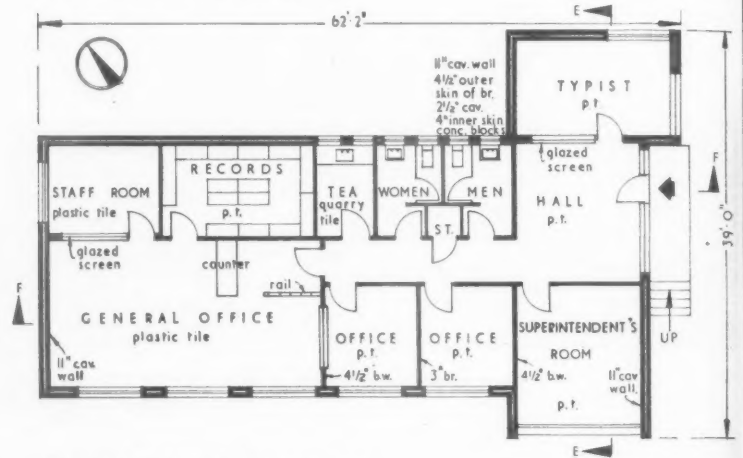
Section E-E



Section F-F [Scale: 1/8" = 1' 0"]

CREMATORIUM

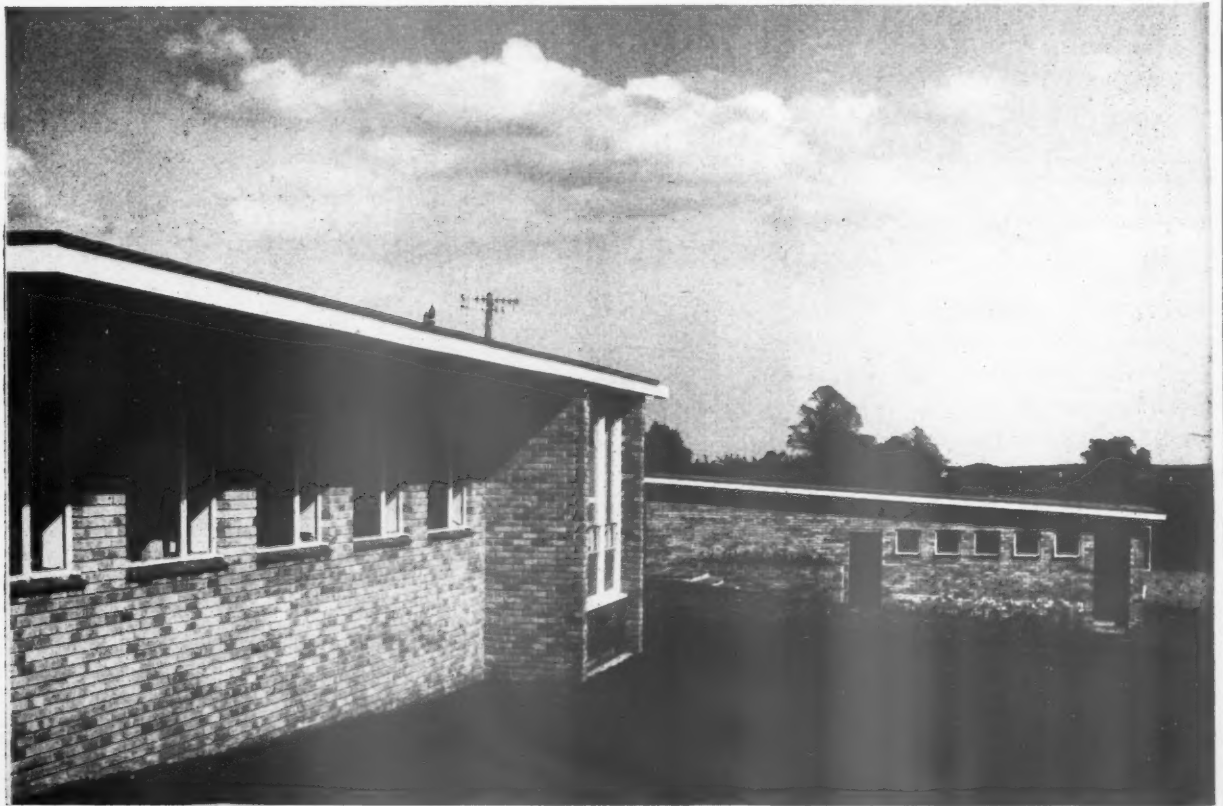
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Ground floor plan, Administrative Offices

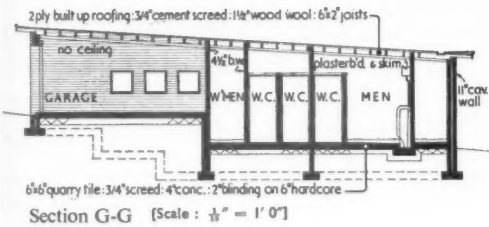
Left, entrance to the administrative offices. Below, administrative offices and south gatekeeper's office from the west.

amount of smoke and in order to control the smoke emission a mirror is built into a hole in the furnace room roof, focused on the top of the tower. It is hoped to illustrate one of the cremation furnaces with photographs and drawings in a later issue of the JOURNAL. In the furnace room there is

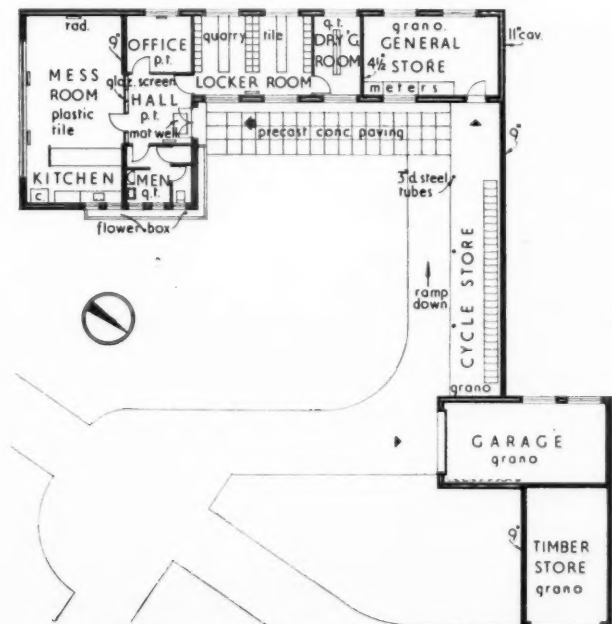
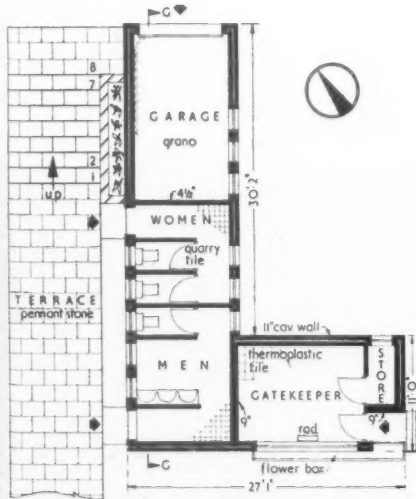


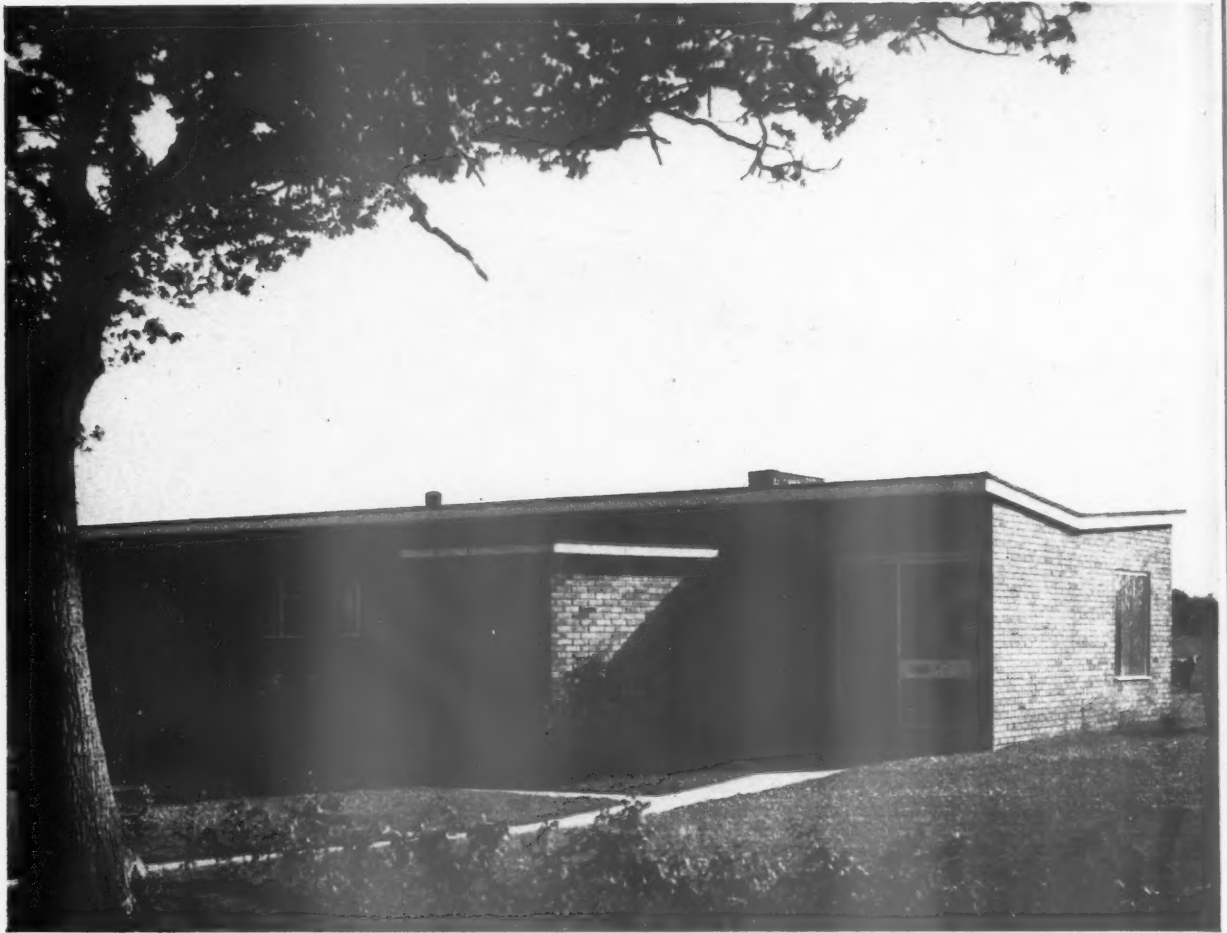


Above, the main entrance gates, south gatekeeper's office and the administrative offices in the background.



also a pulveriser to reduce ashes to a fine powder after they have been raked into trays and removed from the furnace. On removal from the pulveriser the ashes are either placed in an urn, if provided, or scattered in the garden of remembrance. The reading desk in the chapel is wired so that the lights and the curtain dividing chancel and chapel can be controlled from it.

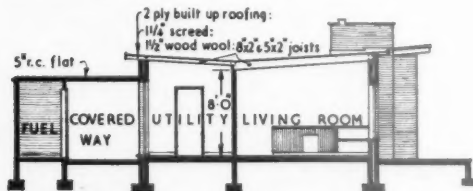




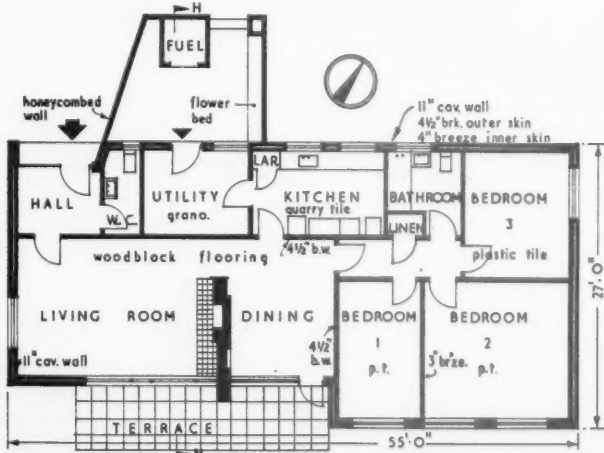
CREMATORIUM
at THORNHILL, CARDIFF
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Above, the superintendent's house from the west. On the right is the main entrance door and centre is the covered service yard and fuel store. Below, the living room, looking towards the fireplace and dining space.

The first contract was for the mess room and stores and north gatekeeper's office (cost £5,900), the second contract for administrative offices, superintendent's house, south gatekeeper's office and public conveniences (cost £11,106) and the third contract for the main crematorium building (cost £63,300). Cost per ft. cube contract 3, 6s. 11d. The general contractors were G. B. Coffin (contract 1), L. G. Mills & Sons, Ltd. (2), and A. N. Coles (Contractors), Ltd. (3). For sub-contractors, see page 270.



Section H-H [Scale: 1/8" = 1' 0"]



Ground floor plan, superintendent's house



TECHNICAL SECTION

Building Industry Distributors have not had very good publicity in recent years—ever since, in fact, the Monopolies and Restrictive Practices Commission criticized them in a report on the supply of iron rainwater goods in 1951. They are now going to spend £5,000—and a further unspecified sum every year—on “prestige advertising” in order to tell everyone of their achievements and because they believe they “can speak with authority . . . on money matters connected with building.” (See also page 247). It is hard to see how much can be achieved with so little. Builders merchants have a long way to go before they will be listened to by architects and builders with avidity—good and useful though their work may sometimes be. Builders merchants—the despised middlemen—are envied by the rest of the building industry because they cannot lose, financially, except during a national slump. They are reputed to have higher profits for less risks than anyone else. Despite a Trade Education Scheme and a four years, full training, apprenticeship scheme, too many travellers and merchants appear to fail the architect and the builder by their lack of technical knowledge and awareness of new techniques and of alternative materials. However, the potential value of really efficient builders merchants—on the question, for instance, of reducing costs—could be very high indeed, and when the bulk of them resemble their own President, E. M. Tatlow’s description of them, the rest of the building industry—and many others, will be well prepared to listen to the merchants without their having to spend a penny on “prestige advertising.”

This week’s
special feature

8 QUANTITY SURVEYING single price rate estimating

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

There are signs that Quantity Surveyors are as dissatisfied as architects with some of the aspects of present day costing procedure. For some time a study group sponsored by certain former members of the Junior Organization of the RICS has been examining the problems raised by current practice, and in April last, a member of this group, W. James—who is also the Hon. Secretary of the Quantity Surveyors’ Committee of the RICS—read a paper entitled “A New Approach to Single Price Rate Approximate Estimating.” As this is a subject which is of immediate concern to architects, we publish this week a summary of the proposals put forward in this paper.

Two methods of single price rate estimating are in current use: cubing and the floor area method. The first point which strikes the investigator is that neither is of universal application. Cubing, which is the older of the two methods, is still in general use for most

classes of work, but it is noticeable that for building types where new methods of construction are more likely to be used, such as factories and schools, the floor area method is preferred. A characteristic of both systems is that neither (if we set aside the RIBA’s

cubing rules relating to pitched and flat roofs) makes any attempt to take into account the *shape* of a building. Cubing attempts no more than to estimate a void. The floor area method has at least the advantage of taking one major structural component into account—the floor—but makes no attempt to record any variations in the ratio between floor area and the area of perimeter walls. Neither method reflects the number of storeys or variations in storey height, and neither makes any allowance for the added cost of basements and semi-basements. These intrinsic flaws all make their contribution to the margin of error in a kind of pricing which must always be hazardous enough; and it is hardly surprising that wits in the Quantity Surveying profession have come to call this part of the QS's services "the crystal and black velvet stage"! If we must, from the nature of the case, accept some margin of error in even the most perfect system of approximating, this is not to deny that approximate estimating plays an essential part in design; and indeed the architect's chief case against the two current methods is not that they lead to avoidable inaccuracies, but that they give him little or no assistance in comparing the relative costs of different planning solutions. They may give the client some inkling of what he may have to pay, but they give the architect no help in judging how he may give the client the best value for his money.

It is clear that the sponsors of the new proposals had this objection particularly to heart for the system they propose is of a kind which can only come into operation *after* a number of drawings have been made. Their object has been to work out a system which will be universally applicable (*i.e.*, applicable to every class of building), and which will give a genuine guide to the quantity and cost of the structure involved.

THE STOREY ENCLOSURE SYSTEM

The solution they propose is described as "the storey enclosure" system. From the beginning the sponsors found that they had to define the limitations of single price estimating. They found, for instance, that they had to make two important exclusions, *viz.*, site works and engineering services, together with three lesser exclusions—abnormal foundations, "features not general to the structure, such as boiler flues, dormers and canopies," and circular work—since these bore so variable a relation to the whole that their inclusion could easily queer the sum total. These items were therefore taken outside the scope of single price estimating, to be handled by the method of priced approximate quantities.

The essence of the idea (as the system's name suggests) is to measure the super-

ficial areas of all floors, ceilings and external walls enclosing each storey of the structure, and to add variable "timesing"* factors to the principal surfaces, according to the position they hold in the building, and in such a way as to ensure that the inherent costs of the structure are taken into account.

Thus, taking the normal value of each surface as one, the extra allowance for foundations is made by applying an additional timesing factor of one to the lowest floor (*i.e.*, the lowest floor is twice), this provided the floor is not below ground. By the same token the added structural cost of providing upper floors is represented by adding a variable timesing factor which increases by an arithmetical progression of 15 per cent. for each successive floor. Thus the first suspended floor carries a timesing factor plus-age of 0.15, the second of 0.30, and so on. The extra cost of building below ground is met by applying an additional timesing factor of 1 to both walls and floors (thus making the total timesing factors for underground work 2 for walls and 3 for floors). External walls, where they are not below ground, have a factor of 1 (all internal walls being ignored), and this factor of 1 also applies to roofs (measured on plan to the outside of the walls).

The proposers justify their weighting of the different structural parts in the following manner:

1. As a measure of simplification, factors of 2 are applied to lowest floors and 1 to roofs, although the proper allocation of weighting factors is really $1\frac{1}{2}$ in each case. This simplification (of eliminating fractional multiples) is justified on the grounds that since, in this instance, these two areas always correspond, any re-allocation of factors which totals 3 (*i.e.*, $1\frac{1}{2} + 1\frac{1}{2}$) will provide the required result.
2. The lowest floor "weighting factor" of $1\frac{1}{2}$ (as explained above) allows for the cost of:—
 - a non-suspended floor;
 - finishings on one side of it; and
 - normal foundations to all vertical structural members in a single storey building including those of its external walls.
3. The roof "weighting" factor of $1\frac{1}{2}$ (as explained in 1 above) provides for the cost of:—
 - a suspended roof and its (lighter-than-floor) load;
 - finishings on both sides of it (one weatherproof);
 - horizontal structural supports to it (such as beams and trusses); and
 - vertical structural supports to it (such as walls and columns).
4. The upper floor "weighting" factors of 2 *plus* covers the cost of:—
 - internal partitioning, partitional finishings, fitments, doors, etc., on the floor;
 - a suspended load-carrying floor;
 - finishings on both sides of it;
 - horizontal structural supports to it;
 - vertical structural supports to it; and
 - the further cost which arises, in the case of vertical structural floor supports to the lower floors of multi-storey buildings, from the need to support the additional transmitted load of all super-imposed floors and the roof above them.
5. The external wall "weighting" factor of 1 allows for the cost of:—
 - a wall with weatherproof qualities;
 - finishings on both sides of it;
 - windows and external doors, etc.; and
 - normal architectural features.
6. The below ground "weighting" factors of 2 for walls (*i.e.*, the above ground factor of 1 plus a below ground factor of 1) and $2\frac{1}{2}$ for floors (*i.e.*, the above ground factor of $1\frac{1}{2}$ plus a below ground factor of 1) provides for the cost of:—
 - displacement and disposal of earth;

*Timesing, *i.e.*: multiplying.

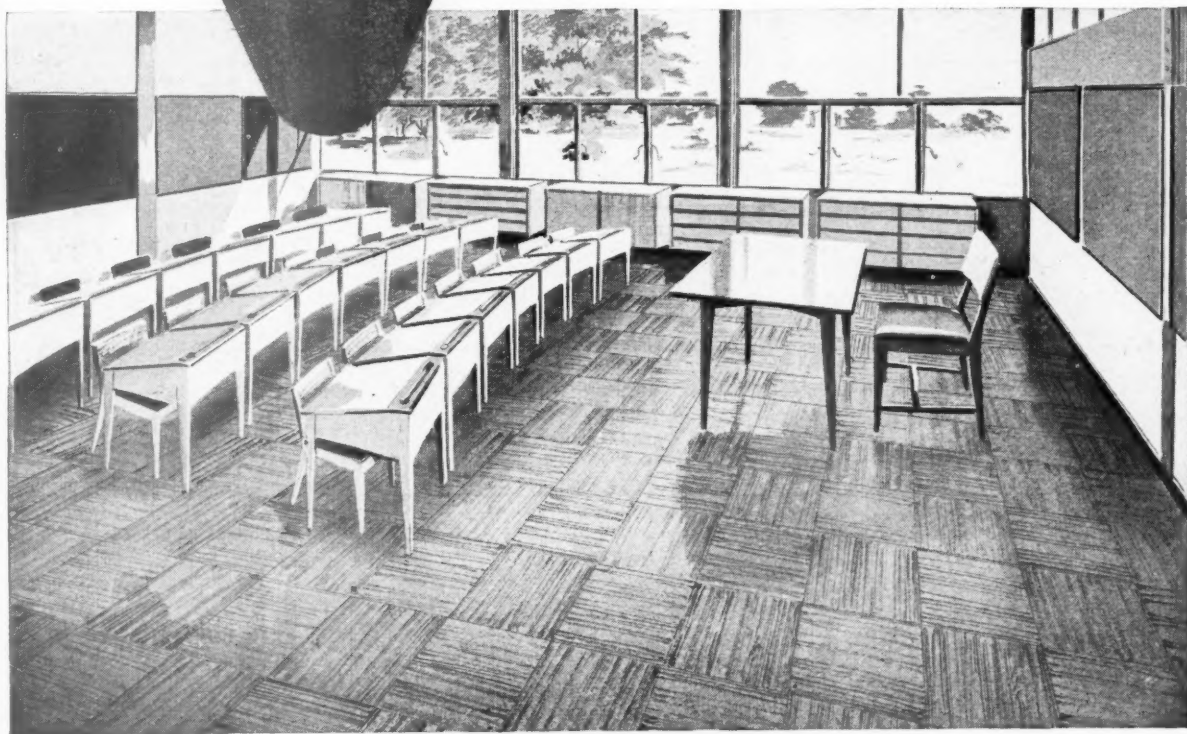
Type of Building	Total Number of Cases Examined	Timesing of Lowest Rate to Equal Highest Rate			Number of Rates within Percentage Grouping		
		Cube	Floor Area	Storey-Enclosure Area	Cube	Floor Area	Storey-Enclosure Area
Flats	16	2.96	2.63	2.09	9	10	12
Schools	14	1.41	1.36	1.34	9	8	12
Industrial Buildings ..	39	4.42	2.61	2.48	16	24	26
Houses	17	1.45	1.44	1.42	8	9	10

Comparison of storey enclosure with cube and floor area methods of single rate estimating, based on a number of actual tenders. The tender amounts were converted into single rates, the figures in the table expressing the variation in rate obtained for each type of building. Clearly the storey enclosure method shows a consistently smaller variation than the other two.



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★ **Pattern 4. Internal**

Parana Pine, Grade 1. 6ft. 6in. high by widths:
 1ft. 3in., 1ft. 6in., 1ft. 9in., 2ft. 0in., 2ft. 4in., 2ft. 6in.,
 2ft. 8in., 2ft. 9in. 1 3/8 in. finish
 Also 4G—6ft. 6in. by 2ft. 3in. and 2ft. 6in. 1 3/8 in. finish
 Columbian Pine Door Stock. 6ft. 6in. high by widths:
 2ft. 0in., 2ft. 3in., 2ft. 6in., 2ft. 9in. 1 3/8 in. finish

★ **Pattern 44. Internal**

Parana Pine, Grade 1. 6ft. 6in. high by widths:
 2ft. 0in., 2ft. 4in., 2ft. 6in., 2ft. 8in., 2ft. 9in. 1 3/8 in. finish

★ **Exterior Redwood Doors, Pre-war Patterns.** (As illustration in our "SASCO" leaflet)

Twenty Patterns and Sizes 1 3/8 in. finish

★ **Hardboard Flush.** Lipped two edges in Clear Softwood

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★ **Plywood Flush.** Type SD, for painting. (Big percentage will pass for stain and varnish)

6ft. 6in. high by widths:
 2ft. 0in., 2ft. 3in., 2ft. 6in., 2ft. 8in., 2ft. 9in. 1 3/8 in. finish

Plywood Flush, Type SD. Oak two sides

6ft. 6in. high by widths:
 2ft. 0in., 2ft. 3in., 2ft. 6in. 1 3/8 in. finish

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waterproof tanking and the loading skins to keep it in position; members of heavier construction than those required in equivalent positions above ground; finishings on one side of these members; internal partitioning, partitional finishes, fittings, doors, etc.; and normal (in the basement sense) foundations to all vertical structural members in a single basement-storey building.

TRIAL APPLICATIONS

The proposers have tried out their scheme on 90 tenders for new buildings, to a total value of about £5 million and have checked the relative accuracy of their analyses against others using cubing and the floor area method. In order to do this it was

found necessary to separate the jobs into four types (flats, schools, industrial buildings and houses) and to convert the prices to the 1951 level. It should be noted that the tender figures were chosen, not the final cost, since it is the tender figures which approximate estimating essays to forecast. A *precis* of the results of these trials is given in the table. As will be seen, two tests were applied: the first had as its object to discover how many times the lowest rate for each type of job had to be multiplied in order to equal the highest, and the second had as its object to discover how many rates fell within a certain percentage grouping. This grouping was fixed at plus and minus 10 per cent. for flats, schools and houses, *i.e.*, classes of building where Treasury cost restrictions had reduced the margin of difference, and

at 20 per cent. for industrial buildings where the absence of such restrictions had given rise to much wider cost differences.

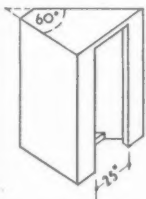
An examination of this table shows that the storey-enclosure method shows a slight, but definite and consistent, advantage over the other two: the proportion of the lowest to the highest rates being consistently less and the number of rates within the percentage grouping being consistently higher. This enhanced accuracy would seem to be a sufficient motive to justify a further trial of the system. Clearly it involves greater work: but it is work which would seem to be well spent in that it must lead to a more accurate knowledge of the structure and of the costs which bear on it at a stage when it is not too late to make drastic revisions.

INFORMATION CENTRE

22.71 sound: insulation-acoustics NOISE-REDUCING TELEPHONE BOOTHS

Acoustic Factors in the Design of Noise-reducing Telephone Booths. D. E. Bishop, F. G. Hewitt, and D. B. Callaway. (Journal of the Acoustical Society of America, Vol. 26, No. 3, May, 1954.)

Some useful details are given of the best way to design doorless telephone booths for noisy locations.



THE RECOMMENDED FORM OF BOOTH



A TRIPLE BOOTH AGAINST A WALL



A FREE STANDING GROUP

The influence of the size and shape of booths has been experimentally examined and it is found that little practical difference occurs between the performance of square, triangular or trapezoidal plan shaped booths. A triangular plan is shown to have some space saving advantages and various layouts of multiple booths with a 60-degree internal angle are shown. A restriction of the open side of the booth to about 25 inches and the provision of a roof result in better noise isolation. Another important factor which emerges is that the use of an acoustical absorbent material (which is, of course, necessary over the whole of the internal surface of the booth) having a coefficient exceeding 0.6 does not

give any material increase in noise reduction. An absorbent should, therefore, be chosen which has roughly this value over the important frequency range of 300 to 4,000 c/s.

24.173 lighting TEXTILE INDUSTRIES LIGHTING REQUIREMENTS

Lighting for Textile Production by H. Hewitt. Transactions of the Illuminating Engineering Society (London) Vol. 19 (No. 3), 24s., 1954.

This paper is an interesting review of the artificial lighting requirements of textile manufacture. The author turns to the cotton industry for many of his examples, but much of the argument would apply to other textile groups. After a brief account of the type of building commonly found and the visual difficulty of various operations, the basic illumination requirements, *i.e.*, level of illumination and quality of lighting are discussed in some detail. For some operations fairly high levels of illumination are essential and this is often best met with fluorescent lamps. Particular attention is therefore given to the economic aspect of fluorescent lighting and the equipment available. Unusual atmospheric conditions may apply in some sections of the industry, *e.g.*, dye houses and wet spinning of flax with a demand for vapour-proof or moisture-proof fittings in such situations. The high humidity and presence of "fly" in certain textile operations also emphasises the need for fittings that are easily cleanable and accessible or removable. Under the section on "layout and control" the author gives special attention to the lighting of weaving sheds. Photo electric control relieves supervisors of the need for hand switching, but with frequent changes there is a reduction in the life of fluorescent lamps. The article concludes with a description of lighting for such special purposes as cloth inspection and colour matching. There is an account of the discussion following the presentation of the original paper which brings out a number of other relevant points.

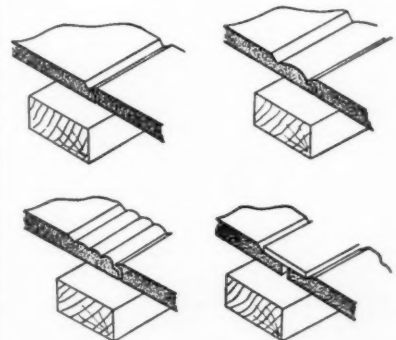
THE INDUSTRY

From the Industry this week Brian Grant reports on fibre building boards, a booklet on the use of gas in small hotels, pre-fabricated wooden shelving, paint made with aluminium paste, new venetian blinds, and an easy clean hinge for wooden casement windows.

HOW TO USE FIBRE BOARDS

A new and fully revised edition of *Fibre Building Boards* was published last month by the Fibre Building Board Development Organisation. The earlier work was prepared by a technical committee for the

Continued on page 267



Details from the new version of the booklet "Fibre Building Boards," price 5s. 6d.

'INSULIGHT' lightens labour



"INSULIGHT" Hollow Glass Blocks transmit light to the dark heart of a building or a room, diffusing it over wide areas in places where ordinary glazing would be undesirable. They cut the racket of the machine shop, the roar of traffic, to a subdued murmur. They hold warmth in and cold out. They keep private places private. In fact "INSULIGHT" Hollow Glass Blocks do the work of walls—but walls of light

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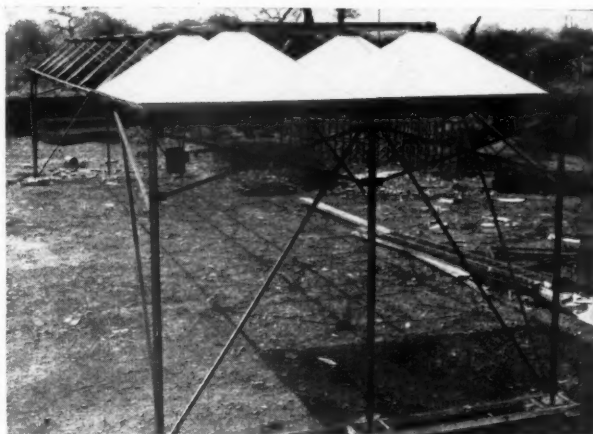
CONSULT THE TECHNICAL SALES AND SERVICE DEPT., ST HELENS, LANCs. (TELEPHONE: ST. HELENS 4001) OR SELWYN HOUSE, CLEVELAND ROW, ST. JAMES'S, LONDON, S.W.1. (TELEPHONE: WHITEHALL 5672-6). SUPPLIES ARE AVAILABLE THROUGH THE USUAL TRADE CHANNELS. "INSULIGHT" IS A REGISTERED TRADE MARK OF PILKINGTON BROTHERS LIMITED.



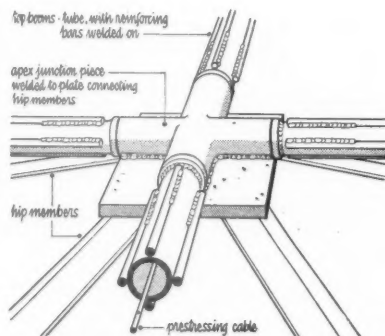
HGB. 11

UNITECTUM: A PRE-STRESSED STEEL ROOF SYSTEM

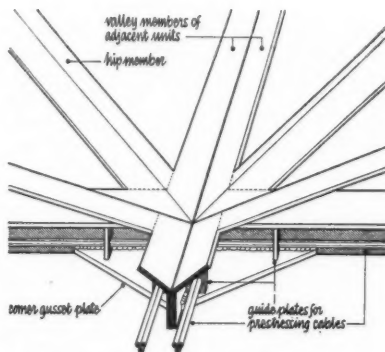
This system of roof units has been worked out by Mark Harland Thomas and Felix J. Samuely; and Sommerfelds, Ltd. (Structural Engineers) have built a prototype of it at their works at Wellington, Salop. The units are welded steel angle pyramids, 6 ft. 8 in. square on plan. They are put together on the ground with a grid of mild steel tubes connecting their apexes. Prestressing cables are threaded along the bottom booms and along the apex tubes, stressed and anchored, rendering the whole assembly "monolithic"; it becomes a space frame. The supporting columns are laid horizontally, hinged to their bases and to the frame itself, hoisting of the roof being achieved by pulling the columns upright. Knee braces are then bolted on to give the columns end fixity. The maximum square plan area possible is 60 ft. by 60 ft. (9 units). One curious feature of the system is the possibility of changing the column positions within certain limits after erection—which might be useful in the case of subsequent alteration or extension of the roof or replanning of the floor space. It is also possible to cantilever beyond the columns. The obtuse angled bottom booms are jointed in mastic



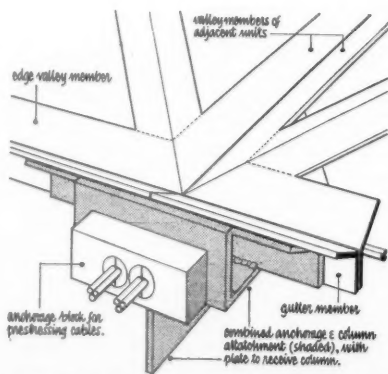
when being bolted together and so form the valley gutters which may thus run in both directions on the roof. External cladding is in triangular panels, which on the prototype are in flat asbestos sheet. There is a second type of Unitectum roof under development with a flat roof at apex level and a flat ceiling at boom level, but this will be less amenable to column re-arrangement.



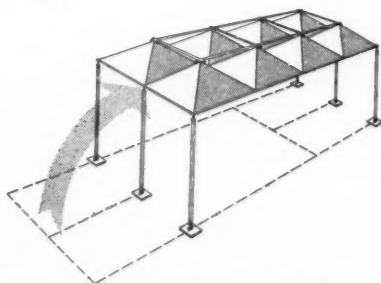
Cruciform junction for tubes connecting the pyramid apexes. Roof sheeting tucks under the square plate



Junction between four pyramids. The obtuse angled booms are bolted together with a mastic compound and form the roof gutter



Junction between adjacent pyramids at edge of roof showing anchor block

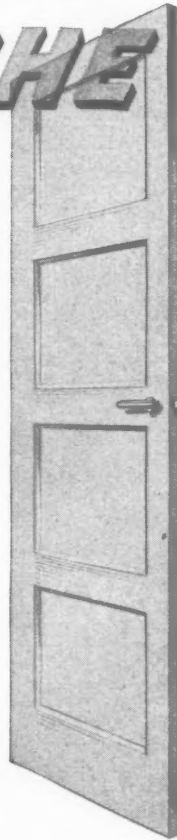


The roof is assembled on the ground where shown by the dotted lines, columns being hinged at cap and base. Columns are then pulled into vertical positions, and knee braces bolted on at the top to provide end fixity

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M.O.W., and was published in 1947. The layout has now been revised and the new edition contains chapters on fire resistance and on factory built houses. Among other features of the book are sections on the various types of board—now quite a complicated subject—general characteristics, sound control and thermal insulation. The book also deals with wall, floor, ceiling and roof construction and various methods of fixing. The treatment of joints is also discussed and a final chapter on surface finishes is followed by a series of appendices giving figures for thermal coefficients and transmittances for various types of construction. A useful reference book. The price is 5s. 6d. (*The Fibre Building Board Development Organisation Ltd., Melbourne House, Aldwych, London, W.C.2.*)

GAS IN THE SMALL HOTEL

There is now a further booklet (No. 8) in the Gas Council's "Commercial Uses of Gas" series, dealing with catering services in the small hotel. Advice is given on the general layout of the kitchen, and matters such as storage, working surfaces, ventilation and rubbish disposal are discussed. The various types of gas appliance are illustrated and suggestions are given for the amount of equipment needed in relation to the number for which the hotel has to cater. "Small hotels" are defined as those serving up to 100 guests at a meal. (*The Gas Council, 1 Grosvenor Place, London, S.W.1.*)

PREFABRICATED WOODEN SHELVING

Timber prefabricated shelving originally evolved in Sweden for use in factories, warehouses and shops, is now being sold in this country under the name of Remploy-Lundia. Basically the shelving consists of reversible end frames having grooved uprights drilled at 2 in. centres to take steel pins which support the shelves. The shelves themselves are reinforced across the ends with steel angle, part of the ends of each shelf being cut away to allow clearance for the post and so that the steel angle can bear on the supporting peg. The cut-away in the shelf is a snug fit against the post and helps the stability of the structure.

Shelf adjustment is rapid and easy, as the shelf can be freed completely by tilting it to about 45 degrees. The pins can be adjusted as required and further shelf positions are on the rails of the frame (without pins), a useful arrangement where a shelf is wanted at the very top of the frame. The shelves can also be set at an angle for shop displays if required.

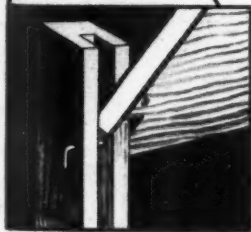
The shelving can be extended to any length, only one end frame being required between each bay, and sets of diagonal bracing wires are available for single bays. With a run of shelving the bracing is only needed every few bays. Erection of the shelving is rapid and needs no tools, except a screw-driver for the bracing. Standard height of frames is 7 ft., but other sizes from 6 to 10 ft. are to be made in future. Shelf lengths are 2 ft., 2 ft. 6 in. and 3 ft., with widths of 12, 18 and 24 in. The 3 ft. shelves will take a total load of 500 lb. each. Prices seem very reasonable, 13s. 6d. each for 7 ft. by 12 in. end frames, plus 12s. 0d. for each 3 ft. shelf. (*Remploy Ltd., 25 Buckingham Gate, London, S.W.1.*)

ALUMINIUM PASTE FOR PAINT

Northern Aluminium have just issued two new paint folders. The first, "What you want to know about Aluminium Paint" describes the properties of paint made with aluminium paste, in particular their high weather resistance and hiding power. It also mentions the different sorts of aluminium paint available, their characteristics

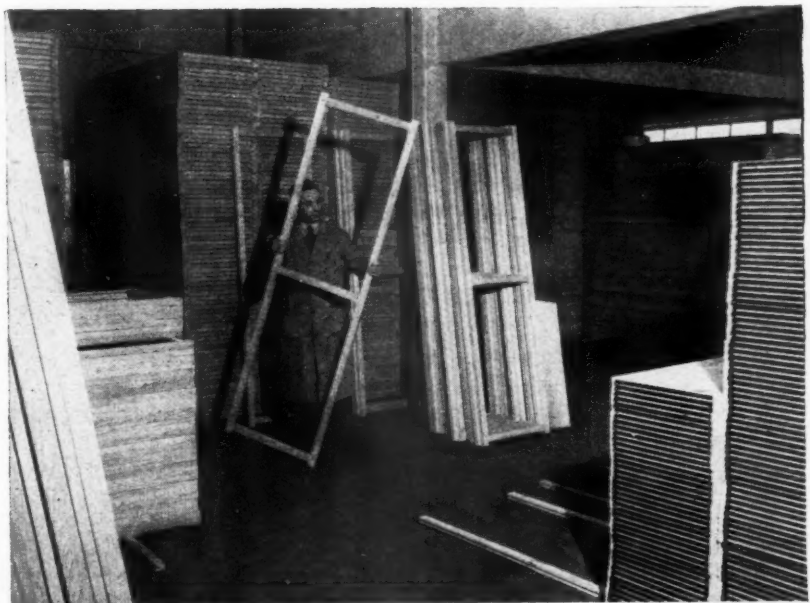


Remploy-Lundia shelving. Shelf lengths are: 2 ft., 2 ft. 6 in., and 3 ft. Frame height: 7 ft.



Left: Shelves are released from the pin support by tilting to 45 degrees.

Below: frames and shelves in stock.



and the best method of applying them to all types of surfaces. The other leaflet, "New Developments," is really of greater interest to the paint manufacturer, and de-

scribes the various grades of aluminium paste now made, and the purposes for which they should be used. (*Northern Aluminium Co. Ltd., Banbury, Oxon.*)

PLAN WITH ESAVIAN DATASHEETS

Specially prepared for Architects, this new folder contains eleven Datasheets showing various applications of Esavian sliding and folding doors, etc. Each type is illustrated by a detail drawing, specification and photograph. If you have not yet received your folder—or require extra copies—please write to

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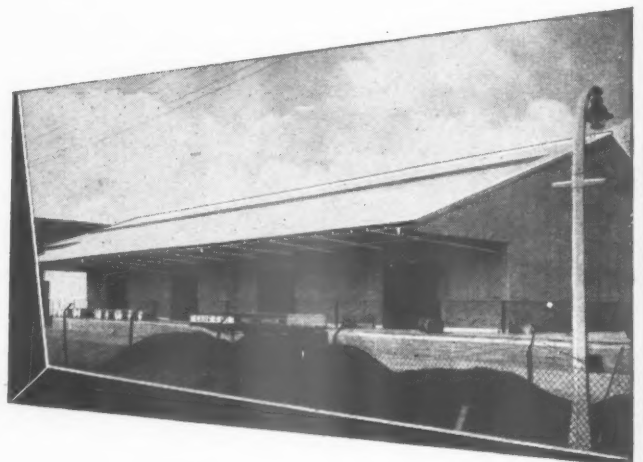
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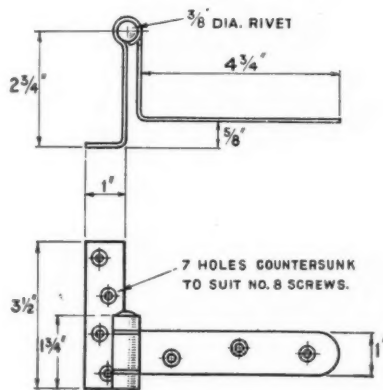
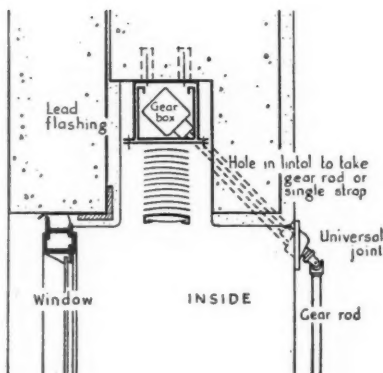
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Right: Solomatic venetian blind, shows recess in lintel. These blinds can be made in sizes up to 16ft. wide and 20ft. high.

Extreme right: Easy clean projecting hinges made for double rebated casement windows



VENETIAN BLINDS

The new Solomatic venetian blind, for which Crittalls hold the Commonwealth patents, has several advantages over the more common types. The slats are made, as is now usual, of 2 inch wide aluminium strip, slightly curved, and have guides mounted at each end, running in channels at the jambs, so that swaying in draughts is prevented whether the blinds are mounted inside or outside the window. There is a single control which not only raises and lowers the slats, but also adjusts their angle of tilt, while at the same time it ensures that the lowering is even at each side. The blinds are made in all sizes up to 16 ft. wide and 20 ft high and can be finished in cream stove enamel or in any standard

colour. The channel at the head, which contains the winding mechanism, is galvanised steel sheet, and is supported by brackets or fixed in a recess in the lintel. Control is by a single or double strap, or a tubular shaft and crank handle with a universal joint and a diagonal drive to the control box. Alternative control is by single or double strap which may be partly recessed in the wall, and can also be made to pass through the wall to outside blind boxes, like the shaft drive. (*The Crittall Manufacturing Co. Ltd., Braintree, Essex.*)

EASY CLEAN CASEMENT HINGES

Automatic Pressings Ltd. are now marketing the "Bat" easy clean hinge for wooden casement windows. The hinge is produced

in three versions. The first is a light type, based on the BS644 hinge, but made in slightly smaller dimensions and of lighter gauge metal to suit the lighter types of casement. Next is the EJMA type heavy hinge conforming to the sizes and gauge of the BS, and finally an improved type similar to the BS model but having a modified arm which fits into the rebate of the casement as cut for the standard storm proof hinge, which can thus be replaced without any alterations to the woodwork. The hinges are made from mild steel strip and sherardized, and the hinge pivot is 2 1/2 in. from the window frame, giving a cleaning opening of about 4 in. (*Automatic Pressings Ltd., "Bat" Works, Malt Mill Lane, Blackheath, Birmingham.*)

Buildings Illustrated

NAAFI Bakery in Lincoln Road, North Hykeham, near Lincoln. (Page 248.) Architects: Architectural Staff of the Directorate of Works and Buildings, NAAFI; Consultants (structural), W. V. Zinn, B.Sc., M.I.C.E., (heating, ventilation and electrical) J. Stinton Jones & Partners; Quantity Surveyors: A. E. Thornton-Firkin & Partners; General Contractor: Lavender, McMillan Ltd.; Sub-contractors; special roofings, Evode Ltd. and The Prater Asphalt Co.; asphalt, The Prater Asphalt Co.; glass, bricks and dome lights, Faulkner Green & Co. Ltd.; bricks, Supplied by London Brick Co. Ltd.; artificial stone, Ellis Ltd.; central heating, gasfitting, boilers and ventilation, Young, Austin & Young Ltd.; bakery equipment, Baker Perkins Ltd.; electric wiring and electric light fixtures, Blackburn, Starling & Co. Ltd.; folding gates, Bolton Gate Co. Ltd., Bolton; plumbing, Structural Services Ltd.; sanitary fittings, B. Finch & Co. Ltd.; plaster, Alan Milne Ltd.; metalwork, C. F. Attrill; joinery, Woodworth Joinery Ltd.; tiling, James W. Sergeant Ltd.; lifts, Hammond & Champness Ltd.; decorating, Charles Scott Ltd.; signs, J. Akers Ltd.

Crematorium at Thornhill, Cardiff, South Wales (Pages 252-262) comprising:—Contract No. 1—Messroom and Stores, North Gatekeeper's office; Contract No. 2—Administrative Office, Superintendent's House, South Gatekeeper's Office and Public Conveniences; Contract No. 3—Main Crematorium Building, Thornhill Road, Cardiff, South Wales, for the Cardiff County Borough Council. (Pages 252-262) Architect: E. C. Roberts, M.Eng., M.I.C.E., M.I.Mun.E., A.R.I.C.S., A.M.T.P.I. City Surveyor, A. L. Priest, A.R.I.B.A., (Chief Assistant Architects, D. Devlin, A.R.I.B.A., and J. H. Phillips, A.R.I.B.A. Assistant Architects-in-charge (main building), W. R. J. S. Hinds (ancillary

Continued on page 270



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Announcements

Blundell, Spence & Co. Ltd., have appointed Terence B. Collins as the new manager, Hull Sales Area. Mr. Collins succeeds Mr. Walton, who is retiring shortly, having been in Blundells' service since 1906.

A. McGraw, A.R.I.B.A., Scottish C.W.S. Architectural Dept., Northern Area Office, 6, Church Street, Inverness, will be pleased to receive trade catalogues and literature.

Bratt Colbran Ltd., have produced a small booklet showing their "inexpensive fireplaces produced specifically for the smaller modern house." It can be obtained from the firm at 10, Mortimer Street, W.1.

Mr. A. G. Burchell, the contracts' manager of Engert & Rolfe Ltd., who celebrate their centenary this year, has retired after 50 years service. Mr. George C. Brown is taking his place.

Architects' Co-Partnership, 44, Charlotte Street, W.1, has opened a branch office in Nigeria, at 1, Regis Aine Street, c/o P.O. Box 870, Lagos. Mr. W. J. G. Godwin, A.R.I.B.A., A.A.DIPL. (HONS.) has become the resident partner since March, 1954. Mr. Godwin and his wife—Jill Hopwood, A.R.I.B.A., A.A.DIPL.—would be pleased to receive trade catalogues.

Farmer and Dark announce that William Antony Henderson, who has been associated with the firm for some time, came into partnership on July 1, 1954. The business of the firm will continue to be carried on at this address and under the name of "Farmer and Dark."

Blundell, Spence & Company Ltd. announces that, consequent upon its acquisition of a controlling interest in Vulcan Products Ltd., E. B. Calvert has been appointed chairman of Vulcan Products Ltd. and its subsidiary, Paint Removers Ltd., and that the following have been appointed directors of Vulcan Products Ltd.: L. H. Downs, C. C. Longstaff, A. R. Rees-Reynolds and F. Tondeur. L. Wilmin has retired from the board of Vulcan Products Ltd. and Paint Removers Ltd.

Corrections

In an article on unsuccessful entries for the Kirkcaldy Crematorium Competition a reference was made on page 72 of the issue of July 15 to a notable scheme by Mill, Koramink & Partners (London). This name was incorrect. The title of the firm is Mills, Kormanik & Partners. The correction of this name which appeared in the issue of August 5 was inaccurate and misleading. The names of the architects of the two designs illustrated on page 72 of the issue of July 15 were given correctly. The top design was by G. H. Fletcher and R. T. Miller and the bottom design by I. G. Dorward and T. H. Haddow.

On page 231 of the JOURNAL for August 19, 1954, a mural in the entrance hall of the Technical College, Colchester, is illustrated. This mural was designed and executed by John O'Connor and Hugh Cronyn, both of the teaching staff of the Art School at the College.

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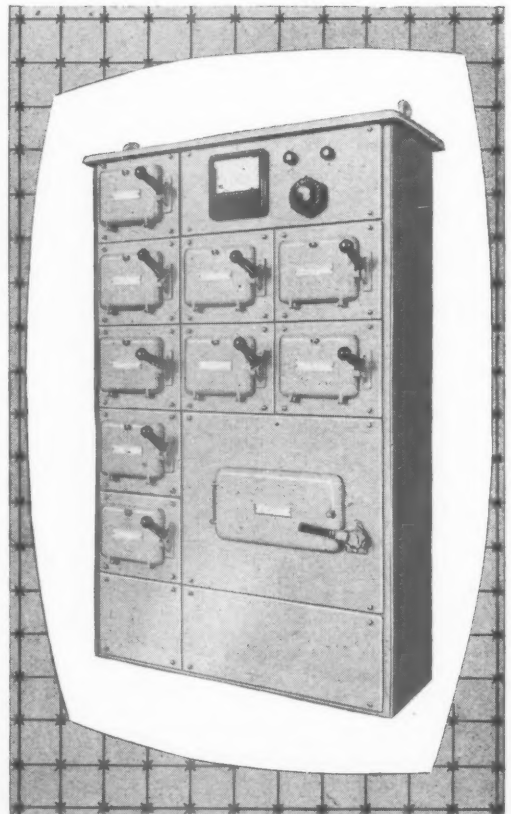
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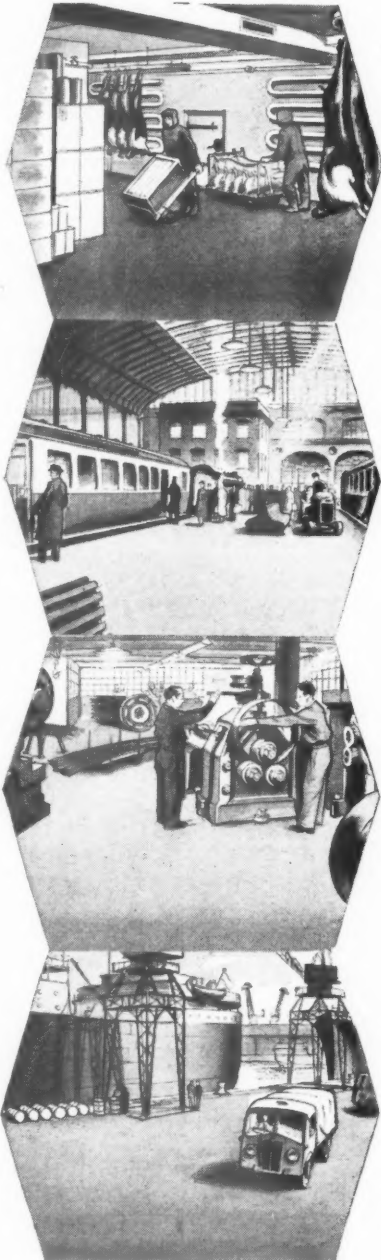
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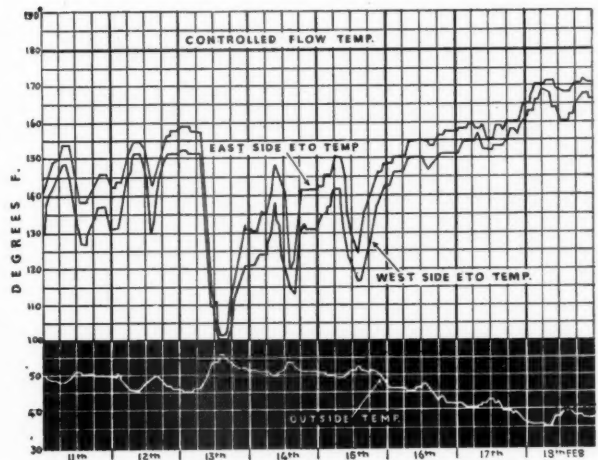


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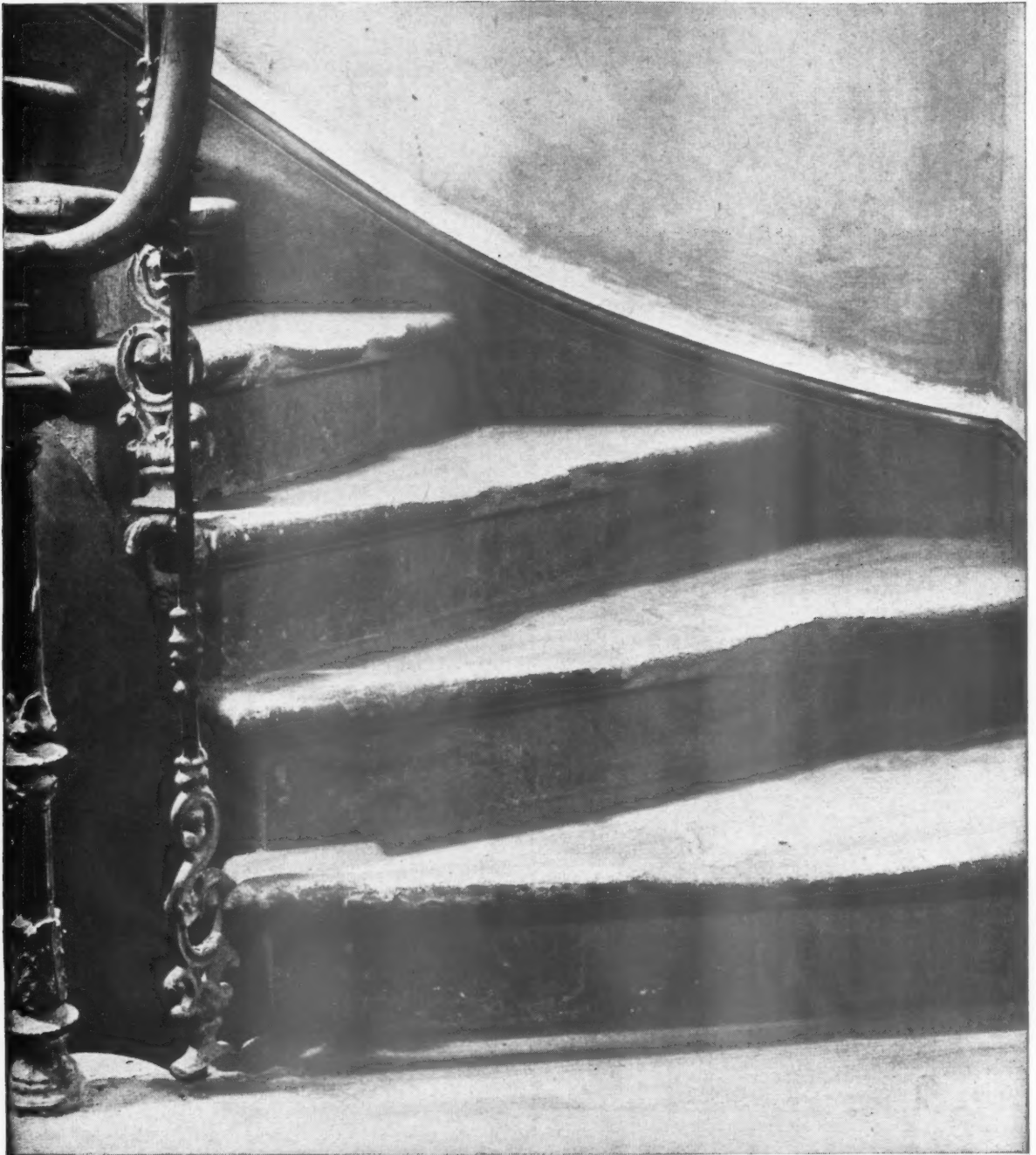
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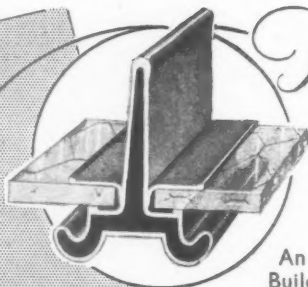
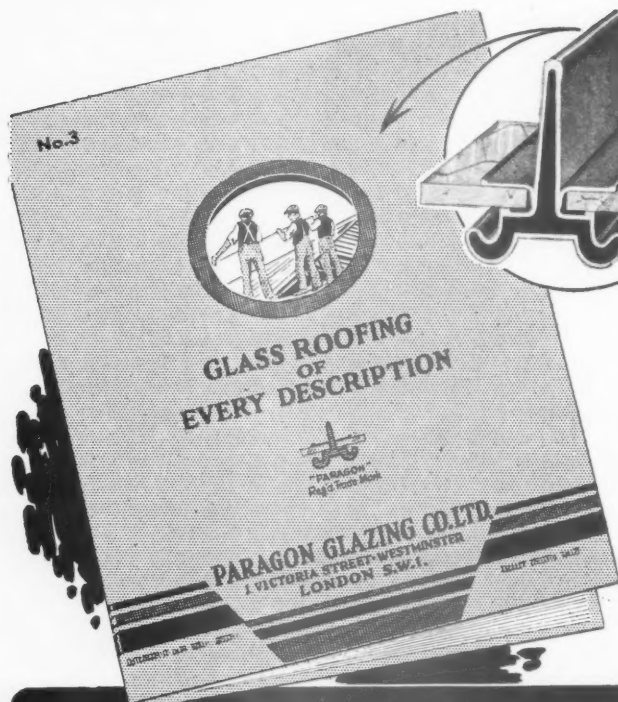
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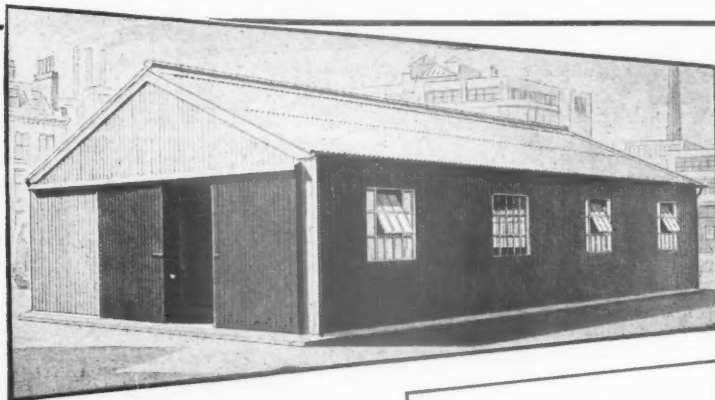
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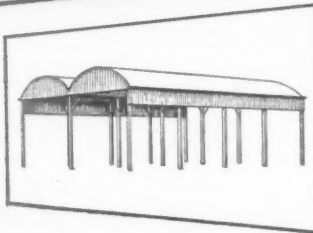
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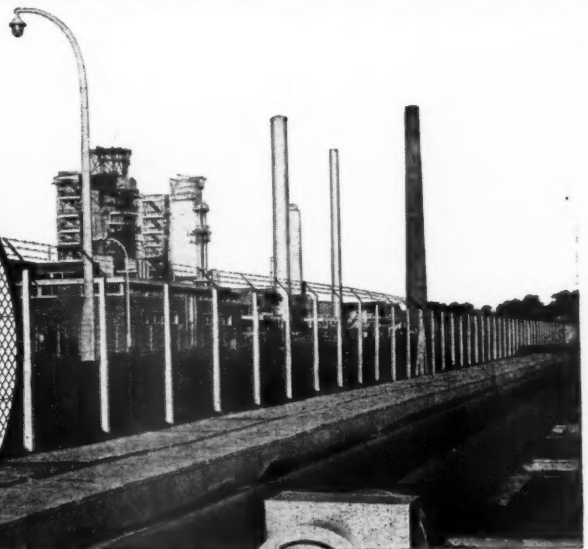
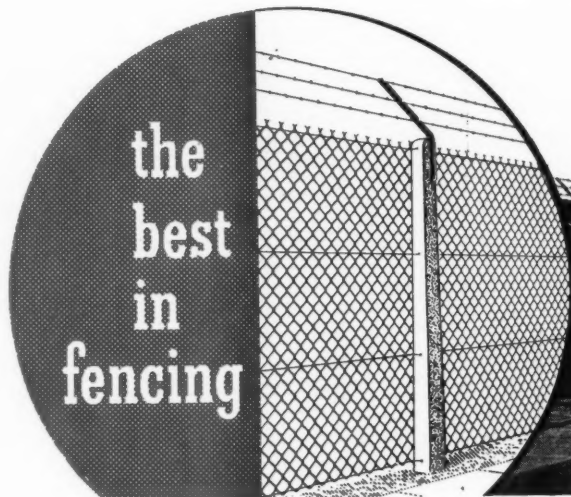
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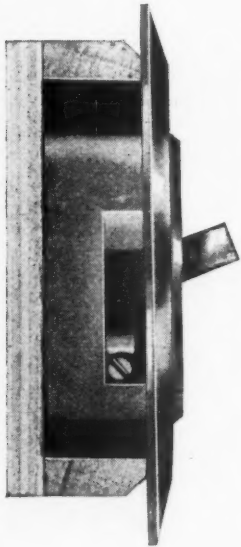
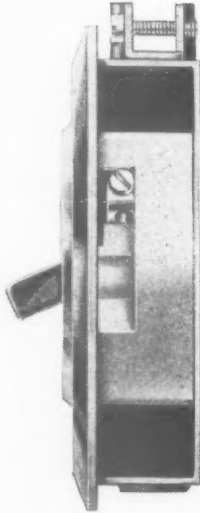
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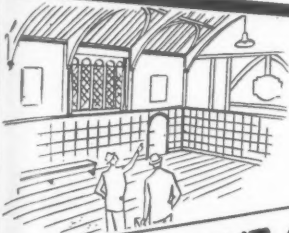


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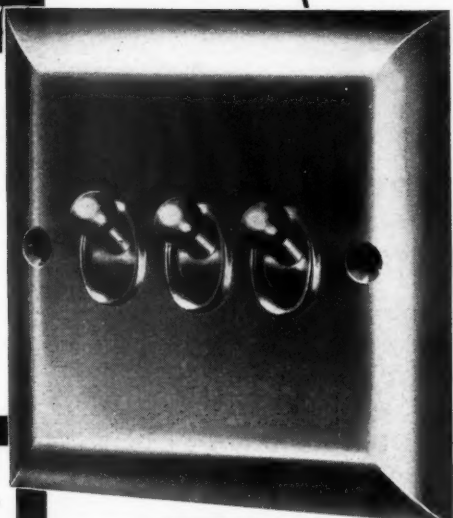
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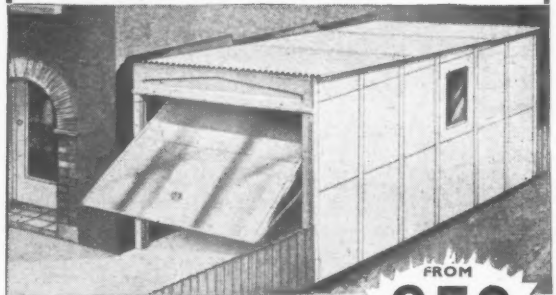


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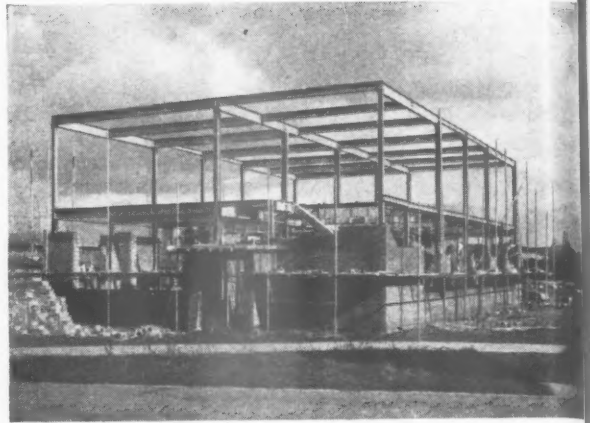
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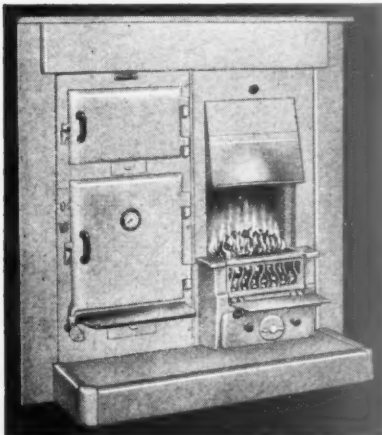
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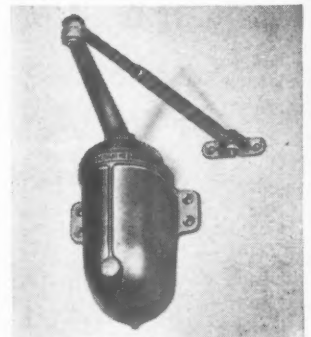
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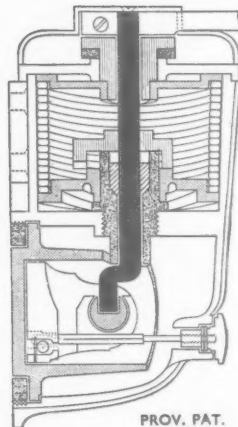


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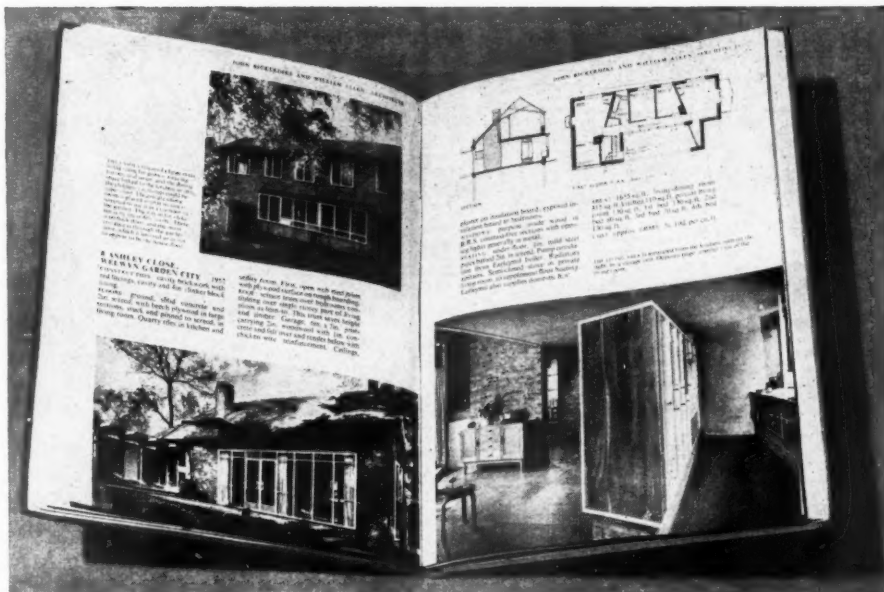
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 Applications are invited from ARCHITECTURAL ASSISTANTS with recognised training and experience for unestablished posts in the Chief Architect's Branch. The employment will provide useful experience for those seeking to obtain professional qualifications. Successful candidates will be eligible for consideration for permanent and pensionable posts as vacancies arise and for promotion to a higher grade on their obtaining full professional qualifications.
 The inclusive annual salary scale is £400, rising to £670. The starting pay of candidates who have passed the R.I.B.A. Intermediate Examination will be £505. Entry points for other candidates will be fixed in relation to their ages, e.g., £400 at age 21—£480 at age 25 or over.
 Preference will be given to candidates who served in H.M. Forces in the 1914-18 or 1939-45 wars, provided that such candidates are, or within a reasonable time will be, able to discharge the duties efficiently.
 Candidates who are invited to attend for interview will be repouced cost of railway and steamer fare at minimum rates.
 Applications, giving date of birth and full details of training and qualifications, should be sent to the Director of Establishments, Ministry of Finance, Stormont, Belfast. 3688

CARSHALTON URBAN DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT, Engineer and Surveyor's Department. Must hold Final Examination Certificate of the R.I.B.A. and be Registered Architect. Must also be competent in design and construction, and have had wide experience in the architectural work of Local Authorities. Salary within the range of A.P.T., Grade VI (£695-£760), plus London "weighting."
 The Council cannot provide housing accommodation.
 Applications, on forms obtainable from the undersigned, must be returned with names of three referees not later than 20th September, 1954. Canvassing will disqualify.
C. H. DURRANT,
Clerk of the Council. 3714
 District Council Offices, The Grove, Carshalton, Surrey.

NORFOLK COUNTY COUNCIL. ASSISTANT ARCHITECT, salary grade, A.P.T., V (£620-£670), required. Applicants should be Members of R.I.B.A. or hold equivalent qualification; superannuable subject to medical examination.
 Applications, stating age, experience, present appointment and salary, names of three referees (including present employer), to County Architect, 27, Thorpe Road, Norwich, by 1st September, 1954.
H. OSWALD BROWN,
Clerk of the Council. 3614
 County Offices, Thorpe Road, Norwich.

LONDON ELECTRICITY BOARD. ARCHITECTURAL DRAUGHTSMEN.
 Applications are invited for the above positions in the Architect's Section of the Chief Engineer's Department in Central London.
 Applicants should be neat draughtsmen and preferably have had several years' experience in an Architect's office.
 The post is graded under Schedule "D" of the National Joint Board agreement as Grade 6 (£458 to £595 7s. per annum, inclusive of London allowance).
 Application forms obtainable from Personnel Officer, 46, New Broad Street, E.C.2. Please enclose addressed envelope and quote ref. V/1785/A on envelope and all correspondence. 3486

MINISTRY OF WORKS—EDINBURGH. ASSISTANT ARCHITECT required. Salary range £635 (age 25) to £980 p.a. Maximum entry rate £890 p.a. Women's rates slightly lower. Prospects of permanent pensionable posts. Qualifications: Registered Architect by examination with experience in design and construction of modern buildings. Apply to Establishment Officer, Ministry of Works, 122, George Street, Edinburgh. 3700

WEST SUSSEX COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.
 Applications are invited for the appointment of TWO SENIOR ASSISTANT ARCHITECTS on the Temporary Staff, at salaries of £860 per annum. The appointments will be for a minimum period of two years, subject to satisfactory service.
 Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom detailed applications should be submitted not later than 9th September, 1954.
T. C. HAYWARD,
Clerk of the County Council. 3697
 County Hall, Chichester.

CITY OF NOTTINGHAM. (a) ASSISTANT ARCHITECT, A.P.T. 5 (£620-£670 p.a.).
(b) CLERKS OF WORKS, Misc. 5 (at £565 p.a.).
 Applications are invited for the above positions in the City Engineer's Department.
 Qualifications required for (a), A.R.I.B.A.; for (b), experience in supervision of construction of buildings and/or maintenance of public buildings. Posts are superannuable.
 Application forms from R. M. Finch, O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, returnable by 6th September, 1954. 3685

ARGYLL COUNTY COUNCIL.
 Applications are invited for the appointment of a QUANTITY SURVEYING ASSISTANT for the County Architect's Department. Salary, scale Grade IV-V (£580-£680) with placing according to experience and qualifications. The post is superannuable. Housing Accommodation will be available if required.
 Apply, giving details of qualifications and experience along with copies of two recent testimonials, to County Architect, County Offices, Dunoon, not later than one week after the date of publication of this advertisement.
A. D. JACKSON,
County Clerk. 3756

LONDON TRANSPORT require temporary ARCHITECTURAL DRAUGHTSMAN for Architect's Office. Applicants must be good draughtsmen, capable of preparing sketch and working drawings under supervision with aptitude for architectural design; they will be expected to study for professional qualifying examinations. Salary rising to £613 10s., subject to age and satisfactory service. Additional payments for certain recognised qualifications. Applications to Staff Officer (P/EV 505), London Transport, 55, Broadway, S.W.1. Medical examination. For acknowledgement enclose addressed envelope. 3757

EAST RIDING OF YORKSHIRE COUNTY COUNCIL. APPOINTMENT OF ASSISTANT ARCHITECTS.
 Applications are invited for the appointment of Assistant Architects on the staff of the County Architect's Department in A.P.T. salary grades III-VI inclusive.
 The commencing salaries will be appropriate to professional experience and qualifications.
 The appointments are superannuable and subject to the passing of a medical examination.
 Applications, giving particulars of age, qualifications, experience, past and present employment (with salaries), and accompanied by copies of three recent testimonials, should be addressed to the County Architect, County Hall, Beverley, and must be received by him not later than 10th September, 1954.
THOMAS STEPHENSON,
Clerk of the Council. 3766
 County Hall, Beverley.

CITY OF CARDIFF.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the following appointment in the City Surveyor's Department:—**SENIOR ARCHITECTURAL ASSISTANT (HOUSING)**, A.P.T., Grade VIII (£785-£860 per annum).

Candidates should possess the minimum qualifications and experience prescribed by the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services for posts in the above-mentioned Grade.

General Conditions of Appointment may be obtained from the undersigned.

Applications, accompanied by the names and addresses of three referees, and endorsed "Architectural Assistant (Housing), A.P.T., Grade VIII," must be delivered to me not later than the 10th September, 1954.

S. TAPPER-JONES, *Town Clerk.*

City Hall, Cardiff. August, 1954. 3767

POPLAR BOROUGH COUNCIL invite applications for unestablished posts of **TWO ARCHITECTURAL ASSISTANTS, A.P.T. IV, and ONE CLERK OF WORKS/GENERAL FOREMAN, A.P.T. V.** Applications, in writing, should be submitted to Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3, giving age and full details of experience and qualifications. Closing date: 7th September, 1954. 3768

BOROUGH OF HARROW.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the under-mentioned appointment:—

ARCHITECTURAL ASSISTANT, A.P.T., Grade IV. Salary: £580-£625 per annum, plus London "weighting." Duties include the preparation of drawings and specifications, and supervision of works on new buildings and works of maintenance and repair.

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

The Council cannot assist in obtaining housing accommodation.

Canvassing will be a disqualification. Forms of application may be obtained from the undersigned, to whom they should be returned not later than Friday, 17th September, 1954.

D. H. PRITCHARD, *Town Clerk.*

Town Clerk's Office, Harrow Weald Lodge, Harrow, Middx. 3775

GLENROTHES DEVELOPMENT CORPORATION.

Applications are invited for the post of **ASSISTANT CHIEF QUANTITY SURVEYOR.** Salary Grade, £830-£980 per annum, with placing according to qualifications and experience. Applicants should be Corporate Members of the R.I.C.S., with suitable experience, preferably in Scotland, in estimating, preparing Bills of Quantities, and settling final accounts of large contracts. Medical examination under Superannuation Scheme. The Corporation will provide a house to let, if required.

Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, must reach the Secretary, Glenrothes Development Corporation, Glenrothes, Fife, not later than 11th September, 1954. 3740

GLENROTHES DEVELOPMENT CORPORATION.

Applications are invited for the post of **ARCHITECT/PLANNER.** Salary Grade, £550-£690 per annum, with placing according to qualifications and experience. Applicants should be Associates, or equivalent, of the R.I.B.A. and T.P.I., with general architectural and planning experience, particularly in the field of Civic Designs, including the layout of large residential developments, central and industrial areas. Medical examination under Superannuation Scheme. The Corporation will provide a house to let, if required.

Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, must reach the Secretary, Glenrothes Development Corporation, Glenrothes, Fife, not later than 11th September, 1954. 3741

ROXBURGH COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of **ASSISTANT ARCHITECT.** Salary scale: £630-£770 per annum (Grades V to VI), with placing within that scale according to qualifications and experience.

Candidates must be Registered Architects, and preferably Members of the Royal Institute of British Architects.

The appointment is subject to the Local Government Superannuation (Scotland) Act, 1937, and to satisfactory medical examination.

Applications, accompanied by one copy each of three recent testimonials, should be lodged with the undersigned not later than 4th September, 1954.

Canvassing, directly or indirectly, in connection with the appointment will be disqualifying.

JAMES R. HUME, *County Clerk.*

County Offices, Newtown St. Boswells, 11th August, 1954. 3693

LONDON COUNTY COUNCIL ARCHITECTS DEPARTMENT. JUNIOR ARCHITECTURAL DRAUGHTSMEN (probationers R.I.B.A.) required for Housing, Schools and General Divisions. Starting wage according to age and experience. Application forms returnable by 16th September, from the Architect (AR/EK/AD), County Hall, London, S.E.1. (1140) 3781

COUNTY BOROUGH OF DUDLEY JUNIOR ARCHITECTURAL ASSISTANT. Applications are invited for the above appointment on the General Division salary scale. Applications, giving age and experience and the names of two referees should reach me by Wednesday, 8th September, 1954.

P. D. WADSWORTH, *Town Clerk.*

The Council House, Dudley. August 19, 1954. 3776

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

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

(a) Engineering Assistant (Heating) A.P.T., IV (£580-£625 p.a.).

(b) Assistant Quantity Surveyor A.P.T., IV/V (£580-£670 p.a.).

(c) Junior Architectural Assistant Misc. I/II/III (£320-£460 p.a.).

All the above posts are permanent and subject to the National Scheme of Conditions of Service, the Local Government Superannuation Act and to a medical examination.

Intending applicants should apply for forms stating for which post they wish to apply to the County Architect, County Hall, March, to whom they must be returned not later than Tuesday, September 21, 1954.

R. F. G. THURLOW, *Clerk of the County Council.*

County Borough of Bury. August 19, 1954. 3778

COUNTY BOROUGH OF BURY. ARCHITECTURAL ASSISTANT, up to Grade A.P.T. V (£620-£670), according to qualifications and experience. The appointment is subject to the Local Government Superannuation Act, 1937, and medical examination.

Applications stating age, details of training, qualifications and experience, together with the names and addresses of two persons to whom reference may be made, must reach me not later than September 4, 1954.

EDWARD S. SMITH, *Town Clerk.*

Town Hall, Bury. August 19, 1954. 3777

Applications are invited for the following posts with the Punjab Government (Pakistan). Contract period for three to five years in the first instance.

(1) **CONSULTING ARCHITECT.** Age: between 39 and 49 years. Qualifications: Associate Member of the British Institute of Architects or equivalent qualifications. Not less than 15 years experience of architectural work, part of which should be in the design of architectural building in Europe or the U.S.A. Salary: Rs. 1,600 × 100 - 2,000, plus £50 Overseas Pay and other allowances. Higher initial pay admissible.

(2) **INTERIOR DESIGNER.** Age: between 30 and 40 years, relaxable in the case of men with long experience. Qualifications: should be a Member or a Fellow of the Society of Industrial Arts and an Associate of the Royal Institute of British Architects or corresponding foreign qualification. Extensive experience in interior design and furnishing of industrial, educational, institutional and domestic buildings including design of fittings and furniture. Salary: Rs. 600 × 40 - 920/40 × 1,000 - 1,050 × 25 - 1,150 plus £15 Overseas Pay and other allowances. Higher initial pay admissible. Current rate of exchange—2s. 2d. to the rupee.

Application forms and detailed particulars obtainable on request from the Educational Attache, Office of the High Commissioner for Pakistan, 39, Lowndes Square, London, S.W.1. Closing date for receipt of applications—6th September, 1954. 3736

BASILDON DEVELOPMENT CORPORATION.

Applications are invited for the appointment of **GRADE II PLANNER** on the staff of the Chief Architect/Planner, Noel Tweddell, A.R.I.B.A., at a salary within the range £1,135-£1,340 according to ability and experience.

The successful applicant will set up and take charge of the planning and design team for the immediate development of the New Town Centre, to serve a population of 80,000. The work will include the translation of the present draft schemes into major building projects and the construction of negotiations with the various authorities and interests concerned. Building work on phase I of the Centre will commence early in 1955. Experience in this type of work is essential and candidates must be school trained qualified architects. A town planning qualification is desirable.

The appointment is subject to the provisions of the Local Government and Other Officers Superannuation Act and to medical examinations.

A house in the New Town may be available.

Applications, on the special form (obtainable from the Chief Architect), must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, 3rd September, 1954, and the envelope endorsed "Grade II Planner." 3747

BINGLEY URBAN DISTRICT COUNCIL. APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT IN THE SURVEYOR AND ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointment on the Surveyor and Architect's Staff.

CHIEF ARCHITECTURAL ASSISTANT, Grade A.P.T. 6-£695, rising by three annual increments to £760.

Candidates for the post should have had considerable training and experience in housing design and development, and general architectural work. Preference will be given to candidates who have passed final examination of the Royal Institute of British Architects.

The appointment 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.

Applications, stating age, qualifications, training and experience, and details of previous and present appointments, accompanied by copies of two recent testimonials, or the names and addresses of two referees, should be forwarded, endorsed "Chief Architectural Assistant" to the undersigned before Tuesday, 31st August, 1954.

The Council is unable to provide housing accommodation.

F. M. DUNWELL, *Clerk of the Council.*

Town Hall, Bingley. 17th August, 1954. 3728

ARCHITECTURAL DRAUGHTSMAN required in the L.C.S. Works Department, Whitta Road, Manor Park, E.12. General architectural drawing experience necessary, and preference will be given to applicants with experience of preparation of drawings for industrial and commercial buildings. The successful candidate will be required to pass a medical examination and, after a short probationary period, to participate in the Society's Staff Pension Scheme (contributory). Commencing salary £475 16s. per annum. Write stating age, details of career and technical qualifications to Staff Officer (AJ), London Co-operative Society Limited, 54, Maryland Street, Stratford, E.15. 3725

CIVIL ENGINEERS FOR DEPARTMENT OF MAIN ROADS, NEW SOUTH WALES, AUSTRALIA.

Applications are invited from **CIVIL ENGINEERS** for appointment to the staff of the Department of Main Roads, New South Wales. Candidates should either be graduates of a British University or hold a qualification recognised as exemption from the examination of the Institution of Civil Engineers, or have passed that examination. On appointment, applicants may be engaged at the Department's Head Office, Sydney, on the design of reinforced concrete and steel bridges or on main road construction and maintenance either in the metropolitan area or the country.

Commencing salary according to qualifications and experience will be within the range of £A914 to £A1,073 per annum with annual progression to £A1,267 per annum, subject to satisfactory service. Appointees will be eligible to contribute to State Superannuation Fund after six months. Single fare up to maximum £160 sterling will be paid to selected applicants, subject to three years service guarantee bond. Appointment will be subject to satisfactory medical examination and preference will be given to applicants not more than 30 years of age.

Applications should be made on forms obtainable from Agent General for New South Wales, 56, Strand, W.C.2, by whom they will be received up to 20th September. 3720

CO-OPERATIVE WHOLESALE SOCIETY LTD. ARCHITECT'S DEPARTMENT, MANCHESTER.

Applications are invited for the appointment of **ASSISTANT ARCHITECTS.**

Candidates must have had several years' experience, preferably of commercial or industrial projects, possess a sound knowledge of construction, and be able to prepare working drawings and details from preliminary sketches.

The appointments are permanent, with prospects of promotion. Successful applicants will be required to undergo a medical examination for entry into a compulsory Superannuation Scheme.

Applications, stating age, experience, qualifications and salary required, to be addressed to G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester. 3657

BASILDON DEVELOPMENT CORPORATION.

Applications are invited for the post of **MODEL MAKER, Grade Va,** on the staff of the Chief Architect/Planner, Noel Tweddell, A.R.I.B.A., at a salary within the range £510-£560.

The successful applicant will construct topographical, landscape and building models to various scales for housing, industrial and Town Centre projects. Previous experience of this type of work together with the ability to read technical drawings is essential.

The appointment is subject to the provisions of the Local Government and Other Officers Superannuation Act and to medical examinations.

A house in the New Town may be available. Applications, on the special form (obtainable from the Chief Architect), must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, 3rd September, 1954, and the envelope endorsed "Model Maker." 3745

WASHINGTON URBAN DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT.

Applications are invited for the above named post at a salary within the A.P.T. Grades of the National Scheme of Conditions of Service according to qualifications and experience.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, the National Scheme of Conditions of Service and to the satisfactory passing of a medical examination.

Housing Accommodation will be provided, if required.

Forms of application may be obtained from the undersigned and should be returned on or before the 25th September, 1954.

ARTHUR C. JONES,
Clerk of the Council.

Council Chambers,
Washington, Co. Durham.
17th August, 1954. 3731

WELWYN GARDEN CITY AND HATFIELD DEVELOPMENT CORPORATIONS. APPOINTMENT OF QUANTITY SURVEYING ASSISTANT.

Applications are invited for the appointment of QUANTITY SURVEYING ASSISTANT at a commencing salary of £500 per annum with increments in accordance with satisfactory service.

Applicants should be experienced in working-up and measuring on site and capable of taking-off under supervision.

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

Applications, in the candidate's own handwriting, giving age, details of present and past appointments, salaries and experience, together with the names of three persons to whom reference may be made should be addressed to the General Manager, 4, Wigmore South, Welwyn Garden City, Herts., and be received by 2nd September, 1954. 3750

BASILDON DEVELOPMENT CORPORATION. ASSISTANT ARCHITECT, Grade IVa.

Applications are invited for the post of ASSISTANT ARCHITECT, Grade IVa, on the staff of the Chief Architect/Planner, Noel Tweddell, A.R.I.B.A., at a salary within the range of £660-£760.

The successful applicant will work in a group in the Housing Section and must have experience in House design, preparation of working drawings and supervision of Contracts.

The appointment is subject to the qualification of A.R.I.B.A. and to the provisions of the Local Government and Other Officers Superannuation Act and to medical examinations.

A house in the New Town may be available. Applications, on a special form (obtainable from the Chief Architect), must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, 3rd September, 1954, and the envelope endorsed "Assistant Architect, Grade IVa." 3746

COUNTY BOROUGH OF BARROW-IN-FURNESS. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. QUANTITY SURVEYORS.

Applications are invited for permanent posts of Quantity Surveyor, Grade VIII (£785-£860 p.a.). The commencing salary will be fixed according to qualifications and experience. Candidates should preferably be Associates of the Royal Institution of Chartered Surveyors.

It is possible that the Council will allocate a Corporation house for the post, subject to the merits of the case being satisfactory to the interviewing Committee.

Further details and forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Barrow-in-Furness, to whom applications must be returned not later than Monday, 13th September, 1954.

LAWRENCE ALLEN,
Town Clerk. 3715

COUNTY BOROUGH OF SOUTHAMPTON. APPOINTMENT (a) OF QUANTITY SURVEYORS.

Grade VII (£735-£810), and Grade VI (£695-£760), for which housing accommodation may be made available; (b) ARCHITECTURAL ASSISTANT, Grade II (£520-£565). Application forms from Borough Architect, Civic Centre, Southampton, to be returned by 6th September, 1954. 3719

NOTTINGHAMSHIRE. APPOINTMENT OF COUNTY ARCHITECT.

The Nottinghamshire County Council invite applications from Registered Architects who are either Fellows or Associate Members of the Royal Institute of British Architects for the appointment of County Architect.

The salary will be £2,450 per annum rising by annual increments of £100 to £2,750 per annum, together with a motor car allowance in accordance with the Council's scale.

Candidates must possess sound administrative and organising ability and have a wide knowledge and experience of architectural work with a local authority. Full particulars of the appointment may be obtained from my office and completed applications should reach me by 17th September, 1954.

Canvassing directly or indirectly will be a disqualification. A. R. DAVIS,
Clerk of the County Council.
Shire Hall, Nottingham.
July, 1954. 3742

BOROUGH OF FINCHLEY. TEMPORARY ARCHITECTURAL ASSISTANT. HOUSING AND TOWN PLANNING DEPARTMENT.

Salary: A.P.T., Grade IV (£580-£625), or A.P.T., Grade V (£620-£670), plus London weighting, according to qualifications.

Candidates must have reached R.I.B.A. Intermediate standard, and have at least two years' practical office experience in housing work.

The National Scheme of Conditions of Service and the Local Government Superannuation Acts apply, and medical examination required.

Applications, stating age and full particulars of qualifications and experience, with the names of two referees, to the Borough Housing and Town Planning Officer, The Avenue, Finchley, N.3, by first post on Tuesday, the 14th September, 1954.

R. M. FRANKLIN,
Town Clerk. 3648

HERTFORDSHIRE COUNTY PLANNING DEPARTMENT. ASSISTANT DIVISIONAL PLANNING OFFICER

required in the Central Herts. Divisional Planning Office at St. Albans. Salary: £735 per annum, rising to £810 per annum (Grade VII, A.P.T.). Applicants, who must be Corporate Members of the Town Planning Institute, and preferably hold other professional qualifications, will be required to deputise for the Divisional Planning Officer in his absence, and should have considerable experience in drafting planning proposals, and in dealing with development applications. A motor car is necessary. Application forms from the County Planning Officer, County Hall, Hertford. These are returnable not later than 3rd September, 1954. 3658

URBAN DISTRICT COUNCIL OF CORBY. ARCHITECTURAL ASSISTANTS.

Applications are invited for the undermentioned appointments on the established staff of the Council's Engineer and Surveyor.

(1) CHIEF ARCHITECTURAL ASSISTANT. Salary in accordance with Grade VIII A.P.T. division of the National Scale of Salaries, commencing at £785 per annum (£785-£860). Applicants must have considerable and varied experience in design, construction and supervision of contracts, including local authority housing.

Candidates must be Registered Architects and preferably possess the A.R.I.B.A. qualification.

(2) ARCHITECTURAL ASSISTANT. Salary in accordance with Grade V A.P.T. division of the National Scale of Salaries, commencing at £620 per annum (£620-£670). Applicants must have not less than two years' experience in an architect's office (exclusive of pupillage) and have passed the R.I.B.A. intermediate examination or its equivalent, at a recognised School of Architecture.

The provisions of the Local Government Superannuation Act, 1937, will apply in respect of each appointment. Housing accommodation will be made available to the successful candidates, if married.

Forms of application may be obtained from the undersigned and requests therefore should indicate the position for which application is being made. Completed forms must be received not later than Thursday, the 16th September, 1954.

G. B. BLACKALL,
Clerk of the Council.
Council Offices,
Corby, Northants.
18th August, 1954. 3752

COUNTY BOROUGH OF BURTON UPON TRENT. APPOINTMENT OF SENIOR QUANTITY SURVEYOR—GRADE VII.

Applications are invited for the appointment (subject to satisfactory medical examination) of a SENIOR QUANTITY SURVEYOR on the established staff of the Architectural Department of the Borough Engineer and Surveyor. Salary Grade A.P.T. VII (£735-£810). Preference will be given to candidates who are professionally qualified.

Applications giving age, education, qualifications, experience, appointments held and present salary, and the names of two referees, to be delivered to the Borough Engineer and Surveyor, Town Hall, Burton upon Trent, not later than Friday, 10th September, 1954.

Housing accommodation available for successful candidate if married.

H. BAILEY CHAPMAN,
Town Clerk.
Town Hall,
Burton upon Trent.
17th August, 1954. 3743

STEVENAGE DEVELOPMENT CORPORATION. CHIEF ARCHITECT'S DEPARTMENT.

Applications are invited for post as JUNIOR ARCHITECT on salary grades £475 × 25—£540 × 25—£600; or £605 × 25—£645 per annum, according to experience.

Candidates should have completed a course at a recognised School of Architecture or have passed the final examination of the R.I.B.A.

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, Aston House, Nr. Stevenage, Herts., not later than 13th September, 1954. 3735

PADDINGTON BOROUGH COUNCIL. REQUIRE (a) ASSISTANT ARCHITECT (£725-£840 p.a.) (A.171), preferably A.R.I.B.A., with experience in contemporary design, the construction and supervision of general Municipal works, particularly multi-storey flats, or should have had similar experience with architects in private practice.

(b) ARCHITECTURAL ASSISTANT (£580-£625 p.a.) (A.172). Candidates should have passed Inter. R.I.B.A., be neat and accurate draughtsmen, and possess a sound knowledge of modern building construction.

Commencing salary in each case dependent upon qualifications and experience of successful candidate, N.J.C. conditions. One month's notice.

Applications (quoting reference No.) should state age, qualifications, experience, past and present appointment (with salary), and names and addresses of two referees, and should reach the undersigned by 8th September, 1954.

W. H. BENTLEY,
Town Clerk.
Town Hall, Paddington Green, W.2.
12th August, 1954. 3694

DERBY CORPORATION. BOROUGH ARCHITECT'S DEPARTMENT. SENIOR QUANTITY SURVEYORS, Grade VI/VII/VIII. Salary: £695-£860 per annum.

Commencing salary according to qualifications and experience.

Candidates should have had considerable experience in taking off quantities for large building projects and in the settlement of final accounts.

Preference will be given to qualified Members of the Royal Institution of Chartered Surveyors (Quantities Section).

Permanent staff appointments, subject to one month's notice, and pensionable subject to medical examination.

National Conditions of Service. Forms of application obtainable from and to be returned to the Borough Architect, The Council House, Derby, not later than 6th September, 1954.

G. H. EMLYN JONES,
Town Clerk. 3707

MIDDLESEX COUNTY COUNCIL—COUNTY ARCHITECT'S DEPARTMENT. ARCHITECTURAL ASSISTANT

required A.P.T. IV (£520 to £625 p.a. plus London Weighting). Appointment at grade minimum, established and pensionable, subject to medical assessment and prescribed conditions. Experience of design of Educational buildings advantage. Application forms (stamped addressed foolscap envelope) from County Architect, 1, Queen Anne's Gate Bldgs., Dartmouth Street, Westminster, S.W.1, returnable by 8th September (quote N. 963 A.). Canvassing disqualifies. 3748

RHONDDA URBAN DISTRICT COUNCIL.

Applications are invited from Registered Architects for the appointment of ASSISTANT ARCHITECT in the Department of the Council's Housing Architect at a salary in accordance with Grade A.P.T. VI (£595 × £20/£25—£760).

Applicants should have sound General Architectural experience, must be good draughtsmen, and preference will be given to Associates of the Royal Institute of British Architects.

The appointment will be terminable by one month's notice on either side, and will be subject to the National Scheme of Conditions of Service.

The successful candidate will be required to pass a medical examination, and will contribute to the Council's Superannuation Fund.

Housing accommodation will be provided for a successful married applicant.

Applications on forms to be obtained from the Housing Architect, Mr. C. Giggell, A.R.I.B.A., A.R.I.C.S., 13, Ystrad Road, Pentre, Rhondda, accompanied by two recent testimonials, are to be sent to the undersigned, in plain envelopes endorsed "Assistant Architect," so as to arrive not later than Monday, 6th September, 1954.

D. J. JONES,
Clerk of the Council.
Council Offices, Pentre, Rhondda.
16th August, 1954. 3713

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 or the employment is exempted from the provisions of the Notification of Vacancies Order, 1952.

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SENIOR qualified ARCHITECTURAL ASSISTANT required central London area capable of preparing working drawings, detailing, specifications and supervision of large commercial projects. Attractive salary. Five-day week. Applicants must be keen and quick draughtsmen and able to work on own initiative. Apply stating age, qualifications, experience to Box 3594.

ARCHITECTURAL ASSISTANT required for central London office, experienced in the preparation of working and detailed drawings for large commercial buildings and shop work. Applicants should be at least up to Intermediate R.I.B.A. standard and must be a quick and neat draughtsman, able to work under own initiative. Salary according to qualifications and experience. Five-day week. Apply stating age and experience to Box 3595.

ASSISTANT required by Croydon Architects, intermediate standard. Reply with particulars of experience, age and salary required, to Box 3596.

ARCHITECTURAL ASSISTANTS required. Inter R.I.B.A. standard. Experience in industrial and factory work an advantage but not essential. Westminster area. Write stating experience and salary to Box 3565.

JUNIOR and SENIOR ARCHITECTURAL ASSISTANTS and DRAUGHTSMEN for large and varied practice in Home Counties. Salary required and details of experience to Box 3512.

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ARCHITECTURAL ASSISTANT required, intermediate standard or above, apply Ward & Woolnough, 8, South Brink, Wisbech, Cambs. 3702

ARCHITECTURAL ASSISTANT required, R.I.B.A. Intermediate standard, in busy office, with interesting varied work. Write, stating salary required, to Hurley Robinson & Son, 6, Cherry Street, Birmingham, 2. 3679

ARCHITECTS, ASSISTANTS required, R.I.A.S. Pension Scheme in operation. Applications, stating age, particulars of experience and salary required, to Wylie, Shanks & Wylie, Chartered Architects, 12 Clairmont Gardens, Glasgow, C.3. 3634

ASSISTANT, part-time or otherwise, required in North-West London Architect and Surveyor's office. Reply, quoting age, experience, and salary required. Box 3732

SENIOR ASSISTANT required in Architect's Department of large London industrial concern. Knowledge of London Building Acts and By-Laws an advantage. Good prospects; pension scheme. State age, experience, and salary required. Reply Box 3733.

ARCHITECTURAL ASSISTANT required, with some office experience. Apply briefly by letter, stating age and all particulars, to Thompson, Walford & Fielder, F./A.R.I.B.A., 1, Lendenhall Street, London, E.C.3. 3734

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£500-£2,000 p.a. Raglan Squire and Partners require EXPERIENCED ARCHITECTS, aged 25 to 35, willing to work in London, Baghdad or Rangoon as required. Applicants should write in the first instance giving full details of their experience, age, present salary and salary required, also country preferred, to 3, Hobart Place, London, S.W.1. Only first class men willing to fly will be considered. There are opportunities for permanencies and a pension scheme is in force. 3638

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TEACHERS' Association Ltd., Blackfriars House, Manchester, 3, invite applications for a position as an ASSISTANT ARCHITECT with experience in the designing and construction of industrial type buildings, including surveying and levelling. The post is permanent and pensionable. Applicants should state age, position at present held and salary expected. Applications to be addressed to Chief Architect. 3765

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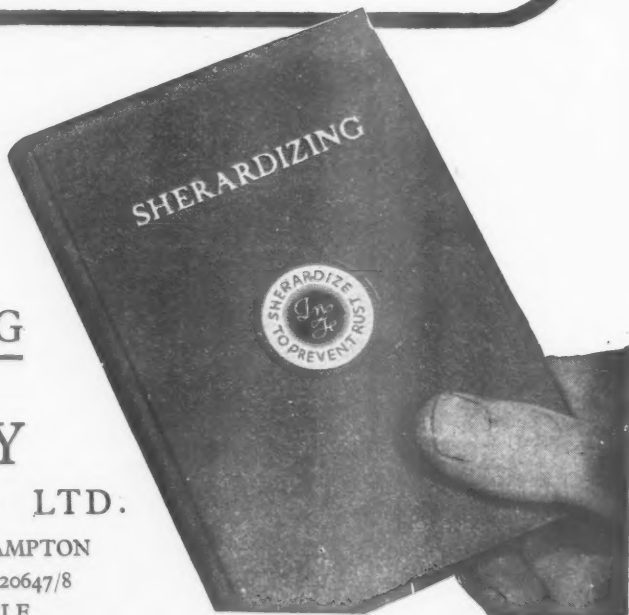
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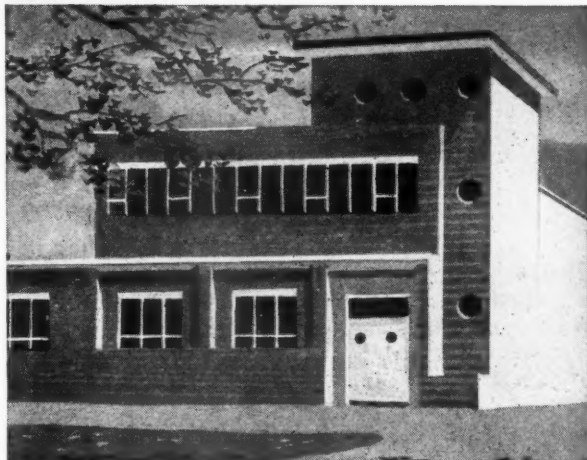
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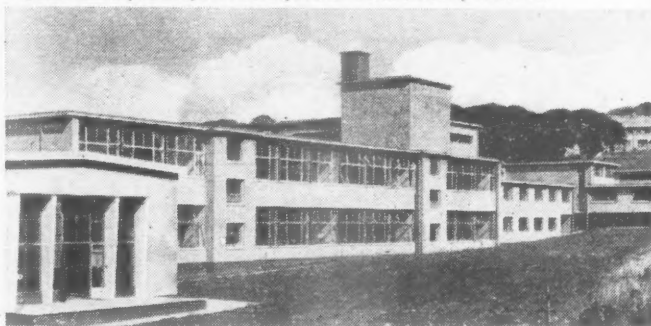
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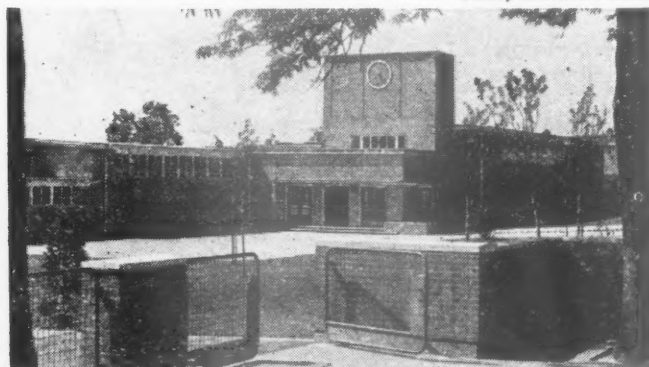
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