

THE ARCHITECTS' JOURNAL



standard contents

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

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to 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.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
ArchSA	Architectural Students' Association. 34/36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 8738
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. Reliance 7611, Ext. 1706	
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1.	Museum 5400
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5.	Ealing 9621
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Fremantle 8494
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association. 145 Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
BRDB	British Rubber Development Board. Market Buildings, Mark Lane, E.C.3.	Mansion House 9383
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. British Standards House, 2, Park St., W.1.	Mayfair 9000
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., 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. Dolderal, 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., Melbourne 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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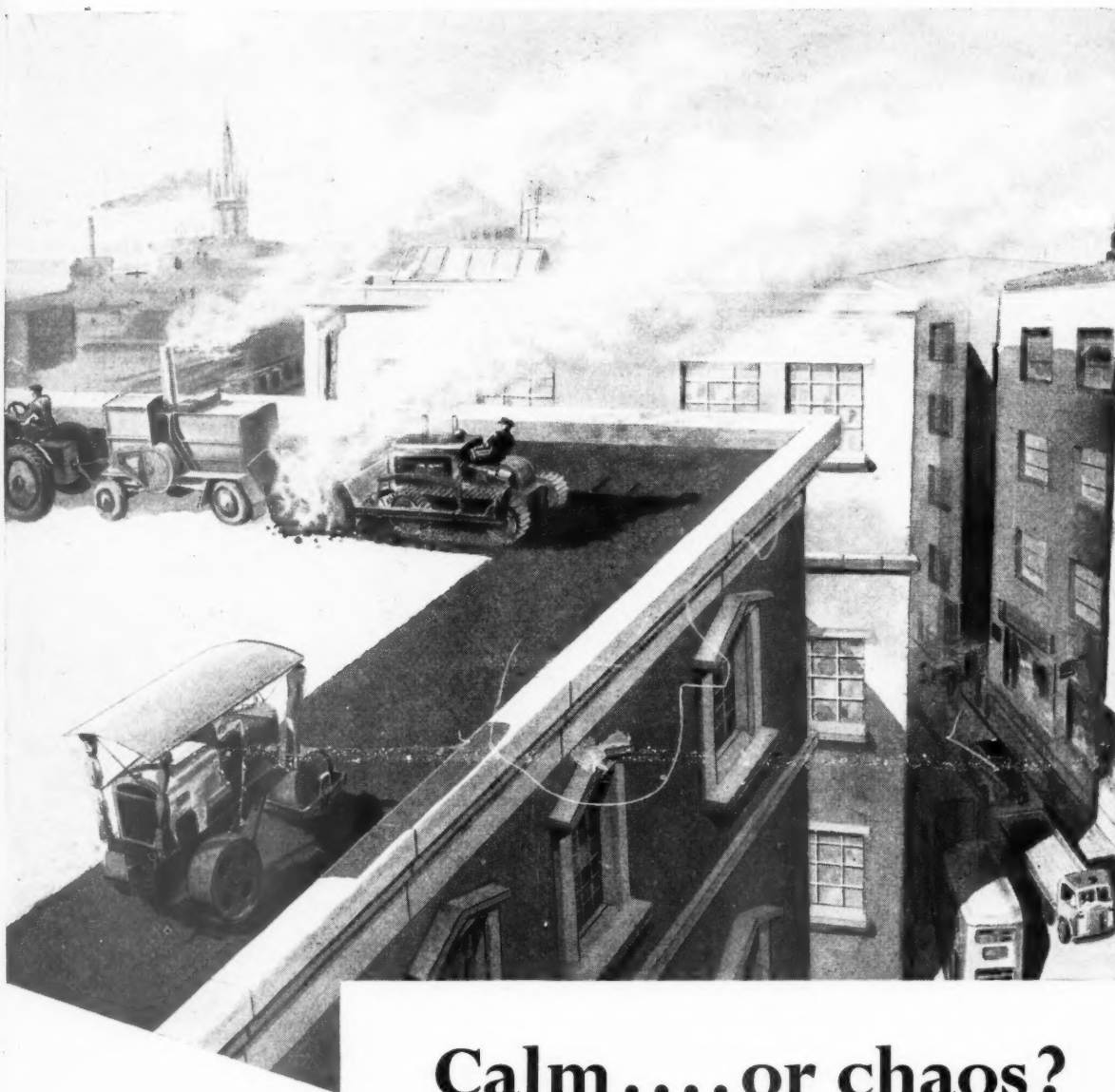
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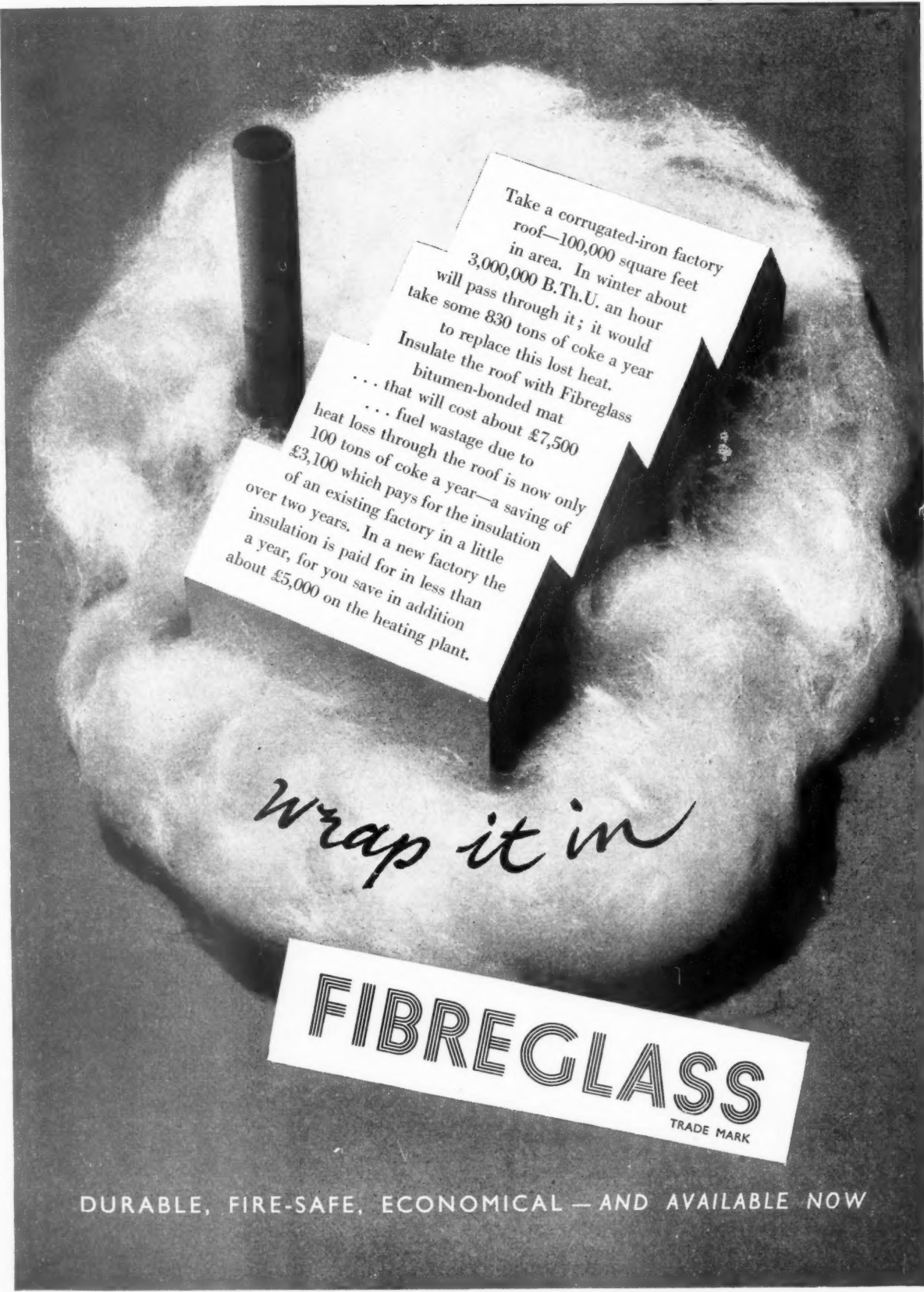
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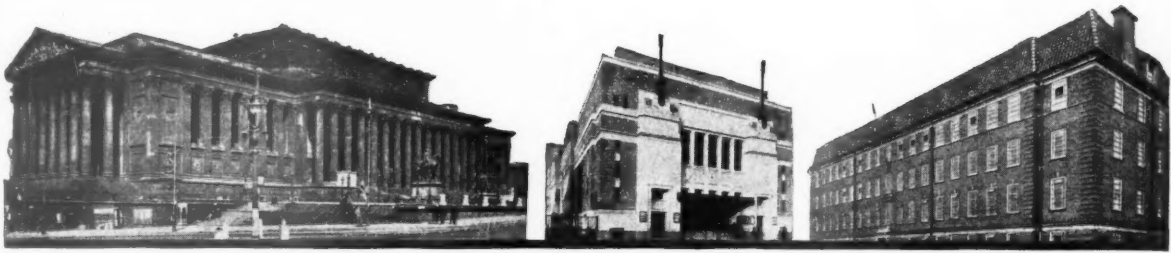


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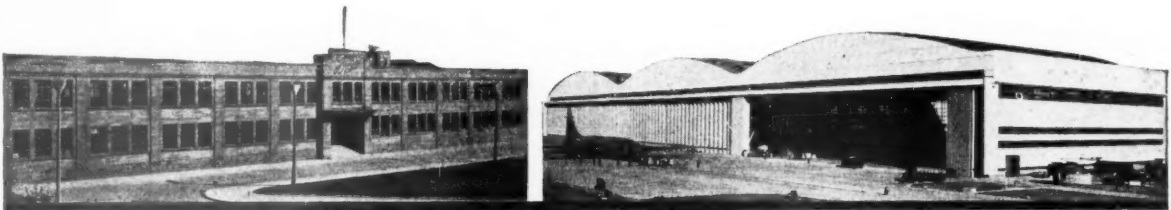
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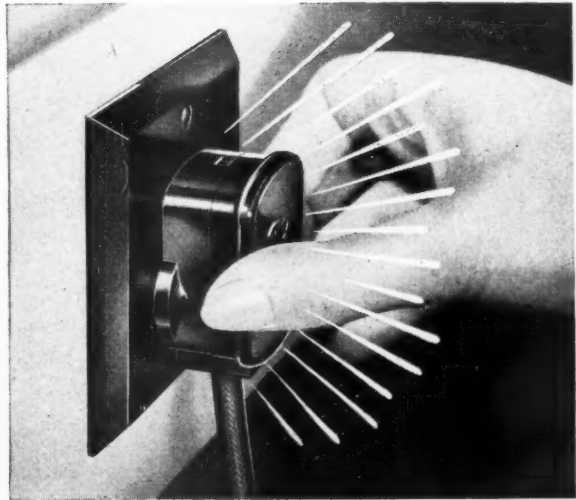
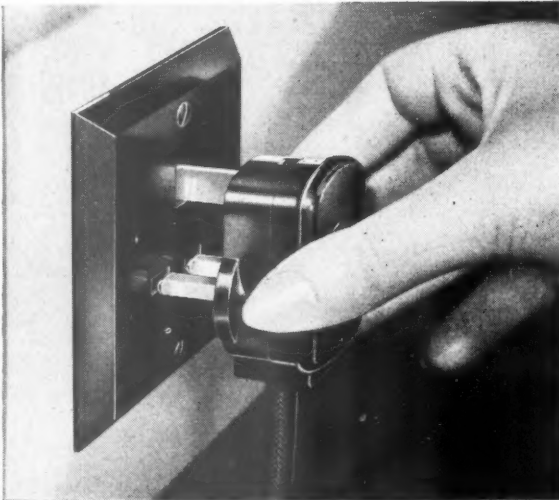
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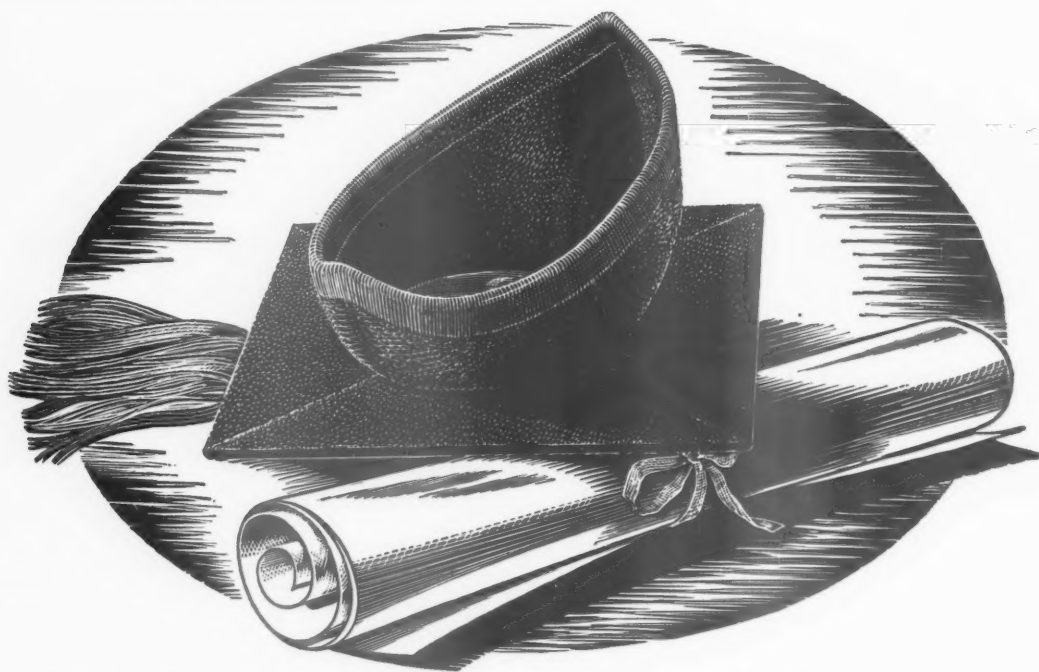
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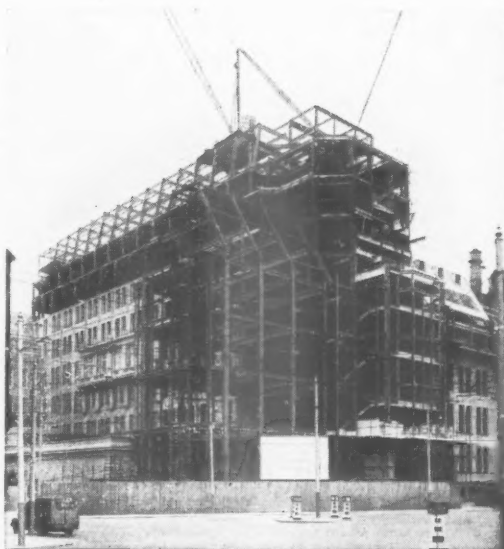
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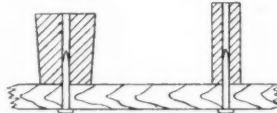
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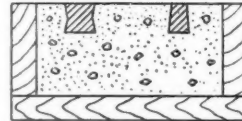
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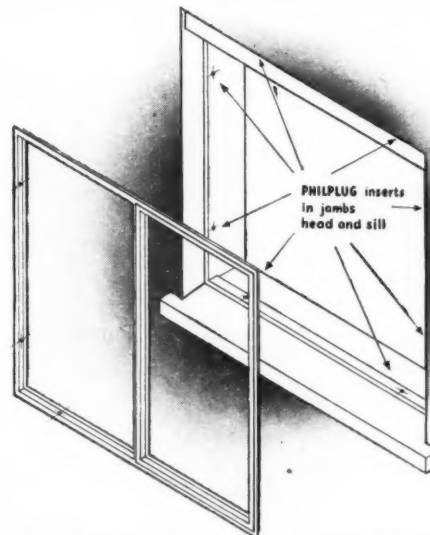
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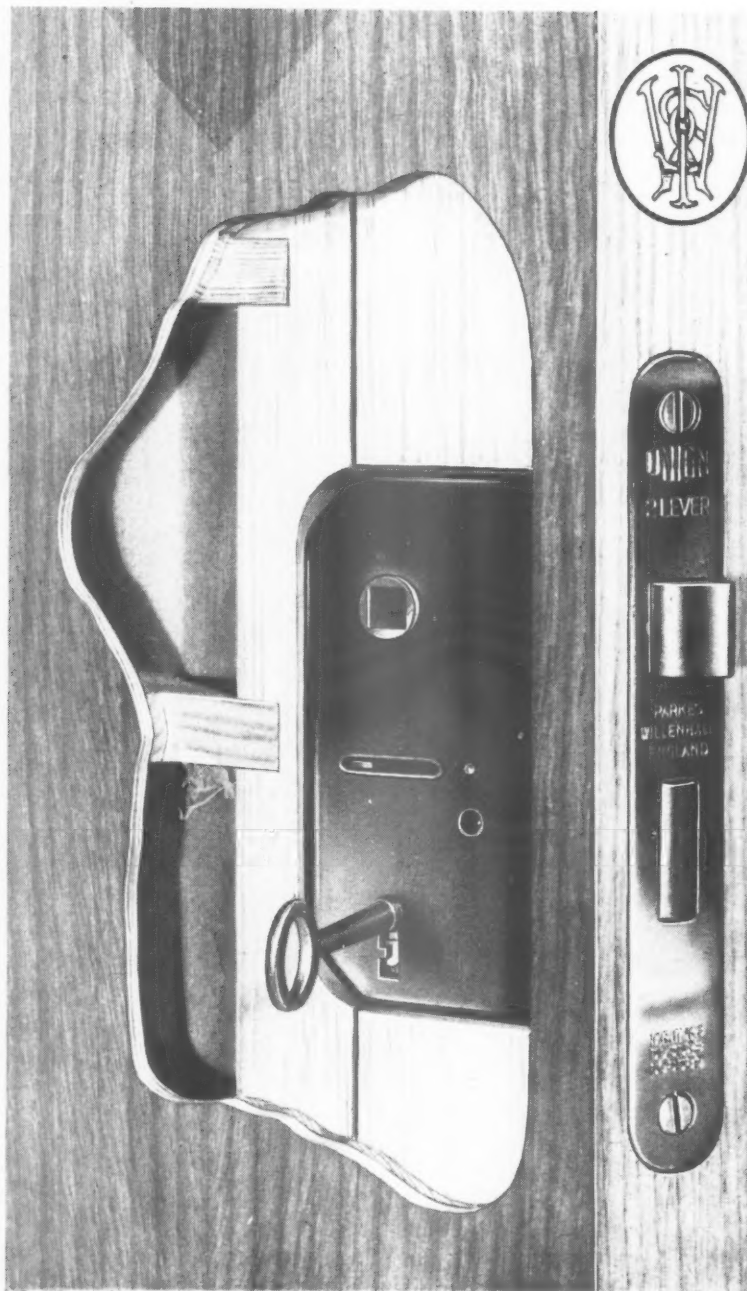
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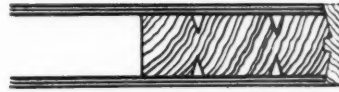
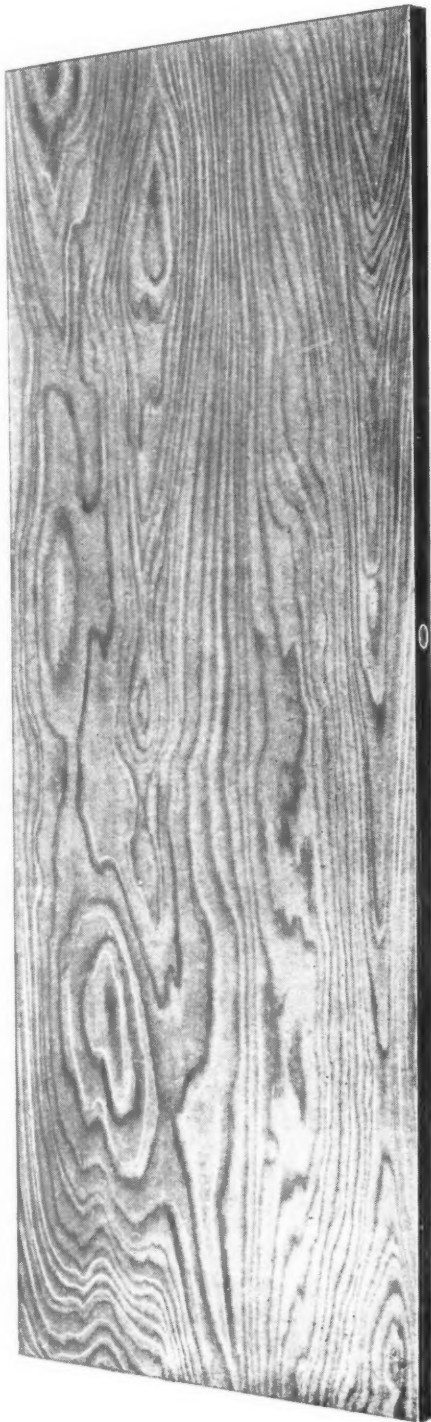
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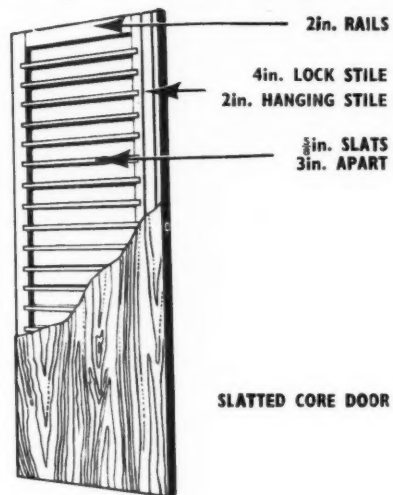
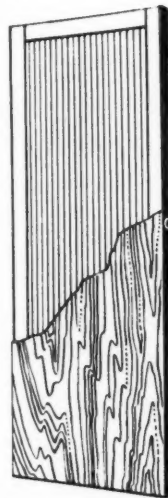
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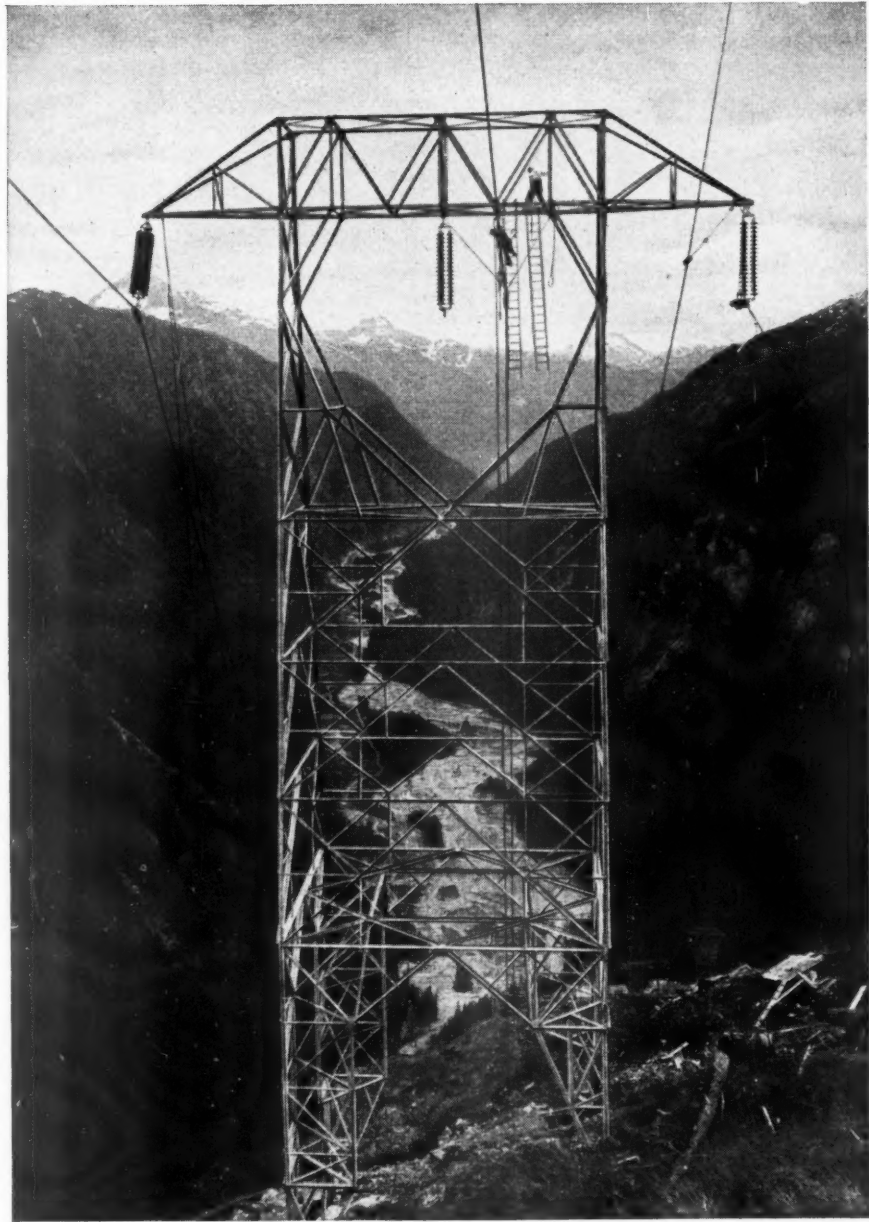


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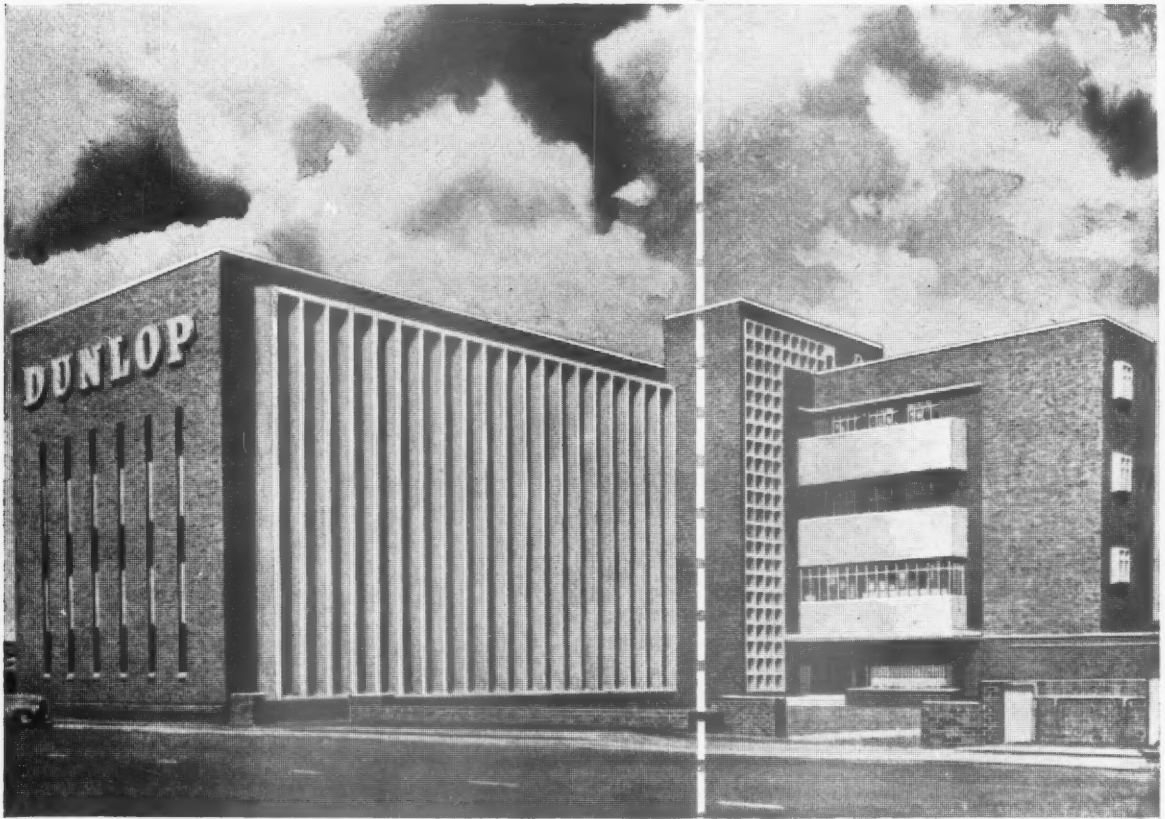
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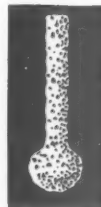
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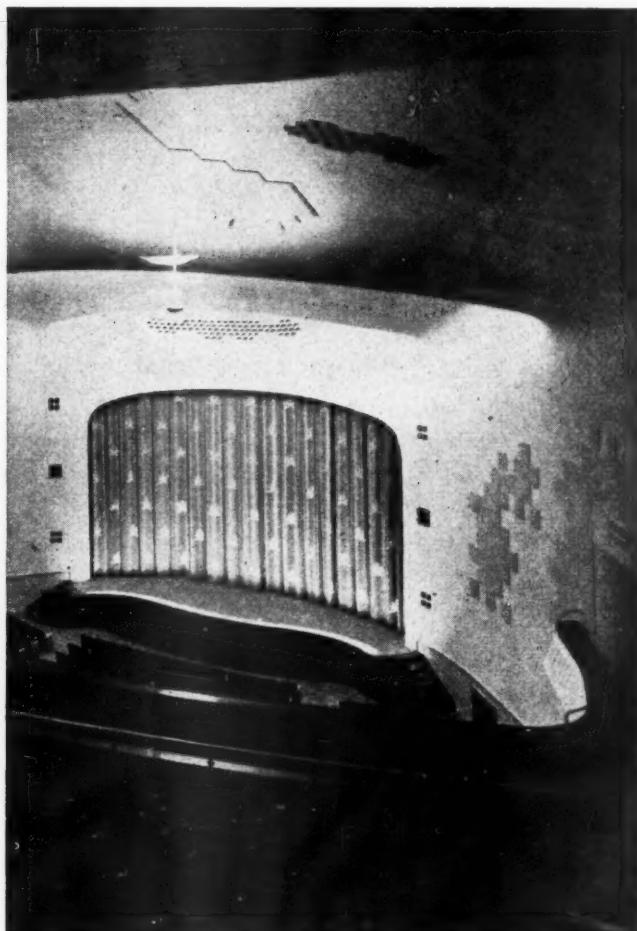
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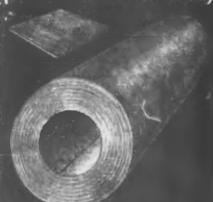
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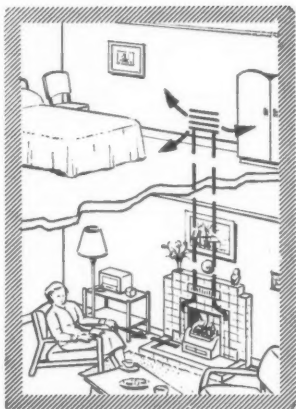
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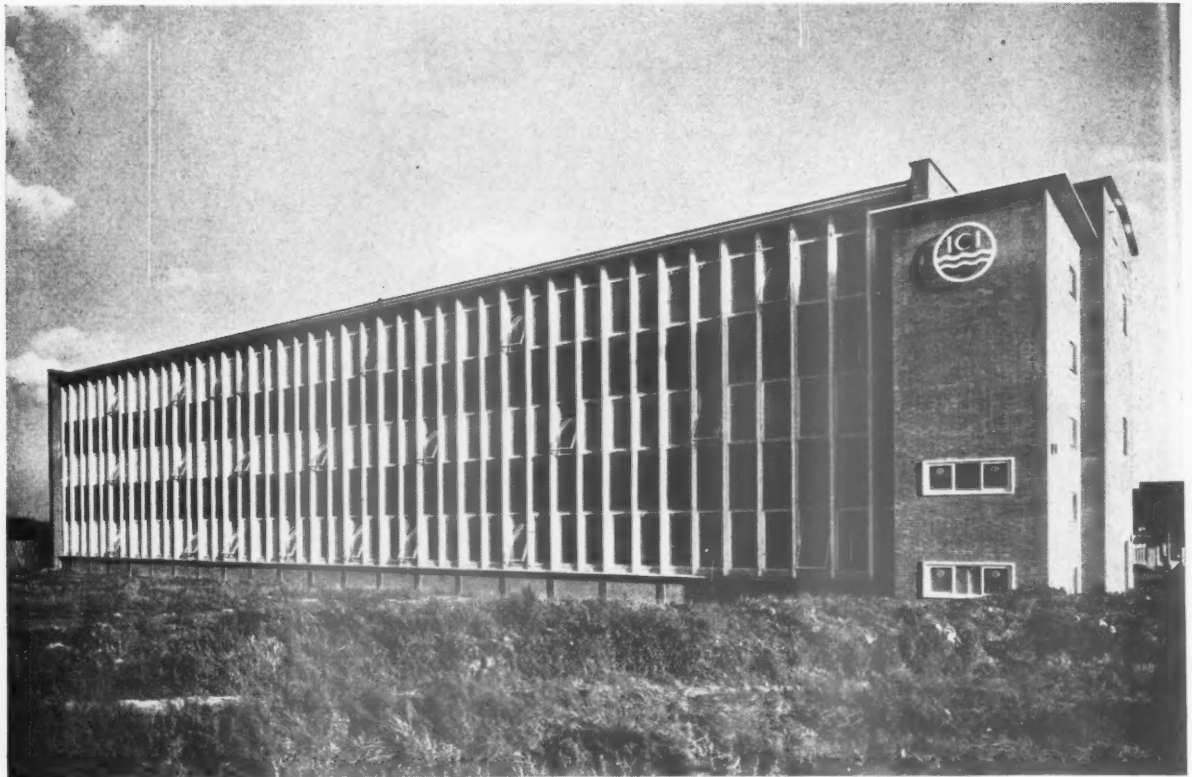


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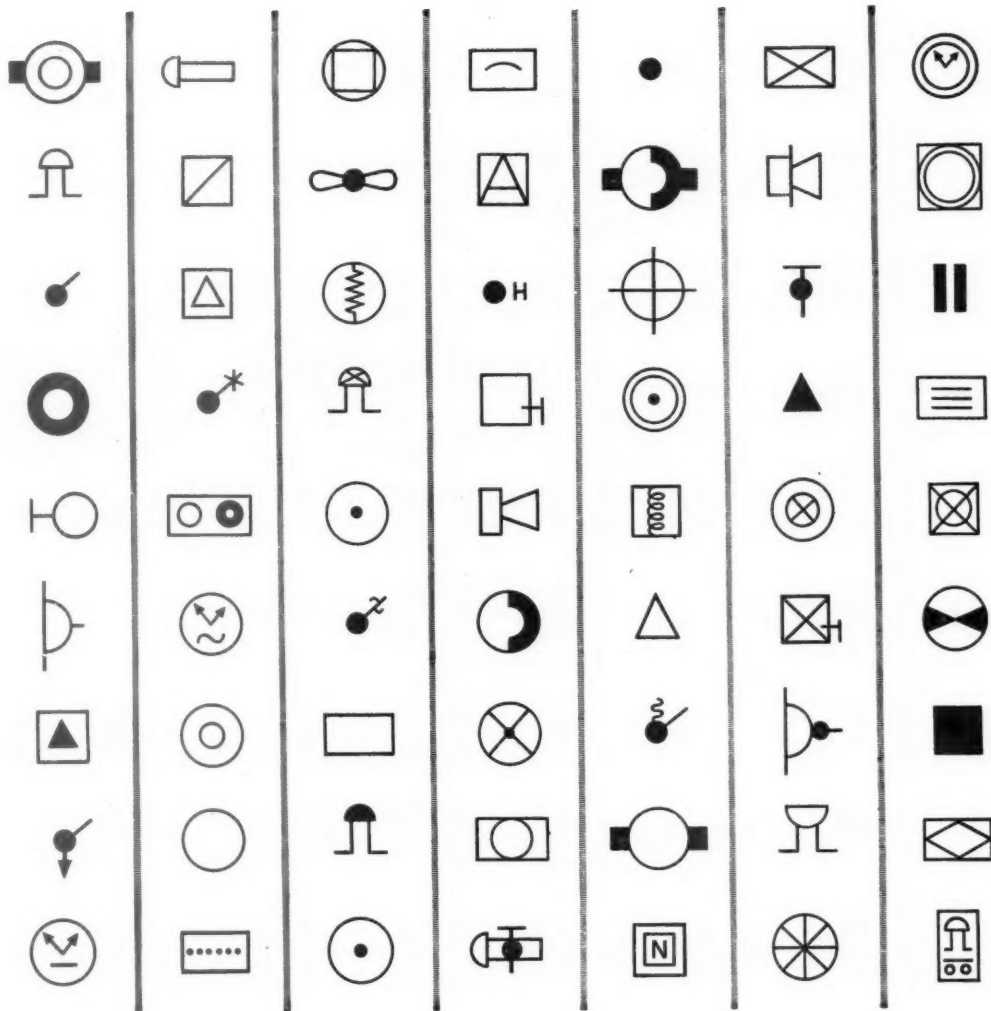
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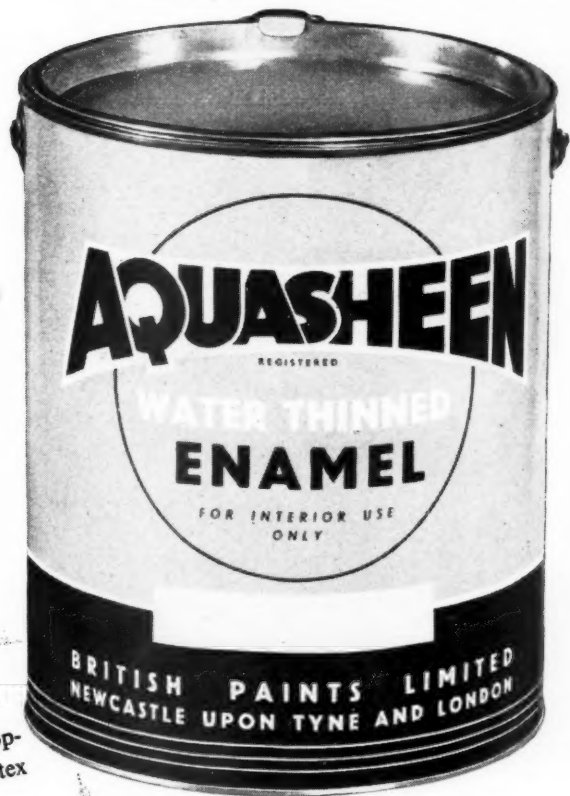


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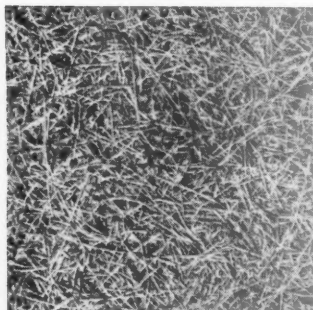
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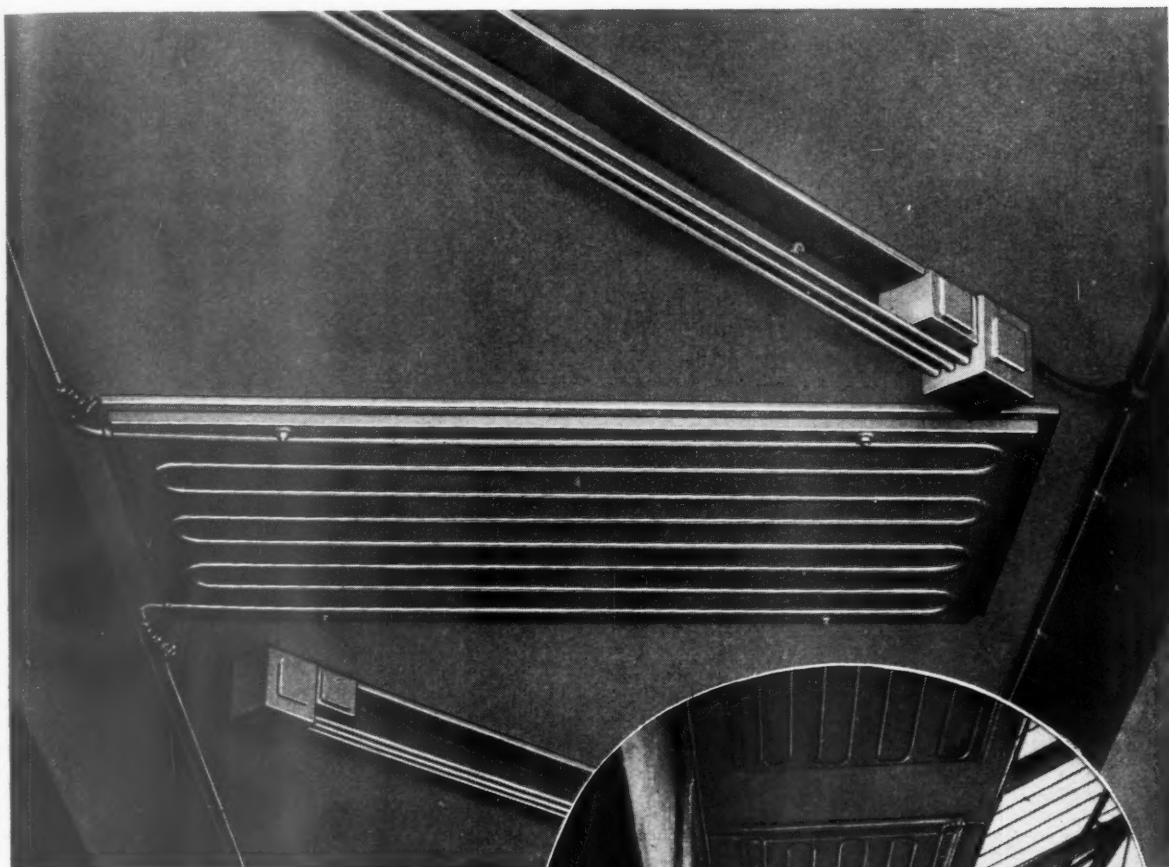
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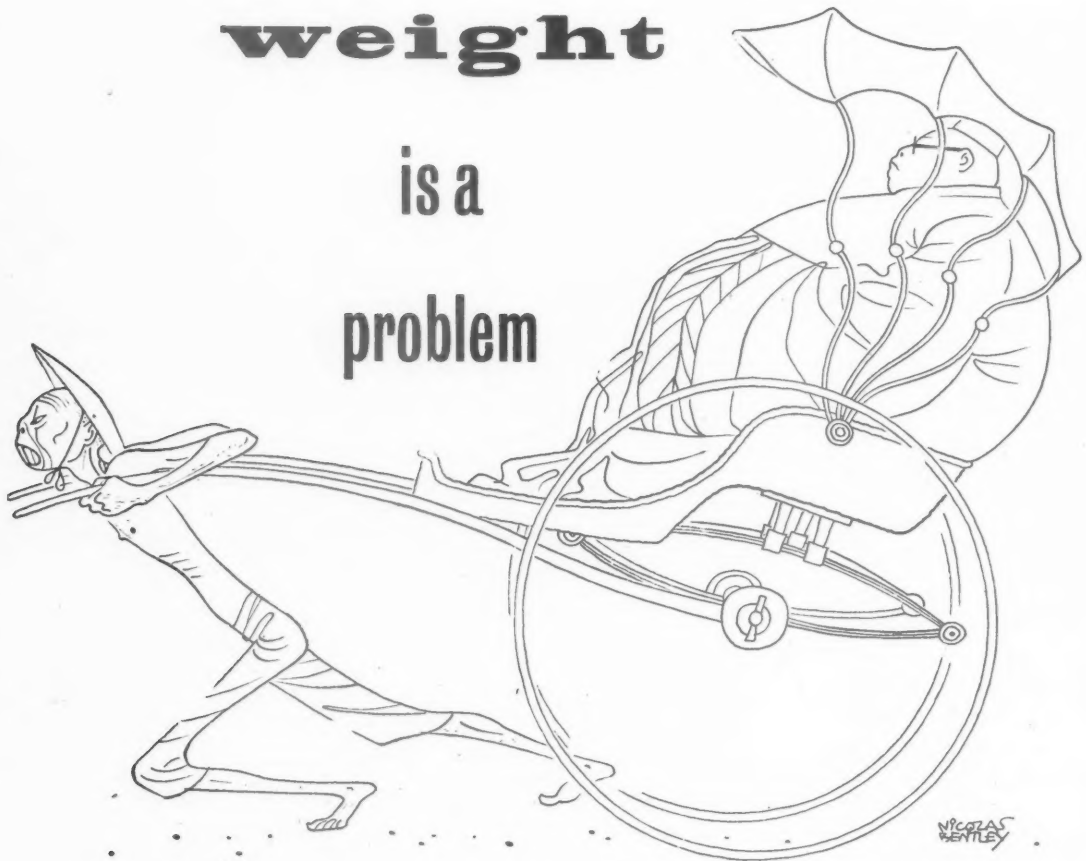
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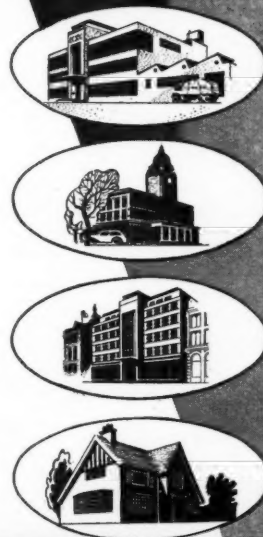
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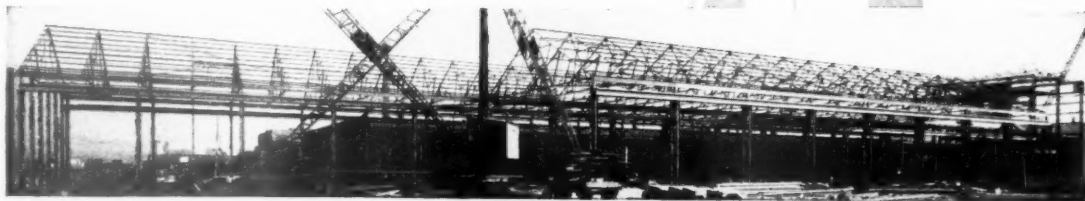
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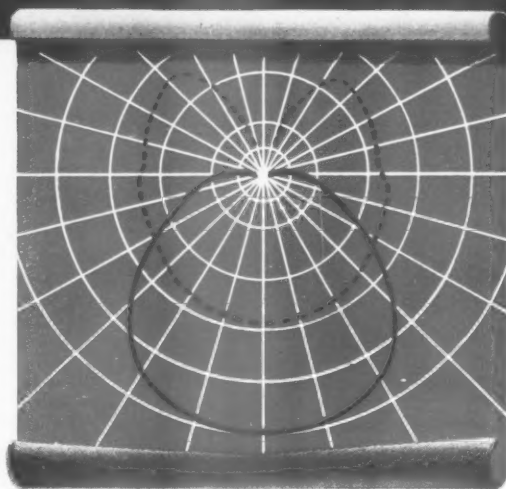


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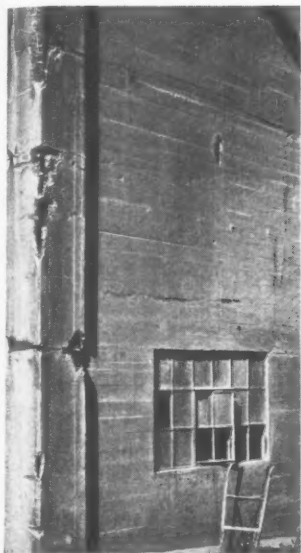
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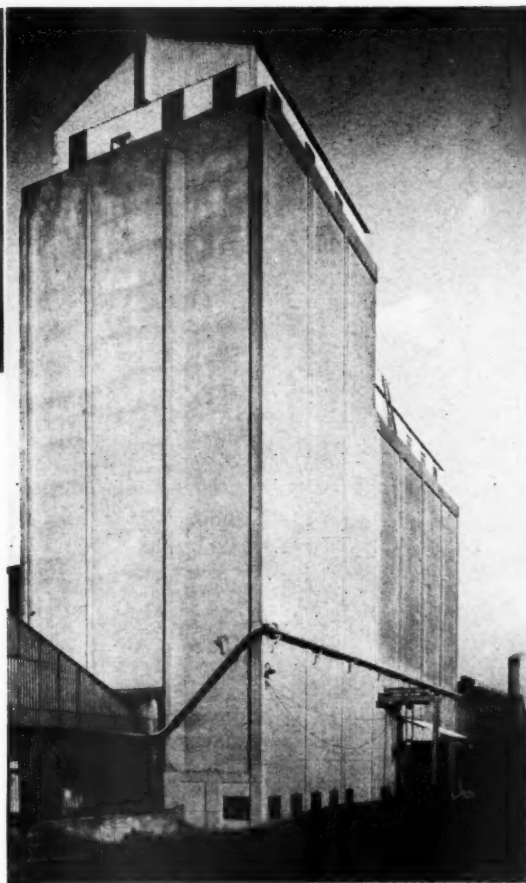
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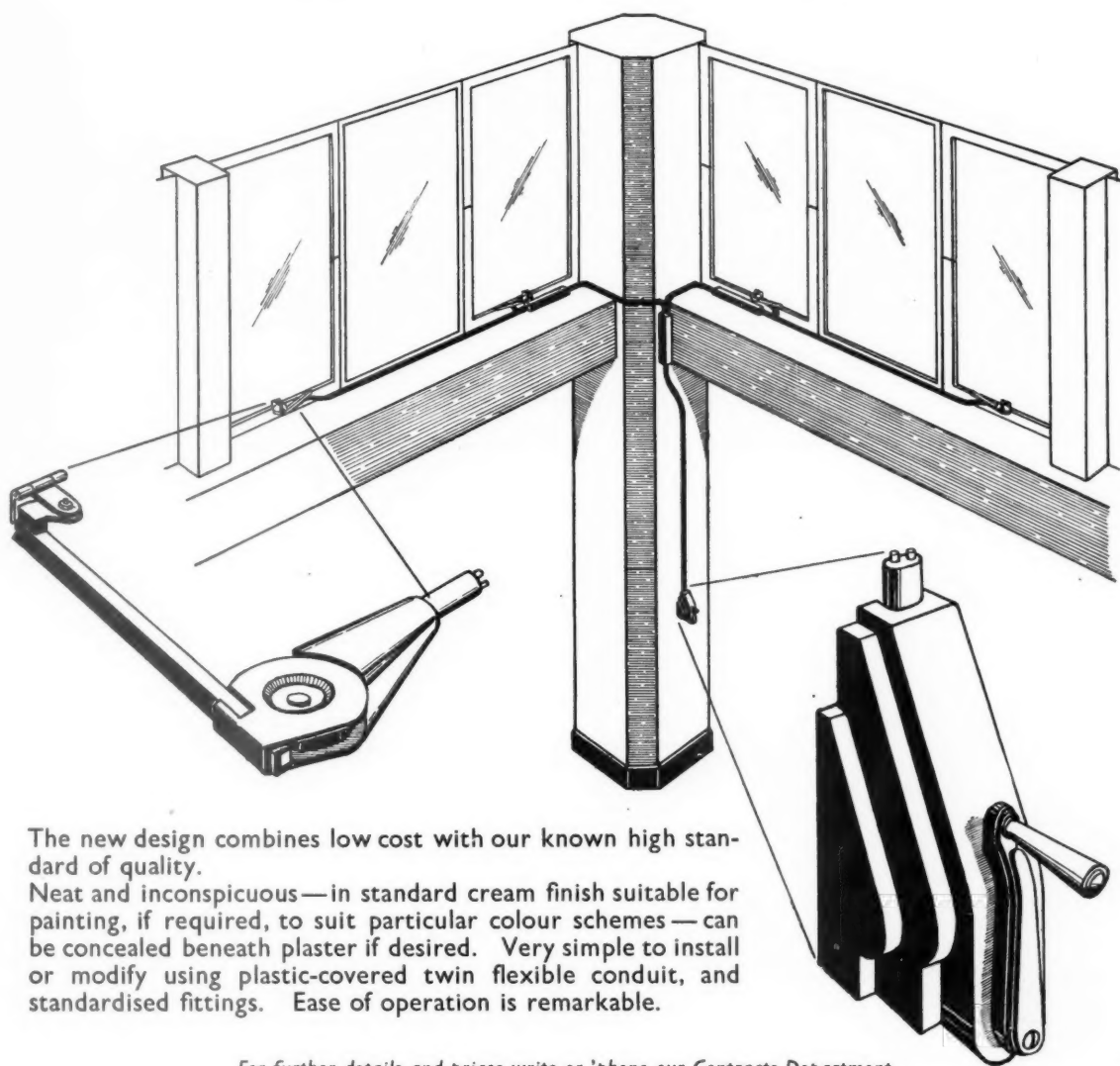
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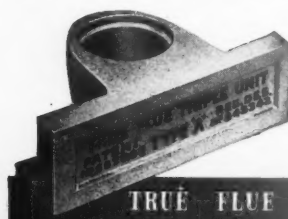
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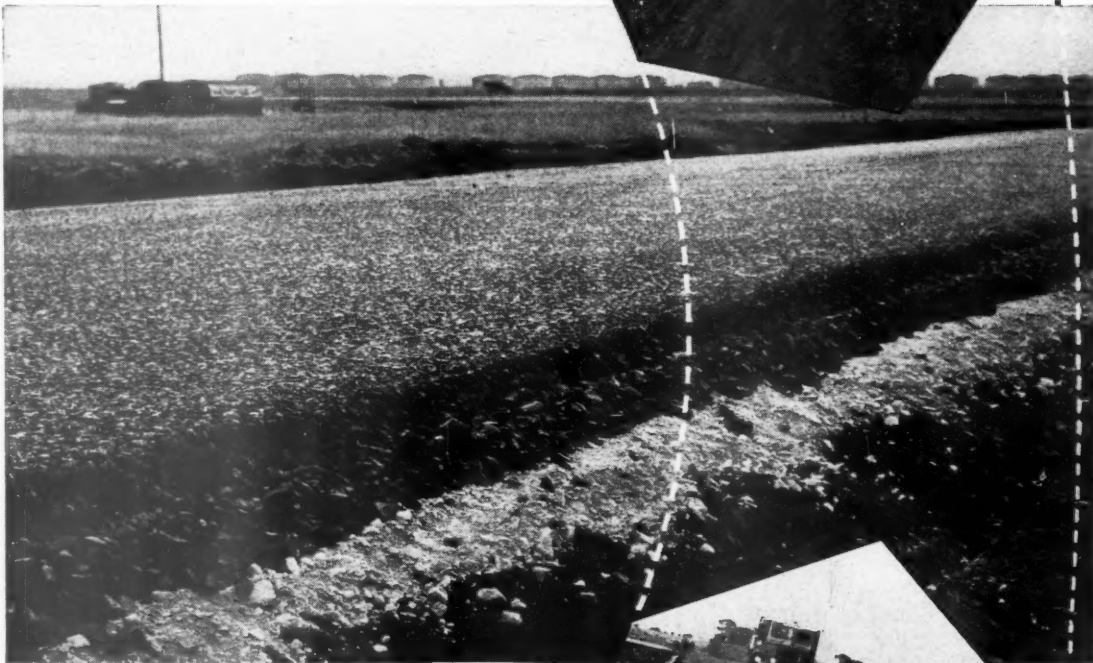
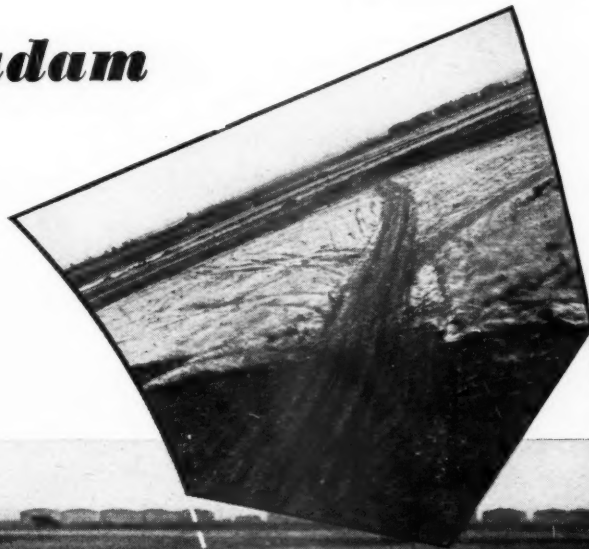


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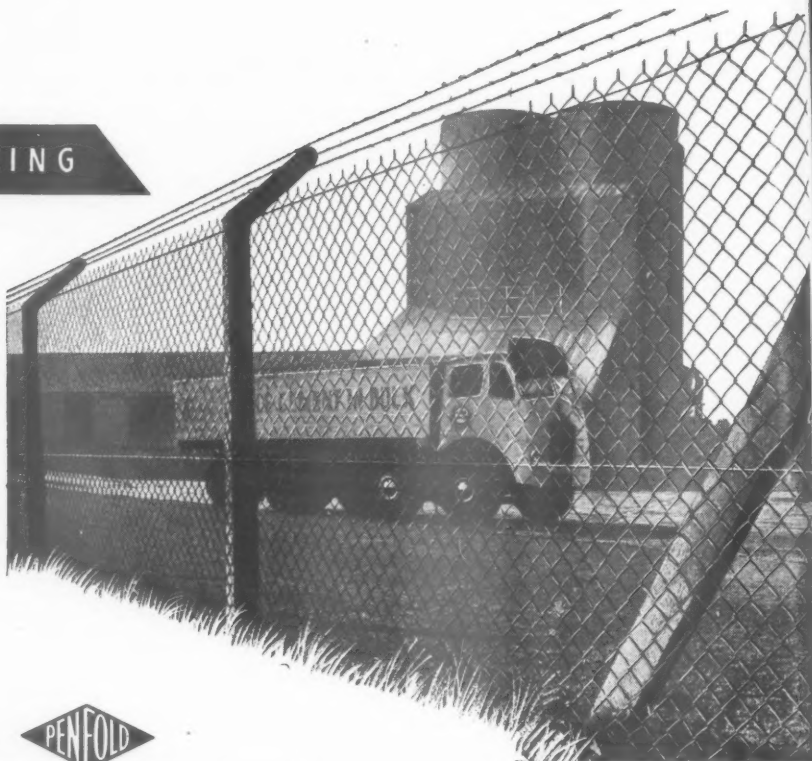
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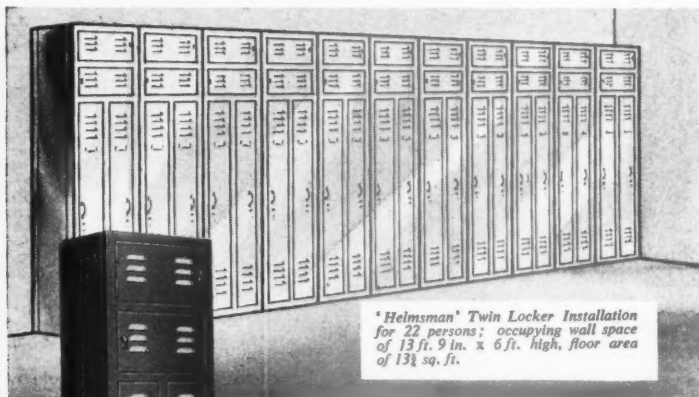
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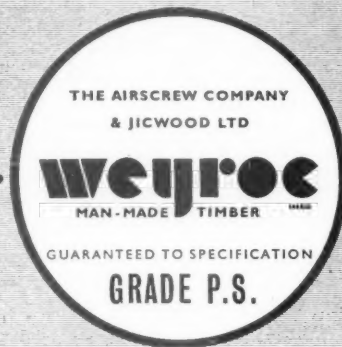




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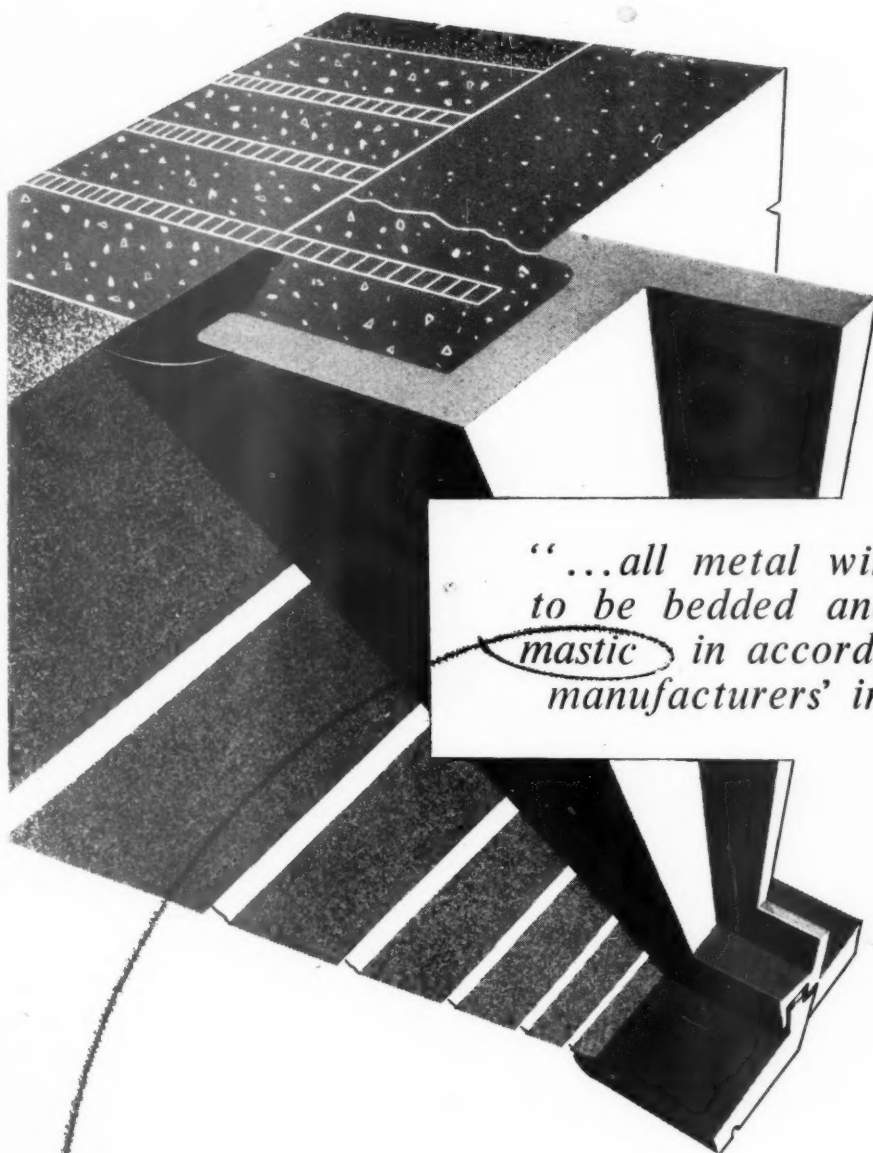
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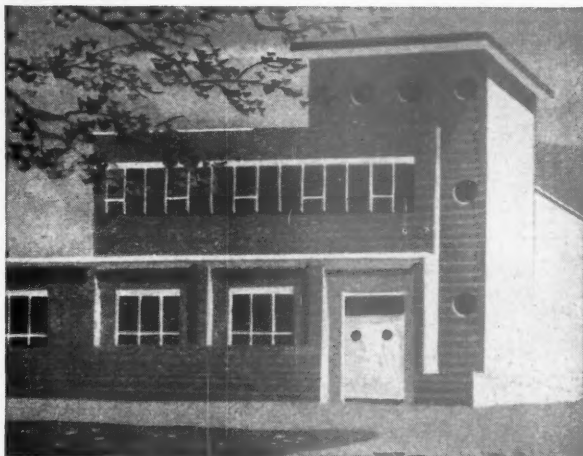
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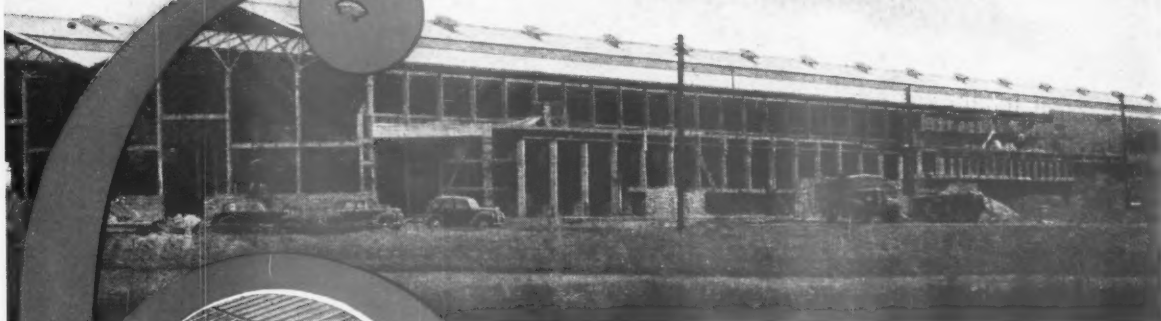
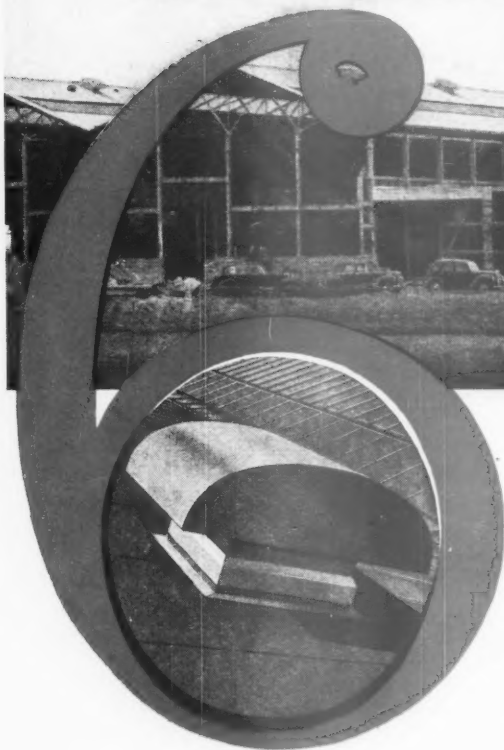
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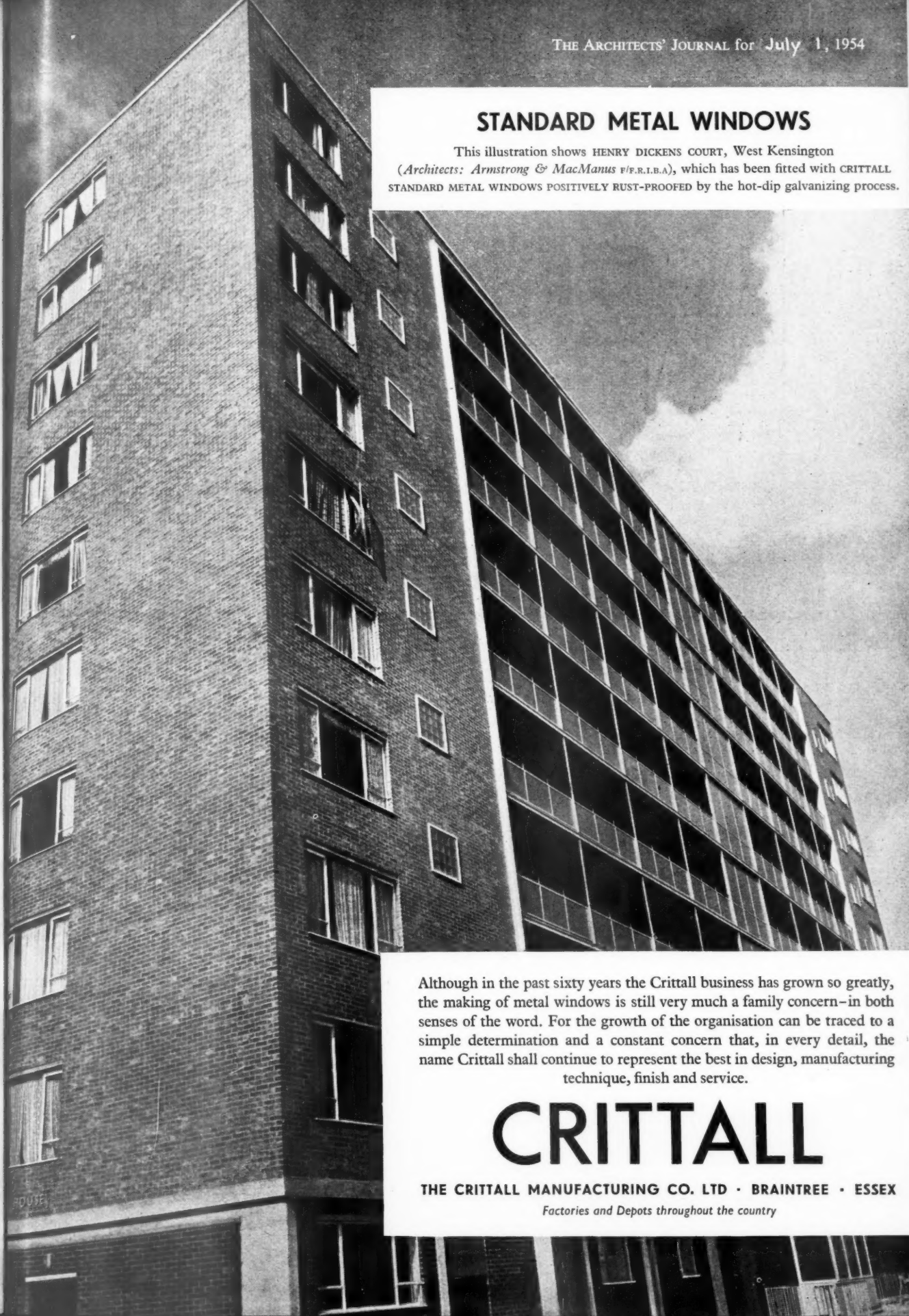
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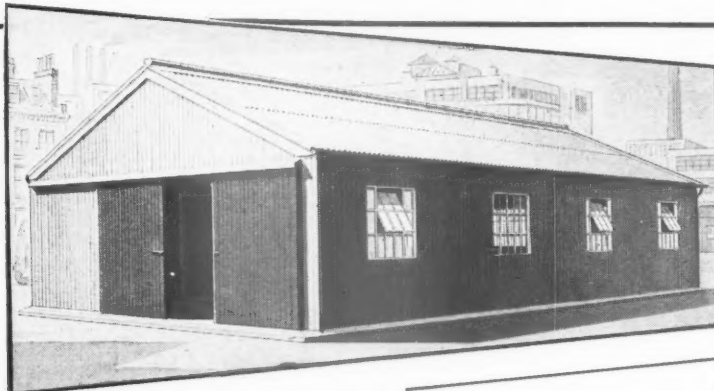
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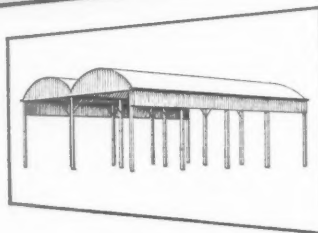
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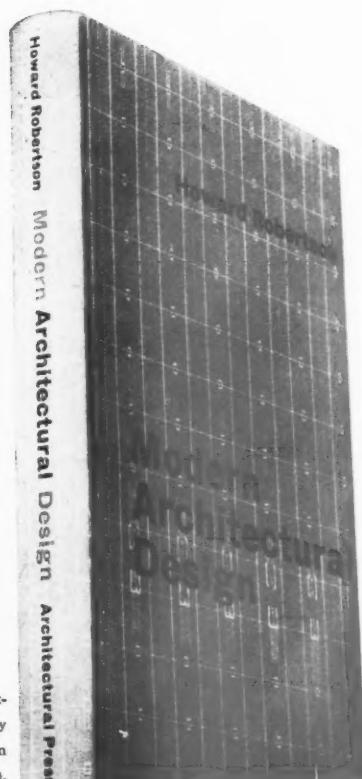
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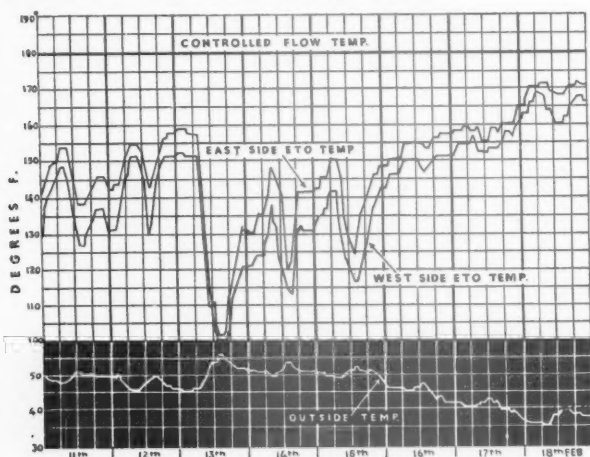
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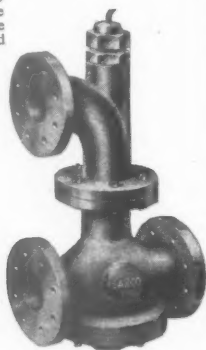
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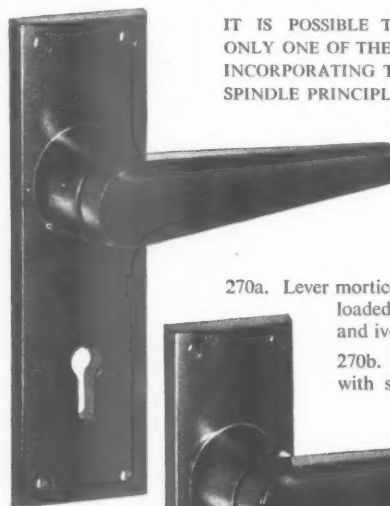
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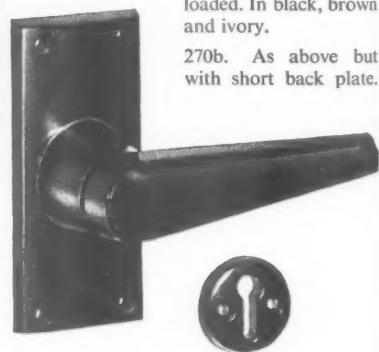
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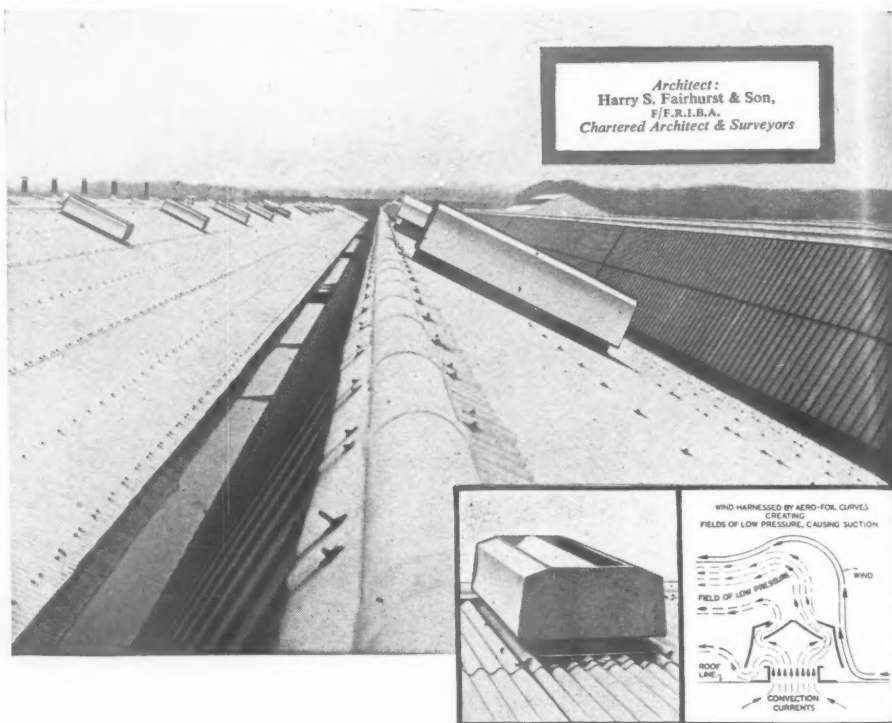
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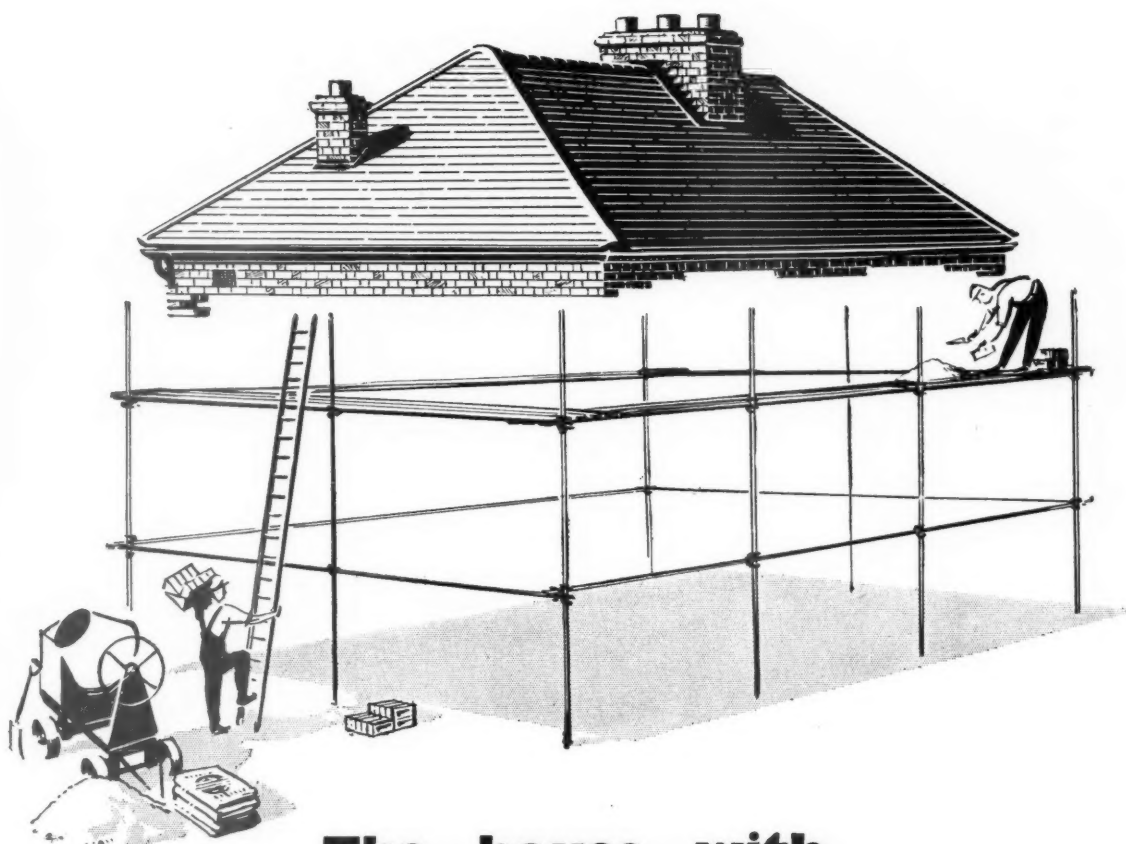
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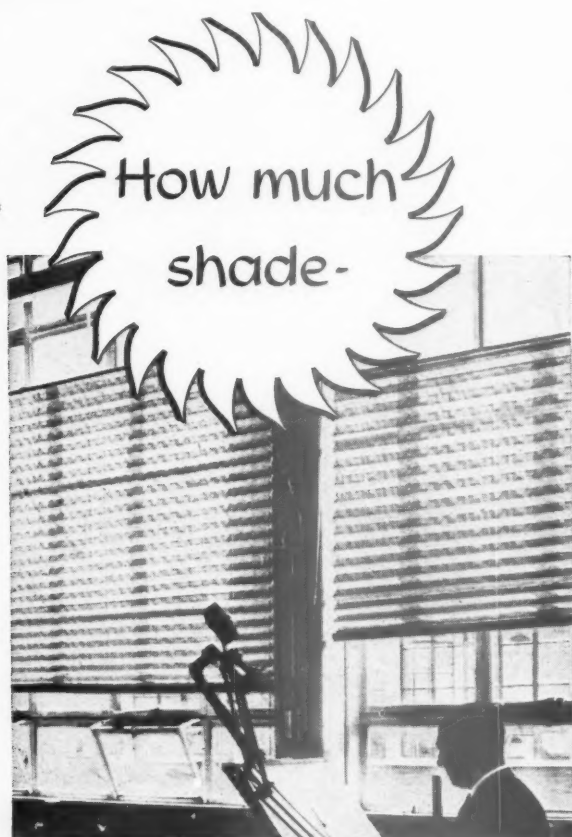
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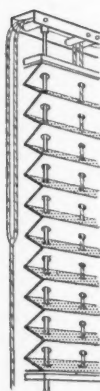


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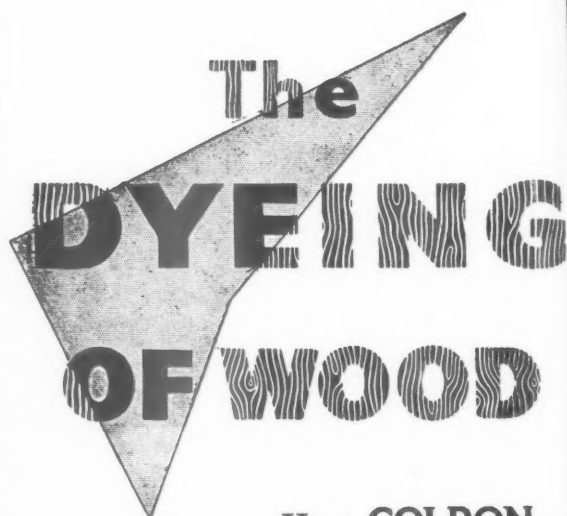
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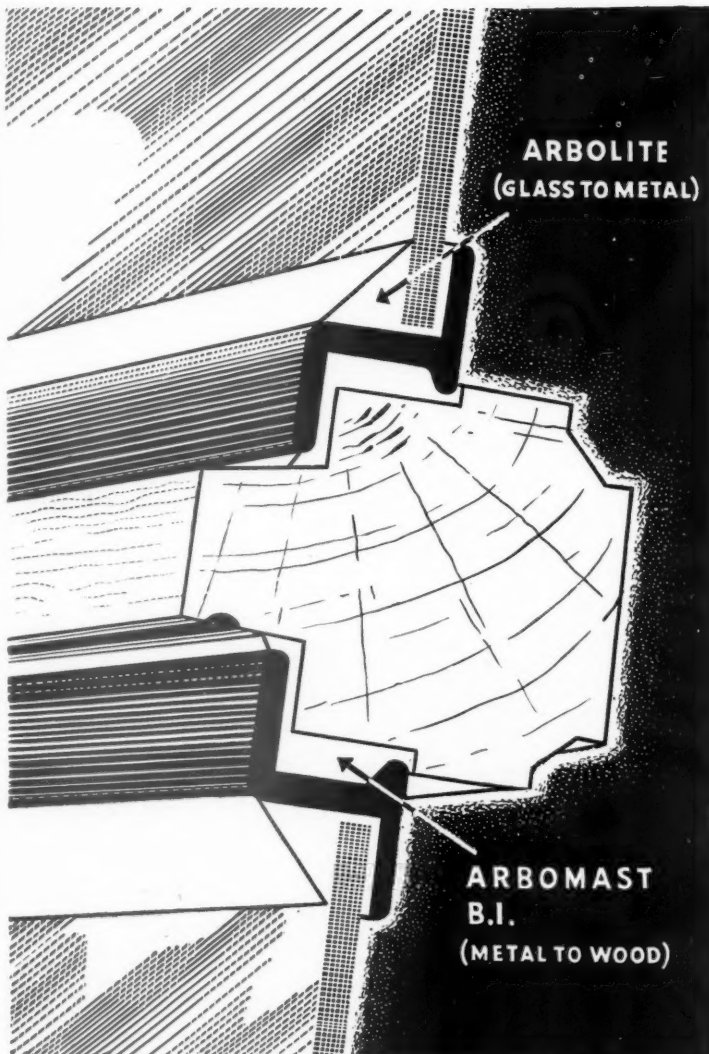
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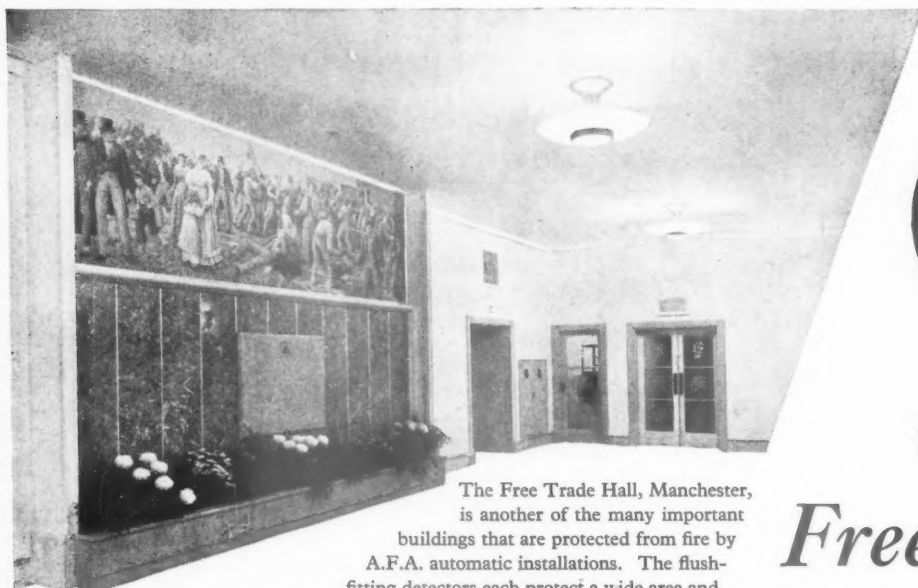
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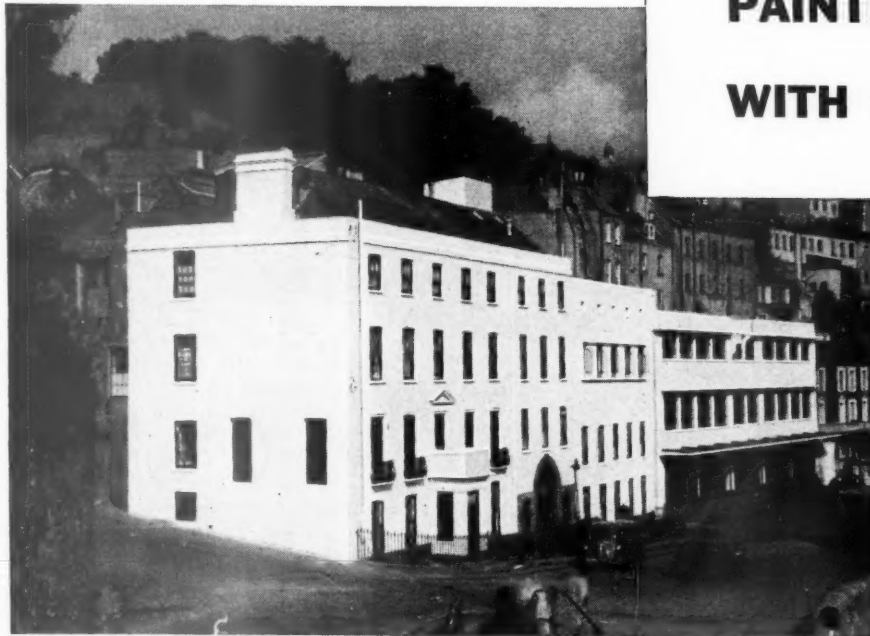
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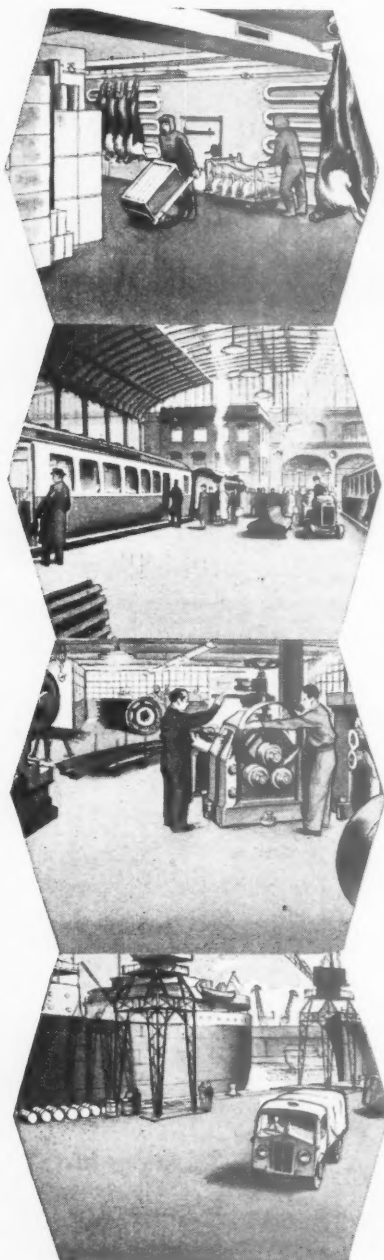
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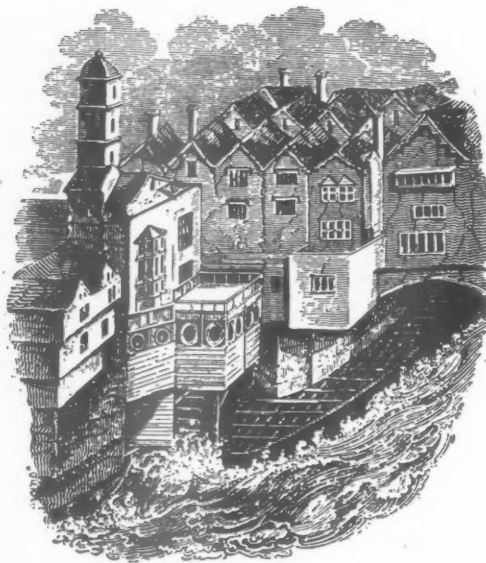
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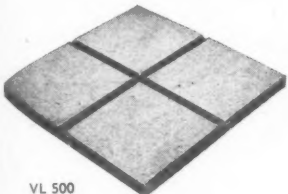
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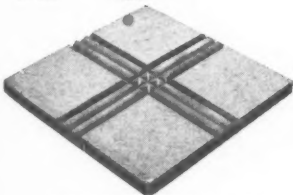
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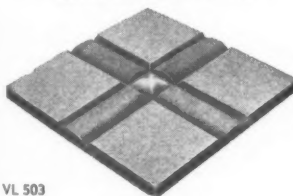
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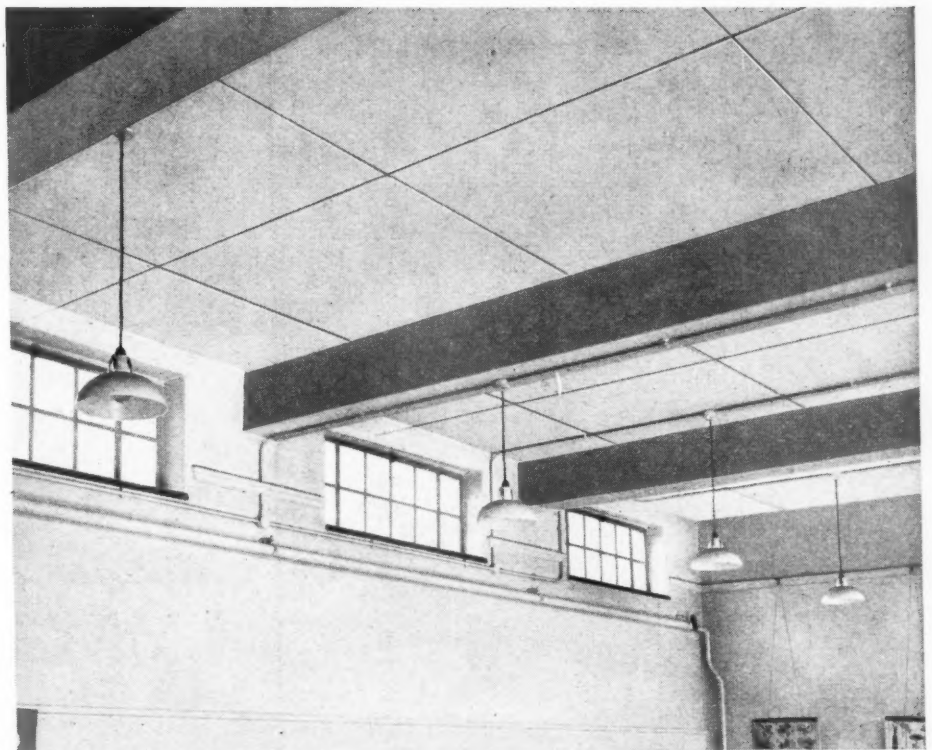
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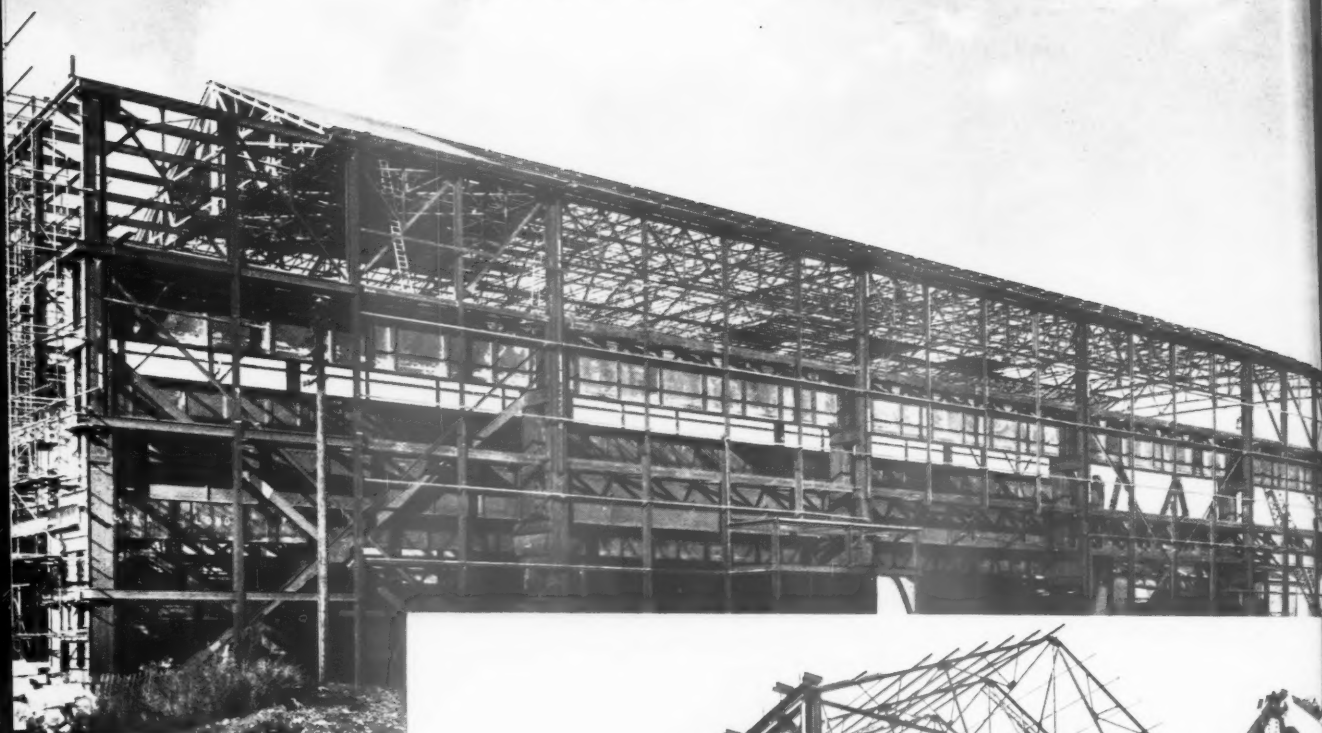
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FLEETINGLY REVEALED

Denys Lasdun took pains to call his lecture at the AA last week "*Fleeting impressions of American Architecture*, with reference to the influence of Mies van der Rohe." Fleeting they may be, but he took care to polish them up into a neat, carefully illustrated, talk. It soon became apparent that he was interested mainly in ends and not means—the Mies flats on Lake Shore Drive, with their structurally superfluous steel-work, disturbed him not at all ("I could see nothing wrong with this") and, as one might suspect, he went "green with envy" when he learnt that Mies relied on a consultant architect to supervise the construction of his designs. This procedure, he thought, would enable

the architect to "find time to consider architecture, which is what matters after all."

*

Such a phrase shows only too clearly what a chasm there is between the two schools of architects indiscriminately labelled "modern" by the general public. On the one hand those producing buildings "to serve as a monument to the designer" (as Peter Trench most appositely quoted when he seconded a vote of thanks) and on the other those more humble fellows who see great contemporary building arising only when technique, economic and social issues have been studied and mastered.

*

The AA, both members and students, are now discussing a policy for themselves. Here is an issue to split them as surely as modernist versus traditionalist once did. Which side will collect the most adherents—the self-expressing monumentalists, "new brutalists," and stylists determined to impose a veneer of modernity on to a technique of building they do not care to understand or control? Or those who put technical mastery side by side with æsthetic development for the production of true architecture today?

GEORGE VI MEMORIAL

Few architects can have had a more difficult job than that given to Louis de Soissons when he was asked to design a flight of steps breaking through the retaining wall at the end of Carlton Gardens, so as to lead up from the Mall to the proposed statue of George VI. It is clear that a break here will not improve the Mall, but its disturbing

effect is not the architect's fault. It is the fault of those who chose this site for the memorial, and then insisted that there must be direct public access.

*

Mr. de Soisson's job was to make the staircase as unobtrusive as possible. He has obviously tried hard, by arranging his balustrades so that the solid horizontal line survives. Yet *The Times*, I think, was right when it said last week that the flights of stairs are still too much on the grandiose side. What is wanted is something on the modest scale of garden architecture, avoiding the monumental altogether.

*

But what an insuperable problem is the siting of new memorials in London. Others are coming along—like the Royal Armoured Corps memorial and the statue of Smuts—which are going, I am afraid, to cause a lot of argument.

THE RFAC SPEAKS OUT

So many reports of public bodies are dull records of facts that it is encouraging to find the annual report of the Royal Fine Art Commission, issued last week, coming out with several bold expressions of *opinion*. They are all excellent and they all needed saying, so let me do what I can to help by giving some of them wider currency.

*

Of the reconstruction of central urban areas (meaning especially the City of London) "the Commission notes with increasing concern the low architectural standards shown in much of the work."

*

Of the proposed City Corporation offices round the Guildhall: "the Com-



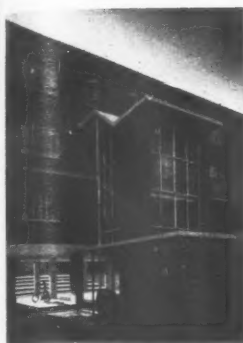
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These buildings on the Butts Farm Estate, Hanworth, which were designed in the Twickenham Borough Engineer's Department, were visited this week by the King and Queen of Sweden. ASTRAGAL refers to the visit below. (Borough Engineer: A. S. Knolles; Assistant Borough Architect: H. S. Gardiner).

mission hopes that the usual congestion will be avoided."

Of the Twickenham replanning proposals: these "in the Commission's opinion would have reduced the old village centre to little more than another piece of suburban development," and of a redevelopment scheme near Gloucester cathedral: "the first proposals involved an increase in scale that would have done serious damage to the appearance of the city." (It should be added that both the Twickenham and Gloucester schemes were considerably improved as a result of the Commission's advice).

Of power stations: "the Commission is glad to record . . . progress in the actual design" but "there seems to be a tendency to believe that bad siting can be remedied by impressive elevations or elaborate brickwork."

Of trees: "the Commission notes with concern the continued mutilation by many local authorities of both roadside trees and those in public open spaces."

FIT FOR A KING?

The King and Queen of Sweden, who had asked to be shown a housing scheme during their brief visit to this country, were taken to the Butts Farm Estate, Hanworth, to see the buildings illustrated above. Why was this typical example of Borough Engineer's Contemporary chosen? "Nothing to do with us," said Buckingham Palace, "try



the Swedish Embassy." The Embassy was unwilling to take the blame, but it did say, reassuringly: "The King knows that you can't judge by external appearances." Wincingly, ASTRAGAL telephoned the Lord Chamberlain's which cheerfully put the blame on to the MOHLG. "I don't know much about it," said the girl at the Ministry, "but I was told that if anyone asked I was to say it was on a rota."

Exeunt brooding ASTRAGAL, smiting brow with trembling fist, and wondering why the Royal visitors could not have been taken to the LCC's point-block estate at Wimbledon, for which the Ministry has just awarded a housing medal.

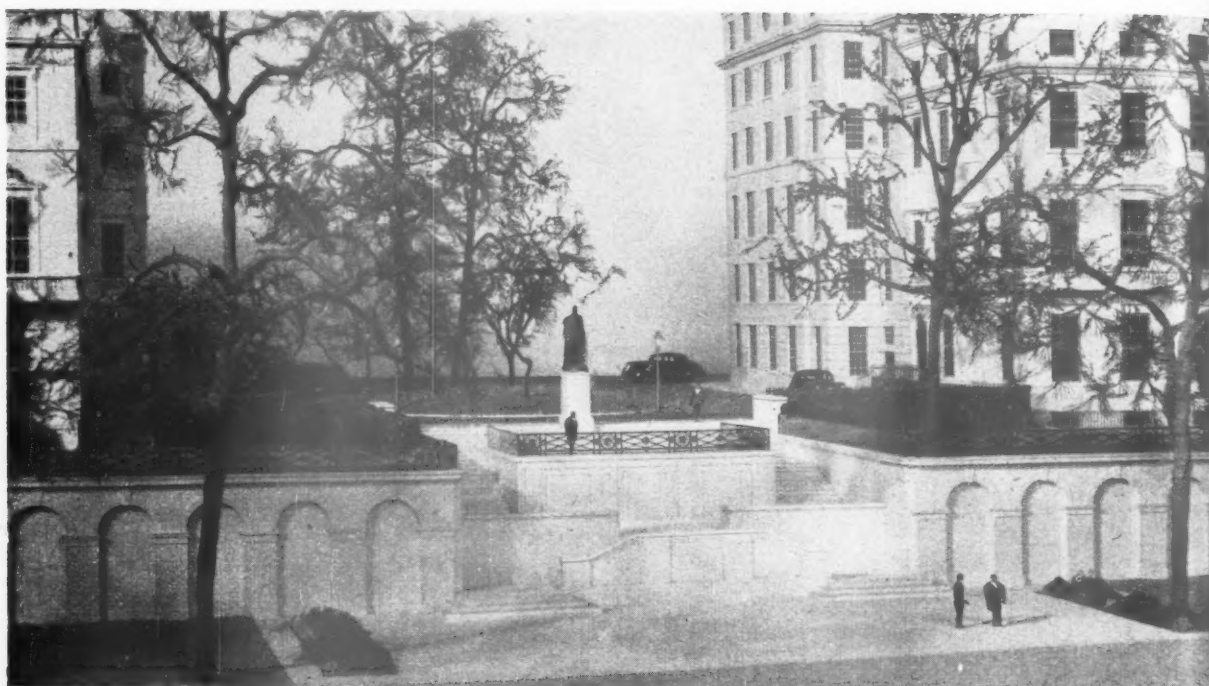
NEW ZEALAND HOUSE

The announcement in the New Zealand Government's news bulletin that Robert Matthew is to be architect of the new New Zealand House was accompanied by an intriguing remark. "It is understood," the bulletin said, "that Mr. Matthew will be assisted in his task by one or more New Zealand architects, possibly from among those already practising in the UK."

Pleasure that this important work, as well as the future of an important site (New Zealand House is to occupy the old Carlton Hotel site, in the Haymarket) is to be in the hands of a really progressive-minded architect can therefore be accompanied by speculation as to whether some new experiment in teamwork is intended. There has been a lot of discussion lately about the suitability of team design to modern needs, and experiments such as that of Gropius in America and that sponsored by Unesco have been followed with interest. No one in this country is better equipped to carry out such an experiment than Robert Matthew; indeed the Royal Festival Hall was the work of a team under his leadership.

Further information about New Zealand House will be awaited with interest. There will be no lack of talent for Matthew to draw on. There are half-a-dozen distinguished architects of New Zealand origin practising in London alone.

By the way, it is to be hoped that this scheme will involve no threat to the



Hesitant Monumentality

Many of the photographs published in the daily Press of the model showing the proposed setting for the statue of King George VI gave a misleading impression, as does the photograph, top, which was given out at the Press conference held by Sir Leslie Boyce, chairman of the executive committee of the King George VI National Memorial Fund. Sir Leslie emphasized that the statue would be in full view of passers-by in the Mall without any trees being lopped or removed. But missing from the photograph is the familiar double line of plane trees running across the foreground on this side of the two trees shown, which are part of yet a third row. This double line of trees will, in fact, prevent the statue (but not the steps and plinth) from being seen by people on the opposite side of the Mall, and will allow it to be seen only indistinctly by motorists. In addition, the background consists—in summer—entirely of green foliage (not adequately shown in the model), a factor to be considered when the choice of materials for the statue is made. The dark bronze is more likely to merge in colour with the background of trees—both in summer and winter—than a light stone. For comparison we show, above left, a view of the actual site. On the right can be seen Carlton House Terrace, and the arch to the left of the ladder

marks the centre of the arcaded wall and the centre line of the proposed steps. The tree, second from right, is the only one, presumably, which will have to be removed. The statue will stand just above, and left of, the top of the lamp-post, and approximately at a height shown by continuing the line of the bottom windows of the Terrace. The treatment of the steps (the architectural setting has been designed by Louis de Soissons) seems both uninvitingly complicated and unnecessarily grandiose, and is the outcome, no doubt, of a compromise: the architect has taken pains to avoid breaking unduly the long simple lines of the Terrace and retaining walls by providing solid balustrades parallel to the retaining wall, and has, at the same time, tried to provide a dignified setting. The result, at an estimated cost of £56,000, is an oddly fussy pedestrian entry into the quiet cul-de-sac of this end of Carlton Gardens. It provides a cross-axis to the Mall which competes with, but does not compare with, the simple grandeur of the Duke of York steps, above right. In addition the long unbroken line of St. James's Park, on the other side of the Mall, provides no path or architectural feature to continue, or stop, the line of this somewhat hesitant cross-axis. ASTRAGAL comments on the setting for William McMillan's statue on page 1.

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attractive, little-noticed, Royal Opera Arcade.

JAPANESE INTERIOR

Not having a rectangular mouth or the ability to sit down cross-legged on the floor in one movement from standing, ASTRAGAL always has some difficulty in getting under the skin of Japanese films—although there comes a time when one begins to wonder just how stylised the “naturalistic” acting in Western films must be in Eastern eyes. However, that grisly little melodrama *Gate of Hell*, which has extracted fulsome praise from the critics, interested me for quite other reasons. Not only was it a joy to look at, with colour which ran the whole gamut from the exquisite to the post-card-view-of-Fuji sort of thing (always clearly under the director's control), but most of its action was indoors, so that one seemed to spend the evening in a wood-work Mies van der Rohe interior with furnishings from a dimly-remembered Liberty's of twenty-five years ago.

Everyone has learned at some time that Modern Architecture owes an un-repayable debt to the architecture of Japan, but nothing could have brought it out more clearly than this film, in which figures move through wall-less cubes of space, different functional areas are defined only by a transparent curtain or a slight change in floor level, all materials are honestly employed and all structures are honestly displayed.

Two more points: the houses have a great sense of spaciousness, attained chiefly by their having ceilings so low that even the natives have to duck to pass under the beams, and the “simplicity” of Japanese architecture must be taken with a grain of salt. Admittedly the furnishings are sparse, but they look fabulously expensive, and every piece of wood is grained, every piece of silk is watered, every floor is polished, every garment, curtain or hanging is patterned or embroidered, and every rope or curtain-pull is tasselled. Also every house seems to occupy a particularly exposed site—but one already knew that dwellers in modern architecture must needs be tough.

ASTRAGAL

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The Editors

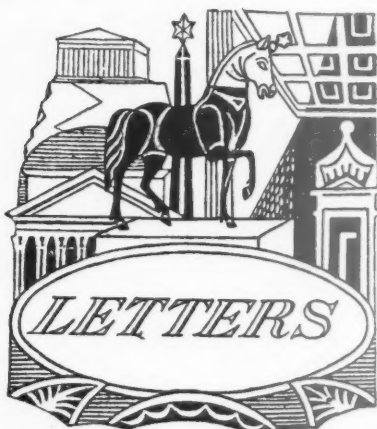
NEW SERIES OF TECHNICAL STUDIES

TWENTY years ago, when “style” meant aesthetics, life was much easier for the architectural journalist.

New ideas from the building industry—which remained basically traditional—could be adequately covered by a few photographs and a brief note on materials. But things have changed: the emphasis has shifted from surface appearances to techniques, and just as much original thought is now given to the way components are made and fixed as it is to the finished appearance of the components. Although this kind of thought influences the appearance of a building, the influence is indirect and cannot be “put over” journalistically by a photograph or two and a few sentences.

We have decided, therefore, to continue to publish the type of analysis that John Stillman and John Eastwick Field began in the JOURNAL with their popular studies of the Royal Festival Hall and Wokingham Secondary School. We intend to publish a series of technical reports on buildings under construction, singling out whatever technical features are of particular importance. As no building is technically interesting in more than a few ways, these reports will not be comprehensive. They will not take the place of the normal method of presenting finished buildings in the middle section of the JOURNAL, but it is hoped that the reader will find a reference back to the technical study of great value when he is reading about the completed building.

The first subject for our new series of reports is Powell and Moya's additional buildings for Mayfield School, Putney, and the first instalment of this first report appears in this week's Technical Section, on page 23.



Douglas W. Richardson, A.R.I.B.A.

Gerald T. West, Student R.I.B.A.

C. R. Vinycomb

A. O. Woolnough Deputy General
Manager, Northampton Building Society.

J. Poplett

C. T. Every of Horace W. Langdon
& Every, Chartered Quantity Surveyors.

*"Four Young Disgusted
Architects"*

F. Evans Jones, A.R.I.B.A.

James D. Shearer

J. F. Quin

Why a Union is Wanted

SIR,—The following advertisement appeared in the JOURNAL of June 17:—"City of Cambridge, Chief Assistant Architect, Grade X—Applications are invited for the above appointment on Grade X (£920-£1,050). This officer will be responsible to the Surveyor for the design and construction of all architectural work, including schools, houses, flats, re-development schemes, libraries, etc., and will have under his direction an architectural staff of about seventeen assistants."

Surely the above and similar advertisements constitute sufficient justification for making the appointment of city and borough architects a statutory obligation. Attempts to obtain the services of architects at a debased remuneration will continue until a union is established and loyally supported, through which legislation can be obtained to stop the degrading of the architect's status by some local authorities and industrial undertakings.

This advertisement could never have been published with any chance of obtaining a suitable applicant had a Union existed to protect the interests of the profession.

DOUGLAS W. RICHARDSON.

Lancs.

Astragal at the Bartlett

SIR,—ASTRAGAL'S "spy" at the Bartlett (June 17) seems to have been under a strange misapprehension. Such a theme ("that expression of function, honesty with materials, innovations in technique and so forth have never made great architecture, and certainly not modern architecture") could hardly be expected to evoke less than

applause. Mr. Banham has had the courage to show the wheel has turned full cycle. Is it too much to hope, Sir, that he has discovered solid ground for a rapprochement between CIAM and the Beaux-Arts.—Merci, but if you have not touched my heart etc?

It was indeed significant as ASTRAGAL suggests, that this lecture was arranged by students at the Bartlett.

London.

GERALD T. WEST.

Flues on Outside Walls

SIR,—In your issue of June 17, Eric Bellingham, Director-General of the Coal Utilisation Council points out the (hitherto) wasteful practice of constructing flues on the outside walls of houses and goes on to complain of this fault in the designs of the south-western architects which illustrated your RIBA Conference number.

It may be that the south-western architects do not trouble to keep themselves well informed by subscribing to the AJ and that they have regard to ease of planning and circulation rather than their clients' future fuel bills in placing "old-fashioned" fireplaces on outside walls.

Your Technical Centre, some time back, noted the production in England of a most promising—and simple—fireplace based on the German principle of the *cold flue*: external air admitted to the flue above a restricted throat and also circulating around the back of the fire to provide convected air in the room. This "Space Heater" as it is called (worthy of notice by Messrs. Allen & Mills) now confers on the up-to-date home counties designers the ease of planning generally seen in the jerry builders' stock bungalow layout and a ways enjoyed by their south western colleagues.

Luton.

C. R. VINYCOMB.

One Step Forward, Two Steps Back

SIR,—In the issue of your JOURNAL for April 22 under the above heading, ASTRAGAL rather caustically drew attention to the demolition by my Society of "the last remaining Georgian shop-front in Banbury." Had ASTRAGAL wished to make some fair comment on the passing of this architectural feature of Banbury I would have been only too happy to place my voluminous file at his disposal, which would have revealed to him many things, including even the correct name of my Society. These pseudo-Georgian, I repeat *pseudo-Georgian* windows were only condemned after nearly eighteen months of investigation and consultation with architects and practical builders who specialize in the preservation and restoration of ecclesiastical architecture. Our consulting architect is a lecturer to the Chapter of the Archdeanery and to Oxford University. At the inquiry held by the MOHLG, ASTRAGAL states correctly that "nobody turned up to say why the shop front should not be demolished," but omits the simple explanation that all relevant authorities having been consulted throughout there was nothing practical left to be said. We would have liked to have preserved the windows as a gift to a certain interested northern museum, but their condition was such that they literally disintegrated. The proposal to replace two unsound pseudo-Georgian windows with one sound pseudo-Georgian window met with general approval.

Northampton.

A. O. WOOLNOUGH.

Errors in Cost

SIR,—Errors are manifest in the costs you gave on June 17 for the Hammersmith flats in Coningham and Percy Roads.

If the costs of 2s. 10d. per ft. cube and £4 per ft. super. are both correct, I calculate

the absurd consequential height as 77 ft.

Scaling plan and sections gives:
 $\frac{£8821}{\text{cube}} \div 33' 6" \times 29' 2" \times 32' 11" (32,162 \text{ ft. cube}) = 5/5\frac{1}{2} \text{d. per ft. cube.}$

$\frac{£8821}{\text{cube}} \div 3 \times 33' 4" \times 26' 10" - 8' 10" \times 2' 4" (2,663 \text{ ft. super}) = £3.6.3.$

$\frac{£3 \text{ 6s. 3d.}}{\text{super}} \text{ not } \frac{£4 \text{ per ft. super.}}$
Noting it was built by direct labour, one wonders whether the 2s. 10d. might not be the contract figure and the £4 the eventual cost.

East Grinstead.

J. POPLETT.

The costs which appeared in the JOURNAL of June 17, 1954, which were as supplied, are corrected in the letter appearing below, from the Quantity Surveyors who carried out the work.—Ed.

SIR,—Our attention has been drawn to the article appearing in the JOURNAL for June 17, 1954, describing the flats in Shepherds Bush, London, W.12. The correct figures are as follows:

91 Coningham Road.

Contract Price: £17,021—(4s. 11½d. per foot cube excluding external works and 5s. 3½d. including external works and £3 2s. 0d. per foot super excluding external works and £3 4s. 8d. per foot super including external works).

57/59 Percy Road.

Contract Price: £8,821—(5s. 3½d. per foot cube excluding external works and 5s. 4½d. including external works and £3 3s. 9d. per foot super excluding external works and £3 4s. 2d. per foot super including external works).

London.

C. T. EVERY.

Annual Farce

SIR,—We were interested to read ASTRAGAL'S comment on the entries for the architecture room of the Royal Academy where he suggests that lack of support by contemporary architects is due to their attitude that the exhibition is an annual joke.

If the few contemporary works exhibited this year are a foretaste of future entries it seems to us that the annual joke will soon develop into an annual farce.

FOUR YOUNG DISGUSTED ARCHITECTS.
London.

Allied Societies

SIR,—I was interested to read the letter from D. Cooper in your issue of May 6, in which he suggests that it would be helpful if you could give publicity to the views of the representatives of the Allied Societies sitting on the RIBA Council. I find myself wondering how this could be done, since the statements made by these representatives are not their own views but expressions of opinion in their Allied Society. Such opinions will vary with the composition of a Society Council from year to year, and any resolutions of the Society Council will result from consideration of problems as they arise.

It seems to many members of the profession, and especially to those who have been actively engaged in the work of the Allied Societies, that it is a good thing that the RIBA Council should be made up in part of members who are elected by a "straight vote of the profession, together with the representatives of the Allied Societies. The architectural profession, so far as the RIBA is concerned, is not governed from a central headquarters with branches all over the country, but through friendly co-operation with its Allied Societies. It may be that the term "RIBA Council" has misled your correspondent. I feel that the expression "The Council of the RIBA and its Allied Societies" would be a more accurate statement.

I have been Secretary of an Allied Society

for six years and I venture to disagree with Mr. Cooper when he says that the RIBA only now appears to be becoming aware of its responsibilities as a professional body.

F. EVAN JONES.

London.

The Competition System

SIR.—May I raise a question about the present competition system? It is undoubtedly true that—applied to major projects—the waste of man-hours which one must set against the chances of obtaining a higher standard of design, makes it doubtful if the result justifies the effort.

It occurs to me that the method used by the RIBA in the conduct of some of its student competitions might well be adopted with advantage. A preliminary contest is held in which competitors are asked to produce a sketch solution within a limited time. The assessors select a small team of about a dozen of those finalists who are given some weeks in which to develop their schemes, it being understood that the broad principles of the original sketch are to be retained in the final drawings. To limit the first part of the competition to twelve hours and to hold it *en loge*, as does the RIBA, would be carrying the principle too far, of course, but for the larger schemes which form the subjects of so many present day competitions, a period of two weeks would be a reasonable time. It would be sufficient to enable competitors to absorb the nature of the problem without becoming bogged down by consideration of details—as is inevitably the case after a longer study of the problem. For the development of the scheme three or four months would be adequate.

The advantages of such a system seem to me to be these. First, the number of man-hours wasted is enormously reduced. Second, having received some indication that they are proceeding on approved lines there is likely to be a very keen sense of competition among the finalists. Third, after the initial sorting out, the assessor's task would be an easier one. Fourth, the writing of an individual report of reasonable length on each final scheme would be a practical proposition.

Your suggestion that, under present arrangements, the assessor should criticise all the designs submitted in his report, would require a really remarkable man. When one thinks of writing perhaps a hundred different and fair criticisms of detailed work which has taken months to prepare, one can only conclude that it would be an impossible task.

JAMES D. SHEARER.

London.

Architect v. Engineer

SIR.—Reading the varied correspondence in your columns, from time to time, on *The Architect v. the Engineer*, I have come to the conclusion that most of the arguments in the case are founded on a mere matter of professional prestige. No question of freedom to design and other aesthetic red herrings enter into it as argued by architect-partisans; the engineers feel that they will be similarly restricted and are just as mistaken. Let us blow aside this miasma of phoney professional pride, and examine the matter in the light of practical operation.

The only justification for any system being employed by a local authority must be its efficiency and economy. The appointment of an independent borough architect will only be justified if the building work to be carried out by the local authority is more economically and efficiently achieved thereby. This has not always been the case, nor have aesthetic standards always been higher. Even the employment of a private architect on local authority work has not always improved the latter. The sad fact is that

there are as many if not more bad and incompetent architects, both aesthetically and economically, as there are good and efficient, to say nothing of the in-betweeners. The same applies to engineers.

The main rub with many architects designing work for local authorities is that they do not receive full credit for the work. This applies in architect-supervised departments. One architect to a large municipal corporation seems to seek the credit for all the work designed for his department, when in fact he could not administer his department and design to sketch stage one-twentieth of the amount. Many engineering assistants feel the same way about roads, sewers, bridges which they have been largely responsible for.

In any public office does it matter who is nominally in charge? It is the work carried out by that office which matters. Low cost, efficiency and aesthetics can be combined under any head of department. Many architects after reading illustrations of schemes say "Why can't we do a scheme like that?" They can, if it is practical, suitable for local conditions and within the limits of their budgets. Is it not the impracticality of some modern architecture that frightens the engineer? Does this not encourage them to play safe on what they are used to? Art-school sketches are useful in showing the pleasures of architecture but they may be entirely useless in convincing a Housing Committee of the economies of the scheme.

It would be useful if many of your correspondents would again read through very carefully the articles by your guest editors for 1952. These articles give a clearer idea of the responsibilities of the Public Service than much of the correspondence published. I would appeal to engineers to read them twice.

J. F. QUIN.

Lancs.



RIBA

Architectural Competitions

On the recommendation of the Competition Committee, the RIBA Council has given approval to a revised definition of the title "architect" for insertion in the Regulations and in the Model Form of Conditions. The revised definition will read as follows:—

"For this purpose the word 'architect' shall mean any person who at the time of his application for the competition conditions is registered under the Architects' Registration Acts, 1931 and 1938, or, being qualified for registration had already made

application to the Architects' Registration Council in the prescribed form to be admitted to the register. Any applicant for the conditions should state his registration number, and in the case of an unregistered person who has made application for registration, the date of such application and the number of the receipt issued by the Architects' Registration Council in respect of the admission fee. Where application is made by a firm the registration numbers and dates of registration of the architect partner or partners of the firms must be given."

The Council has also given approval to revisions to the directions for assessors aimed at saving time at each of the various stages of a competition and also encouraging the holding of two-stage competitions in suitable cases.

Appointments

The following appointments have been made:—

Codes of Practice Committee for Buildings: RIBA Representatives. George Fairweather, E. D. Mills, R. N. Wakelin.

BSI Committee B/75: Modular Co-ordination: RIBA Representative. O. C. F. Carey in place of C. C. Handiside, declined.

BSI Committee T1B/3: Definitions and Nomenclature of Timber: RIBA Representative. G. Newell.

Sheffield University Court of Governors: RIBA Representative. S. Elden Minns.

Birthday Honours

Among architects honoured in the Queen's Birthday list whose names did not appear in the recent JOURNAL announcement were Lieut.-Col. P. M. Hope (Knight); G. E. P. Jackson (CBE); H. F. Billimovin, E. Reilly and E. E. Hall (OBE), and R. W. Wardill and Edwin Pallett (MBE).

AA

American Architecture

Peter Trench, speaking in a discussion at the AA on June 23, following Denys Lasdun's lecture, *Impressions of American Architecture*, gave his impressions of the American building industry as the result of a recent brief visit to the United States.

"If I learnt anything in my few weeks in the United States," he said, "it is that you cannot apply American building methods to a single site in this country. The main thing that I brought back with me was an attitude of mind.

"Whatever the architectural derivation of the American up-ended matchboxes in glass and aluminium, if I had to pay 25s. an hour to a craftsman I should cut out all the frills, reduce site work to a minimum and get the builder to hell out of it as quickly as possible; and that is what is happening in the case of these big buildings in the United States at the moment.

"I wanted to find out how it is that the Americans can pay their craftsmen more than six times what we pay ours, and yet produce big buildings which may not be more than 25 per cent., and which are certainly not 50 per cent., more expensive than our own, and how they manage to build them so fast."

Mr. Trench said that the wages of craftsmen in New York were \$3.50 an hour; materials, with the exception of paints and timber, were slightly more expensive than in this country, while equipment such as cranes, was slightly cheaper. Salaries were high, but office overheads were not.

"My conclusions," he said, "were these. The high cost of labour has forced the industry to mechanize, and there has been a drift away from site work to prefabrication in the factory. Mechanical equipment is not expensive, and individual output is high. The operations are well planned down to the bottom level. I can say categorically and with some feeling that the individual worker works harder than he does here. Their site organization is first-class, with an abundance of supervisors, and trained engineers instead of general foremen. The philosophy of speed pervades all sections of the industry, and if a foreman or sub-contractor is held up he uses choice language to make sure that more work is released to him, because to him time means money, and money means more pay all round."

The American building industry, said Mr. Trench, worked a 40-hour week with no overtime. Overtime was at double rates, and builders preferred to work a double shift rather than pay it. The sub-contractors were organized to the nth degree, and the builder had full control over them. If bad weather was encountered protective measures were taken, and strikes were soon over and their effects counteracted by putting more men on the job. The specialist trades were brought into the building much earlier than would be the case here. The site seemed overcrowded with men, but they avoided getting in each other's way because the job had been planned from top to bottom.

The operative worked fast because the industry was a highly paid and highly respected one and could recruit good men; the tempo of the national life was fast, and there was a fear amongst craftsmen of being replaced in a well-paid job. Individual specialization had been brought to a fine art, for example, there was a man called a "goulasch man" who spent his day levelling concrete. Their plant was bigger and faster than ours.

"Lastly," Mr. Trench remarked, "American architects understand the builder's requirements: but there is no veiled hint there!"

He had expected to find everything planned to the last degree, but that was not always so; many jobs were done on a fee system. There was, however, extraordinary co-operation between builder and architect, and the builder was never left waiting for information.

Felix Samuely, who also spoke during the discussion, said that in the United States he had found two types of university course for architects. One was a four or five year course, similar to that at the AA, and the other a four-year course for those who already held a degree, making a total period of study of eight years. The degree course might be in some general subject such as geography, but there was a movement on foot to have six- to eight-year courses in architecture.

American architectural students, he found, were more individualistic and anxious to try things out than students in this country. They did not learn how to do things, such as detailing, but spent their time dealing with ideas. When, however, the student left the university and had been in practice for two or three years he seemed to turn right round and thought only of one thing, how to make money. He wanted to use the same sort of details that someone else had used, to avoid spending time and money on developing anything new. Apart from a few brilliant people, things seemed to be fairly stagnant over there; "But," Mr. Samuely said, "I was only there for a few days and may have got entirely wrong impressions."

P. J. Marshall suggested that one of the great problems of architecture today was the creation of a good vernacular, and American architects did not seem to be getting much nearer a solution. The architects with whose work Mr. Lasdun had

been principally concerned, such as Mies van der Rohe, had created very fine monuments, but not a vernacular.

C. T. Sturgis said that in the neighbourhood of Chicago, which he had visited, there seemed to be a complete absence of a vernacular, and he thought that the Americans would be proud of it. He felt that some of Mies van der Rohe's buildings were terribly strained, and while they might be excellent for a monastery, when one met them every day in the street they were rather dull.

(ASTRAGAL writes about Denys Lasdun's talk on page 1.)

RSA

C. H. Aslin talks about School Design

On May 19 C. H. Aslin gave the Alfred Bossom Lecture at the RSA; its title was "The Design of New Schools."

Mr. Aslin began by reminding his audience of the "sweeping changes" which followed the 1944 Education Act; an Act which had imposed the obligation of providing secondary education for all at an annual building cost of £50 million. He mentioned the close co-operation between architects and those concerned in education in the elucidation of "requirements," and drew attention to the Ministry's own building ventures from which fruitful and realistic guidance had been derived. Mr. Aslin then discussed new building techniques, their great contribution to the speed of construction and their smaller contribution to the cost problem.

"It might be appropriate," he said, "to supply a little more information as to what is meant by 'new techniques,' and what connection they have with the present school building programme."

"In this age of highly developed mechanization it would appear to be appropriate that the building trade should gain some advantage from such an outlook, and remove itself from the position of having to work under conditions which are probably worse than those in any other industry. Buildings are necessarily constructed in the open air, and labour and materials suffer from the variations in weather conditions with the general discomfort arising from these circumstances, especially when compared with the comfort and high efficiency which can be gained by workmanship in well heated and lighted factories. It was, therefore, considered that the way to rationalize building construction was to manufacture in comfortable and, therefore, more efficient conditions, as many parts of a building as possible, leaving as little time to be spent as is practicable on the actual site.

"The introduction of this method of re-organization of the building industry ties up quite naturally with this large educational programme, because it would be quite impossible to put it into effect without a large and continuing volume of work to be placed in the hands of manufacturers, who could be persuaded that such rationalization was not only sensible, but a good business proposition. This approach to building has been used almost imperceptibly during the last fifty years, and commenced with specialists making such things as joinery, standard windows, and indeed standard everything which could produce the goods as well or better than the individual builder, and at a price which was attractive. It is only a small step from this natural development to an attempt to rationalize the whole building and to produce a condition where most of the materials needed could be pre-made and transported to the appropriate site where they were in fact needed.

"This method has another very important

and attractive result in that new labour, as an additional force to the building industry, is provided in factories, and this new labour is also provided on sites, if the people who make the various parts also fix their goods in the building. This method has been loosely referred to as prefabricated as opposed to what is again loosely called traditional methods of building, but if the matter is looked into more deeply I am sure it would be agreed that this approach is appropriate to the mechanized age in which we live, and ultimately will be seen to fall into a pattern of a continuing tradition.

"Another result of this approach is the high degree of co-operation required between manufacturers, engineers, and architects, which results in better design, more economical production, and a very large elimination of waste which has always been associated with the industry. In the past both labour and materials have been relatively cheap, and there has been no real incentive to economize or to make much attempt, if any, at eliminating wasteful design, and it seems clear that under modern conditions, more and more mechanization must be introduced into building operations, in order to reduce costs and increase production. This will become increasingly necessary as costs of labour and raw materials continue to rise; indeed in a modern community the tendency is to aim at higher standards of living for all, and the cost of labour must always tend to increase so it is essential to use more rationalized methods in building, so that building prices will not continue to rise, indeed if they do, it is inevitable that a position will arise where the client, whether it be the public or private individuals will be compelled to restrict building, with consequent disaster to the building trade."

Mr. Aslin then contrasted the old "architectural compositions" approach to school design with the present idea in which "appearance grows out of planning for use," and in which we are more sensible of the children's scale. He next considered changes in the profession brought about by emergence of government and local authority as the major "clients." Previously it consisted mainly of assistants whose knowledge was gained through experience and who had small choice but to work as the staffs of qualified private practitioners.

"The position now, however, is vastly different, and almost all young architects enter the profession already qualified architects by examination, and they are able to act in their various degrees as fully qualified members of the profession from the moment they start. Their training and ability are naturally quite different from those of the people in the past who were content to act as assistants to qualified architects, and this fact creates a new problem in the profession as to how they should be remunerated.

"It is quite clear that none but a tiny proportion of those who enter local government service can hope to obtain the better paid and more responsible posts, but it is clear that by virtue of their training and qualities they ought to be paid at a higher rate than that which has, in the past, been offered to the assistant working under the immediate direction of a qualified architect. Some method must be discovered of appropriately rewarding architects in this new pattern, which as far as one can possibly say that anything is permanent, appears to have come to stay, because there is no reason to suppose that in a community which is largely controlled by the central government, it is difficult to believe that in a reasonable space of time we shall get back to an economy which is even largely controlled by private enterprise."

Mr. Aslin concluded his address by discussing and illustrating examples of recent school buildings.

BBC

White City TV Centre

A correspondent writes the following report of progress at the BBC television centre, White City, which the Press visited last week.

"The scenery block which forms a quasi-independent part of the BBC television centre is now complete. It cannot have been an easy planning problem. It contains accommodation of greatly varying size and in the nature of the case it was not possible to draw up a firm programme in advance. In the basement there is the boiler house, the electrical power rooms, and the main scenery and props storage space. There is also a scenic artists' studio which rises 65 feet from the basement floor level to approximately first floor level. This has a floor about halfway up stopping clear of the walls and in the gap so formed the painting frames may be raised and lowered electrically for the artist to get to any part of his canvas from the floor. (This is illustrated on the right.—Ed.)

"The ground floor contains the carpenters' and property makers' workshops and a setting space 25 feet high in which the sets are tried out in full assembly before being dismembered and carted across to the studios. To move large sections of scenery up from the basement there is an electrically-operated hydraulic lift 30 feet \times 19 feet \times 15 feet high, capable of taking a lorry.

"The first and second floors consist mainly of some 200 offices for producers, designers and administrative staff. The second floor is additional to the original conception, but some of this accommodation will be transferred to the studio block when that is built (it is hoped in about two years time).

"The structure is of concrete-encased steel framing with "pot" floors and solid r.c. floors (under the heavier loadings). External walls are of 12-in. cavity with brownish-biscuit coloured facings. The frame of the scenic artists' studio has 65 feet long pre-stressed monolithic columns, and over the setting space there is a multiple barrel roof.

"Heating is by oil-fired steam boilers which feed the hot water radiators through calorifiers. Certain parts of the building, such as the setting space, which cannot so easily be served by radiators, have unit heaters with fan distribution.

"Doors generally are hardwood faced but there are few extravagant finishes in the building, and, in many parts, electrical conduit has been left exposed."

DIARY

BRS Exhibition. The exhibition prepared by the BRS for the British Architects' Conference, Torquay. At the RIBA, 66, Portland Place, W.1. JULY 3 TO 17

The Production Exhibition and Conference. The Institution of Production Engineers. At the National Hall, Olympia.

JULY 7 TO 14

Conference of Building Trades Employers. At the Building Department, LCC S.E. London Technical College, Worsley Bridge Road, Lower Sydenham, S.E.26. 2.30 p.m. JULY 12

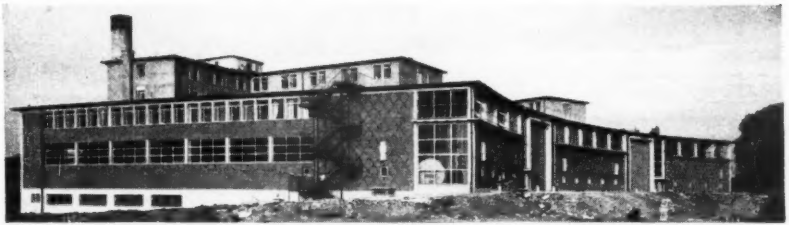
Exhibition of Students' Work. At the AA. 34, Bedford Square, W.C.1. Monday to Friday: 10 a.m. to 6 p.m. Saturday: 10 a.m. to 2 p.m. JULY 17 TO 29

AUGUST 4 TO 14

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

UNTIL SEPTEMBER

BUILDINGS IN THE NEWS

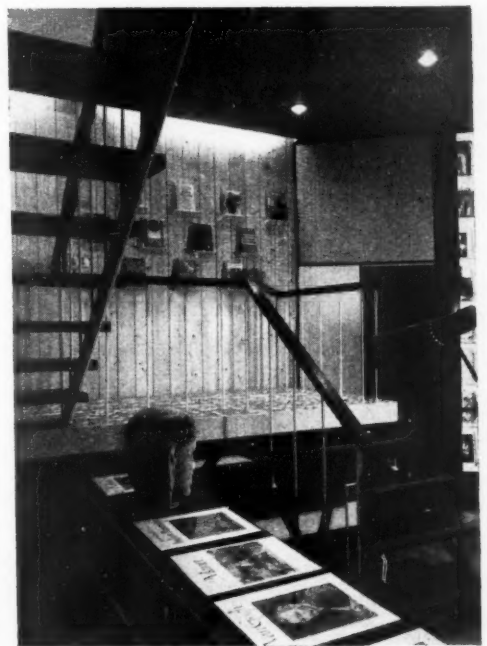


Scenery Block, BBC Television Centre

The scenery block of the BBC Television Centre, at White City, is now complete. In the top picture the concave wall on the right faces the site of the future studio block. Below it is the scenic artists' studio, looking down from the gallery. A correspondent writes about this scheme on this page—top left. Architect: Graham Dawbarn, of Norman and Dawbarn, in association with M. T. Tudsbery, consulting civil engineer to the BBC.

Better Books' Shop

The premises of Better Books Ltd., at 94, Charing Cross Road have been extended by conversion of a dilapidated storage basement, and the ground floor area has been partially redecorated. The designers were Ronald Ingles and Vaughan Davidson. The redesigned basement is seen in the photograph, right. The new staircase has treads and hand rail of polished hardwood and a half landing which has a floor surface of black, white and red vitreous mosaic.



BUILDINGS IN THE NEWS (continued)

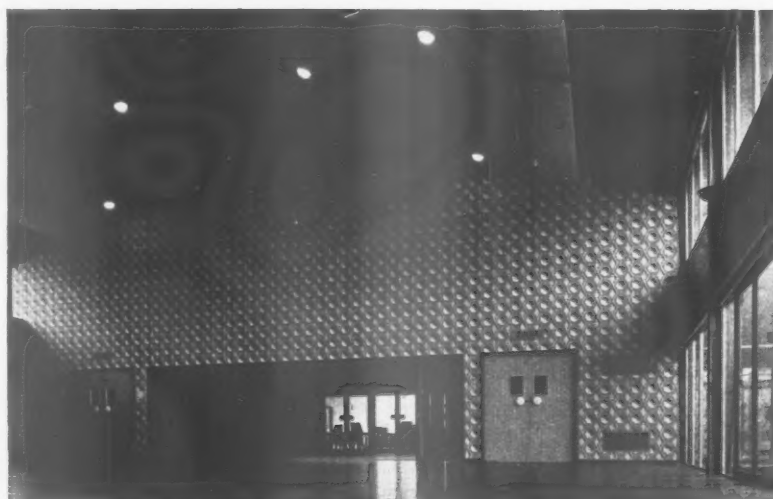
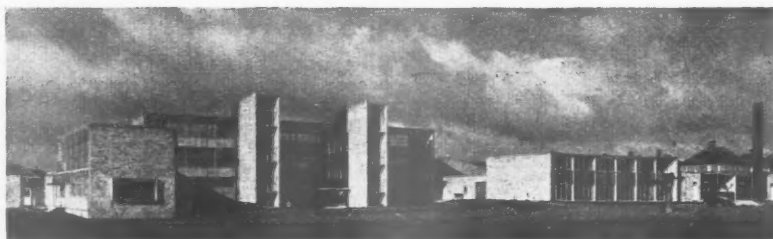


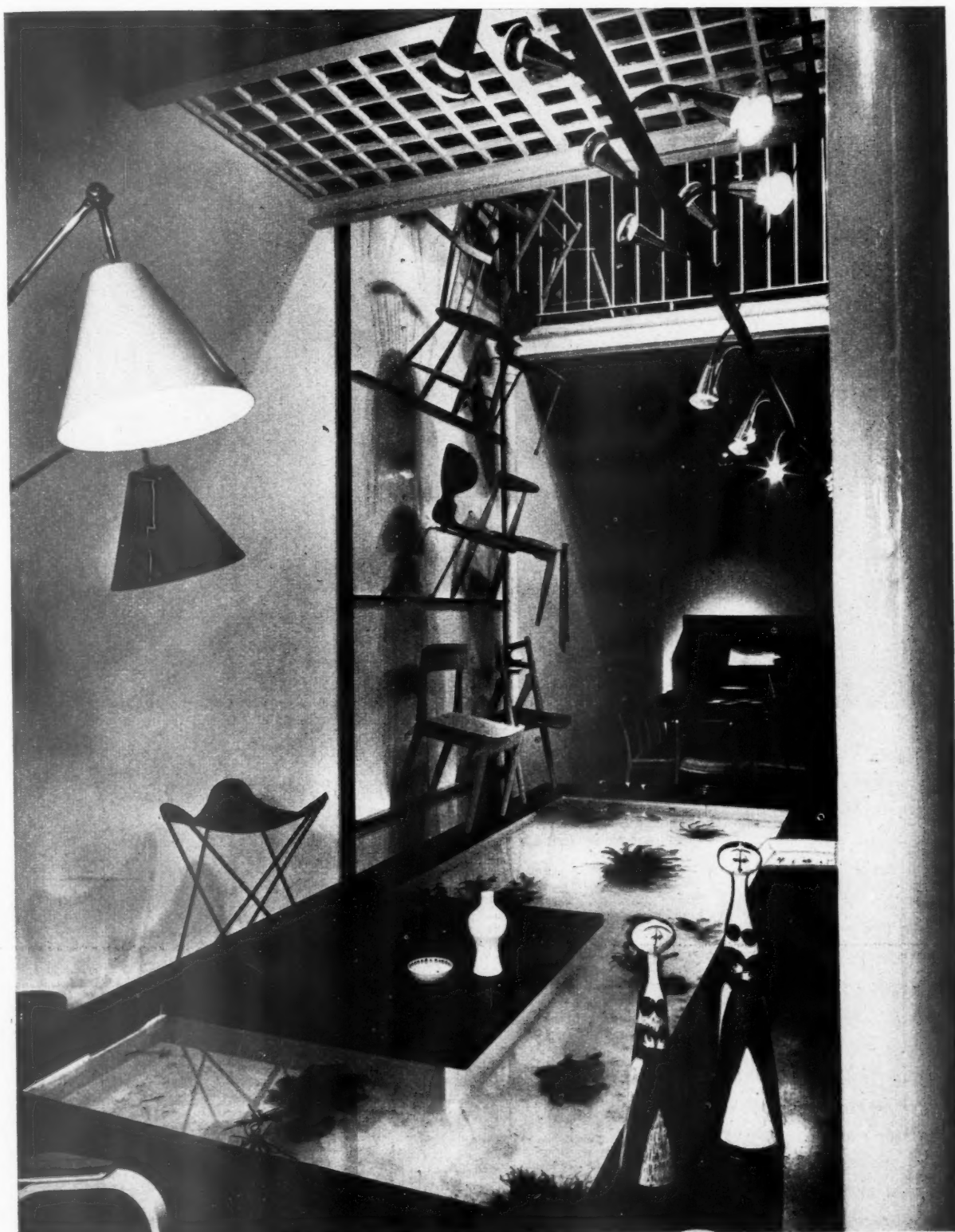
Comprehensive School, Kidbrooke, Blackheath

The Kidbrooke Comprehensive Secondary School in Coselli Road, Blackheath, S.E.3, is the first of several comprehensive schools being built for the LCC. It was designed by Slater, Uren and Pike. It is expected that when the school opens next September there will be about 1,700 pupils, but it is designed for approximately 2,000, all girls, and will be divided into eight "houses," each with its headmistress. There is an assembly hall to seat over 1,400, with a 3-in. thick shell concrete roof spanning about 114 ft. by 73 ft., designed by the consulting engineers, Ove Arup and Partners. Costs are estimated at £560,000, plus £55,000 for furniture and equipment. The school will be illustrated fully in a later issue of the JOURNAL. The general contractors are Gee, Walker & Slater, Ltd.

Secondary School, Sheffield

The Colley Secondary School, built by the City of Sheffield, was designed by Basil Spence and Partners, in collaboration with H. Bennett, County Architect, West Riding of Yorkshire. The school, whose assembly hall is seen below the general view, was opened on June 19. It is one of five schools built recently to accommodate children from the large Colley Estate in the Ecclesfield area of the Wortley RDC. Single-storey, two-storey and three-storey blocks are grouped to form a series of open courts. Most of the rooms are the full width of blocks, allowing windows on two sides looking out over the open courts. The school will be illustrated in a later issue of the JOURNAL.





Showroom for Finmar

This wholesale showroom for Finmar Ltd., at 26, Kingly Street, was designed by Fello Atkinson, of James Cubitt and Partners. The architect says that the building, which was originally a textile warehouse, "had a forthright architectural charm which we tried to preserve." He designed the showroom so that the exhibits "can be seen together and also as individual objects." The scheme will be described in a later issue.

PROPOSED COLLEGE OF ART, TECHNOLOGY



The proposed College of Technology, Art and Commerce on Headington Hill, Oxford, was designed by E. G. Chandler, City Architect and Planning Officer, M. H. G. Blackman, Deputy City Architect; D. Murray, principal assistant, and E. J. Billington and J. B. Anderson, assistant architects. The photograph of the model, seen above, shows the whole scheme from the north-east. On the opposite page are ground and first-floor plans. The foundation stone of the College was laid recently by Viscount Nuffield. The site, which is almost level, is situated east of Magdalen Bridge on high ground in a pleasantly wooded area approximately one mile from the city centre. The total site area is 35 acres, of which 13 acres will be occupied by the College and the remainder divided equally between two Technical Secondary Schools. One of these Technical Schools, which is not illustrated here, is nearing completion and the workshop block, a single-storey block seen bordering the far side of the site in the model photograph, was begun in September, 1953. The contract period for this block is 21 months and the lowest tender received was £239,000. A further expenditure of approximately £60,000 will be required to equip this building. The first instalment consists mainly of laboratories and workshops for engineering and building, with a small number of lecture rooms, drawing offices and also a canteen and students' common room. The workshop block has a reinforced concrete barrel vault roof and there are 18 bays each 27 ft. by 100 ft. divided centrally by columns, thus giving two large uninterrupted floor areas 50 ft. by 486 ft. long. The block is sub-divided by light non-load bearing wood-cement partitions. Classrooms and cloakrooms are planned along the east side of the workshops, separated by a corridor. This section is designed to have a light steel frame, with a roof of wood-wool slabs covered with bituminous felt. There will be 900 places for students in the workshop block and approximately 4,000 in the completed scheme. The consulting engineers are Donald Smith, Seymour and Rooley; the quantity surveyors are Henry Cooper & Sons.

KEY

1. Medical room
2. Men's lavatory
3. Women's lavatory
4. Classroom
5. Common room
6. Dark room
7. Study
8. Library
9. Librarian
10. Exhibition gallery
11. Balcony
12. Art gallery
13. Art study
14. Art library
15. Art lecture room
16. Men's common room
17. General common room
18. Games room
19. Staff locker room and lavatories
20. General staff room
21. Sales
22. Women's common room
23. Women's staff room
24. Book-keeping
25. Display
26. Textiles laboratory
27. Cleaner
28. Bakery
29. Food laboratory
30. Food technology
31. Teacher of Bakery
32. Flour confectionery
33. Commodities
34. Painting studio
35. Antique studio
36. Weaving
37. Fabric printing
38. Cabinet making machine
39. Cabinet making hand
40. Store
41. Advanced electricity and magnetism
42. Elementary electricity and magnetism
43. Head

KEY—

44. V
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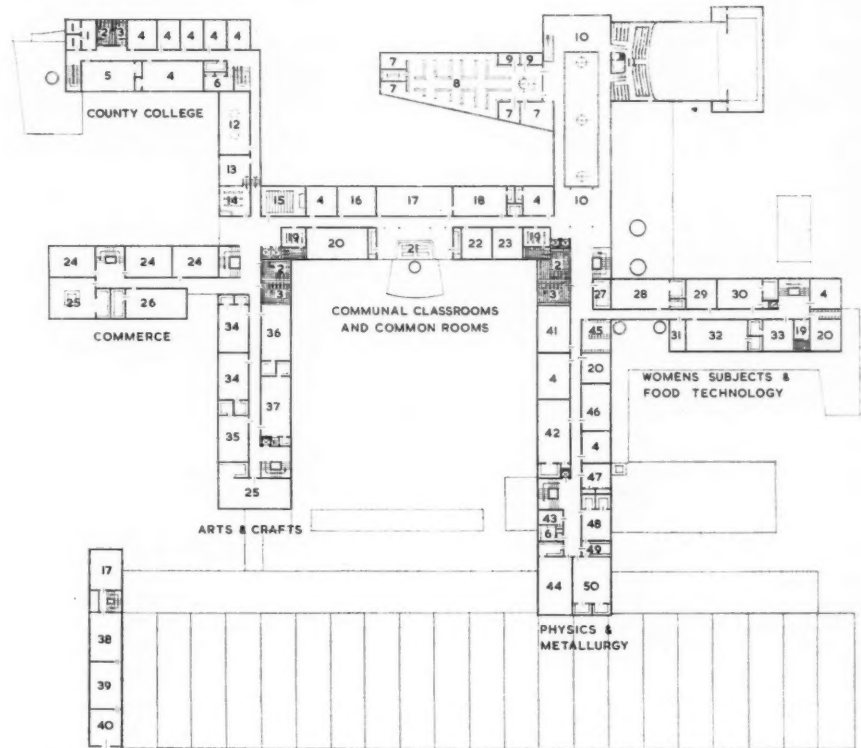
GY AND COMMERCE, HEADINGTON HILL, OXFORD

KEY—continued

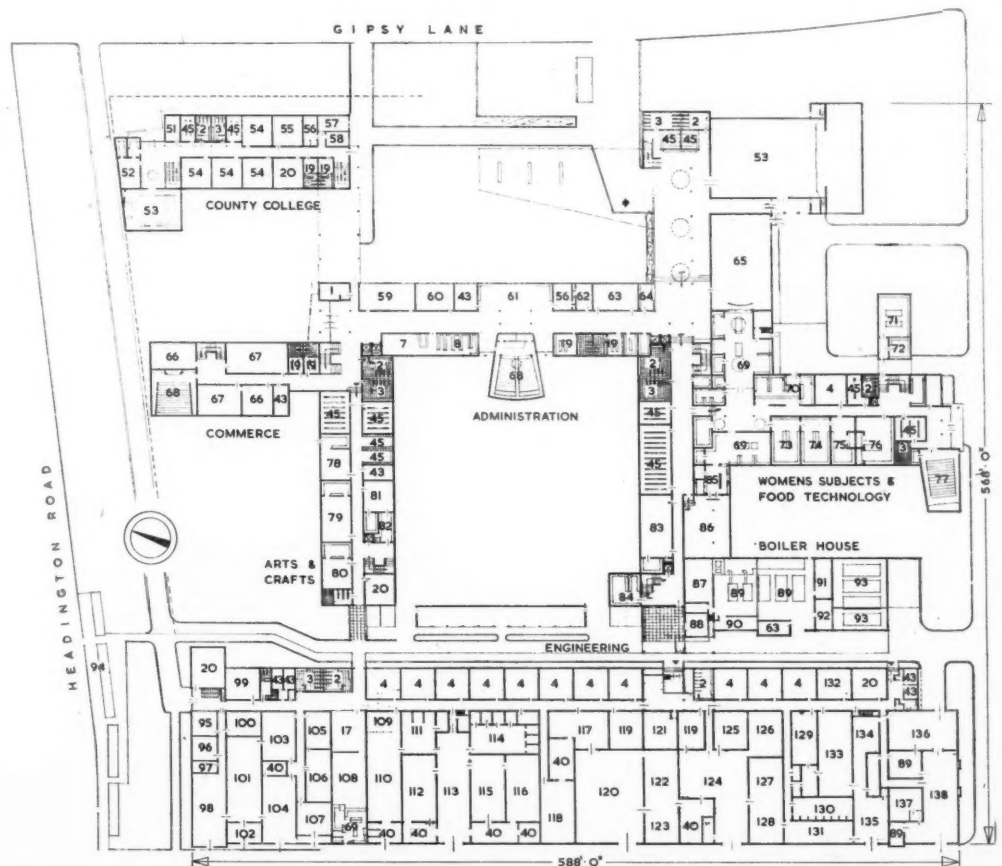
- 44. Wet laboratory
- 45. Locker room
- 46. Plastics laboratory
- 47. Store and workshop
- 48. Metallurgy research laboratory
- 49. Microscopes
- 50. Physical metallurgy laboratory

GROUND FLOOR

- 51. Youth leader
- 52. Interview room
- 53. Assembly hall
- 54. Tutorial room
- 55. Staff work room
- 56. Secretary
- 57. Principal
- 58. Deputy principal
- 59. Committee room
- 60. Board room
- 61. Concourse
- 62. Registrar
- 63. Office
- 64. Porter
- 65. Refectory
- 66. Shorthand
- 67. Typewriting
- 68. Lecture theatre
- 69. Kitchen
- 70. Bulk store
- 71. Laundry
- 72. Linen
- 73. Pastry preparation
- 74. Larder
- 75. Vegetable preparation
- 76. Kitchen small stores
- 77. Demonstration room
- 78. Stone carving
- 79. Modelling
- 80. Casting
- 81. Pottery
- 82. Kiln room
- 83. Elementary mechanics and heat laboratory
- 84. Acid bulk store
- 85. Servery
- 86. Training restaurant
- 87. Pump room
- 88. H.T. transformer room
- 89. Boilers
- 90. Calorifiers
- 91. Workshop and store
- 92. Oil equipment
- 93. Oil storage tanks
- 94. Cycle racks
- 95. Monotype keyboard
- 96. Monotype caster
- 97. Metal melting
- 98. Composing
- 99. Photography
- 100. Linotype
- 101. Letterpress machine room
- 102. Paper store
- 103. Lithography
- 104. Binding
- 105. Layout
- 106. Etching
- 107. Metalwork
- 108. Canteen
- 109. Masonry
- 110. Brickwork
- 111. Plastering
- 112. Plumbing
- 113. Erection bay
- 114. Painting and decorating
- 115. Carpentry
- 116. Wood machines
- 117. Pattern making
- 118. Foundry
- 119. Drawing office
- 120. Agricultural engineering
- 121. Metrology
- 122. Automobile engines
- 123. Automobile electrics
- 124. General workshop
- 125. Sheet metal
- 126. Advanced machine tools
- 127. Forge
- 128. Welding
- 129. Advanced electrical technology
- 130. Electrical installations
- 131. Heat treatment
- 132. Electrical research laboratory
- 133. Electrical power
- 134. Structures
- 135. Materials
- 136. Fluids
- 137. Fuel technology
- 138. Heat engines



First floor plan



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

SHOWROOMS

1. at 4 STRATFORD PLACE, LONDON, W.1.

designed by SERGEI KADLEIGH, assistant architect, MICHAEL LYELL

consulting engineer, LAURENCE KENCHINGTON, quantity surveyor, LESLIE NEWTON

2. at 66 BAKER STREET, LONDON, W.1

designed by DOUGLAS STEPHEN and PARTNERS

The conversion of premises in Stratford Place, for Federated Foundries Ltd. provides offices and display areas for the firm's products. In the basement there is an exhibition boiler room and on the ground floor, architectural ironwork, rainwater goods, cookers, sanitary fittings and illustrations of heavy machinery and shipbuilding are shown. The newly-designed entrance includes an enquiry office and a new passenger lift. The upper floors have been converted for office accommodation.

Main showroom on the ground floor at Stratford Place.

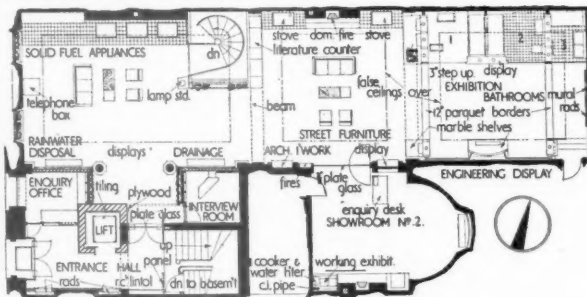
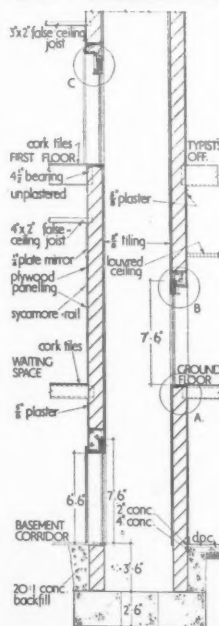
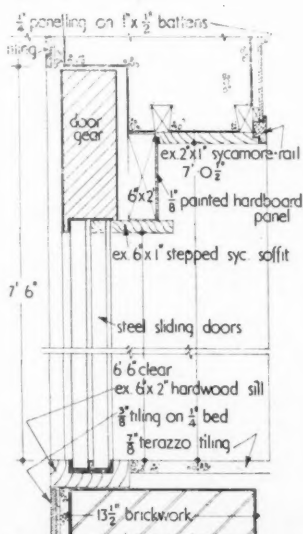
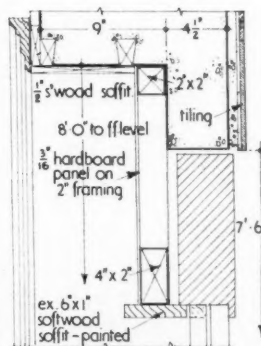




Newly constructed lift and lift shaft.



Ground floor entrance to showroom.

Ground floor plan [Scale: $\frac{1}{8}'' = 1' 0''$]Part section through lift shaft
[Scale: $\frac{1}{16}'' = 1' 0''$]Details A and B [Scale: $1'' = 1' 0''$]

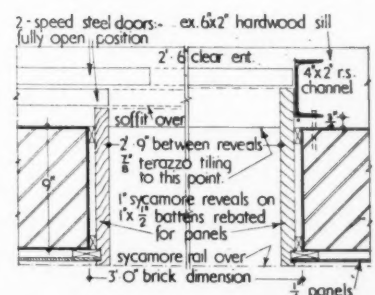
Detail C

GENERAL.—The main item of construction was a new lift shaft, built of $13\frac{1}{2}$ -in. brickwork up to second floor level and 9-in. brickwork above. The lift car has doors on two sides and the inside of the shaft has been lined with glazed tiles front and back. Other items of structural work include a new reinforced concrete floor over the boiler room, and steelwork to support the ceiling panels over the ground floor. These ceiling panels, seen in the photograph opposite, contain cold cathode lighting tubes behind egg-crate louvres and metal heating panels. (See Working Detail in February 11 issue.) The contract price was about £30,000.

The general contractors were John S. Parker (Contracts) Ltd. Sub-contractors, page 30.

SHOWROOMS

1. in STRATFORD PLACE, W.I.
designed by SERGEI KADLEIGH



Plan of ground floor entrance to lift

SHOWROOM

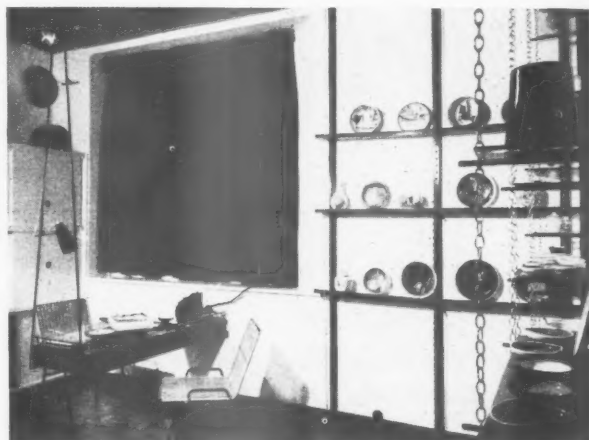
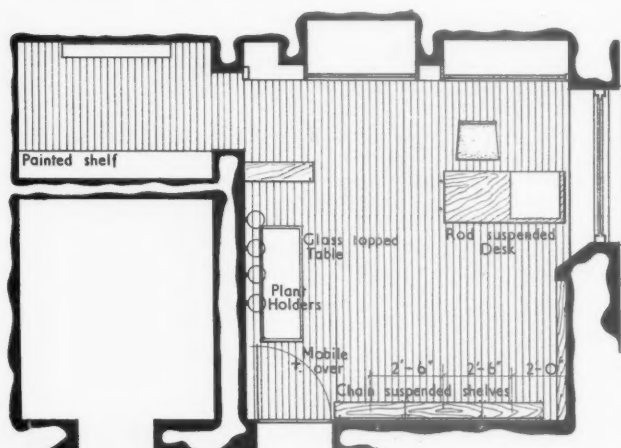
2. in BAKER STREET, W.1
designed by DOUGLAS STEPHEN
and PARTNERS

GENERAL.—The showroom for Briglin Pottery Ltd. in Baker Street had to be designed in an existing basement, which could not be altered to any great extent. All fittings, shelving, cupboards, etc., have been kept light in character, and where possible, suspended from the ceiling so as not to obstruct the

limited floor space available. Glass display shelves are carried on black stove-enamelled steel rods which are held by mahogany members fixed to the walls and by brass chains hung from the ceiling. This enables the shelf heights to be simply and quickly altered when necessary. All plaster surfaces are painted; the walls are matt white and the ceiling is green. The contract price was approximately £400.

The general contractors were Ruddock & Co. (Shopfitters) Ltd. Sub-contractors on page 30.

Views of the Baker Street showroom, which contains glass shelves suspended on steel rods and brass chains. The desk, of Cuban mahogany, is suspended on black stove-enamelled steel rods and has a glass top. Storage units are of soft-wood painted. The mobile was designed by Willi Landels.



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WORKING DETAIL

LIGHTING: 8

LIGHTING IN GENERAL OFFICE: SHOWROOMS IN LONDON, W.1

Dennis Lennon, architect



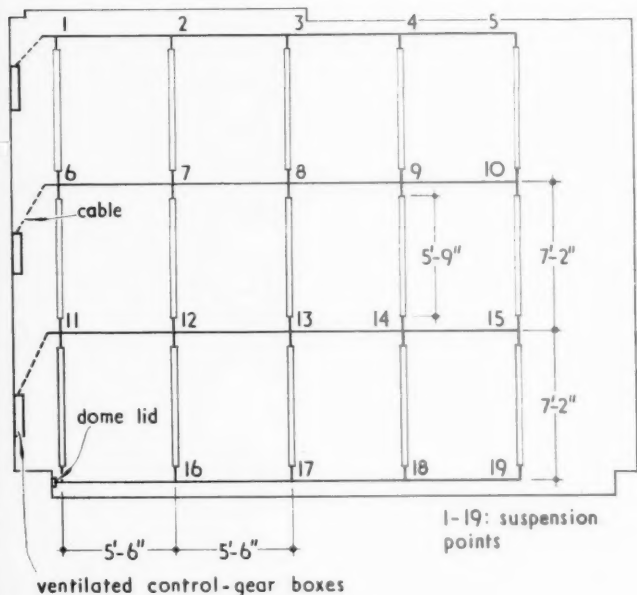
The leads are run through the 1 in. o.d. steel tubes which form the structural frame supporting the reflectors. The reflectors themselves are rustproofed and stove-enamelled, the colours being pale turquoise-blue, orange-scarlet, pale yellow and white.

WORKING DETAIL

LIGHTING IN GENERAL OFFICE: SHOWROOMS IN LONDON, W.1

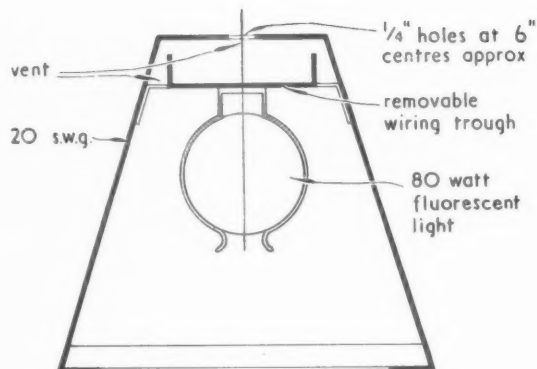
Dennis Lennon, architect

LIGHTING: 8

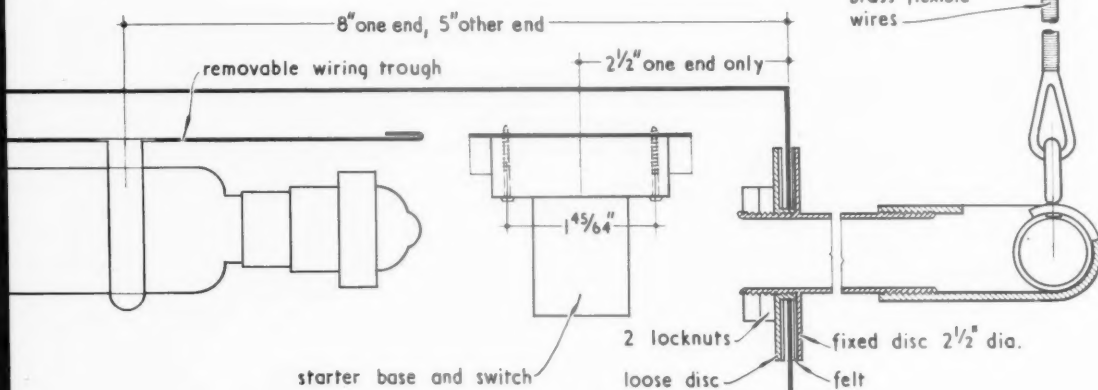


KEY PLAN.

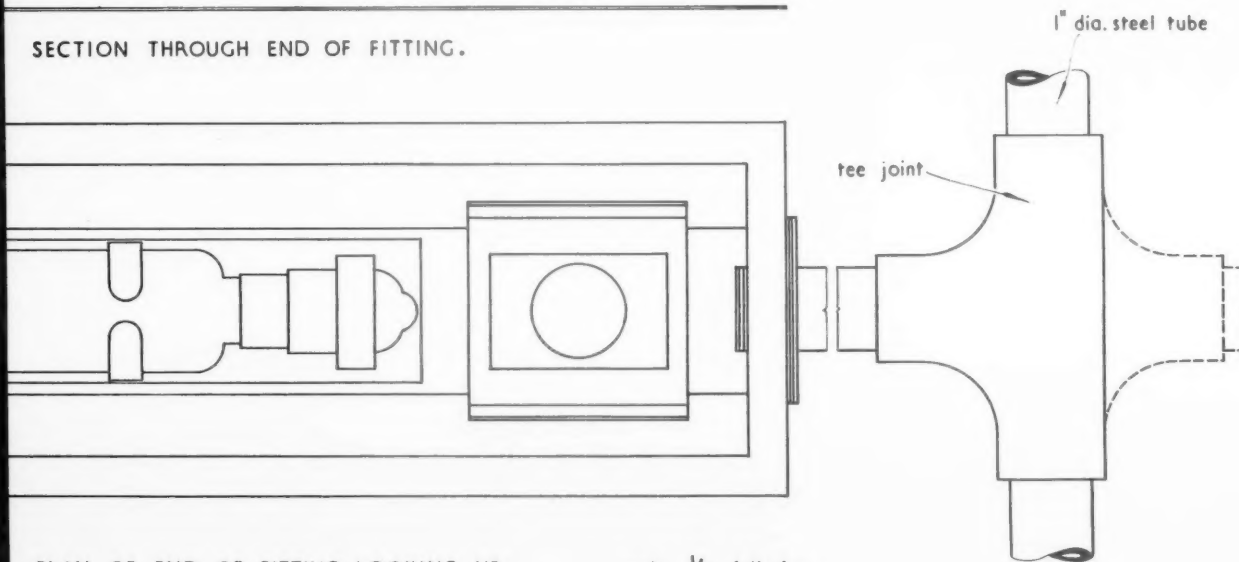
scale $\frac{1}{8}'' = 1'-0''$



SECTION ACROSS FITTING.



SECTION THROUGH END OF FITTING.



PLAN OF END OF FITTING LOOKING UP.

scale $\frac{1}{2}$ full size

WORKING DETAIL**WALLS AND PARTITIONS: 15**

LIFT ENCLOSURE: OFFICES IN LONDON, S.E.1

John Lacey, architect; C. F. Timothy, associate architect; F. J. Samuely, consulting engineer

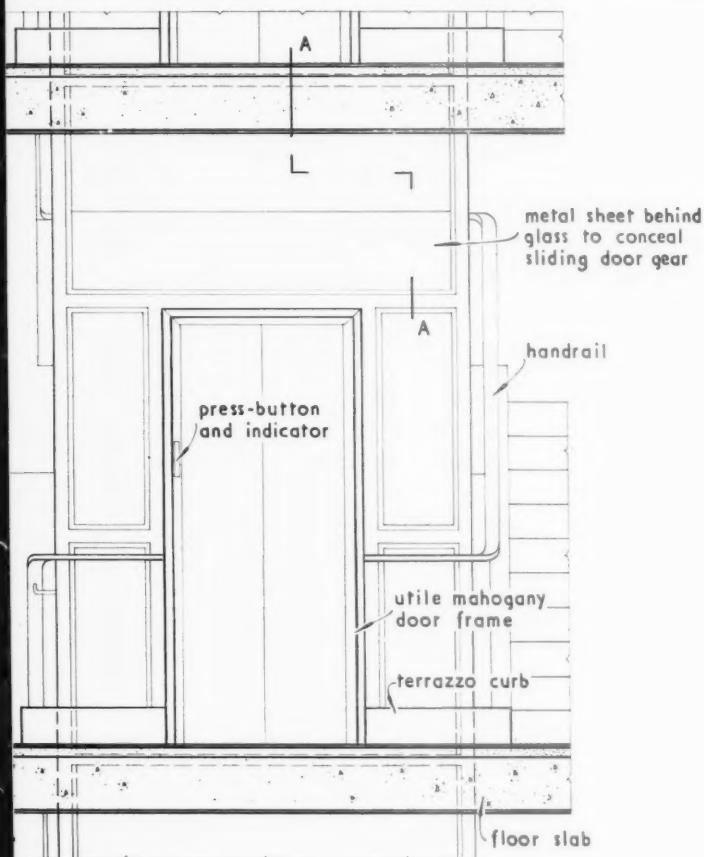
The lift enclosure is contained within a welded steel frame, the main vertical members of which are $\frac{3}{8}$ in. angles. The subsidiary members are $\frac{1}{2}$ in. channels with the exception of the horizontal band at each floor level, which is a box-section built up of two $\frac{1}{2}$ in. angles welded along their edges, a third angle being added on the door side to support the threshold. The glazing is held by $\frac{3}{4}$ in. \times $\frac{3}{8}$ in. mild steel beads screwed to $1\frac{1}{2}$ in. \times $\frac{7}{8}$ in. \times $\frac{1}{2}$ in. steel T-sections, which in turn are screwed to the main structure.

WORKING DETAIL

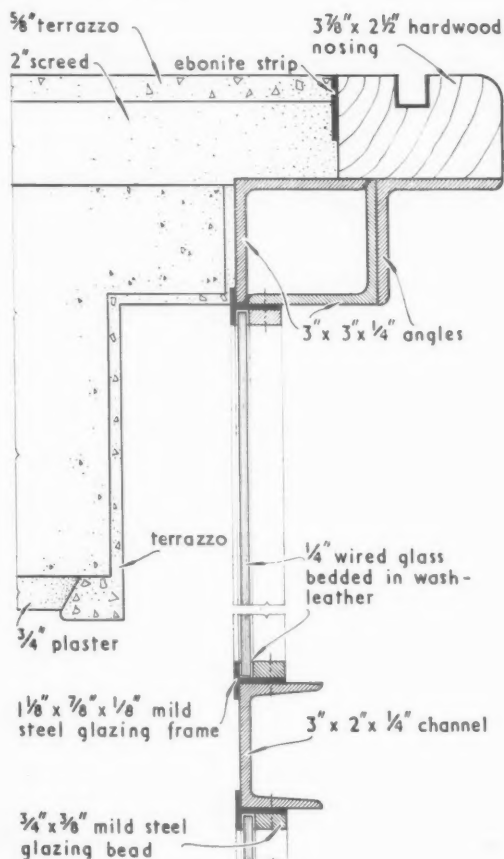
LIFT ENCLOSURE: OFFICES IN LONDON, S.E.1

John Lacey, architect; C. F. Timothy, associate architect; F. J. Samuely, consulting engineer

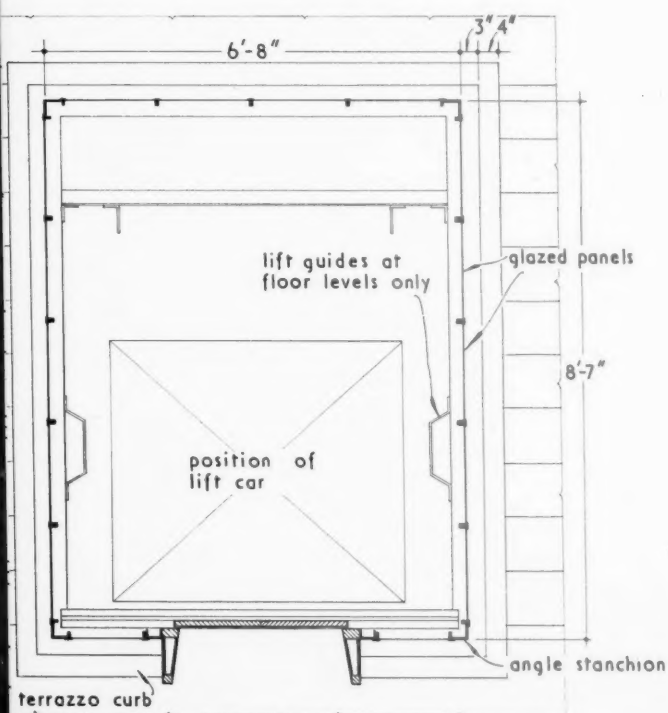
WALLS AND PARTITIONS: 15



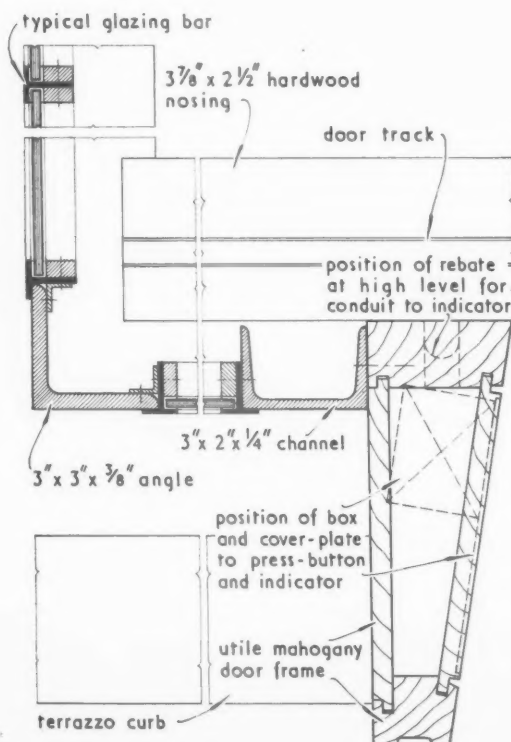
ELEVATION.



SECTION A-A.



HORIZONTAL SECTION. scale $\frac{3}{8}'' = 1'-0''$



DETAIL OF ANGLE AND DOOR FRAME. scale $\frac{1}{4}''$ full size

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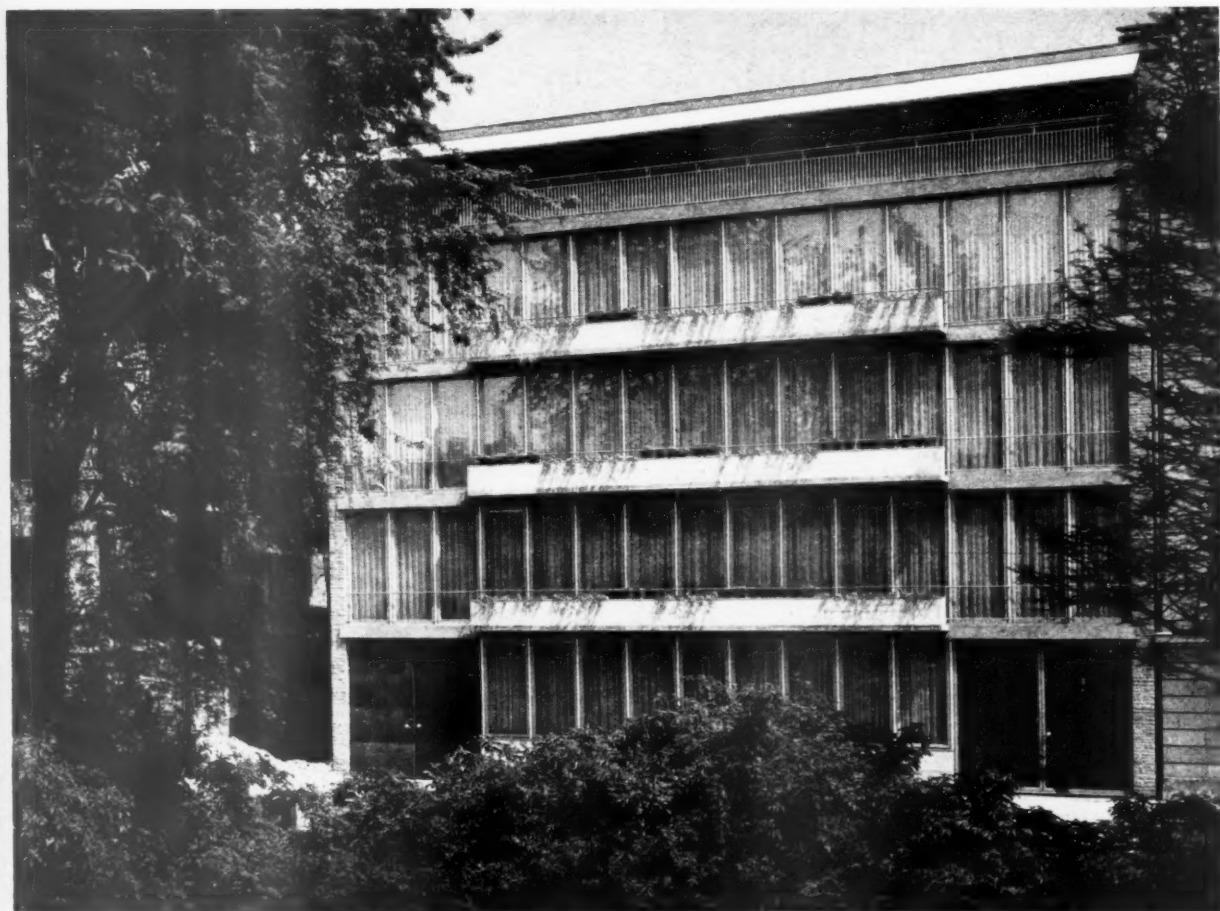
OFFICES

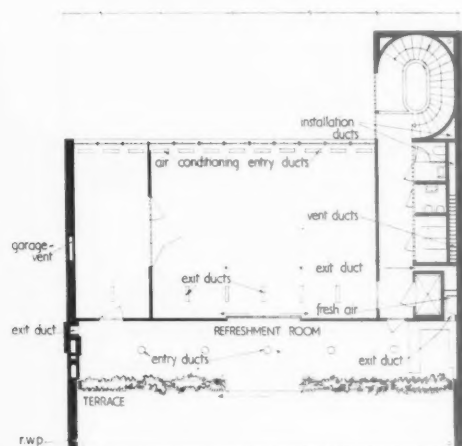
in DUSSELDORF, GERMANY

designed by BERNARD M. PFAU

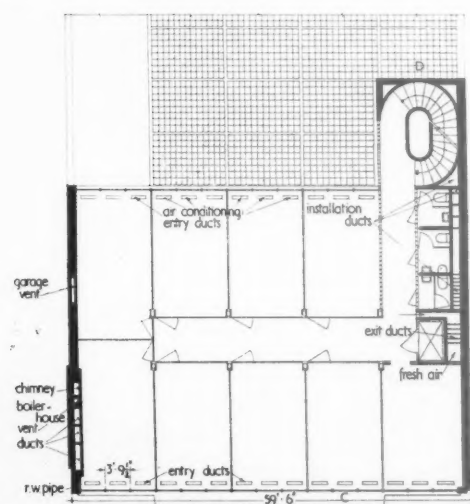
This office building in Dusseldorf has been built as an administrative centre for the German glass industry and accommodation is provided in it for the various branches of the industry. The clients wished to demonstrate that the possibilities of glass were not being fully exploited in current architecture and that the use of glass must be related to a correct use of constructional elements.

The street facade and main entrance.

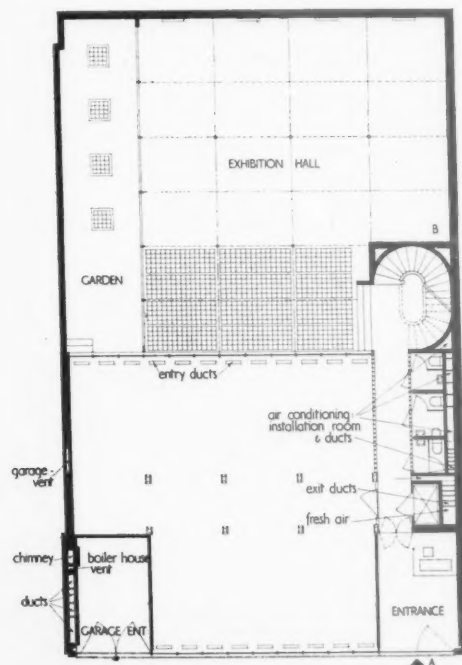




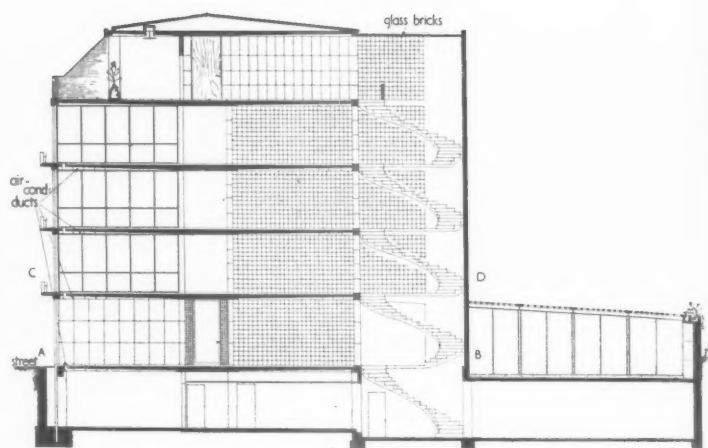
Fourth floor plan showing conference rooms next to refreshment room



Typical upper floor plan, containing office accommodation



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



Sections A-B and C-D

GENERAL.—The basic elements of the building are two side walls and two rows of four steel columns, placed either side of the central office corridor, which occurs on the first to third floors. The reinforced concrete floors are cantilevered out from these columns to the front and back walls and are tapered. Glazed walls to the street and to the garden at the rear have only subsidiary supports, strong enough to carry the glass and window frames. Due to the tapering of the r.c. floors the underside of the concrete slopes upwards from the central column supports towards the front and back walls. The space formed is used for air conditioning ducts, lighting, sunblinds and curtain tracks. The entire floor area at each level may be left open or divided by movable partitions. These glass partitions have

Below, looking into the conference room, which is the main room on the fourth floor. To the left of this room is a small conference room.





frames of flat metal and thin wooden strips which, when two are screwed together, are only $\frac{3}{4}$ in. thick. The construction of the partitions provides a groove back and front in which telephone, wireless, and electric bell flexes can be fixed. Partitions can be moved to different positions by "non-experts." Windows are entirely double-glazed; the inner leaf is movable for cleaning purposes; otherwise windows are kept permanently closed as the whole building is air-conditioned. They are sealed with rubber in the same way that aeroplane windows are fixed. The air-conditioning is designed so that it is most effective just inside the windows and not, as

is more usual in Germany, towards the centre of the building. To reduce noise, glass fibre mats are placed under floating floors, which rest on the r.c. structural floors. Most of the partitioning, except around the corridors, is of glass, the upper parts being of plate glass and the lower parts, below desk-top level, of opaque glass in various patterns. Lavatories are lit through walls of glass bricks. Walls of the two conference rooms are faced with dark brown plate glass. The conference room has a grey carpet and almond green curtains and in the refreshment room the walls and floor are covered with beige opaque glass.

OFFICES

in GERMANY

designed by BERNARD PFAU

Above, the conference room on the fourth floor looking into the refreshment room, on the right. Below left, the main entrance hall, looking towards the street. On the left the enquiry desk and extreme left, the lift door. Below, looking across the roof of the ground floor exhibition hall at the rear facade of the office block. On the left is the glass brick wall to the staircase.



HOUSE CONVERSIONS

1. at 4 THE CRESCENT, BEDFORD

designed by IAN WARWICK

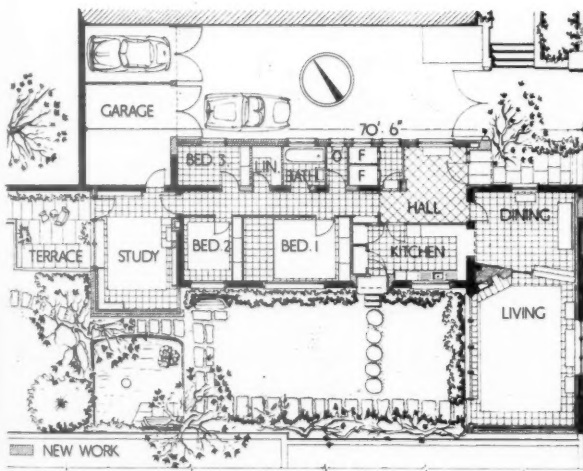
2. in HARLEY PLACE, LONDON, W.1

designed by GORDON and ELEANOR MICHELL

This conversion of single-storey outbuildings to an adjoining Georgian house in The Crescent, Bedford, provides a living-dining room, study, three bedrooms, bathroom, hall and kitchen. Because the site is small and narrow, every opportunity was taken to give long views through the house by the use of glass doors and a long corridor lit by skylights.

The north-west wall of the study in the house at Bedford.



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

GENERAL.—Construction is traditional: the new cavity walls have a brick outer skin and an inner skin of insulation blocks. Floors are of concrete, finished with thermoplastic tiles, laid in a diagonal pattern in the hall and corridor, to increase the apparent width. The provision of steps down from the dining area to the living room saved filling and concreting. A new window to the east allows morning sun to shine into the dining area. Roof beams in the living room are used to hang sanctuary lamps. Colours used include, in the living room, mushroom pink for walls, grey for beams, white for ceiling and paintwork, and azure blue for the floor. In the hall are yellow walls, a blue and white ceiling and a venetian red frame to the

glass shelves, where a collection of pewter is exhibited. Radiators in the living room and bedrooms are heated by water from a back boiler to the living-room fireplace. The general contractor was Joseph F. Cain. Sub-contractors on page 30.



Top left, the internal angle of the Bedford house. Top right, the main entrance from the north-east. Centre, view of hall and corridor looking towards the study. Above, living room fire-place, and dining area on the right.

HOUSE CONVERSION

1. in THE CRESCENT,
BEDFORD

designed by IAN WARWICK



Above, the west facade from Harley Place, before conversion.

HOUSE CONVERSION

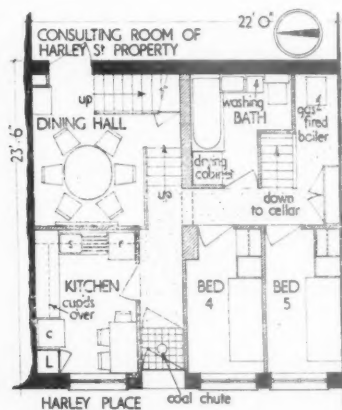
2. in HARLEY PLACE, LONDON, W. 1

designed by GORDON and ELEANOR MICHELL

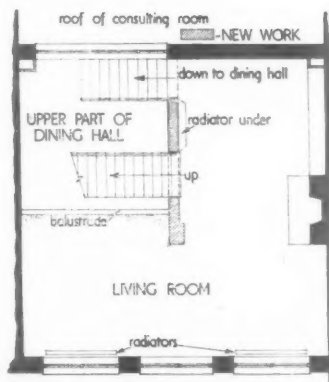
GENERAL.—Before conversion this mews property consisted of a carpenter's workshop over a double garage and an unlit basement. The client wished



Above, the rebuilt west facade. The beam over ground floor windows spans the original opening for a double garage.



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



First floor plan



Second floor plan

to convert the building into a small town house and to unite it with his Harley Street house, where he continues his practice on the ground and basement floors. No side light could be obtained, nor was light available at the rear except at 2 ft. below the ceiling of the first floor. It was decided, therefore, to raise the back of the ground floor to the ground level of the main house and to join the two properties at that level. This mezzanine level is top lit above the adjoining roof of the consulting room and was enlarged from being a half-landing into a dining area 4 ft. above the ground floor level of the mews. The bathroom, which is also in this dark area of the ground floor, is artificially ventilated. General contractors, Gee, Walker & Slater, Ltd. Sub-contractors, page 30.

Below, from the living room balustrade, looking into dining area.



Below, dining area at mezzanine level, living area above and staircase.



TECHNICAL SECTION

C. S. White, the only architect-speaker at the recent Convention of the British Wood Preserving Association in Cambridge, gave a list of the things the architect ought to be told by people who know all about timber. The list included: fuller notes on the suitability and the availability of timbers; guidance on the choice of preservatives, particularly for joinery which is to be finished in oil paint of light tint; and guidance on the choice of fire retardants (a) where preservation is also important and (b) where preservation is unnecessary. Mr. White finished with a plea that "there should be an agreed policy among advisory organizations to avoid causing confusion in the minds of those seeking advice." This was a discreet reference to the three official and semi-official bodies to whom the architect can go for information—FPRL, TDA and BWPA—organizations which have been known to give conflicting replies to the same question. Mr. White's suggestion that a central information bureau should be set up was a good one.

19 CONSTRUCTION: DETAILS TECHNICAL STUDY

mayfield school : floors and walls

This week's
special article

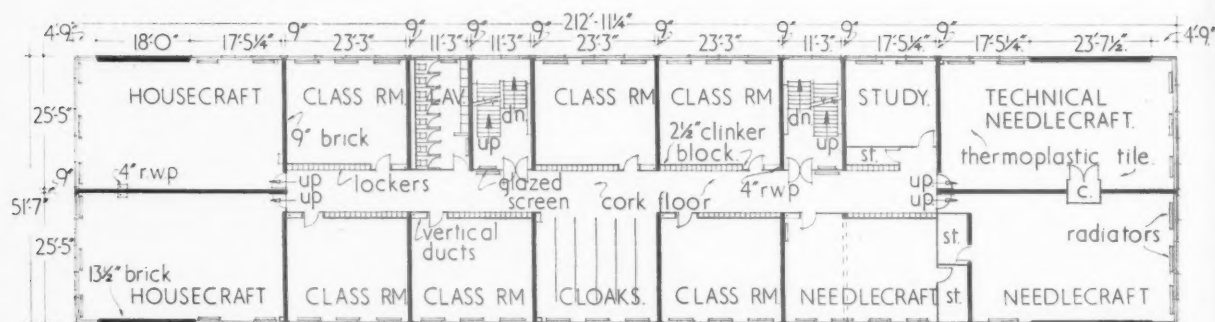
The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant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

As explained in the leader on page 5, we open our new series of technical studies with our first account of work at Mayfield School, Putney, an LCC secondary school where Powell and Moya are carrying out substantial additions (for 1,620 places), which will make it a comprehensive school. This job, which is now in mid-contract, was illustrated and described in general terms in the JOURNAL for April 29. Our intention in this series is to emphasize building technique more as a process than as a completed result. For this reason the construction of the buildings is not described comprehensively; attention is given to methods and ideas which are less familiar.

The teaching room blocks of this school are neither modular nor pre-fabricated; but neither are they "traditional." With approximate justice the constructional scheme could be described as one which uses both "modern" and traditional materials with uncommon logic and straightforwardness. It is a method more

appropriate than any other perhaps to the present semi-industrialized condition of the building trades.

The teaching room blocks are the most advanced part of the work, the carcassing being virtually complete. They are of cross-wall construction, described by the Clerk of Works (F. Wright) as " . . . simple as a child's house of



Typical plan of teaching room block.

matchbox walls and playing card floors." An outline of the way this idea was evolved is necessary to an understanding of the building.

CROSS-WALL SCHEME

The school had to be a large one—1,620 pupils in addition to the 500 which the existing building holds. To avoid an unmanageable sprawl of buildings, multi-storey teaching room blocks were indicated. Two floors would not achieve sufficient compactness, more than four floors would need lifts, and more than three floors an extra amount of steel for structural framing, difficult to obtain at the time the school was on the drawing board (1951-2). Thus three storeys in load bearing construction was, in these circumstances, the appropriate structural scheme, as well as being the most appropriate in scale. The arrangement of the load bearing walls was arrived at like this: the guiding ideal of economy in space and plan area suggested the double-banking of teaching rooms on either side of a "spine" corridor in each block. Each room then had to be lit from one side only, and to attain a sufficient daylighting standard the glazing had to occupy the whole length of external wall. Load bearing walls could therefore only be arranged as internal cross walls forming the divisions between rooms. The spacing of these—mostly 24 ft.—is mainly determined by the room areas required and the depth of room from the glazing. Floor loadings and spans allowed the use of pre-stressed Stahlton clay planks bridging the 24 ft., and end reactions proved to be within the limit of 9 in. fletton brickwork. This means that, except in cases where larger floor spaces were required, there are neither beams nor columns projecting from internal surfaces.

This scheme brought interesting consequences on the site. The small amount of foundation trenching and spoil banks along the external wall made access to the job easier and allowed much of the drainage to be dug, laid and backfilled at a much earlier date than is customary. This, together with the fact that the subsoil is firm, and the water level as low as 10 ft.,

made work below ground a less formidable item in the total than is usual. The cross-wall strip foundation depth averaged 3 ft. 6 in.

The brick cross walls were of necessity a quick and straightforward task for a bricklaying team, for there were no "extra over" items, such as plumbing and the forming of damp-proof courses to jambs, that the normal external brick wall entails. The straightforwardness of the brickwork also implies that the cross walls may be run up fairly quickly when one floor is completed, so minimizing delay in starting work on the next floor.

Such is the general picture. It is obvious that the main interest so far centres around the floor and wall construction, and these are discussed in greater detail below.

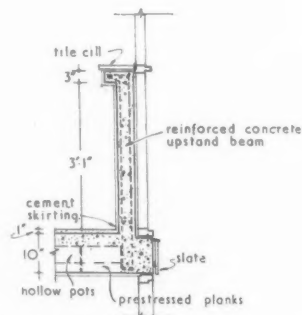
STRUCTURAL WALLS

The cross walls are, in most cases, 9 in. thick finished fair face. But, with the exception of one block, floor span changes direction at the ends of blocks and bears on short lengths of 13½ in. external wall. This change is appropriate to the accommodation since the larger teaching rooms are at the extremities of blocks and the walls provide a degree of lateral stability to the

whole structure of the block, otherwise not obtained with cross wall and panel infill construction. This feature is reported to be particularly agreeable to the district surveyor. It seems an uncommonly clear instance of an integral resolution of those aesthetic, structural and planning aims so often felt but so seldom realised.

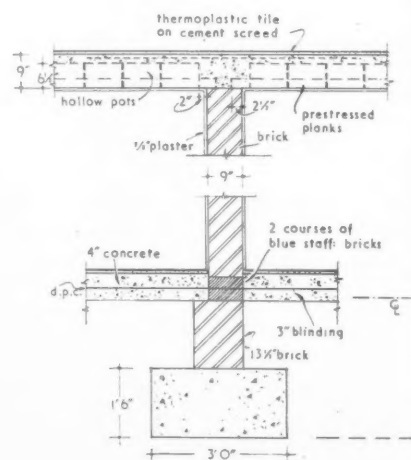
When external walls are structural they are 13½ in. in London stocks and have the same characteristics of straightforwardness and regularity as the cross walls. It will be seen from the plan that they do not extend the full length of the floor bearing, the floors at these points being carried by the lower edge of upstand beams (or at the external corners, upstand cantilevers) of reinforced concrete. The upstands are the same height as the window sills, 4½ in. thick and positioned so as to bear on the middle third of the 13½ in. wall thickness. The amount of reinforcement needed may be seen in the photograph on page 26.

The internal 9 in. walls are in flettons built off a two course of engineering brick d.p.c. which was a suggestion of the district surveyor. A gauged mortar of 1:2:9 mix gives the brickwork a maximum permissible stress of 115 p.s.i. and the superimposed and deadloads are such that this value is nearly reached. In a few cases where the load-



Above: Section through concrete upstand beam (spanning 17 ft. 6 in.) supporting edge of floor.

Right: Sections through typical foundation and upper floor (of corridor) at 9-in. cross wall.



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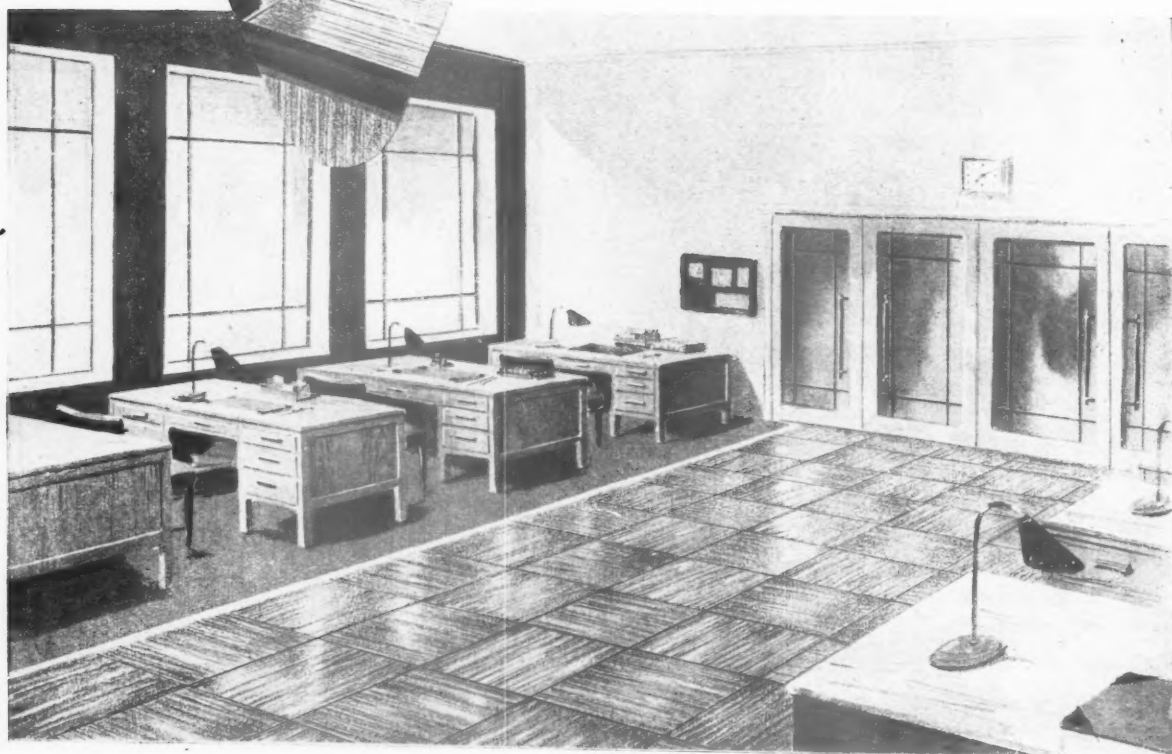
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Left: upper floor adjoining stair-well. In the background: centering ready for plank laying. Note blocks fixed to shutter at edge of floor to form holes for bronze cramps for the slate facing. Note also electric conduit built into 9-in. wall.

Below: junction between floors spanning in opposite directions, that on the left having deeper pots. The reinforcement cage is for the beam over the corridor. Notice that the electric conduit is to be cast into the structural concrete.



Left: upper floor of lavatory bay (11 ft. 3 in. span), of in situ concrete to facilitate placing of soil connections.

ing is greater, $13\frac{1}{2}$ in. walls give a maximum permissible stress of 157 p.s.i. Since it was intended that there should be no plastering on the cross walls, electric conduit drops have been built into the centre of the 9 in. as the brickwork was carried up.

Strip foundations are, on the average, 3 ft. wide and 1 ft. thick, although they vary according to loading. From these are built $13\frac{1}{2}$ in. walls up to ground floor level. The contractor was given the choice of doing both foundation and wall below ground in in situ concrete to avoid interruption of the concreting sequence by bricklayers, but in general the traditional way was preferred, mainly to give clearance to the soil and rainwater stacks which descend alongside internal walls.

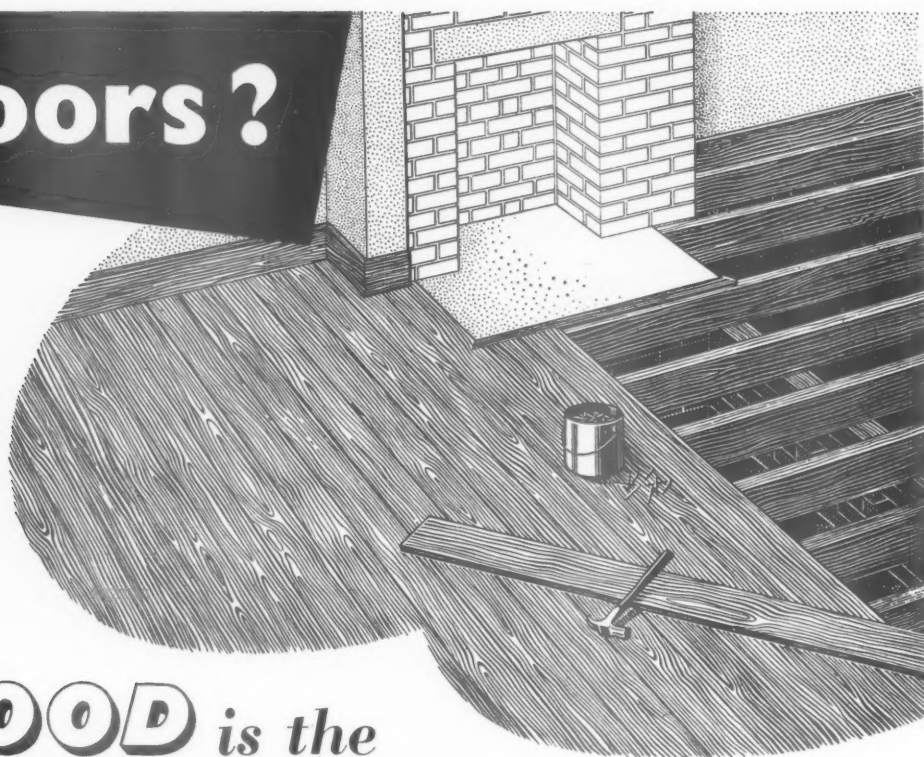
UPPER FLOORS

Procedure on the site has been like this: the brickwork is carried up from foundations to first floor ceiling level. A series of temporary centres are then erected parallel to the cross walls at about 5 ft. to 6 ft. spacing, on adjustable steel props. The prestressed Stahlton planks are then manhandled up and placed in position. In the early stages of the job they were hoisted up direct from the back of the truck which was not difficult, but later a stock-pile was accumulated on the ground, since we do not in this country have the same delivery-usage co-ordination that they are reputed to enjoy in America. The planks are laid on the centres 8 in. apart, then $6\frac{1}{2}$ in. or $8\frac{1}{2}$ in. deep clay pots with rebated sides are placed between them, the depth of the pot being determined by the span and load. In situ steel for transverse reinforcement of the slab, for the upstand beams and for beams over the corridor openings is placed. Electrical points are determined and the conduit network connecting them is fixed on top of the pots. At this stage the soil and rainwater stacks will have been installed as far as they can go, the upper lengths poking above the skeleton of the floor. This work completed, the concreting begins, with the mixer at ground level and distribution by the ordinary barrow lifted up on a fixed vertical power hoist stationed at a central point along the side of the teaching room block. Floors of the lavatory bays, which are 11 ft. 3 in. span, are wholly of in situ concrete (cast on steel shutter plates) mainly because of the difficulty of co-ordinating the spacing of the floor planks with the spacing of the w.c. branches which penetrate the floor thickness. It is possible for concreting to continue without a break over the whole floor area, with the exception of the upstand beams. The part of these projecting above the top of the floor slab is shuttered and cast after the main slab.

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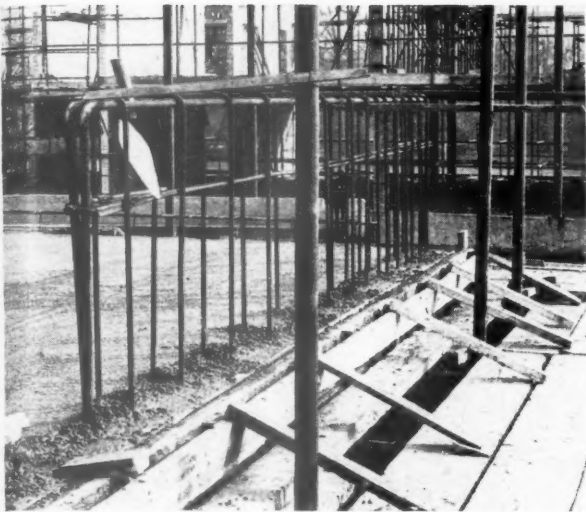
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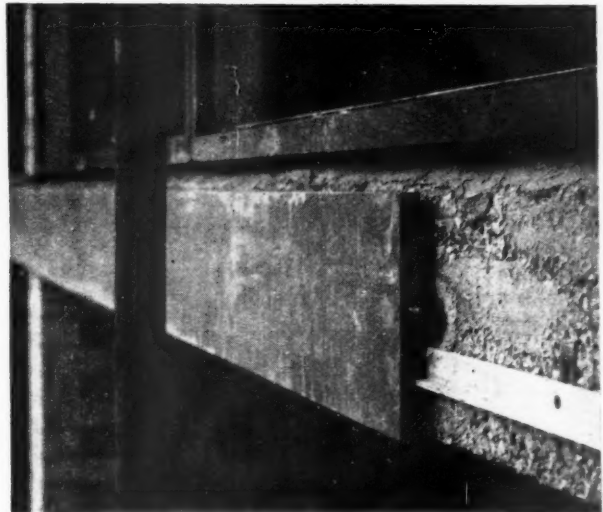
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Reinforcement for upstand cantilevers at end of teaching room block. This is shuttered and cast after floor concreting.



Fixing of 3/4-in. slate facing to edges of upper floors.

blinds which are housed in recesses in the ceiling. The loss of sectional area of the floor slab is compensated by a small upstand forming a "sill" for the 4-in. clinker block inner leaf.

It should be mentioned here that for simplicity of working on the site it was decided that the ceiling level should remain constant throughout. In certain cases a difference of floor span or of loading required a deeper floor

thickness, and this emerges as a step up in the doorway between corridor and room of either 1 in. or 3 in.

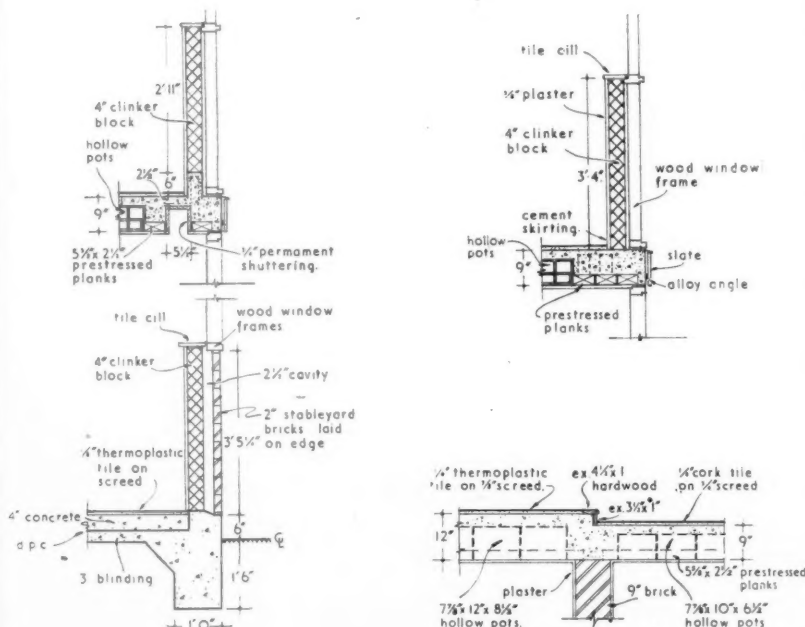
So much for the general procedure of this comparatively recent kind of floor construction. But it is the exigencies of site work, the minor problems which do not show on the drawing board, which are significant in the early development of a technique, for it is only when a gang of tradesmen have over-

come the problems and can go through a sequence of operations without having to stop and think what to do next that the true value of a method may be properly assessed.

The planks are not heavy, but they are uncommonly long for their thickness, and were at first rather unwieldy in the handling. Being cambered, they tend to twist round in the hands if picked up the wrong way, but the handling and placing technique was soon acquired, with a consequent speeding up of the process. The foreman reports that a gang of four or five men are needed for the job.

The camber is, of course, a feature of the prestressing, and not all units are cambered equally. Thus it was found necessary to tie them down to the centering with binding wire in order to lay the pots. Another problem arose from the unavoidable dimensional variation which is characteristic of all burnt clay products. The clay units from which the planks are built up "string of beads" fashion do not exactly match in size or alignment. This means that clearance between adjoining planks must vary; hence some pots are rather a loose fit while others are "pinched." On the site this problem now constitutes only a minor annoyance—here and there a solitary pot dangles obliquely from the soffit waiting to be cut off flush. It may be that a deeper rebate on the pots would solve this problem.

Co-ordination between the positions of rainwater and soil stacks and the spacing of the planks was another difficulty, for the stack must pass up between two planks. While at first it would seem best to deal with this at the drawing board stage by exactly dimensioning both elements from a datum, in practice the working tolerances needed make it easier to deal



Above: sections through edges of ground and upper floors at external wall, showing blind box and upstand beam.

Top right: section through edge of upper floor where blind box does not occur. Right: section through two floors of different thicknesses, showing step in doorway junction between normal floor level and level of the library where equal span and additional floor loading have been solved by thickening the slab.

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with the problem *ad hoc*. Space between the planks is only 8 in., allowing very little play in either stack or planks. In the event, planks were shunted after the stack was located, so that in some cases there are two planks cheek by jowl.

The planks have very small bearing on the cross walls—generally 2 in. But bearing in this case is not significant structurally, the planks could just as well terminate clear of the wall face: generally they do not do so because the top of the brickwork provides a useful alignment at the correct level. In the earlier stages of floor construction the prestressing wires were left projecting from the plank ends, the intention being that they should bond in, and in the case of the corridor and upstand beams that they should be bent up into the *in situ* reinforcement. This is now considered unnecessary

and so the wires are cut off flush. Although the high tensile wires are thin they are uncommonly difficult to bend, and adequate compaction of the concrete around them in the bottom of 3 ft. 6 in. high and 4½ in. wide shutter could not be guaranteed.

Treatment of the exposed edges of a box frame type of structure is always a difficult matter, and, uncompromising purism having largely abated since the war, there is a growing opinion that on the whole it is better to conceal them behind a continuous external skin. This is not the solution here employed. The edges of the walls are finished in white glazed brick, which gives a permanent light coloured finish and minimizes the possibility of water penetration. The floor edges are covered by a ¾ in. thick slate slab fixed after the concreting is complete, and when the window frames are being in-

stalled. The concrete is holed, by blocks fixed to the shuttering, at about 3 ft. centres, and bronze cramps grouted in. The projecting ends of these engage with holes drilled in the butted ends of slabs. Lower down is a groove in the back face of the slate which rests on an aluminium alloy angle plugged to the face of the concrete. Besides helping to support the slate this angle has the dual function of aligning the slabs and forming a stop to the cement grout with which the space between slate and concrete is filled. The top of the slate is protected by a copper flashing which tucks under the sill of the window frame. The slate is fixed in place just before the windows are installed.

The next article on the Mayfield School will deal mainly with the timber girder and wood wool slab roofs on the teaching room blocks.

THE INDUSTRY

From the Industry this week Brian Grant reports on a water repellent plasterboard, a new range of immersion heaters, a new booklet on aluminium roofing, a thermostatic boiler and indirect heating cylinders.

WATER REPELLENT PLASTERBOARD

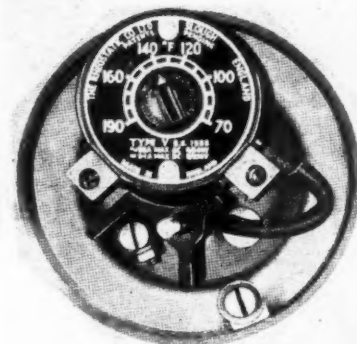
A water repellent version of PPG plasterboard has just been announced, all surfaces and edges being water resistant and the core specially treated with water-repellent chemicals. The uses suggested are for the cladding of temporary structures or for the lining of prefabricated house components which may have to be stored in the open during transport or erection. Another suggested use is for the sheathing of permanent framed structures when the exterior finish is to be brick or weatherboard, or a sand-cement rendering on expanded metal. The plasterboard gives a damp-resistant and wind-tight wall, while the large sheets act as a bracing and add considerably to the structural strength of the building. Weatherboard can be applied directly over the plasterboard, but an airspace of 1 in. should be left between the plasterboard and a brick skin and wall ties should be fixed at the usual intervals. More obvious and straightforward uses are as wall and ceiling linings in rooms subject to considerable condensation, such as bathrooms and kitchens. Decoration may be by any oil bound or emulsion paints, but water paints and distempers should not be used as the water-repellent surface will prevent a satisfactory bond. Sizes produced are as for standard gypsum plasterboard. (Plaster Products (Greenhithe) Ltd., Greenhithe, Kent.)

IMMERSION HEATERS

A new range of GEC immersion heaters is designed particularly for ease of installation, the projection of the head being only 2½ in. Internal wiring runs are short and the terminal cover can be removed without disturbing the wiring. Standard heater lengths vary from 12 to 30 in., and thermostats can be very simply fitted at a later date if the heater has been installed without one. (The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2.)

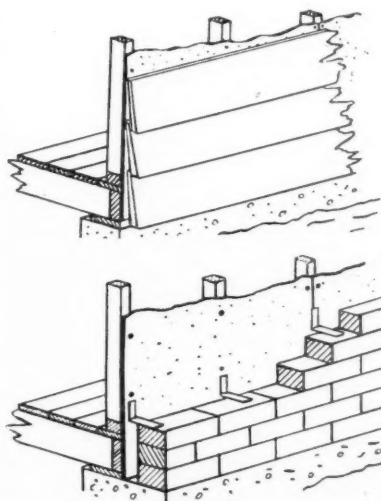
KEEPING WALLS CLEAN

A new product called Fend has recently been developed to prevent wall papers or distemper from being permanently marked by oils and grease. It is a colourless liquid which is applied by brush or spray and acts as a sealer, so that oils and greases do not penetrate the surface. Water soluble



The G.E.C. Immersion Heater.

materials can be removed with soapy water, and greases with a cloth dipped in petrol or turpentine substitute. Often enough the claims made for materials of this kind seem rather extravagant, but from the rough tests I have been able to make with Fend it does what the makers say. At least it is possible to remove shoe polish stains from distemper. (Amalgamated Paints (London) Ltd., St. Marks Road, Mitcham, Surrey.)



P.P.G. plasterboard with weatherboard cladding or with brick outer skin.

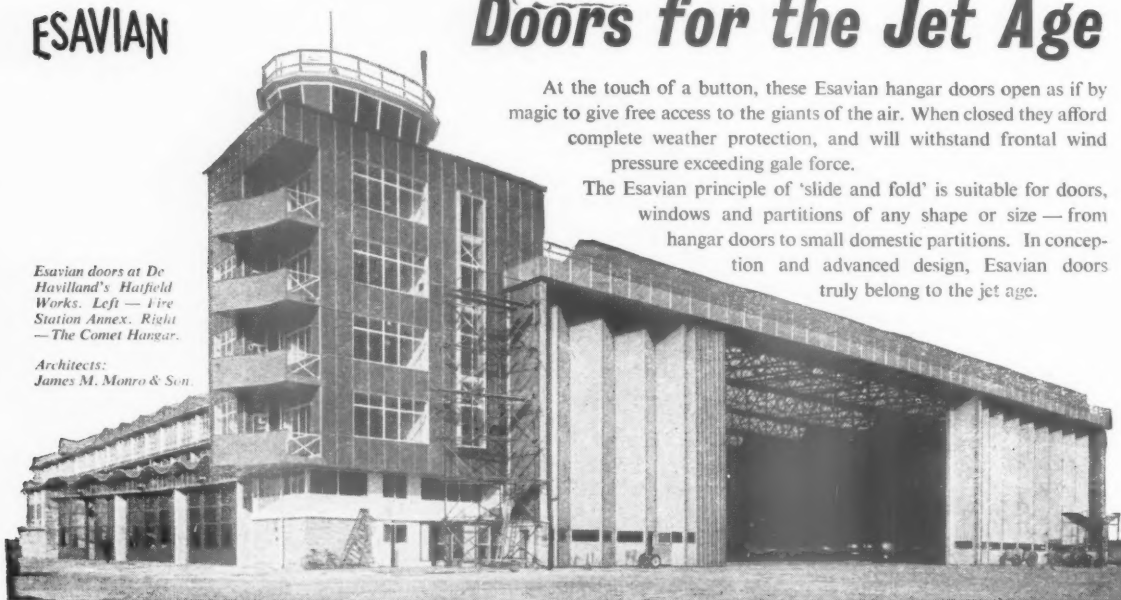
ALUMINIUM ROOFING

A new booklet from TI Aluminium describes various types of corrugated roofing sheet, some of which are for export, though the type recommended for use in this country has the usual 3-in. corrugations. The sheets are produced in widths of 8, 10 or 12 corrugations, with effective covering widths of 2 ft. 2 in., 2 ft. 8 in. and 3 ft. 2 in., and in lengths from 4 ft. to 12 ft. in increases of 1 ft. with special lengths up to 20 ft. The alloy used contains about 3 per cent. magnesium (Alloy NS 3 in BS 1470) and gives good resistance to corrosion, especially in marine atmospheres. Sheet thicknesses vary from 18 to 26 gauge, and the booklet has a table giving the maximum loads and purlin spacings allowable with the various gauges. There are also some useful notes on the precautions to be taken

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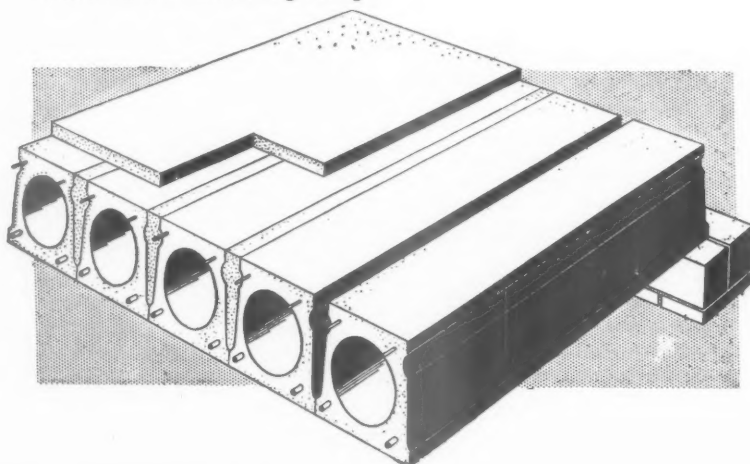
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The Ideal Autocrat No. 1 Thermostatic Boiler.

when fixing aluminium sheet to steel or timber trusses, and a schedule of the various hook bolts and other fittings available, though no mention is made of filler blocks, which will often be necessary when flat aluminium sheet is used for ridging.

Messrs. TI also offer (via an associate company, Metal Sections Ltd.) an industrial type trough-section building-sheet, and a further type known as Mansard, in which small troughs $\frac{1}{2}$ in. by $\frac{1}{4}$ in. are spaced at 6-in. centres. It seems likely that this name will cause a certain amount of confusion, since two other major producers have for some time been making a Mansard sheet which has 1-in. radius corrugations also spaced at 6-in. centres. I have commented in the past on the aluminium industry's habit whereby different firms have different references for almost exactly the same alloys. Bedlam comes slightly nearer now that different sections are known by identical trade names. (TI Aluminium Ltd., Redfern Road, Tyseley, Birmingham, 11.)



The Primatic Hot-water Cylinder.



E. K. Cole's SR Thermovent.

THERMOSTATIC BOILER

The illustration above, left, shows the recently announced Ideal Autocrat No. 1 thermostatic boiler, which is suitable for use with storage cylinders from 30 to 40 gallons capacity. Rating is 25,000 B.Th.U. per hour, and there is a thermostat, controlled by a knob on the front of the boiler, by which the fuel consumption rate can be adjusted between $\frac{1}{2}$ lb. and 3 lb. per hour. A rocking grate is fitted, and it also has a dumping device by means of which the whole of the firebox contents can be dumped in the ash pan to get rid of large stones and clinker: stoking is necessary only night and morning. Flow and return connections (1 $\frac{1}{2}$ in.) are at the back mounted in the clean-out opening plate, and dimensions are: width, 17 in.; depth, 18 in.; and height, 25 $\frac{1}{2}$ in.

Price is £23, or £3 more with Bower-Barff rust-resisting finish. (Ideal Boilers & Radiators Ltd., Ideal Works, Hull.)

ELECTRIC HEATING

The illustration above shows one of the type SR Thermovents, which are produced with loadings of 1, 2 and 3 kilowatts, with or without thermostats. They are mainly intended for commercial and industrial applications, but are quite suitable for domestic use. Cases are enamelled steel, and slots are provided for wall mounting if required. (E. K. Cole Ltd., Southend-on-Sea.)

CYLINDERS FOR INDIRECT HEATING

There are some types of boiler with which it is essential to use an indirect hot-water cylinder, and it is also more or less standard practice with any central heating system. Nowadays, small houses are often fitted with one or two radiators and a towel rail, and an indirect cylinder is desirable though not essential. With the usual method of installation a separate supply tank, ball valve and expansion pipe are necessary, and add considerably to the cost. The Primatic cylinder saves all this extra cost, as it is connected in exactly the same way as the direct cylinder, and at the same time the secondary water system is filled entirely automatically, and a separate expansion pipe is not necessary. (Range Boilers Ltd., Stalybridge, Yorks.)

Announcements

A. P. Gainsford, F.R.I.B.A., will be pleased to receive trade catalogues and literature at 29, The Square, Winchester, Hants.

By mutual agreement R. F. Malcolmson, A.R.I.B.A., has ceased to be a partner in the firm of G. P. & R. H. Bell & R. F. Malcolmson. The practice is being carried on under the same title as formerly by G. P. Bell, A.R.I.B.A., and R. H. Bell, A.R.I.B.A., at 26/27, Ocean Buildings, Donegall Square East, Belfast.

The partnership of Ross, Harvey & Scott has been dissolved. D. J. A. Ross, F.R.I.B.A., has entered into partnership with Archibald M. Doak, A.R.I.B.A., and Alex R. Whitelaw, A.R.I.B.A., and will continue to practise from 2, Clifton Street, Glasgow, C.3, under the style of Ross, Doak and Whitelaw.

R. G. Sperry, A.R.I.B.A., has resigned his appointment with the Harlow Development Corporation and has joined Reynolds, Tomlins and Dexter, chartered architects of Granville Chambers, Bournemouth.

Cecil Ogden & Son, L.R.I.B.A., of 1, Market Street, Luttreth, N. Rugby, now have an additional office at 35, Castle Street, Hinckley, Leicestershire. Tel.: Hinckley 1149.

John P. Worrow, A.R.I.B.A., and Messrs. Archard & Hardy announce the dissolution by mutual consent of their Partnership. The firm will continue, with Mr. Worrow at its head, under the style of John Worrow & Partners, from 2, Gray's Inn Square, W.C.1, Tel.: Chancery 5957-9. All documents relating to business have been retained by Mr. Worrow.

W. H. Arend, F.R.I.B.A., has taken into partnership his son, D. W. Arend, A.R.I.B.A. The practice known formerly under the style of Emden, Egan & Co., will continue as William H. Arend & Son.

Truman, Hanbury, Buxton & Co., Ltd., have appointed F. G. A. Hall, F.R.I.B.A., as their chief architect. He succeeds R. W. Stoddard who died in December last year.

Stephen Gardiner, A.R.I.B.A., has moved to 27, Sydney Street, S.W.3, where he will continue to practise and where he will be pleased to receive trade catalogues, etc.

David Stern, A.R.I.B.A., has moved to new offices at 24, Gloucester Place, Portman Square, W.1 (Tel.: Hunter 0451-2-3).

Wells Coates, F.R.I.B.A., and Jaqueline Tyrwhitt, A.I.L.A., have dissolved their association in this country by mutual consent. Mr. Wells Coates has taken into partnership Michael Lyell, A.R.I.B.A., and the firm will in future be known as Wells Coates & Michael Lyell, with offices at 16/18, Yeomans Row, Brompton Road, S.W.3 (Kensington 9252 and 9253). Michael Lyell will also be associated with Wells Coates in his Canadian practice under the style of Wells Coates Associates with temporary offices at 717, Church Street, Toronto, Ontario, and later at Iroquois, Ontario.

George T. West, F.I.Q.S., Incorporated Quantity Surveyor, has moved his west country office to 53, Oxford Street, Weston-super-Mare (Tel.: Weston-super-Mare 827).

Messrs. Mercer & Miller, chartered quantity surveyors, of 30, Gloucester Place, London, W.1, and 104, Watergate Street, Chester, have taken into partnership, as from March 1, Mr. H. D. K. Everitt (Professional Associate) who has been with the firm as chief assistant for a number of years. The name of the firm remains unchanged.

Richard Sudell, F.I.L.A., landscape architect is now practising from 2, Guildford Place, W.C.1. (Tel.: Chancery 7286.)

Finmar have moved to 26, Kingly Street, London, W.1. Telephone: Regent 8308.

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

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1.7.54

Buildings Illustrated

Showrooms at 4, Stratford Place, London, W.1, for Federated Foundries Ltd. (Pages 14-15). Architect: Sergei Kadleigh, A.R.I.B.A., assisted by Michael Lyell, A.R.I.B.A.; Consulting Engineer, Laurence Kenchington, M.I.STRUCT.E.; Quantity Surveyor, Leslie Newton, F.R.I.C.S.; General Contractor: John S. Parker (Contracts) Ltd.; Sub-contractors: glass, Pilkington Bros. Ltd., and T. & W. Ide Ltd.; woodblock flooring, terrazzo, tiling, Great Metropolitan Flooring Co. Ltd.; central heating, ventilation, Thames Bank Iron Co. Ltd.; boilers, British Doby Stokers Ltd.; electric wiring, Armfield Electric Power Co. Ltd.; electric light fixtures, Courtney Pope (Electrical) Ltd.; door furniture, Adrian Stokes Ltd.; telephones, G.P.O.; Venetian blinds, J. Avery & Co.; marble, A. L. Bingham and J. Whitehead & Sons Ltd.; wallpapers, Arthur Sanderson & Sons Ltd.; furniture, S. Hille & Co. Ltd.; shop fittings, F. E. W. Models & Displays; lifts, Pickering's Ltd.; clocks, Reliance Telephone Co. Ltd.

Showroom at 66, Baker Street, London, W.1, for Briglin Potteries Ltd. (Page 16). Designers: Douglas Stephen & Partners; General Contractors: Ruddock & Co. (Shop-fitters) Ltd., and Modulus Furniture Co. Sub-contractors: special electric light fixtures, Thorn Electric Industries Ltd.; tube heaters, Wardle Engineering Co.; signs, The Lettering Centre.

Trinity Close, 4 The Crescent, Bedford. (Pages 20-21). Architect: Ian Warwick, M.B.E., T.D., A.R.I.B.A., A.M.T.P.I. General Contractor: Joseph F. Cain. Sub-contractors: bricks, Richard Parton (Builders' Merchants) Ltd.; slates, John E. Page Ltd., and Ellis & Everard Ltd.; special roofings, Bedford Asphalte Co. Ltd.; roofing felt, D. Anderson & Son Ltd.; partitions, Thermalite Ltd.; glass, Chance Bros.; patent

flooring, Armstrong Cork Co. Ltd. (laid by Gabriel, Wade & English); central heating, Rosser & Russell Ltd.; stoves, The London Warming Co.; back boiler fire, Bell & Co. Ltd.; electric wiring, L. T. Izzard; electric light fixtures, General Electric Co. Ltd., and Merchant Adventurers of London Ltd.; sanitary fittings, Broad & Co. Ltd.; door and window furniture, A. J. Binns Ltd.; purpose-made casements, English Joinery Manufacturers' Association; joinery, G. C. Allen & Son; fireplace tiling, Carter & Co. (London) Ltd.

Mews Conversion in Harley Place, London, W.1. (Page 22). Architects: Gordon & Eleanor Michell, A/R.I.B.A. General Contractors, Gee, Walker & Slater Ltd. General Foreman, Charles Tidd. Sub-contractors: dampcourses, The Ruberoid Co. Ltd.; asphalt, Excel Asphalte Co. Ltd.; central heating, Hope's Heating & Engineering Co. Ltd.; electric wiring, Star Electrical Co. Ltd.; electric light fixtures, Merchant Adventurers of London Ltd.; ventilation, W. J. Mason; sanitary fittings, Standard Range & Foundry Co. Ltd.; door furniture, Comyn Ching & Co. Ltd.; casements, Henry Hope & Sons Ltd.; folding gates, Haskins Ltd.; plaster, Greenslade Bros.; joinery, furniture, Mullen & Lumsden Ltd.; wallpapers, Arthur Sanderson & Sons Ltd., Cole & Son (Wallpapers) Ltd., and Primavera.

Correction

On page 743 of the JOURNAL for June 17, 1954, the prices per ft. cube and per ft. super for flats in Coningham Road and Percy Road, London, W.12, were incorrectly shown. The prices should have read 4s. 11½d. per ft. cube and £3 2s. per ft. super, both excluding external works, at 91, Coningham Road and 5s. 3½d. per ft. cube and £3 3s. 9d. per ft. super, excluding external works, at 57-59, Percy Road.

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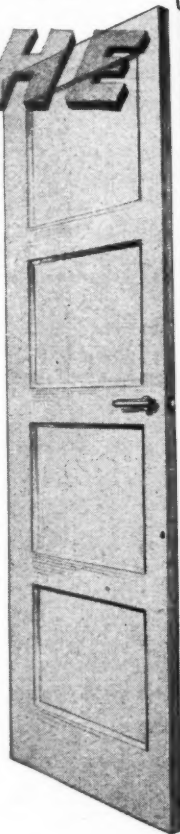
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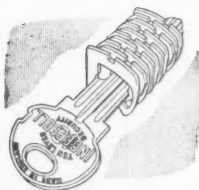
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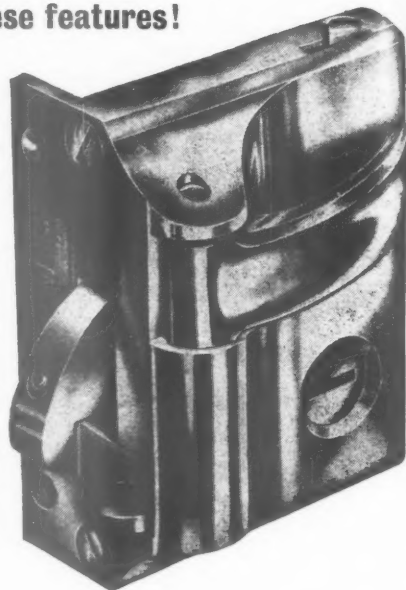
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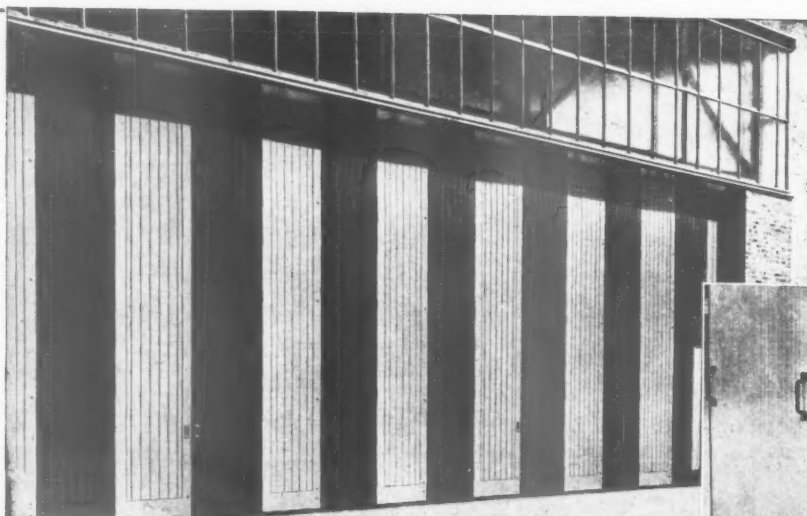
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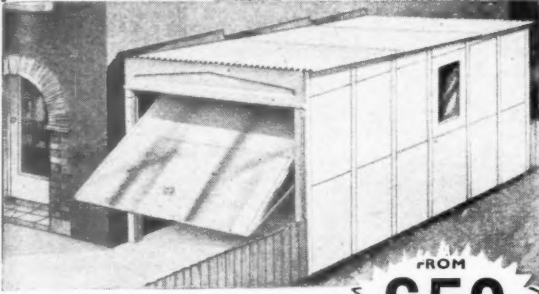
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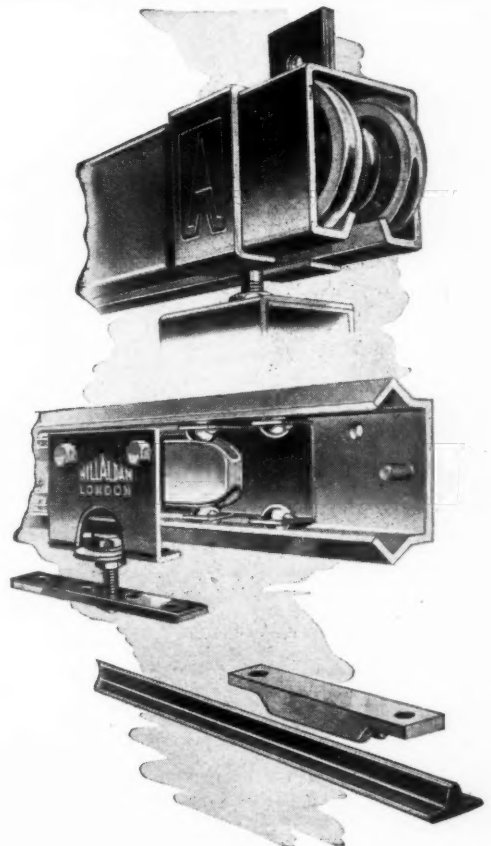
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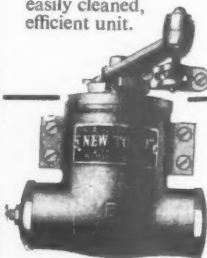
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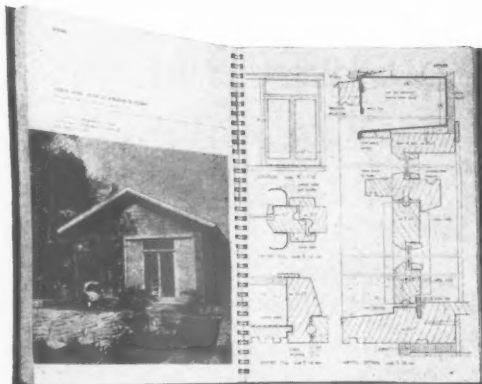
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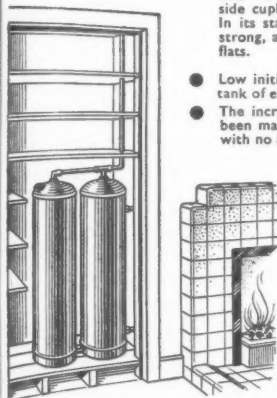
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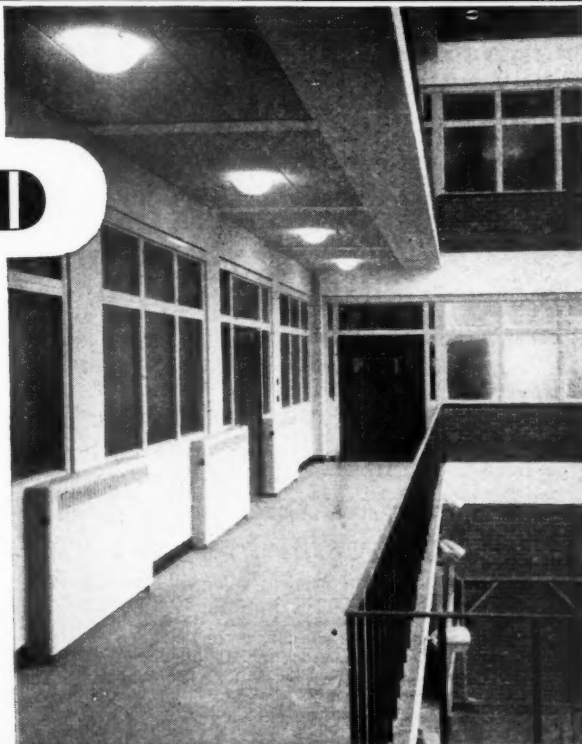
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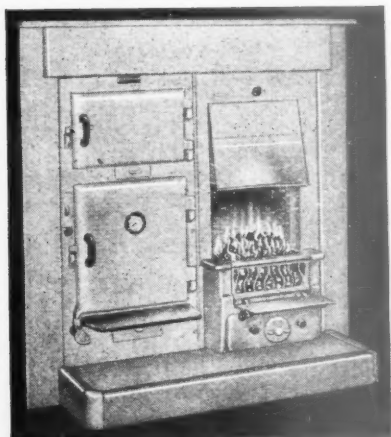
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ARCHITECTURAL ASSISTANTS.

Applications are invited from ARCHITECTURAL ASSISTANTS with recognised training and fair 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 (which is at present under review) is £351 rising to £628. The starting pay of candidates who have passed the R.I.B.A. Intermediate Examination will be £495. Entry points for other candidates will be fixed in relation to their ages, e.g., £351 at age 21; £440 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 repaid cost of railway and steamer fares 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. 2905

COUNTY BOROUGH OF BARNSELY. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF CHIEF ASSISTANT ARCHITECT.

Applications are invited for the appointment of CHIEF ASSISTANT ARCHITECT in the Borough Engineer and Surveyor's Department at a salary in accordance with A.P.T. Grade VIII (£785-£860).

Applicants should be Associate Members of the Royal Institute of British Architects and have had considerable experience in the design and layout of Municipal Housing Estates and other Public Buildings (excluding Schools).

The Corporation have a large and varied programme of schemes in preparation and the post offers wide scope in the field of architecture.

Housing accommodation will be provided for the successful candidate, if necessary, and a car allowance will be paid in accordance with the Scheme for Casual Users.

The appointment will be subject to (a) the Scheme of Conditions of Service for A.P.T.C. Staff; (b) any other general conditions of employment in operation within the Corporation from time to time; (c) one month's notice on either side; and (d) to the Local Government Superannuation Acts for which purpose the successful candidate will be required to pass a medical examination.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Barnsley, should be returned to reach him not later than Tuesday, 20th July, 1954.

Canvassing will disqualify and applicants should disclose whether they are related to any Member or Senior Officer of the Council.

A. E. GILFILLAN.

Town Clerk.

Town Hall, Barnsley. 2984
June, 1954.

BOROUGH OF LUTON TECHNICAL STAFF

Applications are invited for the following appointments in the Borough Engineer's Department:—

(a) ARCHITECTURAL ASSISTANT (salary between General Division at £170 per annum and A.P.T. V at £620 according to qualifications and experience). Previous experience of schools and housing work an advantage.

(b) ARCHITECTURAL ASSISTANT Grade A.P.T. VII (£735 per annum). Extensive experience in school and housing work. House available.

Appointments are subject to National Conditions of Service and Local Government Superannuation Acts, 1937/1963.

Particulars of age, qualifications, experience, previous and present appointments, and salary, with names of two referees, to the Borough Engineer, Town Hall, Luton, by 12th July, 1954.

A. D. HARVEY.

Town Clerk.

BOROUGH OF BRENTFORD AND CHISWICK. APPOINTMENT OF TEMPORARY ASSISTANT ARCHITECT.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications invited for this appointment (for minimum period of six months) on Grade VI (£725 to £790 per annum, including London weighting), salary dependent on experience and qualifications. Experience in housing design and detailing is essential.

Written applications, stating age, experience and qualifications, with two recent testimonials, to reach undersigned by 10th July, 1954.

W. F. J. CHURCH.

Town Clerk.

Town Hall, Chiswick, W.4. 3040

BOROUGH OF SOLIHULL. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANT (A.P.T., GRADE IV).

Applications are invited for the appointment of an Architectural Assistant, A.P.T., Grade IV (£580-£625).

Candidates must have had at least two years' office experience, and should either have passed, or be about to take, the Intermediate Examination of the R.I.B.A.

Housing accommodation can be made available to the successful applicant, if required.

Applications, stating age, experience and previous appointments, together with copies of two recent testimonials, should reach The Borough Engineer and Surveyor, 90, Station Road, Solihull, not later than Friday, 9th July, 1954.

W. MAURICE MELL.

Town Clerk.

The Council House, Solihull. 3039
16th June, 1954.

HACKNEY BOROUGH COUNCIL invite applications:—

(a) From Registered Architects for the appointment of an ASSISTANT ARCHITECT. Salary offered within A.P.T. Division, Grades V(a)-VI (£650-£760 per annum), plus London weighting allowance.

Preference will be given to candidates with experience in the design and construction of Municipal housing schemes and public buildings.

(b) For two posts of ARCHITECTURAL ASSISTANT. Salary for each appointment within A.P.T. Division, Grades III-IV (£550-£625 per annum). London weighting allowance also payable.

Candidates must have had a good architectural training, and must have passed the R.I.B.A. Intermediate or equivalent examination.

Apply to Town Clerk, Town Hall, Hackney, E.8, for application form, returnable by 10th July, 1954. 3041

BOROUGH OF WIDNES.

Amended Advertisement.

APPOINTMENT OF QUANTITY SURVEYOR. Applications are invited for the appointment of a QUANTITY SURVEYOR, at a salary in accordance with Grade VII £735-£810 commencing at the minimum of the grade. The appointment will be subject to review in two years time.

Candidates should be corporate members of the R.I.C.S. possessing a thorough knowledge of building contract procedure, and wide experience in the preparation of bills of quantities, estimates, valuation for interim certificates, and settling of final accounts, etc.

The Corporation's present building programme consists of varied housing, educational and general works, including the conversion of existing premises into a Civil Hall.

HOUSING ACCOMMODATION, if required, will be provided by the Council.

The appointment will be subject to the National Scheme of Conditions of Service as adopted by the Council and to the successful candidate passing a medical examination.

Applications, stating age, education, technical training, qualifications, and full details of professional experience, present and previous appointments with dates, together with the names and addresses of three referees should be sent to the Borough Architect, Brendan House, Widnes Road, Widnes, not later than first post, Monday, 12th July, 1954.

Canvassing directly or indirectly will disqualify.

FRANK HOWARTH.

Town Clerk.

Town Hall, Widnes. 3060
18th June, 1954.

COUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for an ASSISTANT ARCHITECT to work in the office of the Borough Engineer to deal with work for the Committee for Education. Applicants should be Registered Architects and should have had experience in the planning, designing, construction and supervision of school buildings.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade V:—£620 x £15 x £15 x £20 to a maximum of £670, plus the appropriate London Area allowance. There will also be paid such travelling and subsistence allowances as may from time to time be determined by the Council.

Applications should be made on a form to be obtained from and returned to the Borough Education Officer, Town Hall, Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement. 3130

EAST ELLOE RURAL DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT.

Applications are invited for the above, A.P.T., Grade IV, appointment in the Architect's Department.

The appointment will be subject to the National Scheme of Conditions of Service and to the provisions of the Local Government Superannuation Act, 1937. Housing accommodation may be made available if required.

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, together with the names of two persons to whom reference may be made, must be forwarded to the undersigned not later than the 10th of July, 1954.

J. C. PYWELL.

Clerk to the Council.

Council Offices, Mattimore House, 3061
Holbeach, Spalding, Lincs.

HEMEL HEMPSTEAD DEVELOPMENT CORPORATION.

Applications invited for the appointment of PLANNING ASSISTANT. Salary scale £510-£635 p.a. Experience in Planning/Drawing Office essential and preference will be given to student members of either Town Planning Institute or R.I.B.A. Conditions of appointment broadly similar to Local Government Charter, with opportunity of entering or continuing in Local Government Superannuation Scheme.

Applications (Endorsed "Vacancy No. 112"), giving age, qualifications and experience, and names of two business referees, to reach undersigned by 9th July.

W. O. HART.

General Manager.

Westbrook Hay, 3111
Hemel Hempstead, Hertfordshire.

HEMEL HEMPSTEAD DEVELOPMENT CORPORATION.

Applications invited from WOMEN TRACERS with some experience in a Planning, Architectural or Civil Engineering office. Starting salary within range £305-£385 p.a. according to age and experience. Conditions of service broadly similar to Local Government Charter, with opportunity of entering or continuing in Local Government Superannuation Scheme.

Applications (endorsed "Vacancy No. 113"), giving age, experience, and names of two business referees, to reach undersigned by 9th July.

W. O. HART.

General Manager.

Westbrook Hay, 3113
Hemel Hempstead, Hertfordshire.

CITY OF ROCHESTER.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the City Surveyor's Department at a salary in accordance with Grade V (Administrative, Professional and Technical Division) of the National Scale of Salaries, viz., £620 per annum, rising by three annual increments to £670 per annum.

Preference will be given to candidates who are Registered Architects.

A good general experience is desirable, particularly in the preparation of drawings and specifications for Municipal Housing Schemes. A knowledge of Quantities would be an advantage. In an appropriate case the City Council will provide the successful applicant with suitable housing accommodation.

The appointment will be subject to:—

(1) The Scheme of Conditions of Service of the National Joint Council Local Authorities' Administrative, Professional, Technical and Clerical Services.

(2) The Local Government Superannuation Acts, and the successful candidate will be required to pass a medical examination.

(3) One month's notice on either side.

Applications, stating age, qualifications and experience, together with names and addresses of three persons to whom reference may be made, should be delivered to the City Surveyor, Maidstone Road, Rochester, not later than 12th July, 1954.

Canvassing, directly or indirectly, will be deemed a disqualification, and applicants must state whether to their knowledge they are related to any member or senior officer of the Council.

PHILIP H. BARTLETT.

Town Clerk.

Guildhall, Rochester. 3123
23rd June, 1954.

CITY OF NOTTINGHAM.

HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ARCHITECTURAL ASSISTANT in A.P.T., Grades I-IV. Salary scales: £490-£625, according to qualifications and experience. Applicants should preferably have passed the Intermediate Examination of the R.I.B.A.

(b) JUNIOR ARCHITECTURAL ASSISTANT, in the General Division. Salary scales: £170-£470, according to age.

The appointments will be subject to the National Joint Council's Scheme of Conditions of Service, and the posts will be pensionable.

Applications, stating age, qualifications, experience, present appointment and salary, and naming two referees, to be sent to the City Housing Architect, The Guildhall, Nottingham, by the 12th July, 1954.

T. J. OWEN.

Town Clerk.

The Guildhall, Nottingham. 3115

SALOP COUNTY ARCHITECT'S
DEPARTMENT.

SENIOR ASSISTANT ARCHITECT required. Salary Grade A.P.T. IX (£840-£960 p.a.). Post pensionable. Applicants must be Registered Architects, preferably Members of the R.I.B.A.

It is expected that housing accommodation will be available to a married man obtaining the post; alternatively, a separation allowance of 30s. per week will be paid for a maximum period of six months.

Conditions of appointment and forms of application from County Architect, Column House, London Road, Shrewsbury, returnable with three testimonials by 12th July, 1954. 3121

CITY OF PETERBOROUGH.
CITY ENGINEER AND SURVEYOR'S
DEPARTMENT.

Applications are invited for the appointment of a SENIOR ARCHITECTURAL ASSISTANT on the staff of the City Engineer and Surveyor, subject to the National Conditions of Service and at a salary in accordance with A.P.T. Grade V (£620-£670).

Applicants must be qualified architects and have had good general experience.

In a suitable case the Council will, if desired, provide housing accommodation.

Applications stating age, qualifications and experience, present appointment and salary, together with the names and addresses of three referees, should be addressed to Mr. F. J. Smith, M.B.E., City Engineer and Surveyor, Town Hall, Peterborough, to reach him not later than Saturday, 10th July, 1954.

Canvassing, directly or indirectly, will disqualify.

Candidates must disclose whether they are related to any member or senior officer of the Council.

C. PETER CLARKE,
Town Clerk.

Town Hall, Peterborough.

June, 1954. 3116

THE SOUTH WALES ELECTRICITY BOARD.

Required ASSISTANT CIVIL ENGINEER, responsible to the Board's Civil Engineer.

Successful candidate will be responsible for civil engineering work, mainly in the Eastern part of the Board's area.

The work will include the carrying out of contracts both by direct labour and outside contractors, preparation of estimates and specifications, reports and advice on land and property for substations, offices and showrooms, and supervision of the preparation of working drawings.

Salary: Class AX/CX, Grade 5 (£649-£835), of N.J.B. Schedule.

Applications stating age, present position and salary, qualifications, experience, and three referees, to be addressed to the Secretary, to arrive by 7th July, 1954.

D. G. DODDS,
Secretary.

St. Mellons, Cardiff.

3110

GLAMORGAN COUNTY COUNCIL.

ASSISTANT COUNTY ARCHITECT.

Applications are invited for the above-mentioned post from Registered Architects, who are either Fellows or Associate Members of the Royal Institute of British Architects.

Salary: Scale F, Joint Negotiating Committee for Chief Officers of Local Authorities, namely:—£1,350 × £50—£1,600.

Candidates must have had considerable practical experience in the administration of either a County Council or a County Borough Architect's Department which includes a Direct Labour Building Section, and in the design, construction and maintenance of all school and college buildings, and other types of county buildings.

Age limit 50 years, with extension for war service, etc. Further particulars (which define age limit) and application forms obtainable from the County Architect, Glamorgan County Hall, Cardiff, to whom they must be returned in appropriately endorsed envelopes not later than 17th July, 1954.

Canvassing will disqualify.

RICHARD JOHN,
Clerk of the County Council.

3108

LONDON COUNTY COUNCIL.

SURVEYING ASSISTANTS required in District Surveyor's service. Salaries up to £721; qualifications A.M.I.Struct.E., A.R.I.B.A., or A.R.I.C.S. Structural knowledge essential. Particulars and application forms returnable by 9th August from the Architect (AR/EK/DS/2), County Hall, S.E.1. (853) 3129

LONDON COUNTY COUNCIL.

TEMPORARY ENGINEERING ASSISTANTS (up to £721), and ENGINEERS Grade III (up to £862 10s.), required in the Structural Engineering Division. Work includes steelwork and reinforced concrete design and detailing for Council's buildings and checking structural designs and calculations under London Building Acts. Application forms and particulars returnable by 9th August from the Architect (AR/EK/SE/4), etc., County Hall, S.E.1. (851) 3128

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
Vacancies for TEMPORARY ARCHITECTURAL ASSISTANTS (up to £721), and ARCHITECTS, Grade III (up to £862 10s.), with experience in working drawings and specifications for alterations, adaptations and improvements. Particulars and application forms returnable by 30th July, from Architect (AR/M/2), County Hall, S.E.1. (852) 3127

BOROUGH OF TWICKENHAM—ARCHITECTURAL ASSISTANT.

Applications are invited for the position of Architectural Assistant in the Borough Engineer's Department, at a salary in accordance with Grades 4-5 (£580-£670, plus London weighting). Applicants must have passed the Intermediate Examination of the R.I.B.A., and experience with a Local Authority will be an advantage. Applications, stating age, qualifications, present and previous appointments, and giving details of experience, should be accompanied by copies of two testimonials and delivered to Mr. A. S. Knolles, B.Sc., York House, Twickenham, not later than Monday, 12th July, 1954. N.J.C. Conditions will apply and superannuation payable. Canvassing will disqualify, and applicants must state whether they are related to any member of the Corporation or Senior Officer. W. H. Jones, Town Clerk, Municipal Offices, Twickenham, June, 1954. 3107

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 experience in architectural work of Local Authority. A.P.T. Grade V, 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 14th July, 1954. Canvassing will disqualify.

C. H. DURRANT,

Clerk of the Council.

Council Offices, The Grove, Carshalton. 3098

STAFFORDSHIRE COUNTY COUNCIL.

EDUCATION COMMITTEE.

TRAINEE CLERKS OF WORKS.

Applications are invited from craftsmen, preferably bricklayers or joiners, to train as Clerks of Works. The posts offer opportunity for experience under more senior Clerks of Works; preference will be given to those with technical background and studying building or allied subjects. Wage will be £9 9s. per week.

Forms of Application and further particulars can be obtained from A. C. H. Stillman, Esq., F.R.I.B.A., County Education Architect, Green Hall, Lichfield Road, Stafford, and should be returned within two months of this advertisement.

T. H. EVANS,

Clerk of the County Council.

3071

NATIONAL COAL BOARD require for Architects' Department, Milton Street, Nottingham, CLERK OF WORKS, Grade I (£625 × £25—£775). Appointment full time and superannuable. Experience of all types of Industrial and Welfare Buildings and services, construction of steel and reinforced concrete structures, sewage disposal, heating, ventilating and electrical plants. Applications, stating age, education, qualifications, present appointment and salary, within 14 days of publication, to Secretary N.C.B., East Midlands Division, Sherwood Lodge, Arnold, Notts. Mark envelopes "S.V.331." Original testimonials should not be sent. 3070

CORK CORPORATION.
TWO TEMPORARY ARCHITECTS, GRADE II,
REQUIRED.

Applications are invited from duly qualified persons for the position of Temporary Architect, Grade II, in the City Architect's Department, at a salary scale of £600 p.a. × £20 p.a. to £750 p.a., plus temporary bonus (at present 30 per cent.). There are two vacancies.

The appointments shall be for an initial period of six months, and shall be subject to the approval of the Local Government Department. An appointee may be allowed to enter the scale at a point above the minimum, according to the qualifications and experience. Experience in Housing is desirable.

Applications, giving age, and particulars of education, professional qualifications, and experience, should reach the undersigned not later than Friday, 16th July 1954.

There is no prescribed application form. Canvassing, directly or indirectly, will prejudice the interests of applicants.

PHILIP MONAHAN,

City Manager and Town Clerk.

City Hall, Cork.

19th June, 1954. 3069

BOROUGH OF BARKING.

DEPARTMENT OF THE BOROUGH

ARCHITECT.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, Grade A.P.T. I-V, on the established staff, at a commencing salary of £490 p.a., plus London weighting.

Further particulars and form of application may be obtained from the Borough Architect, Town Hall, Barking. Completed applications should reach the undersigned not later than Friday, 9th July, 1954.

E. R. FARR,

Town Clerk.

Town Hall, Barking, Essex. 3066

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies for ARCHITECTS, Grade III, in the Schools and Housing Divisions. Salary scale: £685-£862 10s. Application forms returnable by 15th July, and particulars from Architect (AR/EK/SH), County Hall, S.E.1. (829) 3068

SOUTH-WEST METROPOLITAN REGIONAL
HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staff of the Regional Architect, generally in accordance with the conditions of P.T.B. Circular No. 19.

SENIOR ASSISTANT ARCHITECT. Salary grade: £875 × £30—£1,025, plus London weighting allowance. Applicants must be Associate Members of the Royal Institute of British Architects, and have had sound practical experience of the planning and construction of hospitals and public buildings, and be capable of carrying through projects from commencement to completion.

ASSISTANT QUANTITY SURVEYOR. The commencing salary will be within the grade £600 × £25 (7) × £30 (3)—£865, plus London weighting allowance. Applicants must be Associate Members of the Royal Institution of Chartered Surveyors (Quantity Surveying Branch), and have sound practical experience in the estimating and analysis of prices, working up and taking off of quantities for small contracts, and also of checking contractors' accounts.

Applications, stating age, experience, qualifications, present appointment and salary, together with the names and addresses of three referees, to be sent to the Secretary (S.2), South-West Metropolitan Regional Hospital Board, 11a, Portland Place, London, W.1, marking the envelope "Architectural Staff," not later than 23rd July, 1954. 3114

CHAPEL-EN-LE-FRITH RURAL DISTRICT

COUNCIL.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the post of Architectural Assistant, to work under the direction of the Council's Engineer and Surveyor. Candidates should be able to prepare house designs and working drawings, and Bills of Quantities in accordance with the appropriate Code, and also be able to measure up and settle the interim and final certificates on building contracts.

Candidates should be qualified by examination of the Royal Institute of British Architects, or alternatively of the Royal Institution of Chartered Surveyors (Quantities Sub-Division).

The salary will be according to A.P.T. Division, Grade VI (£695-£760). The successful applicant will be required to provide a car, for which the appropriate travelling allowance for a car not exceeding 10 h.p. will be paid.

The Council will, if required, provide housing accommodation as soon as possible.

Applications on forms obtainable from the Engineer and Surveyor, Council Offices, Chapel-en-le-Frith, via Stockport, to be sent to the undersigned not later than 10th July, 1954.

L. JAGGER,

Clerk of the Council.

Council Offices, Chapel-en-le-Frith,

via Stockport.

23rd June, 1954. 3126

WALTHAMSTOW COMMITTEE FOR

EDUCATION.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments in the office of the Architect to the Committee, Mr. Frank H. Heaven, A.R.I.B.A., A.R.I.C.S. CHIEF ASSISTANT ARCHITECT, at a salary of £785, rising by increments of £25 to £860 per annum (Grade A.P.T., VIII, of National Scales).

Applicants must be Associate Members of the R.I.B.A. or hold an equivalent qualification, and have had considerable experience in a similar post of design, construction, and contract administration with a local authority. Experience in maintenance of buildings and control of staff would be an advantage.

ARCHITECTURAL ASSISTANT, at a salary of £520, rising by increments of £15 to £565 per annum (Grade A.P.T., II, of National Scales).

In addition a London weighting of £30 if 26 years of age and over, or £20 per annum age 21 to 25, is payable for both posts.

Forms of application should be obtained from and returned to the Borough Education Officer, Town Hall, Forest Road, Walthamstow, E.17, within three weeks of the appearance of this notice. 3125

BOROUGH OF SWINDON.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the Borough Architect's Department at a salary in accordance with Grade A.P.T. III (£650—£695).

Applicants must have had experience in housing and general architectural work of a Local Authority, and should have passed the R.I.B.A. Intermediate Examination or its equivalent.

Applications, on forms to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned not later than 17th July, 1954. 3139

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

(a) PLANNING OFFICERS, Grade III (up to £862 10s.).

(b) PLANNING ASSISTANTS (up to £731).

Professional qualifications: A.R.I.B.A., A.R.I.C.S. and/or A.M.T.P.I. required. Application forms and particulars from Architect (AR/EK/P/4), County Hall, S.E.1. (1328) 1336

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies for ARCHITECTS in Schools and Housing Divisions. Salary to £721. Particulars and application forms from Architect (AR/EK/A/2), County Hall, S.E.1. (374.) 2205

WEST SUFFOLK COUNTY COUNCIL.
ASSISTANT ARCHITECT. N.J.C. service conditions. Salary: £695-£760 (A.P.T., VI). Post pensionable; medical examination. Applicants should have had at least two years' office experience. Application forms, obtainable from the Clerk of the County Council, Shire Hall, Bury St. Edmunds, to be returned by 17th July, 1954. 3065

LONDON COUNTY COUNCIL.
ARCHITECTS AND SURVEYORS required for safety regulations of Theatres and special buildings, and for general building regulation work. Salaries up to £362 10s., according to experience. A.R.I.B.A. or A.R.I.C.S. essential. Particulars and application forms returnable by 23rd July from Architect (AR/EK/TBR/3), County Hall, S.E.1. (848) 3112

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

ASSISTANT (at Intermediate stage) required for Architects' London office engaged in major works of restoration and construction of Schools and Colleges. Appointment offers excellent opportunities for supervision of works and calls for a candidate with initiative. Salary £350-£450 per annum. Box 2974.

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS and Draughtsmen or women required in busy office in the Home Counties. Some experience essential. Large varied practice. Please state experience and salary required. Box 3171.

ASSISTANT required, intermediate/Final Standard, previous office experience and ability to do working drawings, surveys and specifications essential. Write details of age, training and experience to Box 2E G3179, A.K. Adv., 212a Shaftesbury Ave., London, W.C.2. 3057

ASSISTANT required. Qualified or approaching Final, and with experience. Immediate requirement is for large-scale and interesting work. Valuable experience for keen man. Watson, Johnson & Stokes, Victoria Square, Birmingham. 2958

ASSISTANT for general practice in Midlands. One about to finish 3- or 5-year School course suitable. Box 2960.

A SENIOR ARCHITECTURAL ASSISTANT required, full experience in preparation of Working Drawings, Details, and supervision of office and Industrial Buildings in the London Area. Good knowledge of construction and design essential. Apply in writing giving full particulars of qualifications, age, experience and salary required to Box 9829.

ECCLESIASTICAL ARCHITECT has vacancy for an ASSISTANT of Intermediate Standard who would be interested in old and new church work. Lawrence H. Bond, 11, Elmer Street, Grantham, Lincs. 2650

CLIFFORD TEE & GALE, F./F.R.I.B.A. require ARCHITECTURAL ASSISTANT, Intermediate standard, for industrial work in their office at 43, Frederick Road, Birmingham, 15. Five-day week. 3002

RILEY & GLANFIELD require one SENIOR ASSISTANT ARCHITECT for work on Churches, Private Houses, Factories, Shops, Flats, etc. CHA. 7328. 2967

ARCHITECTURAL ASSISTANT. Inter. Standard, with sound knowledge of construction and detailing for large commercial and industrial buildings, required by Architects in Westminster. Box 2994.

SINGLE ARCHITECTS, with R.I.B.A., two years' post graduate experience, offered fare New Zealand under bond, two years employment, large Wellington office. Salary: £600-£800. Enquiries accompanied by samples of work to: Williment, of 54, Baldry Gardens, S.W.16, until June 30, or Houghton, Son & Mair, Registered Architects, Lambton Quay, Wellington, N.Z. 2999

REQUIRED for Architects' office. Central London area, young qualified ASSISTANTS interested in design and construction. Write, stating experience and salary required. Box 2336.

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS required immediately in private office in Midlands. Should be quick, accurate draughtsmen with sound knowledge of construction and detailing. Please write stating age, when available, experience and salary required to Box 3050.

ARCHITECTS' ASSISTANTS required by a large Chain Store organisation. Commencing salary £600 to £750 per annum, according to experience. Staff canteen. Pension scheme. Write Box AJ 333, LPE, 110, St. Martin's Lane, W.C.2. 3048

REQUIRED at Company's Head Office, Guildford. ARCHITECTURAL ASSISTANT, A.R.I.B.A. Varied work, mainly factory. Five-day week. Salary by arrangement. Box 3076.

ARCHITECTURAL Assistant required immediately, inter-final standard. Interesting and varied work, including schools, hotels, estate development and domestic. Apply stating experience and salary required, to Ruddle & Wilkinson, F./L./A.R.I.B.A., Architects, Long Causeway Chambers, Peterborough. Telephone No. Peterborough 5248/9. 3047

INTERMEDIATE R.I.B.A. Assistants required immediately in busy London Office. London experience essential and previous work on Commercial contracts an advantage. Write stating previous experience and salary required to Box 3045.

SENIOR Assistants with considerable experience of Commercial works in London area required at once. Messrs. Lewis Solomon, Son & Joseph, 21 Bloomsbury Way, W.C.1. Holborn 5108/9. 3046

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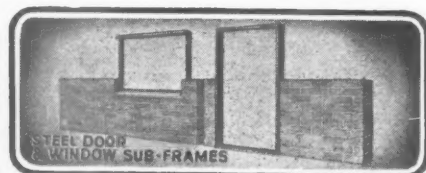
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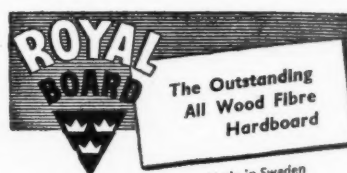
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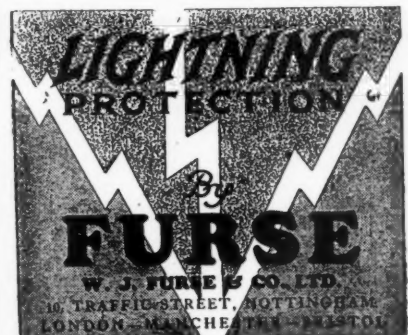


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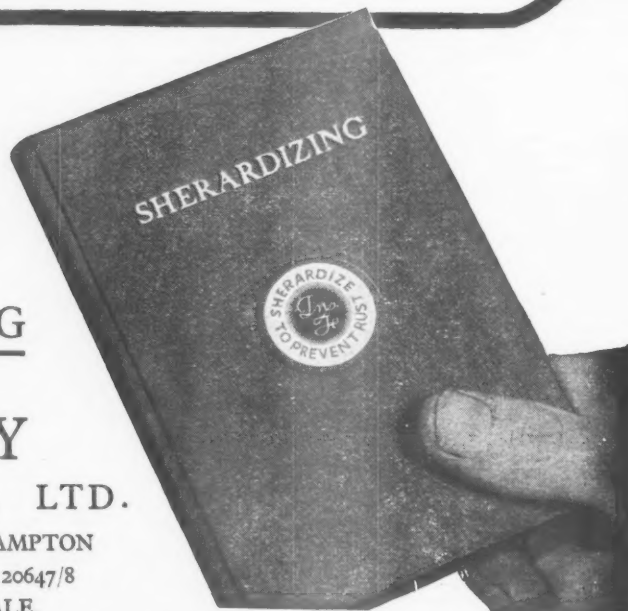
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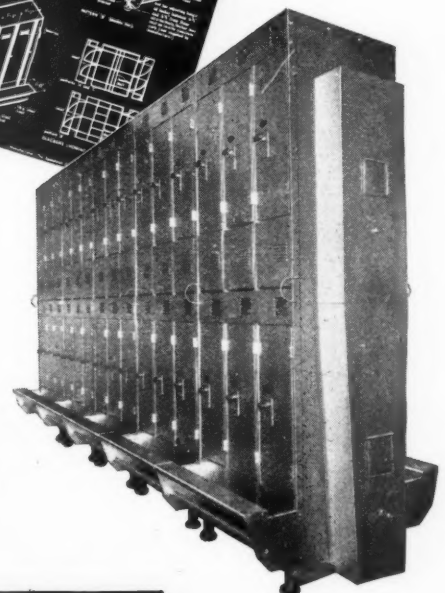
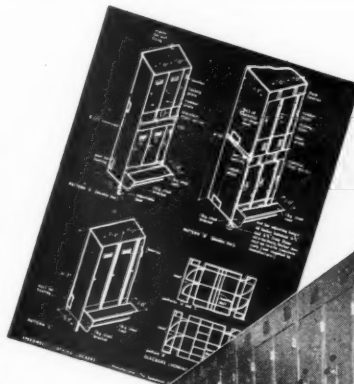
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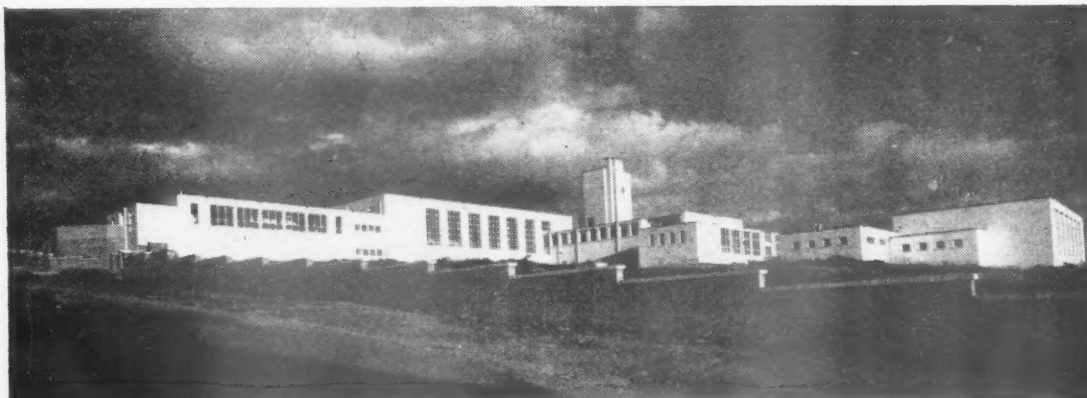
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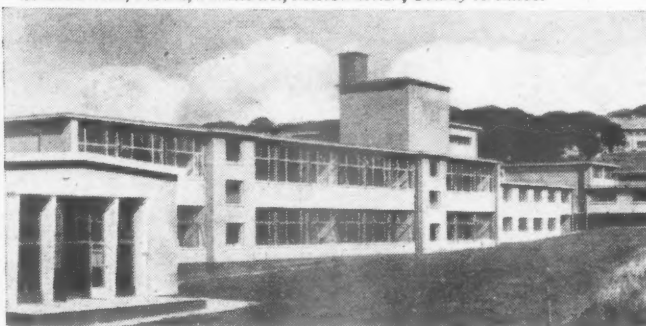
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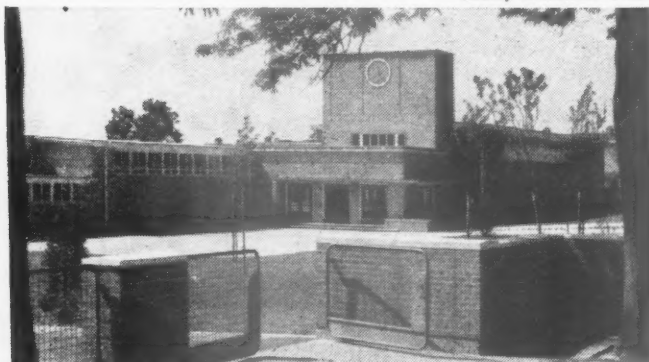
Fort Luton County Primary School, (Temp. County Sec.) Clatham Kent
Architects: Read & McDermott, F.R.I.B.A., in collaboration with
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Valley Primary School, Whitehaven, Cumberland
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