

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Diary
News
Astragal's Notes and Topics
Letters
Societies and Institutions

TECHNICAL SECTION

Information Sheets
Information Centre
Current Technique
Questions and Answers
Prices
The Industry

PHYSICAL PLANNING

SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

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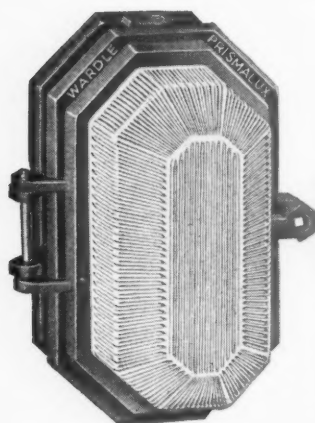
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ie one week, Ig to Z the next. In all cases where 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
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. 34/36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 8738
ASew	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
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. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. A.vechurch, 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. Millbank, S.W.1.	Whitehall 5140
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. 28, Victoria Street, S.W.1.	Abbey 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., 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 Architect and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub-Contractors, Artillery House, Artillery Row, London, S.W.1. Abbey 7232	
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs. Ulverston 201	
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1. Chancery 7583	
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1. Langham 4041	
FS (Eng.)	Faculty of Surveyors of England. Buckingham Palace Gdns., S.W.1.	Sloane 2837
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 5615	
ICA	Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1.	Grosvenor 6186
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215

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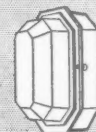
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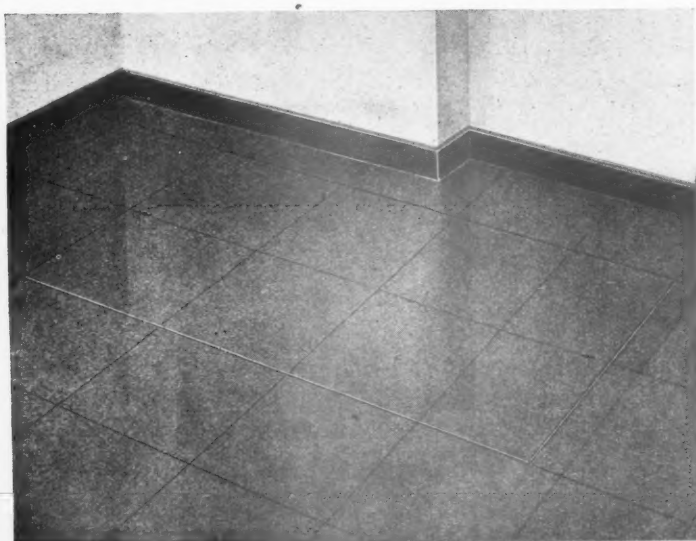
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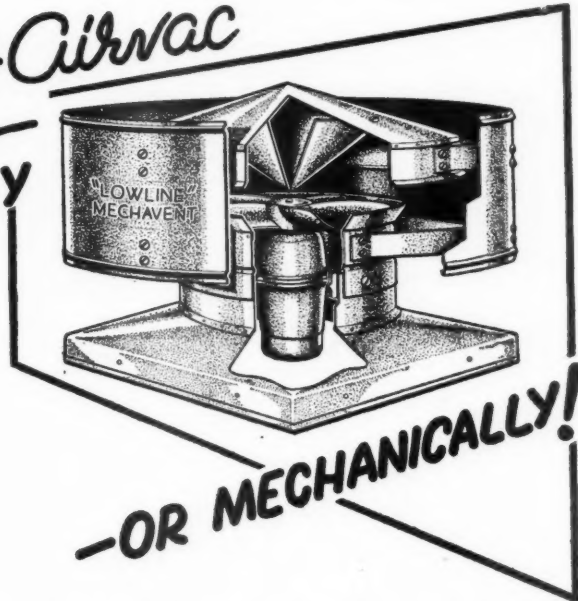
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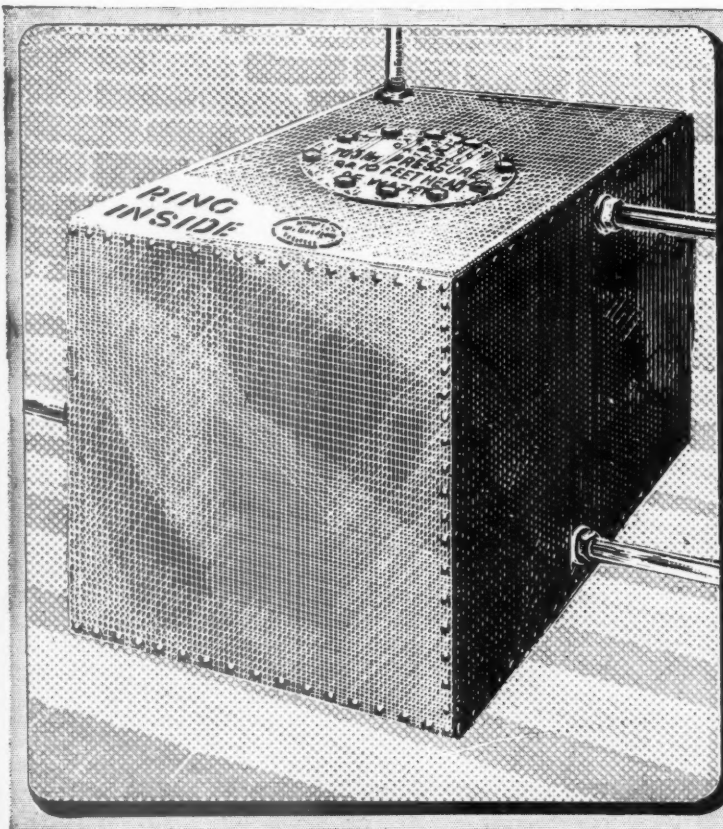
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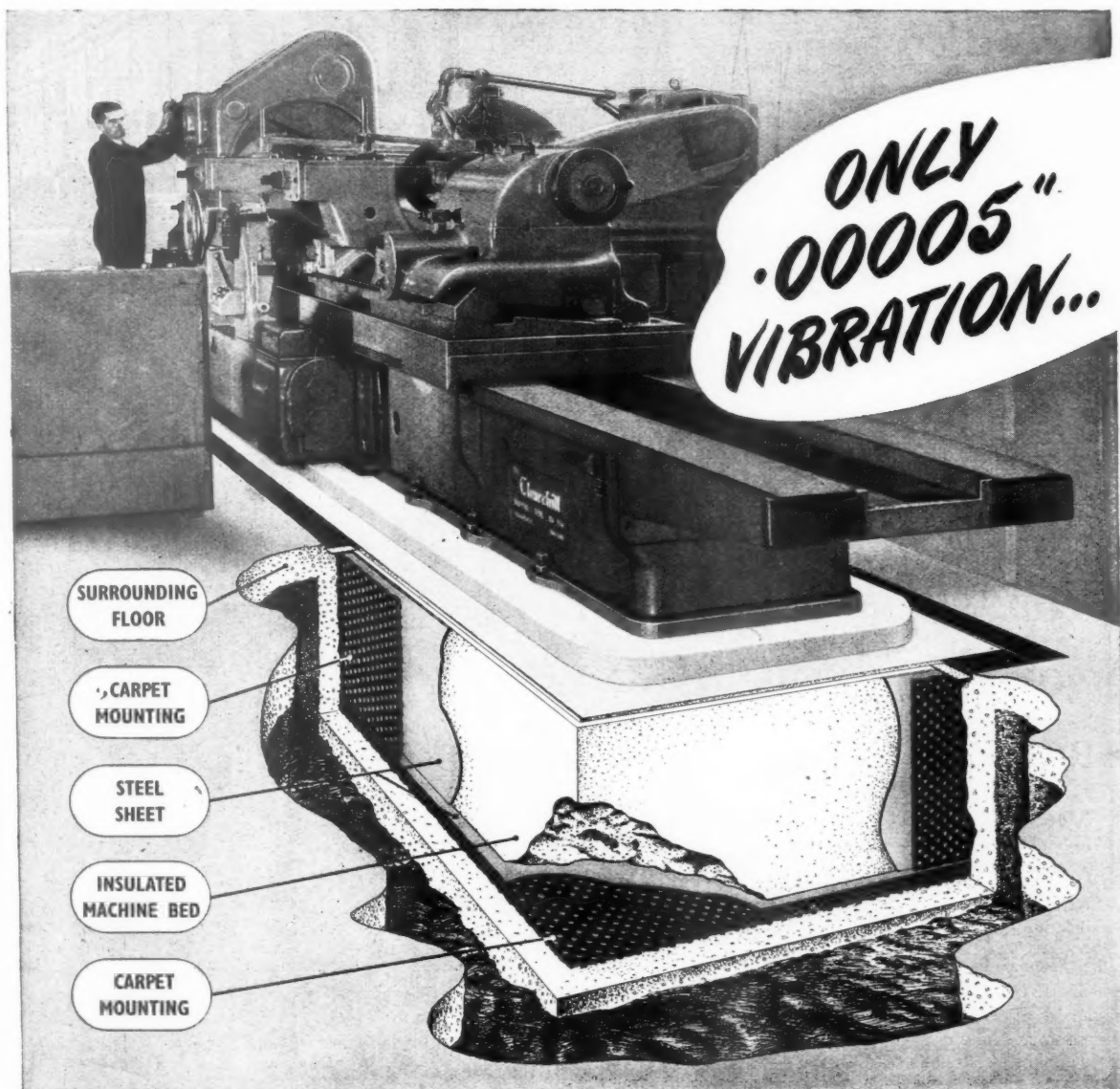
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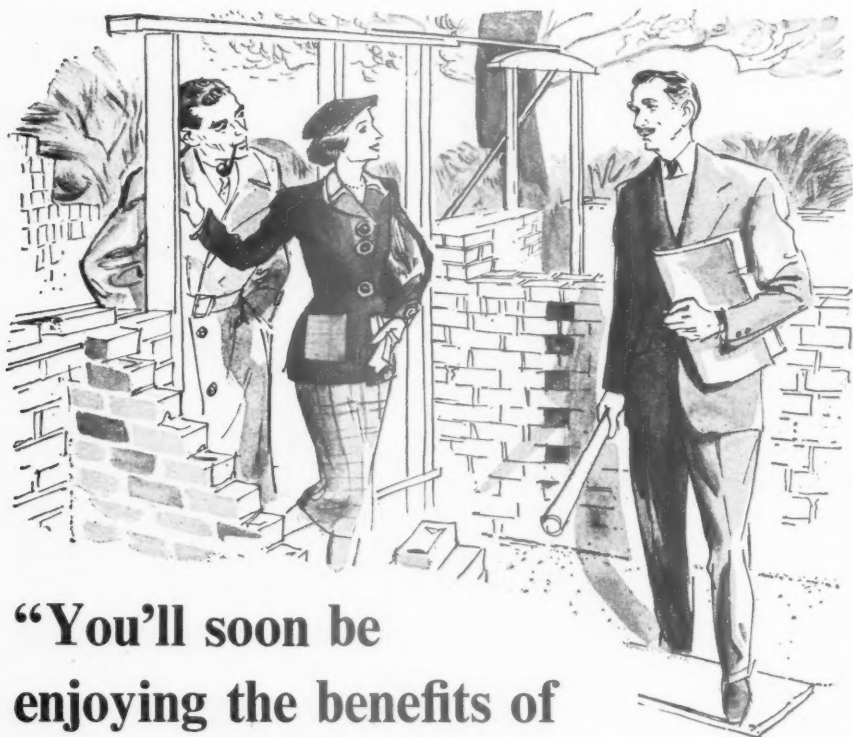


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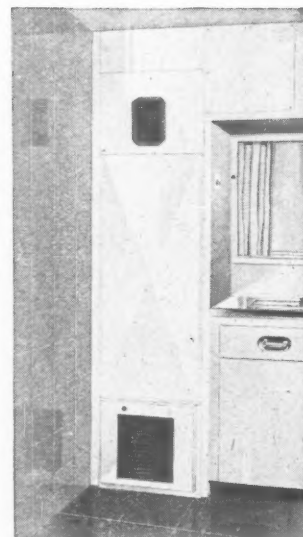
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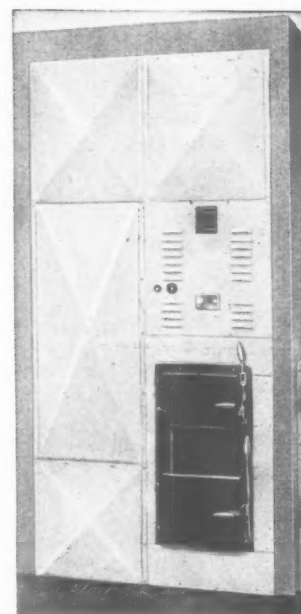
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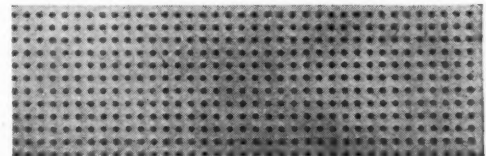


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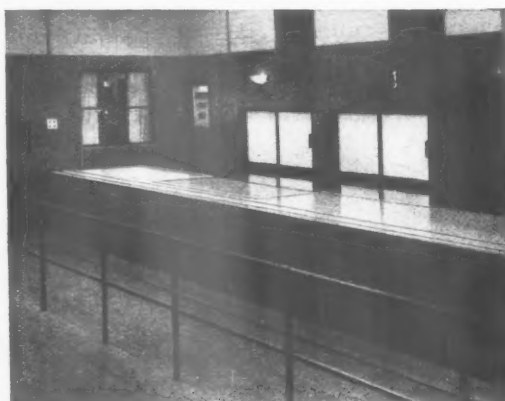
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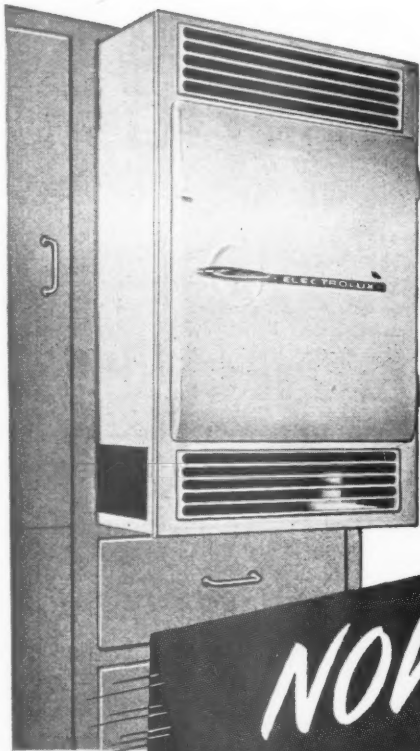
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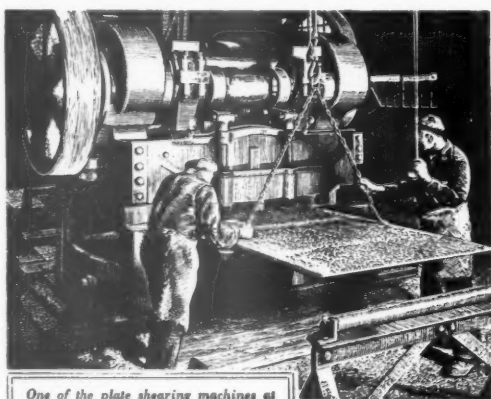
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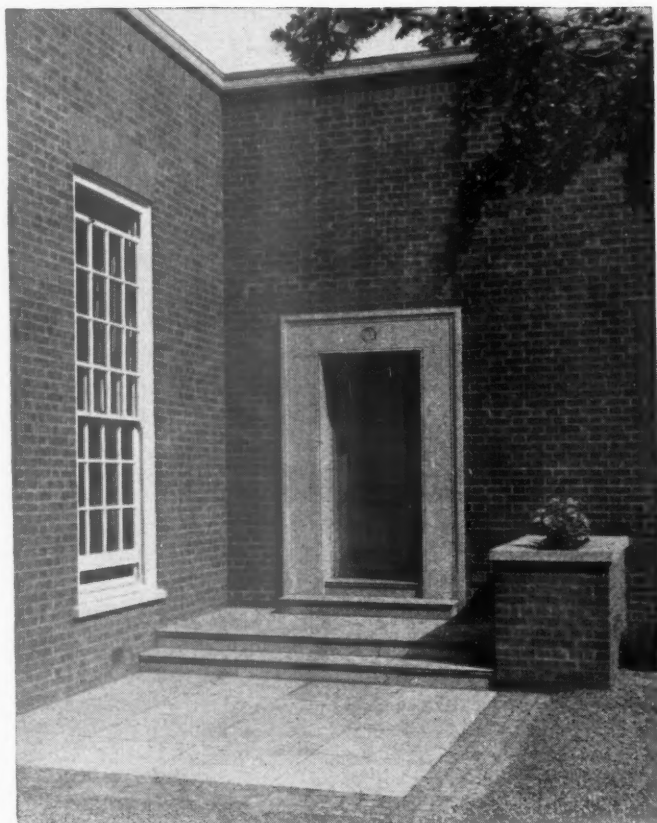
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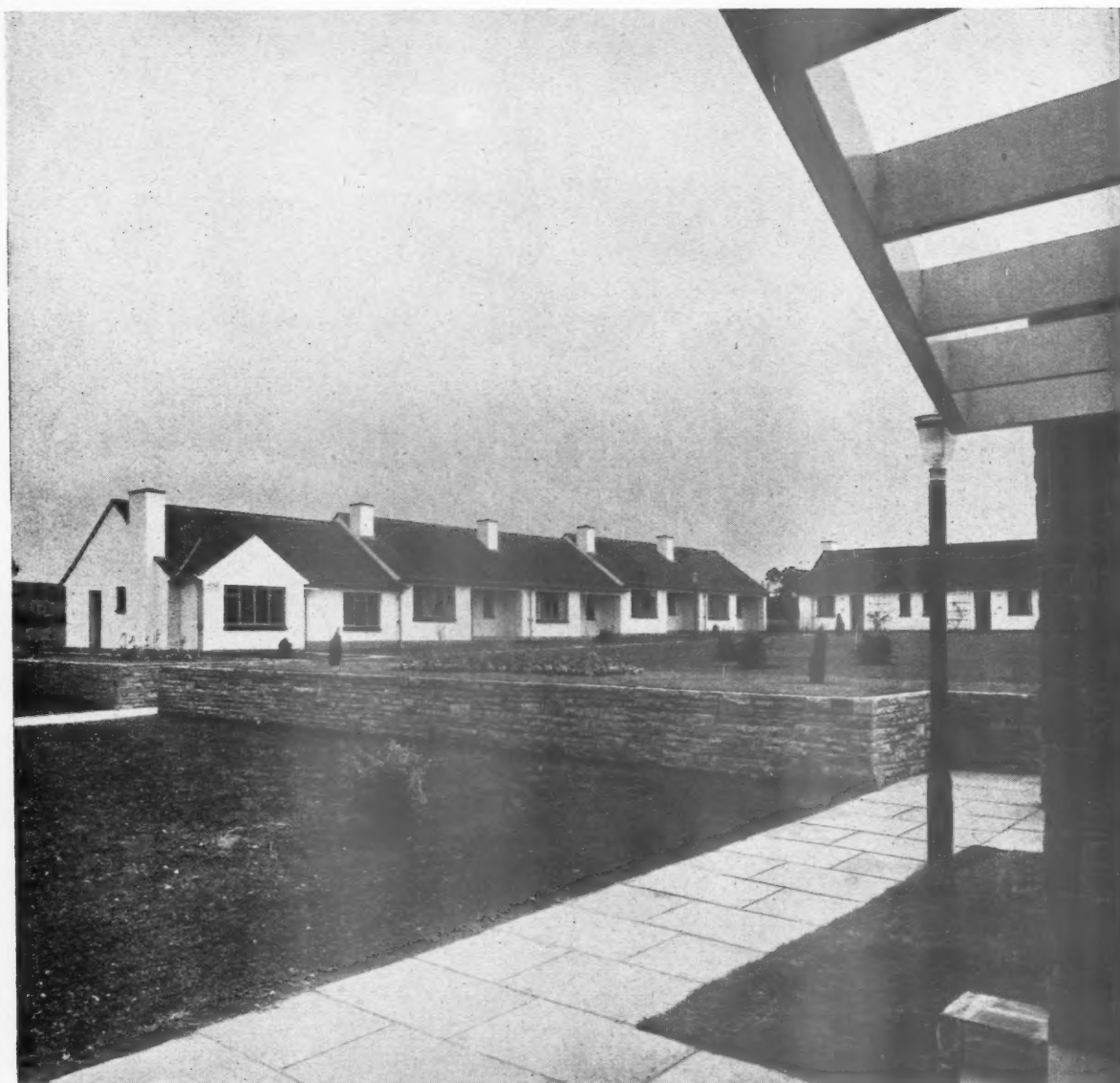
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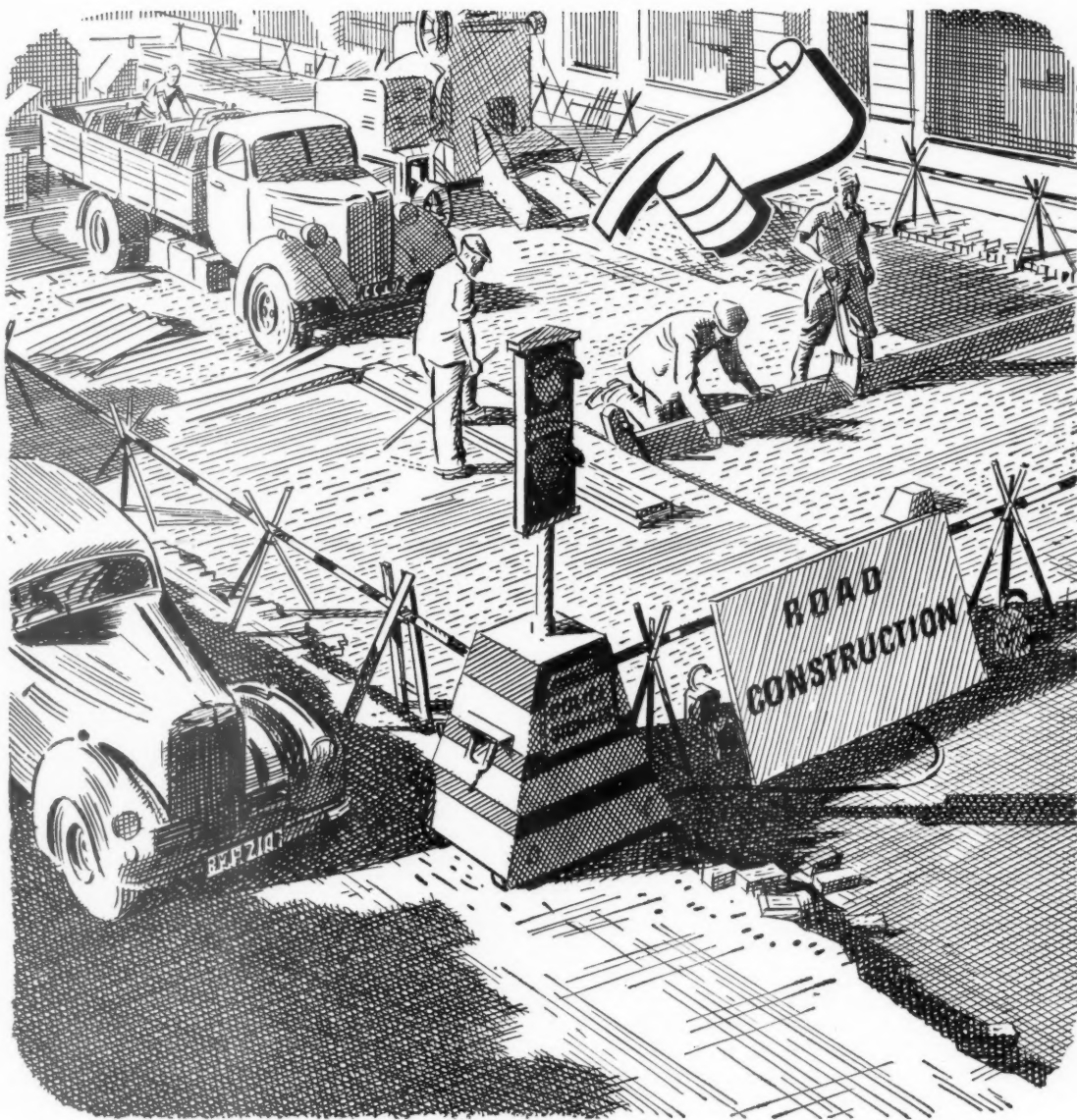
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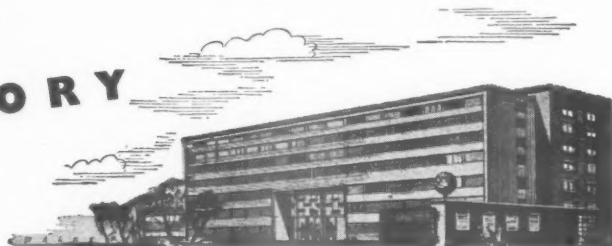
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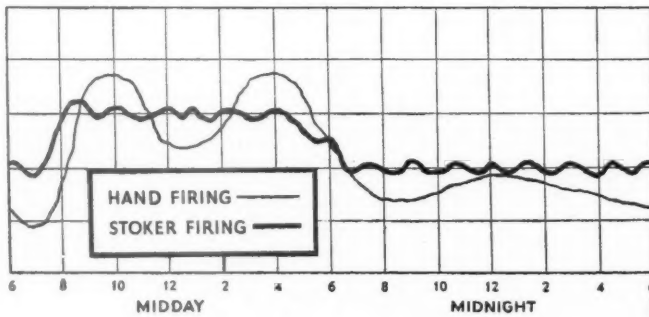
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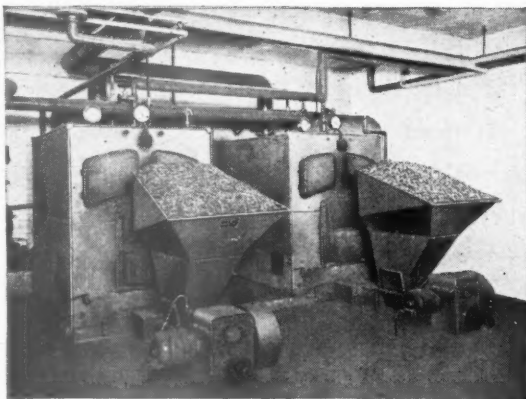




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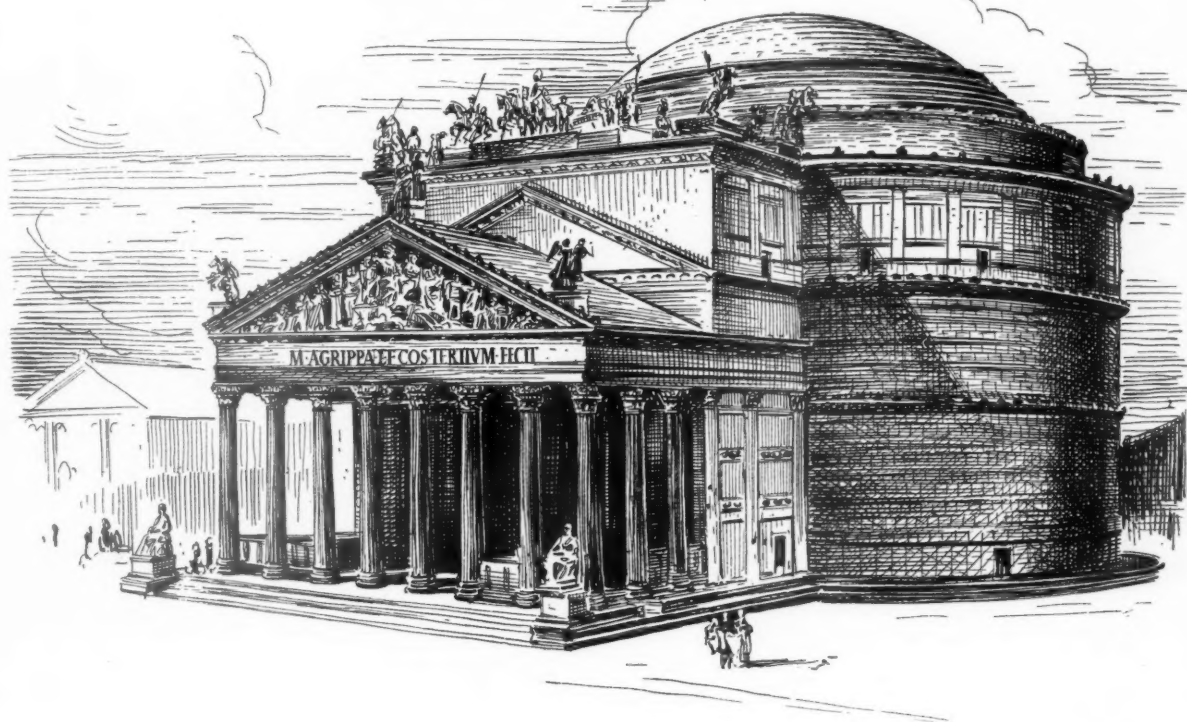


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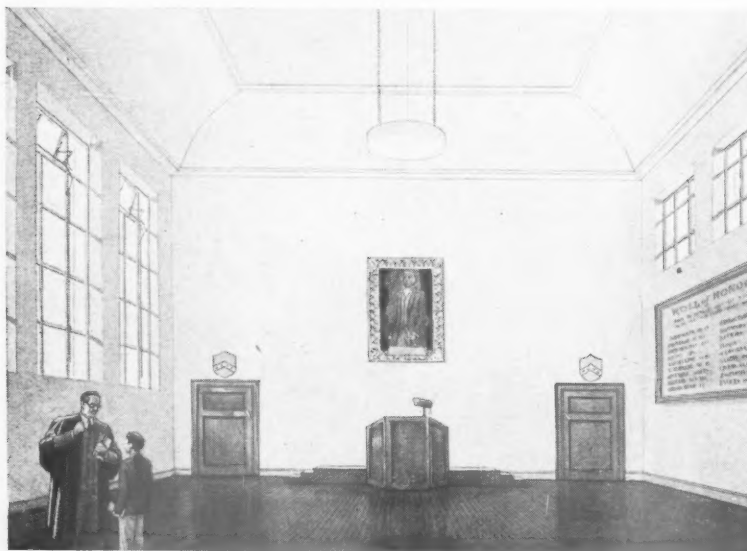
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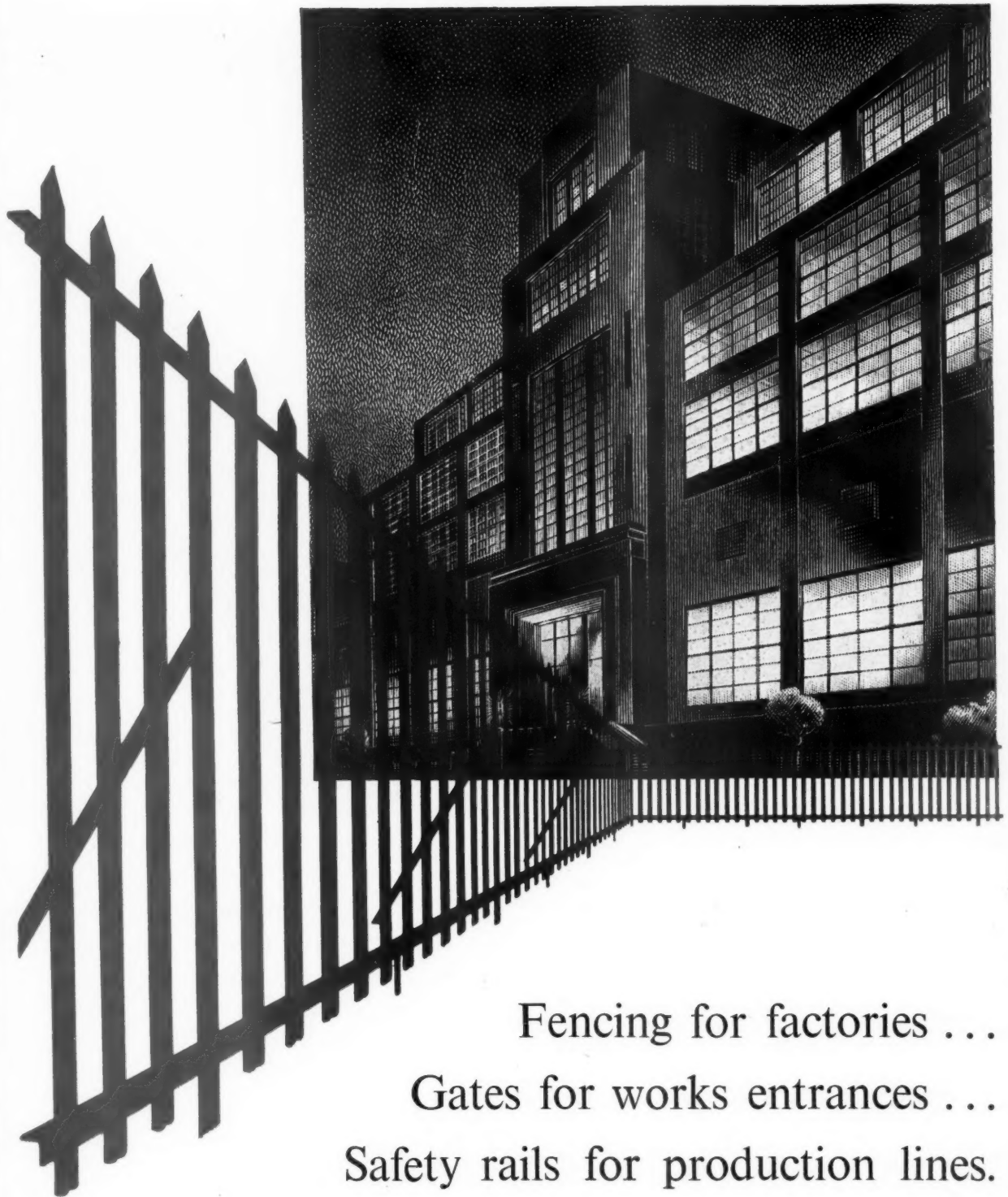
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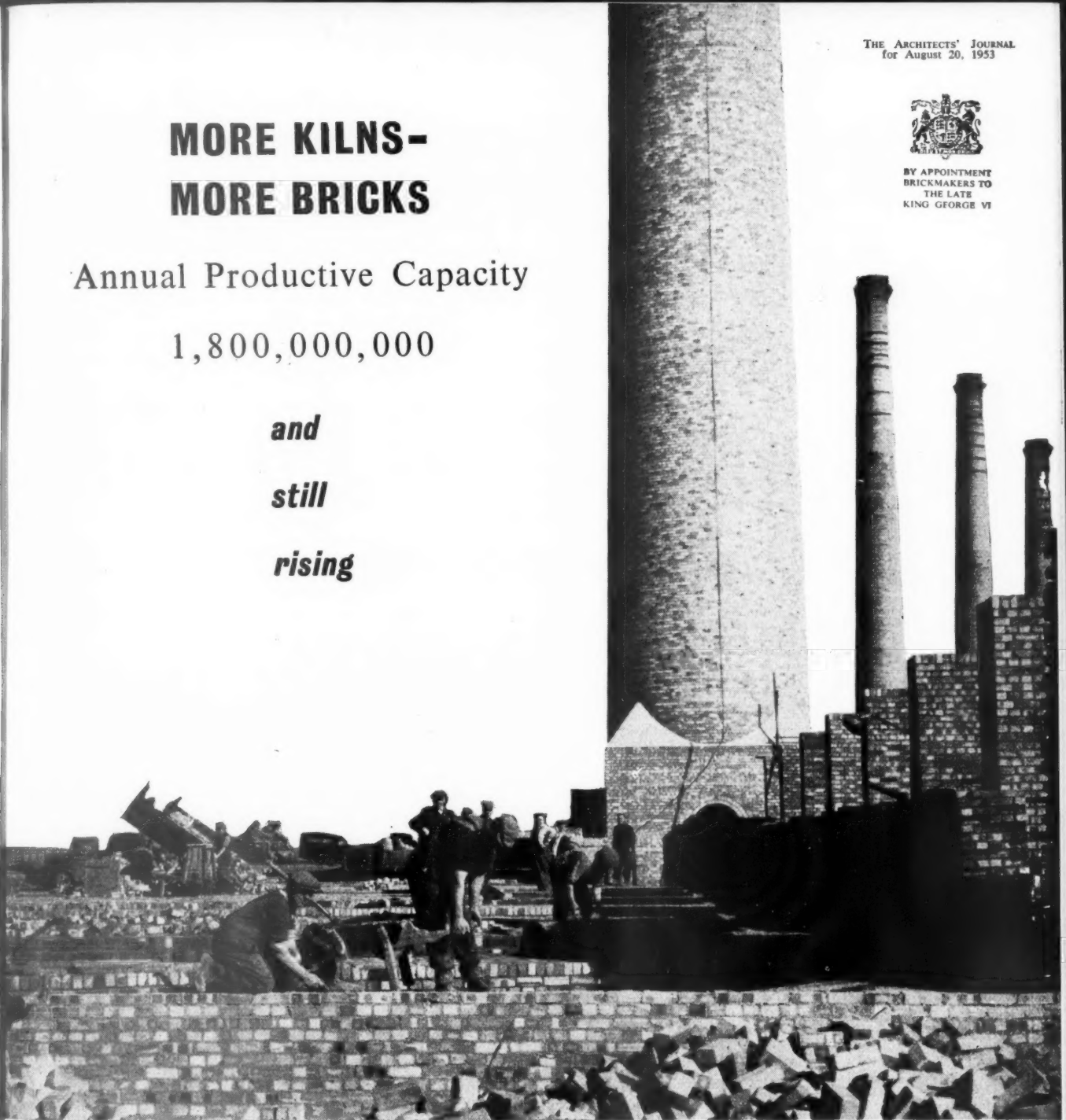
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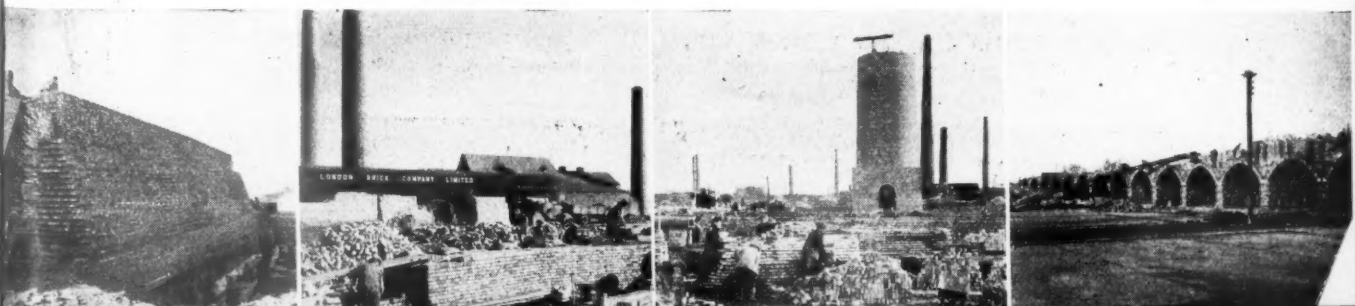
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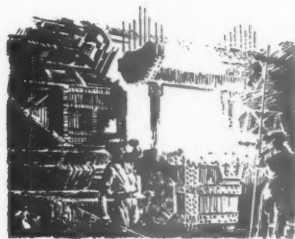


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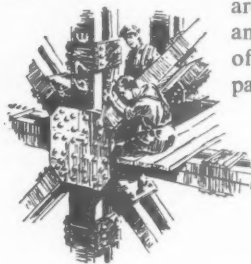
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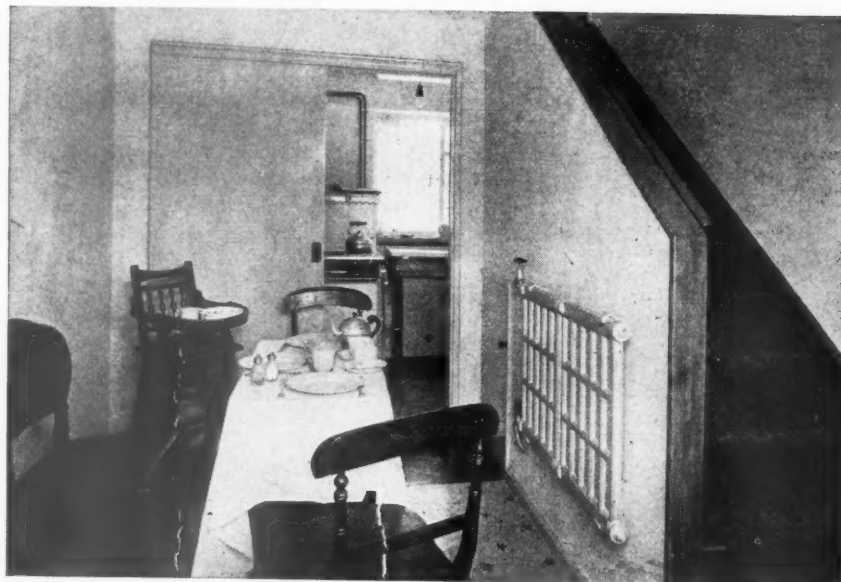


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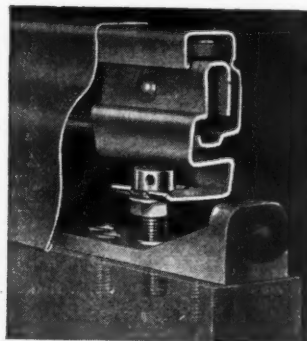
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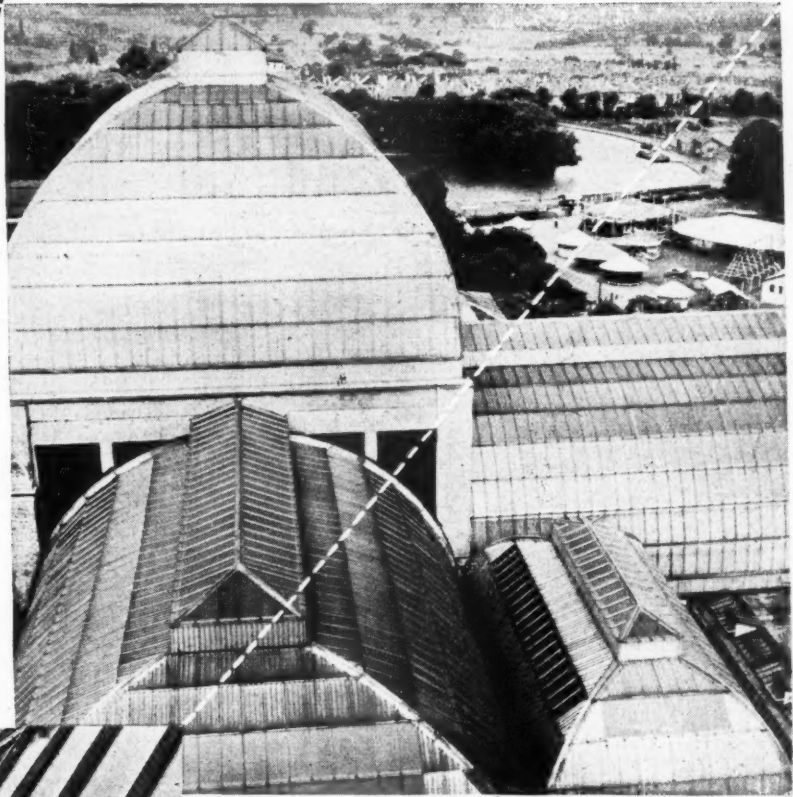
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View of part of roof of East Hall of Alexandra Palace.
Photograph by Courtesy of the Alexandra Palace Trustees

Outside of roof showing
horizontal junction
corrugated aluminium sheet
to glazing. Note
brake pressed aluminium sheet
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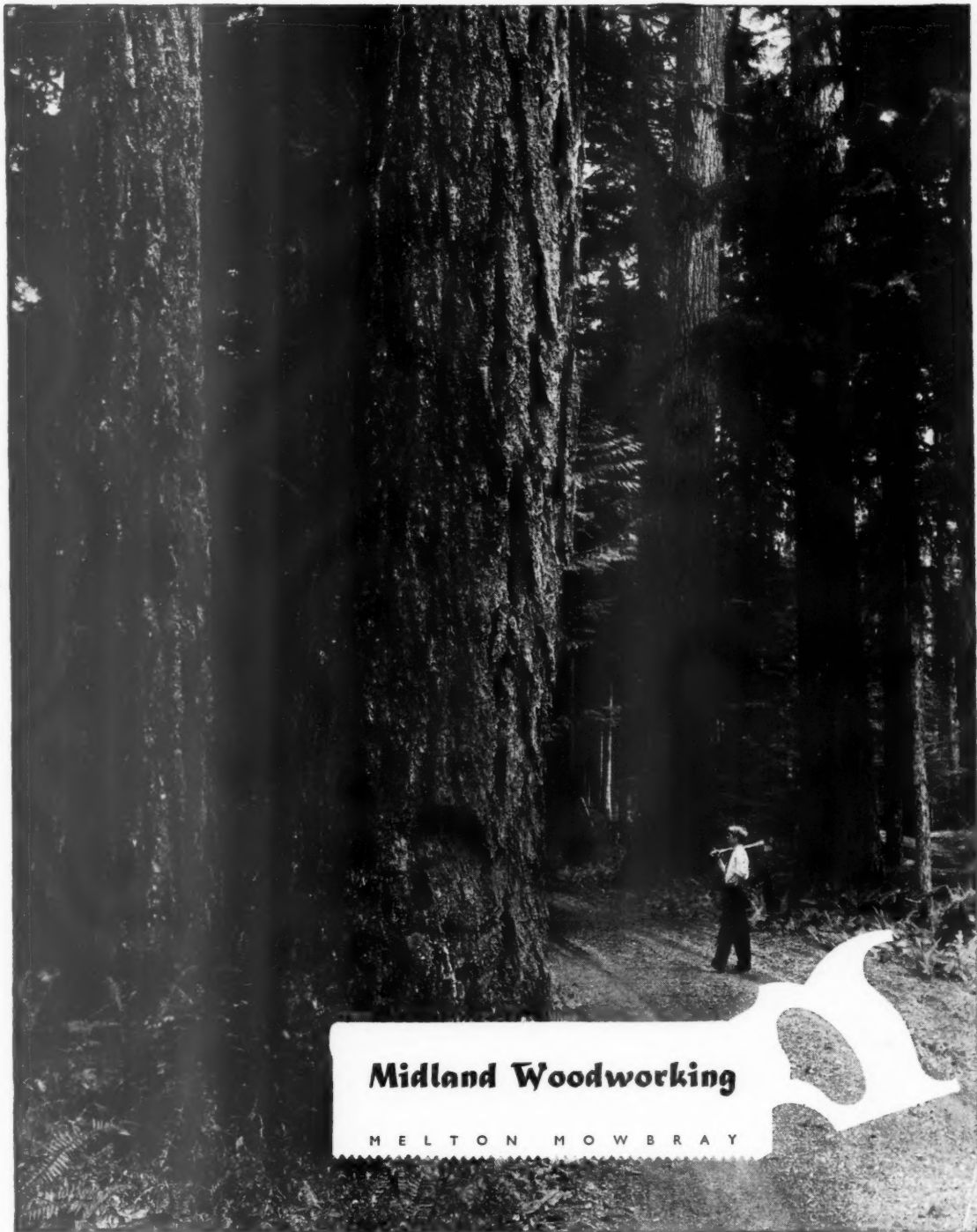
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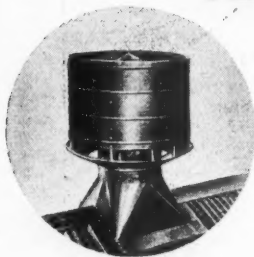
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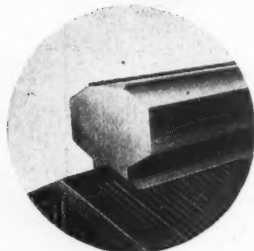
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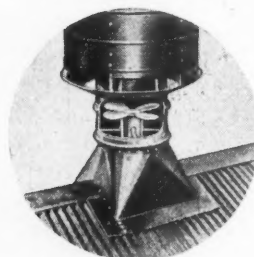
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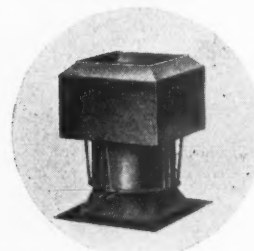
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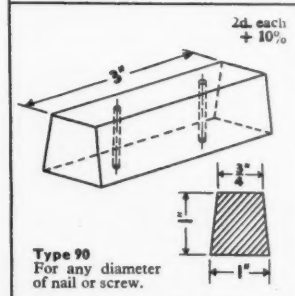
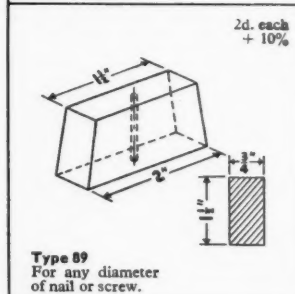
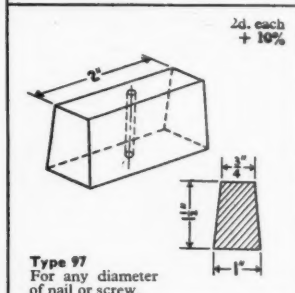
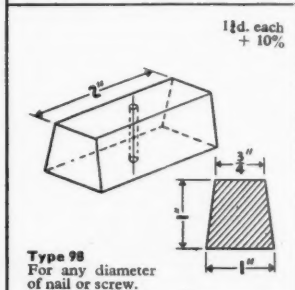
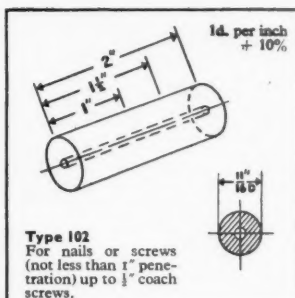
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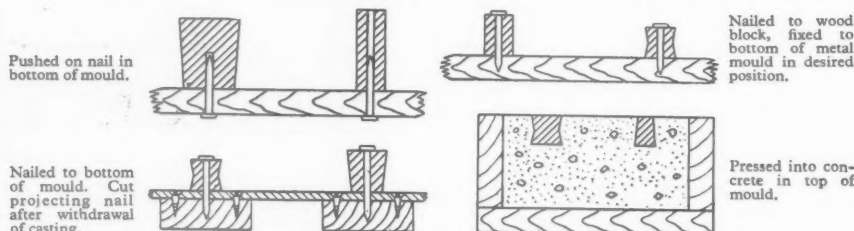
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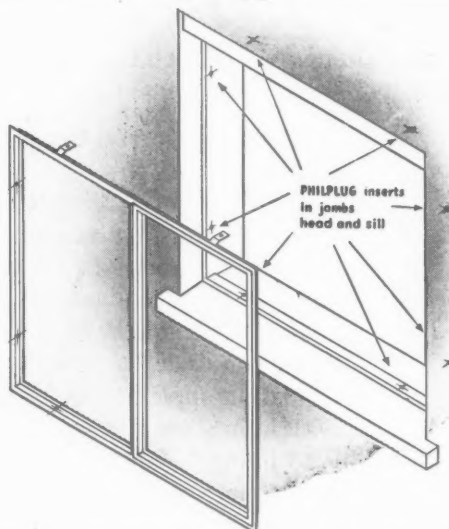


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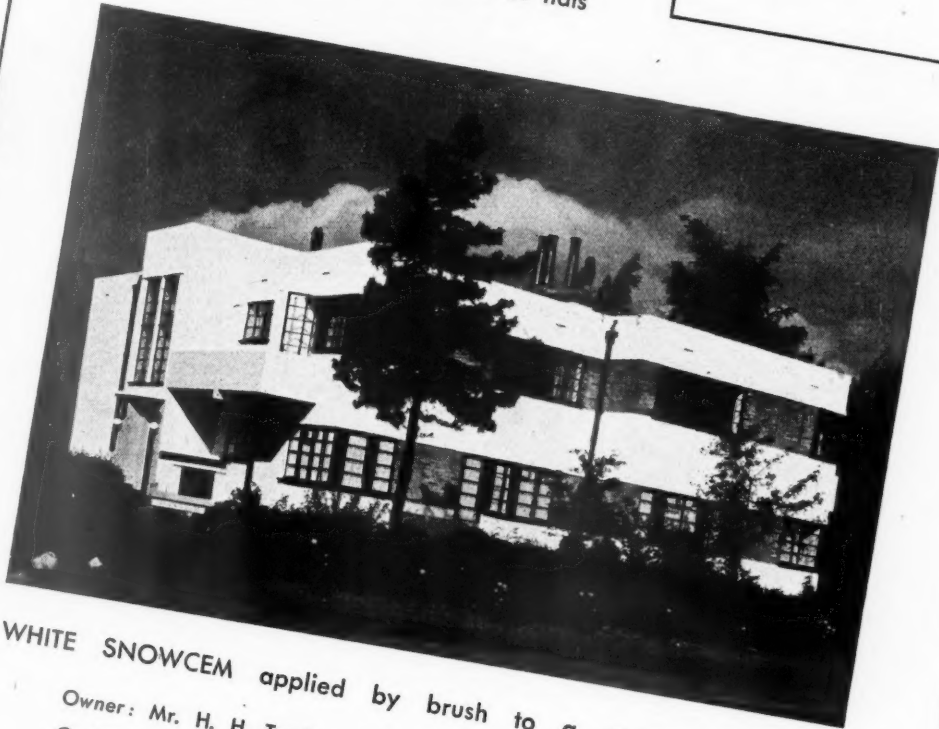
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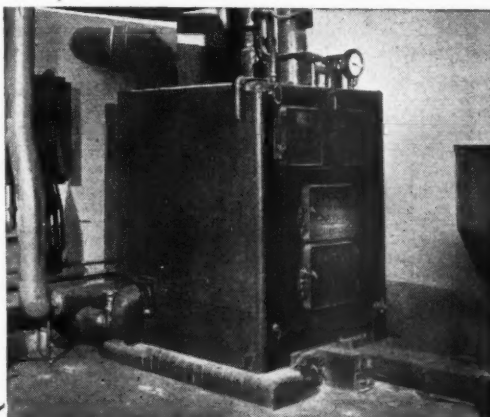


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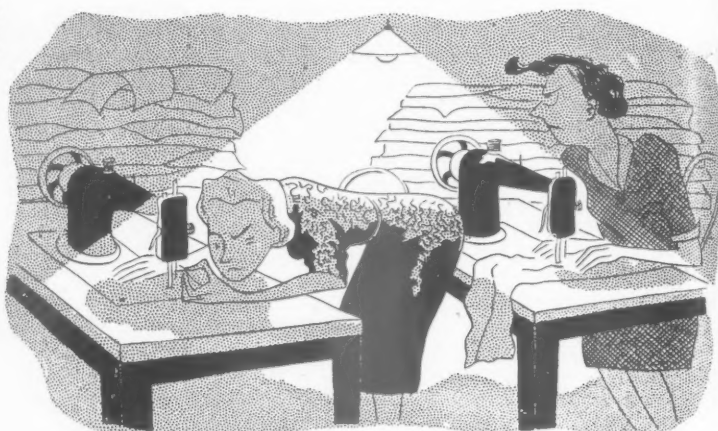
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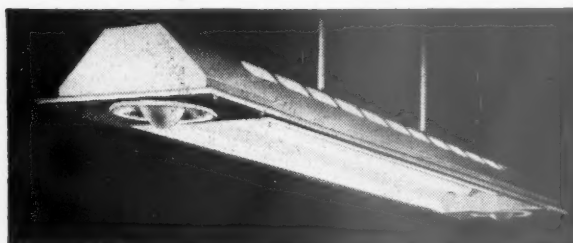
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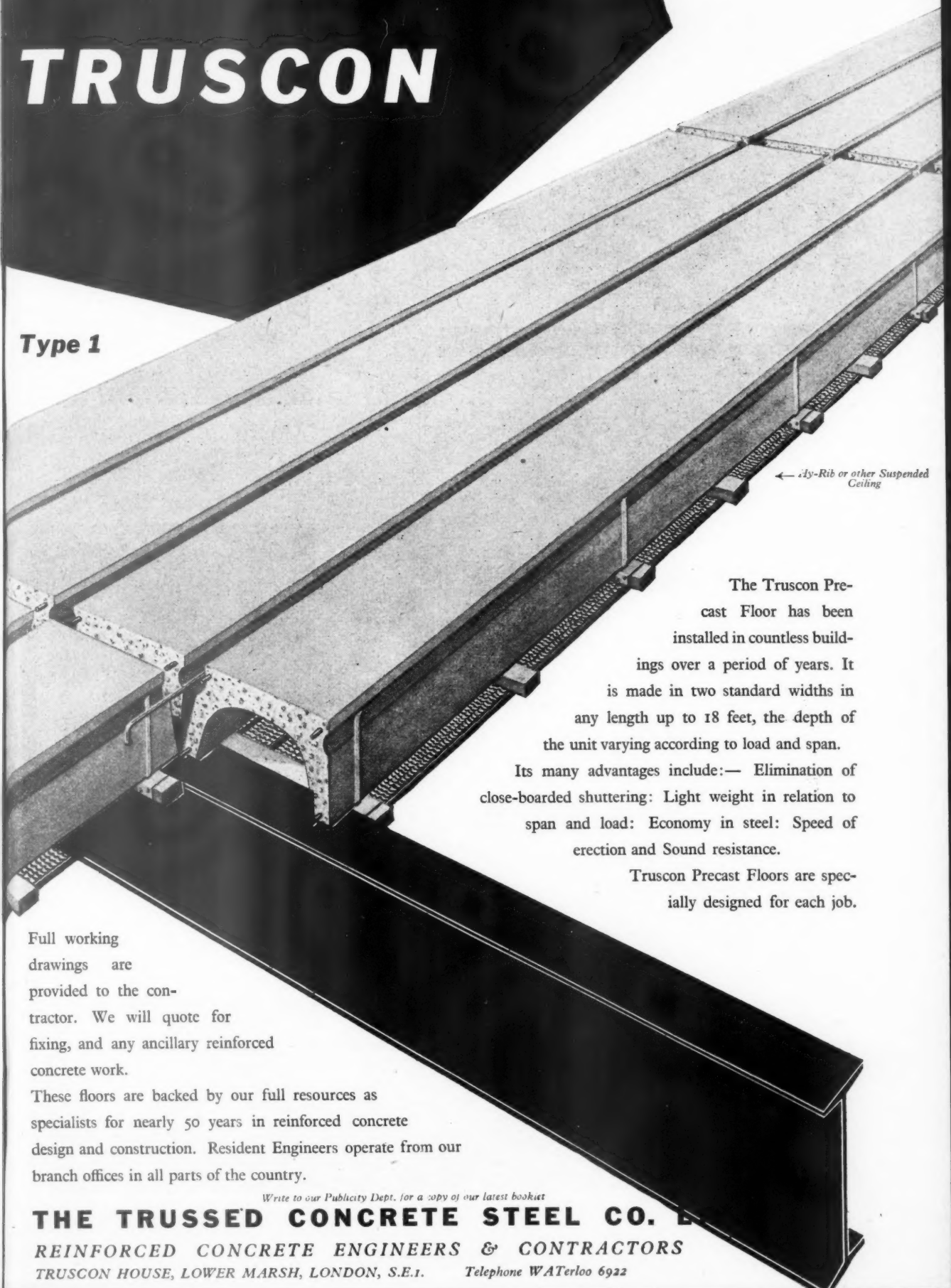
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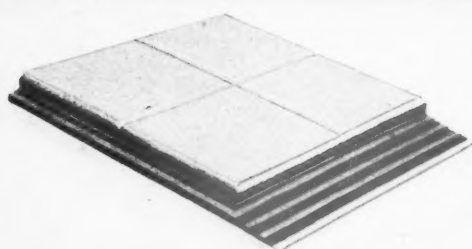
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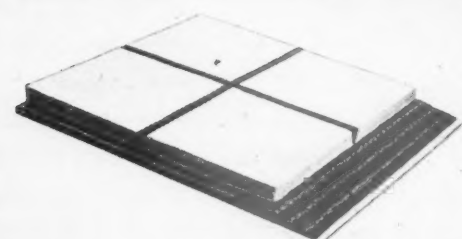
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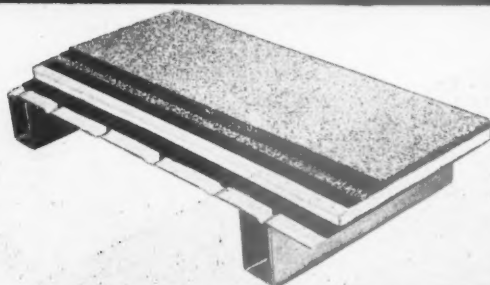
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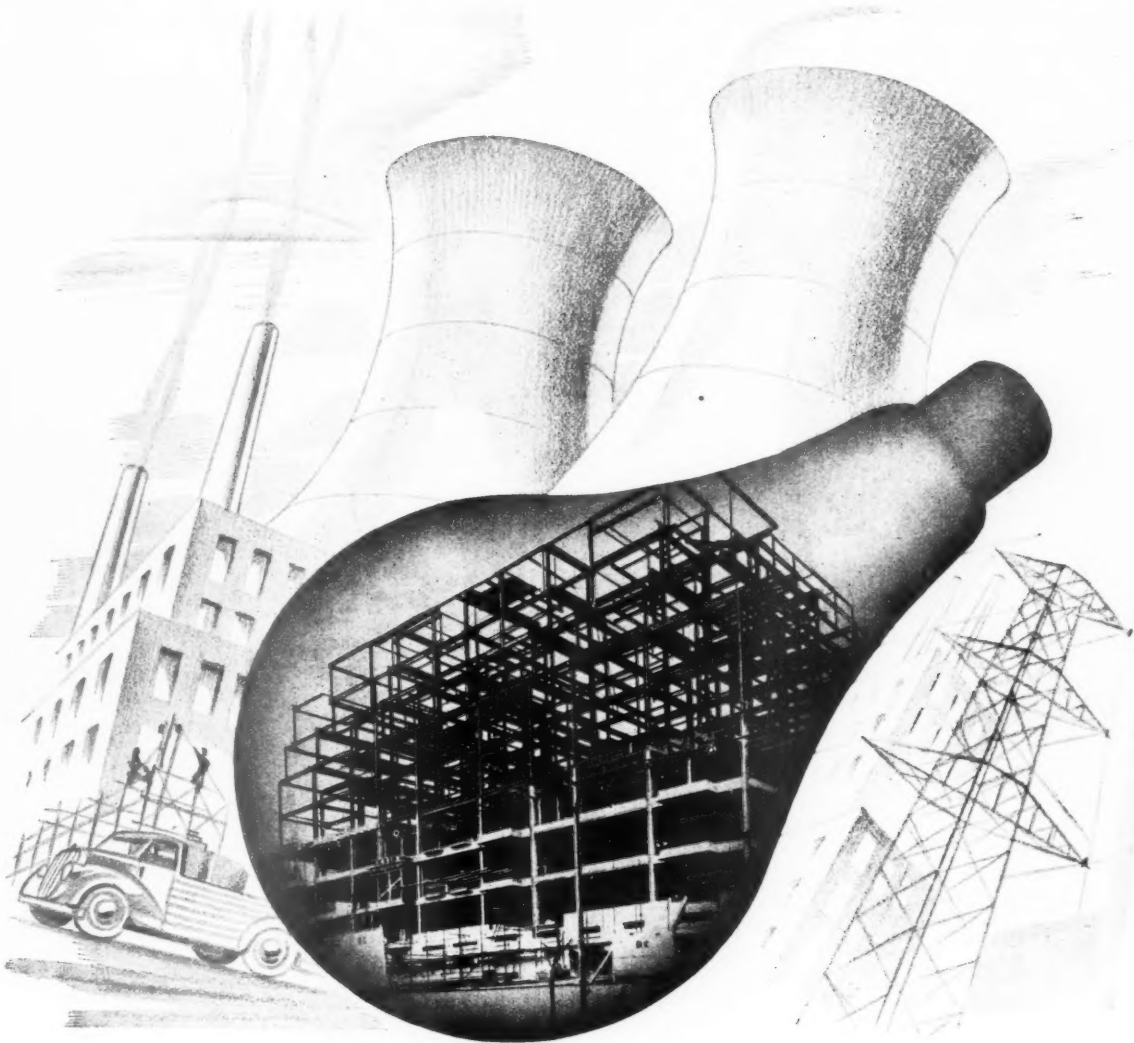
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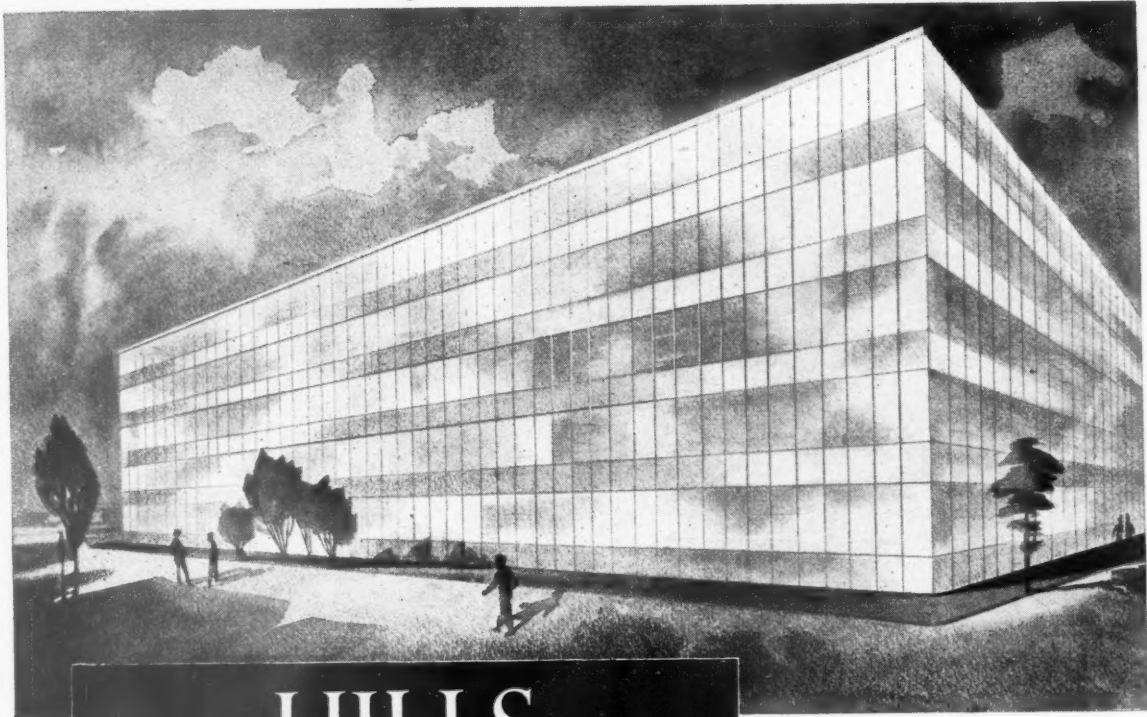
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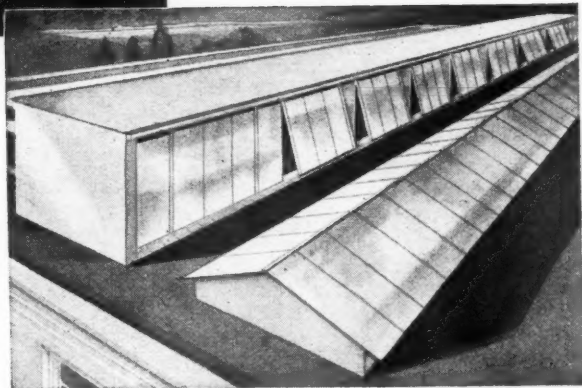


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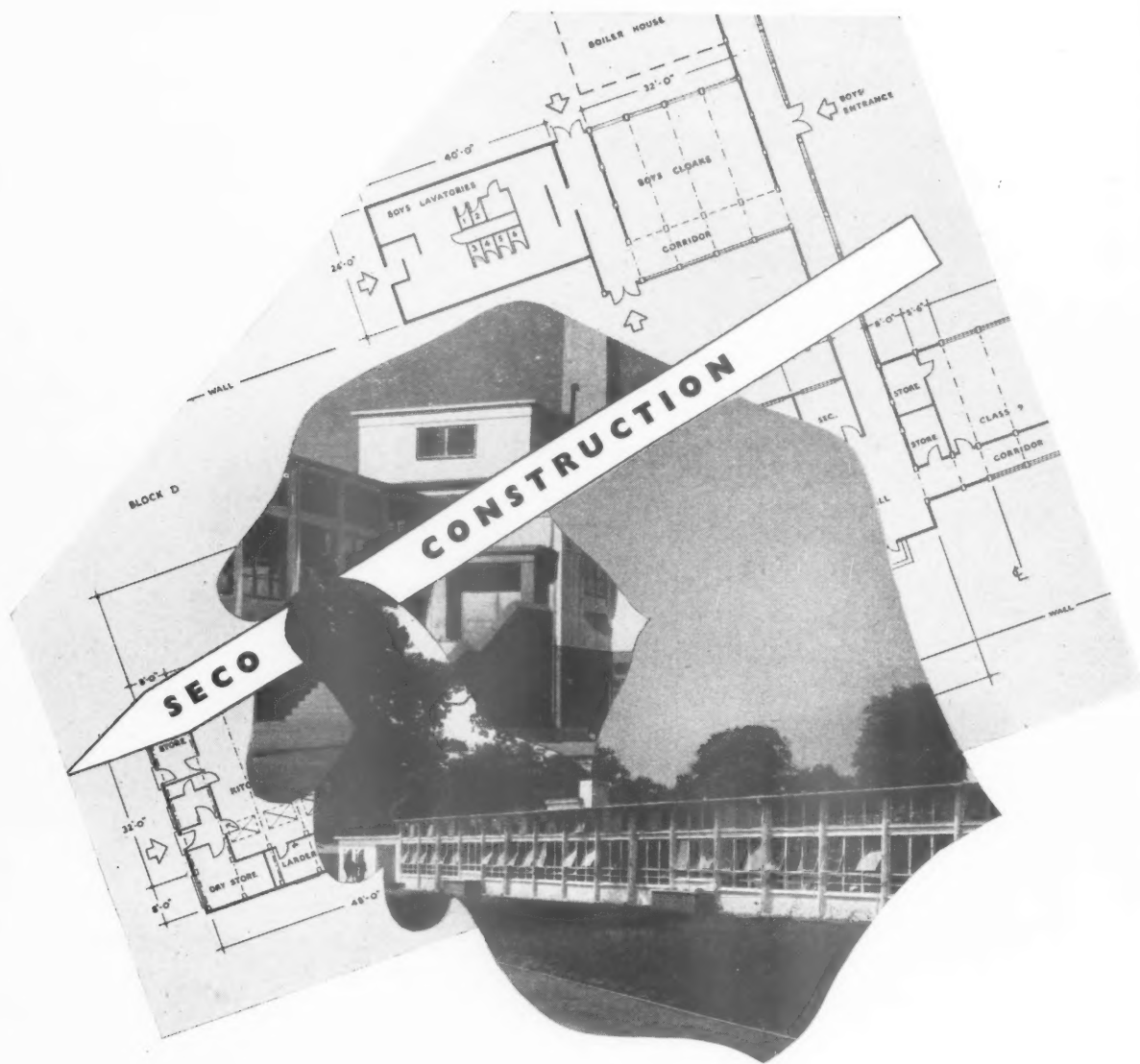
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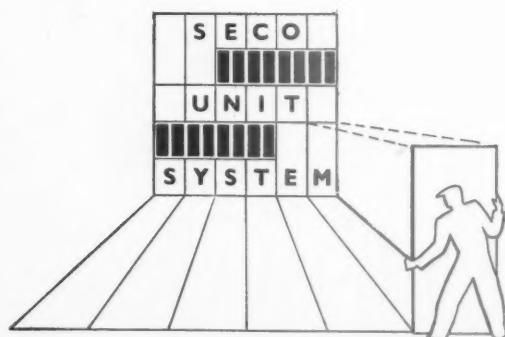
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ADVANTAGES

1. Lancaster Washable Wallcovering provides the equivalent of four coats of good paint applied in one single operation. As the directions for fixing show, hanging is simplicity itself since the paste is spread on the wall and NOT on the wallcovering.
2. Because of its cotton backing, imperceptible butt-joints can be obtained with little practice.
3. Unlike paint, it will not show unsightly cracks that may develop in the plaster, nor will it chip or show brush marks.
4. Because the composition of the coating is oil paint it is easy to keep fresh and clean. Ordinary dust and dirt can be removed with a damp cloth, whilst grease and more recalcitrant marks will respond to warm water and a little mild soap.
5. Because it is so easily cleaned it is thoroughly hygienic.

COLOUR RANGE

Lancaster Washable Wallcovering is normally finished with a light attractive emboss which gives a pleasant feeling of texture and design. It has a degree of gloss which is perfectly adapted to its function.

It is supplied in a range of plain colours covering all the popular shades of cream, stone, biscuit, grey, etc., and in addition in certain standard effects such as polka dots, wood veneers and marble facings.

USES

Lancaster Washable Wallcovering is used *par excellence* where wear and tear are heaviest. Schools, hospitals, hotels, etc., are obviously places where its advantages are most easily observed, but any office, kitchen or corridor offers a suitable site for its use.

ADHESIVE

It is recommended that the adhesive used for fixing Lancaster Washable Wallcovering should be the special "M" Paste made by A.I. Adhesives, Ltd., Ellingfort Road, Hackney, London, E.8. It is supplied in 7-lb., 14-lb. and 28-lb. tins, and in 1-cwt. kegs.

This paste has the necessary properties for obtaining a permanent bond between the Wallcovering and the wall and is also proofed against mould growth.

The paste is applied direct to the wall and NOT to the Wallcovering.



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Specification No. 1.

PLASTER WALL—

DRY AND CHEMICALLY NEUTRAL

Dry plaster walls, such as interior walls and most exterior walls in existing buildings, require little treatment and provided steps are taken to ensure smoothness, fixing can proceed at once.

Preparation. Rub the surface well with glass-paper to remove any roughness, loose particles, efflorescence, etc. Cracks to be filled in with plaster filler and broadknifed off and finally rubbed smooth.

Apply one coat of size.

Fixing. Apply paste to wall, approximately 1-lb. per three square yards (NOT to Lancaster Wallcovering), brush well, lay off evenly and allow to dry for a few minutes. Hand Wallcovering dry from ceiling downwards and pull into correct vertical position. Lengths to be close butt-jointed. Smooth out with paper-hanger's brush, and rub down vigorously with damp cloth to ensure complete adhesion to wall. Sponge off surplus paste and finish with wash leather.

Specification No. 2

PLASTER WALL—NEW

Lancaster Washable Wallcovering should not be used on any walls which are still wet. Reasonable time should be allowed for the plaster to dry and for efflorescence to subside.

Preparation. Rub the surface well with glass-paper to remove any loose particles, efflorescence, etc. Make good any defects in the plaster with plaster filler, broadknife off and finally rub smooth.

Allow to dry thoroughly.

Treat with one coat of a reputable alkali-resisting primer. Apply freely, brush well, and lay off evenly.

Allow to dry thoroughly.

Apply one coat of size.

Fixing. Instructions as Specification No. 1.

Specification No. 3

CEMENT WALL

Lancaster Washable Wallcovering can be used successfully on cement finishes provided the surface has been steel-floated and is reasonably smooth. Cement finishes, however, are particularly prone to alkalinity and efflorescence, and suitable treatment is necessary before fixing. The Wall-

covering should not be applied to surfaces which are still wet, and adequate time must be allowed for the cement to dry.

Preparation. Brush thoroughly to remove loose particles, efflorescence, etc. Give one coat of a reputable alkali-resisting primer. Apply freely, brush well and lay off evenly. Allow to dry thoroughly.

Apply one coat of size.

Fixing. Instructions as Specification No. 1.

Specification No. 4

PAINTED WALL

In order to use Lancaster Washable Wallcovering on walls that have previously been painted, it is only necessary to rub down with sandpaper to give good adhesion.

Preparation. Wash down thoroughly to remove grease. Rub down vigorously with sandpaper or pumice-stone to obtain the necessary key. Make good defects in the plaster with plaster filler, broadknife off and finally rub smooth.

Fixing. Instructions as Specification No. 1.

Specification No. 5

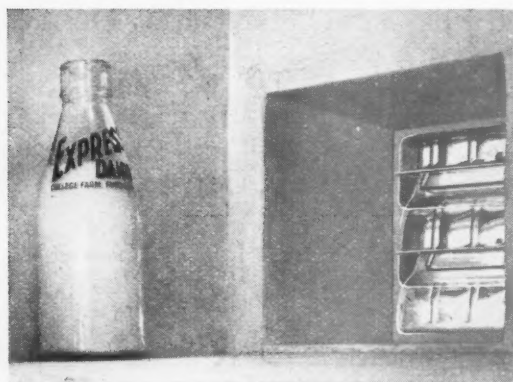
WALLBOARD

As Lancaster Washable Wallcovering provides its own cotton backing, it is most suitable for use on wallboard surfaces as joints do not need to be scrimmed.

Preparation. Fill in nail-holes and joints with plaster of Paris and rub smooth. Dust off thoroughly.

Apply one coat of size.

Fixing. Instructions as Specification No. 1.



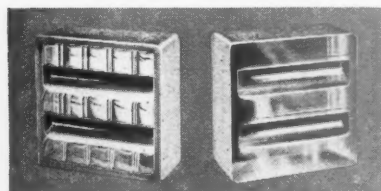
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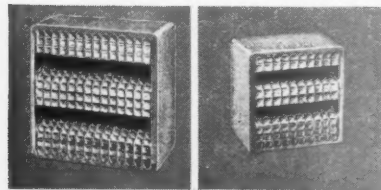


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*The aisle showing
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Information



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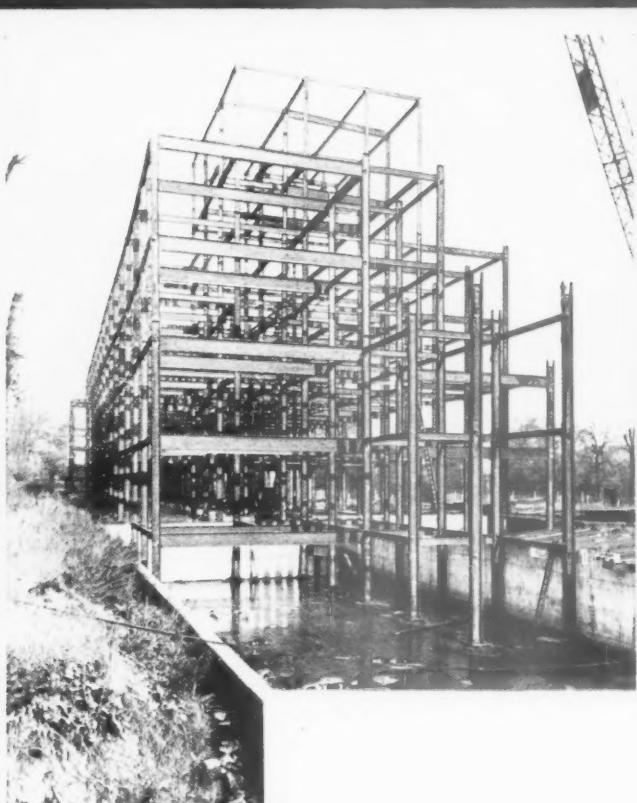


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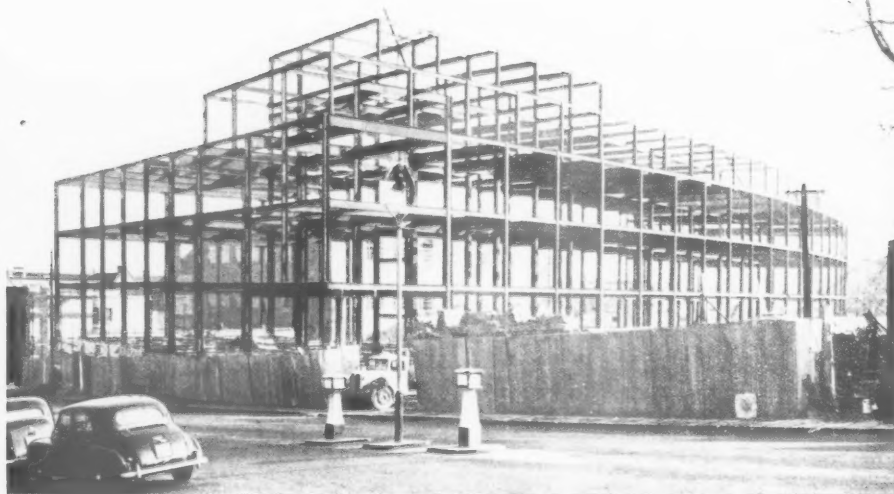


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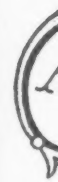


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THE ARCHITECTS' JOURNAL

No. 3051 August 20, 1953 VOL. 118

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WHAT'S WRONG WITH THE PROFESSION?

August is a quiet month for the profession, but no doubt a few of you pinkened under your rain-washed holiday faces when you read of Mr. Marple's recent attack on the architectural profession. Architects, he said—as you can hardly have forgotten—have not been “bold or convincing,” and “financially their creations have been too costly.” They should, he recommended, widen their outlook and abandon their out-moded professional conventions.

*

We were all pleased when Howard Robertson, the RIBA president, replied in the *Observer*, saying—among

other things—that bolder convincing buildings could not be readily created with second-rate or substitute materials under low-cost ceilings and other restrictions. And we were even more pleased when a layman, Nigel Fisher, M.P. for Hitchin, not only came to our defence in a subsequent issue of the *Observer*, but showed himself to be a reader of the *Architectural Review*. While hesitating to criticize a layman who has defended the profession, ASTRAGAL must point out to Mr. Fisher that, in the *Review* article he refers to, J. M. Richards took some trouble to show that most of the blame for the failure of the New Towns lay elsewhere than with the profession. (He did not imply, as Mr. Fisher states, “that this failure can be laid at the door of the architectural profession.”)

*

Mr. Fisher also had criticisms to make about the architect's professional code, which, he said, prevented architects and builders from working in closer collaboration. “In no other industry is the divorce of design and execution so complete. It is absurd that architects are not allowed to become directors of the boards of building companies.” I don't want to say much here about this tricky subject—except, simply, that although there are many parts of the code which could be modernized, there is no doubt that the snags in the code are outweighed by the protection it gives both to the public and to the profession.

CIAM AT MARSEILLES

The French strikes don't seem to have prevented the MARS Group members who attended the CIAM congress at Aix-en-Provence from making their way

back safe and sound after the busman's holidays of various kinds that most of them seem to have planned as a sequel.

*

Architects will be architects wherever they go, and for a fortnight after the congress, I am told, the architectural high-spots of the region—the Pont du Gard, the cloisters of St. Trophime at Arles, the Palais des Papes at Avignon—were the scene of embarrassed meetings between congressists obliged to maintain a show of professional camaraderie but secretly irritated at being caught out in the rôle of tourist.

*

The highest spot of all—literally as well as architecturally—was the location of the farewell congress party: the rooftop terrace of Le Corbusier's *Unité d'Habitation*. Seldom can a newly completed building have been subjected to so thorough and critical a scrutiny; 300 architects from 20 different countries spent the morning before the party crawling over it like flies. An empty flat was open for their inspection, and it had been arranged for the occupants of half-a-dozen others to admit congress visitors so that they could see the flats lived in.

*

The building, I gather, passed the test triumphantly. It has often been ASTRAGAL's experience to hear violent condemnations of it from people who thought they could pass judgment on the basis of drawings and photographs, and then to find the same critics strangely silent after seeing it with their own eyes. Such of the CIAM architects who came prepared to scoff, similarly found themselves changed into admirers on the spot.

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To actually see the *Unité* certainly seems to be a moving visual experience. I asked a MARS Group colleague, who admits to having approached it, if not with scepticism, at least with some preconceived reservations, but has returned from CIAM an enthusiastic convert, to put the building's virtues in a nutshell. He listed some of them as follows:— Its delightfully human scale, in spite of its vast size; the strength and lucidity of its façade framework, which allows individual flat-owners to do what they like about curtains, sunblinds and window-boxes—and even to hang washing out on their balconies—without disturbing the rhythm of the whole; the relative unimportance of the somewhat rough-and-ready finishes, inside and out: an illustration of the fact that if the big things about a building are right they carry the small things along with them.

*

My colleague made one further point: he sees the *Unité d'Habitation* as essentially a regional building, inseparable from the Provençal climate, topography and building traditions. This does not mean that as an architectural conception it has not widespread application; only that in another locality, differently lit, it would come out as a very different design: different in section, in the treatment of the interior street, in the way the materials and colours are handled. In fact, it is specially to be admired as a piece of local architecture, a fact which makes nonsense of the frequent accusations that Le Corbusier and his works are trying to impose on the world an international style.

The closing meeting of the CIAM Congress, Aix-en-Provence (see ASTRAGAL'S note on page 215) was held at Le Corbusier's Unité d'Habitation, at Marseilles, where two of these photographs were taken. Left, Le Corbusier himself giving instructions to a workman in the still unfinished shopping street. Below, Walter Gropius talking to members of the Austrian Group of CIAM on the roof of the Unité. In the foreground is the French architect, Andre Sive, right, architects and students at one of the outdoor discussion meetings held in a courtyard of the Ecole des Arts et Métiers, Aix-en-Provence.



PLYMOUTH CRITICIZED

An article in the *JOURNAL* of a year ago (June 12, to be exact) is commented on at some length in the *Western Morning News* of August 10 (this year). It was worth waiting for, if only because it is so encouraging to see someone who is *not* an architect discussing architecture and planning in a local paper, and really attempting to criticize constructively. The author, David M. R. Keate, supports many of the adverse comments in the *JOURNAL*'s article, and not having to feel any loyalty to the architectural profession (as the *JOURNAL*'s authors no doubt did in an article which might be read by the layman) lays the blame for faults rather more precisely.

Parts of the article, however, appear to be a defence of Plymouth's planning officer and engineer, J. Paton Watson, a man of immense drive, to whose great energy and forcefulness Plymouth's apparent lead in building progress is largely due, and who is very capable of defending himself. Mr. Keate writes: "the architect and the engineer must always work together, but it is the latter who must control the whole." The actual rebuilding of Plymouth goes far towards showing the fallacy of this sentence. Engineer and architect must *co-operate*, but as the responsibilities of the architect to the citizen are, in true values, so very much larger, it is he who should normally have ultimate control of urban



Zakynthos

This is Zakynthos, capital of the isle of Zanthi, destroyed last week by earthquake and fire. Here, and on the neighbouring islands, the Homeric heroes were bred, and succeeding layers of diverse cultures have accumulated until, on the morning when the church bells rang of their own accord, there was destroyed not only life and property, but an architectural scene which is an epitome of Medi-

terannean culture, civilization and of Man's long and cunning battle to control his environment. We, who have lost control of ours, will watch with a special sympathy the rebuilding of these tragic islands, for their close-packed yet spacious towns have become, to a whole generation of architects, the ideal and symbol of an urbane and humane mode of living.

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building—preferably in the rôle of architect-planner. How much longer will this professional argument go on?

*

The JOURNAL described Plymouth's city centre as a monument to the civic designer's ideals of the 'thirties and 'forties. Mr. Keate is even less kind, but probably more accurate, in dating it in the late 'twenties. The answer—if the citizen agrees with this criticism—is perhaps for the city's authorities to persuade those wishing to build to employ contemporary architects. Their names, together with illustrations of their work, appear—oddly enough—quite frequently in the JOURNAL.

BUG-BAFFLING

Among the more endearing current foibles—such as hoop ear-rings and *espresso-bars*—must be numbered those intriguing plastic perspex devices which have suddenly appeared on the fronts of cars in the place where the radiator cap used to be. The theory behind them is simple: the modern streamlined motor-car, with its excellent penetration factor, does not toss insects and small birds to one side as did the old, flat-fronted veterans, and these small fauna come straight over and plaster themselves on the windscreen. So one fits a small baffle on top of the bonnet to break up the smooth flow of air and they fall in places where they won't get in anyone's way.

*

Having heard so much, some technological nark will at once object that someone has got something wrong somewhere. Quite: I couldn't agree more. One of the sacred texts of ASTRAGAL's strict-Functionalist upbringing was a pamphlet on the Darmstadt Experiments. These had to do with the gains in performance due to streamlining various parts of a car body, and were evaluated in terms of what had to be done to wash out these gains—and what was done was to fit a square plate of a suitable size on top of the bonnet at right angles to the airstream . . .

*

In any case, ASTRAGAL has seen these bug-baffles fitted to square fronted vehicles like Rolls-Royces, and really cannot see the point in adding to what is already a built-in headwind.

ASTRAGAL

POINTS FROM THIS ISSUE

<i>The Times</i> reports shortage of bricks.. ..	page 221
Sir Alfred Bosson to visit Belgian Congo	page 221
Prefabs to be demolished	page 221
Modular Co-ordination: the Journal's glossary of terms ..	page 224
Second phase of aluminium plastic school completed ..	page 231
Slab-lifting: latest developments	page 237

The Editors

TERMINOLOGICAL EXACTITUDE

WORDS and terms used in discussions and articles on modular co-ordination have never been properly defined. Because of this, and the confusion that it leads to, several members of the Modular Society recently suggested that a glossary of terms should be compiled. This has now been done by the editors of the JOURNAL, in collaboration with Bruce Martin, of the Hertfordshire County Council architects' department.

The glossary, which is published on pages 224 to 230 of this issue, is in two parts: the first deals with "words concerning the parts of a building," such as "building material," "building element" and "building component" (often mistakenly used as though they were synonymous); the second deals with "words concerning the arrangement of the parts" and includes such terms as "module," "planning grid" and "grid plan" and the term "modular co-ordination" itself, i.e. the terms over which there has been most confusion.

Bruce Martin, who has been considering the question of compiling a glossary of definitions for some time, has found that in helping to prepare our glossary he has clarified his own ideas about modular co-ordination. In particular, he feels that the post-war trend towards using building components (rather than elements or materials) may be only a temporary one, and that if this is so we should consider whether modular co-ordination is, in fact, desirable. He is disturbed by the effect of grid planning on the appearance of buildings, although he favours the use of a planning grid. Next week we shall be publishing an article in which Mr. Martin explains in detail his present views on modular co-ordination—views which will surprise those who know him as a protagonist and exponent of the modular system. In the same issue we shall also publish an article by someone whose views are very different from Mr. Martin's—M. Hartland Thomas, the secretary of the Modular Society.

LETTERS

G. H. Bosworth

Harry Judson, A.R.I.B.A.

Colossal Buildings

SIR.—The Eleventh Report of the Royal Fine Art Commission refers to office blocks, power stations and gasworks, and says: "Their colossal size suggests a monumentality traditionally reserved for buildings of religious or other civic purpose."

Setting aside the question whether a religious purpose is a civic purpose, colossal size and monumentality have been traditional in other directions. Somerset House, Buckingham Palace, Castle Howard, Blenheim, Arundel, Windsor Castle, and dozens of other personal buildings in this country alone, are colossal and monumental.

"Lie heavy on him earth for he
Laid many a grievous load on thee"
was not written about the architect of religious or civic buildings.

The Commission do not suggest how a large power station or gasworks can be other than colossal. Are we to have thousands of beehive gasometers and thousands of tiny chimneys surmounting fairy

generators? When it is economically essential to have five thousand people in one office building—as in a large Ministry—is the building to be spread out in bungalows over fifty acres?

The Royal Fine Art Commission is a valuable body; but it is to be hoped that their future reports will suggest some practical alternatives to the buildings they find objectionable.

Kent.

G. H. BOSWORTH

Salaried Architects

SIR.—I read with interest the article in the AJ for July 16, which admirably presents some figures which warrant careful study by all salaried assistant architects, but I agree with your correspondent Mr. Cleeve Barr (AJ, July 30) in rejecting the idea of a Salaried Architects' Association. Rather let us take stock of the position of assistant architects within the constitution of the RIBA.

It will be seen in the current issue of the RIBA Journal that only 4,321 out of a total membership of 15,076 voted at the election, last month, of the RIBA Council. Whilst it would be idle to speculate as to how the 10,755 non-voters might have voted, it may be worth considering why they did not vote—most of them are probably salaried assistants. Surely those who are not satisfied with the RIBA should vote for some new blood, while those who are satisfied should vote the retiring

members in again. There were 53 nominations for the 12 seats, plenty to choose from, and additional nominations can easily be made, for example, by any seven associates.

It is, of course, a slow and difficult process to exert any appreciable influence on the RIBA, either directly or through its allied societies, as those who have tried know well enough, but a livelier interest in RIBA affairs on the part of salaried architects could result in the same detailed attention being given to salaries as is now given to the scales of fees. It may not be generally known that the RIBA did publish a "Scale of Annual Salaries for Architects" (it was revised in 1937 and again in 1945 and ranged from £120 to £3,500 at pre-war values), but nobody in local government, so far as I know, ever had his salary fixed by reference to it.

With regard to the distribution of "profits," as advocated by your contributor, although it might be easy to show that work would have cost more on a fee basis, it would be difficult to demonstrate that a profit had, in fact, been made. Generally speaking, local authorities exist to provide services, not to make profits, and it would be virtually impossible to persuade any employing authority to make bonus payments to their architectural staffs, of the kind suggested.

I would add that I joined the local government service, at the age of 16, 25 years ago, and was for several years a borough engineer's chief assistant architect.

HARRY JUDSON.

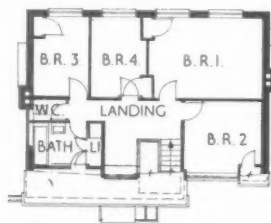
Wakefield.

HOUSE AT BROOKMAN'S PARK, HATFIELD, HERTS



This house at 56, Bradmore Way, Brookman's Park, designed by Walter W. Fisk and Sidney H. Fisk, is on a site which backs on to the local golf course. The client required that the two reception rooms and at least three of the four bedrooms should face south-east over the golf course. Walls are of 11-in. cavity, load-bearing brickwork. The ground floor is 6-in. concrete finished with ½-in. thick oak blocks, and quarry tiles in w.c.s and bathroom. The roof is constructed of timber trusses at 6-ft. centres and modified to a standard framing to allow an extension of the slope on the west side to a lower eaves level. The roof is covered with hand-made, sand-faced clay tiles. The photograph above shows the garden facade from the

First floor plan



Ground floor plan

[Scale: 1/8" = 1' 0"]



south-east. The maximum floor area permitted when the house was built was 1,500 sq. ft. The contract price was £2,940; this is 39s. per ft. sq. The general contractors were Stanwal (Finchley), Ltd. Sub-contractors will appear next week.

BRIC

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A delay in delivery expected. The Times in particular authorities able to in Birmingham ten houses bricks.

The departmental supply of reduction year's production the output.

The price led to builders Wiltshire per house. Manufacture alternate government increase greater a supply on their Official and supply as being David E. liament. ernment prepared did not distribute.

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BRICKS

Shortage Expected

A delay of three to nine months in the delivery of bricks, due to shortages, is now expected by builders. [This was reported in *The Times* last week.] The delay will affect, in particular, small private builders, local authorities, and those who have not been able to lay in large stocks. House building in Birmingham has had to be cut down by ten houses a week due to the shortage of bricks.

The demand for bricks this year is estimated at 7,400 million, against an expected supply of 7,200 million. The official production target is only 7,000 million. Last year's production figure was 6,622 million. Fletton bricks, which form 40 per cent. of the output, are in shortest supply.

The present shortage has, in some cases, led to increased costs. For instance, builders in Surrey have brought bricks from Wiltshire, at an extra cost of £60 to £80 per house in transport costs alone.

Manufacturers of bricks, who have been alternately encouraged and discouraged by government policy are unwilling to increase production during this period of greater demand, as they might be left with a supply of bricks and redundant labour on their hands.

Officially there is no shortage of bricks and supplies are described in Parliament as being no worse than "marginal." Sir David Eccles, in reply to a question in Parliament, said the policy of the present government was to encourage those who were prepared to expand their production. He did not favour measures to regulate the distribution of bricks.

MOHLG

Permission to Demolish Prefabs

The MOHLG is now giving permission for prefabricated temporary bungalows to be removed in some parts of inner London in order to make way for permanent buildings. All such bungalows are the property of the Government although they are looked after by the local authorities. All bungalows on public open spaces will have to be removed by the time they are ten years old, unless legislation is introduced.

Wandsworth Borough Council has been given permission to remove 13 bungalows in Madeira Road, Streatham, in order to make way for 36 flats in three-storey blocks. Wandsworth have a total of 627 bungalows which were erected in 1945 and 1946. None of these has so far been

removed. Other London boroughs are making plans to remove temporary houses in the next twelve months, in order to provide sites for permanent housing.

Many boroughs have started to clear temporary hutments, as distinct from temporary bungalows. Wandsworth has dismantled most of the 267 hutments in the borough and Hackney, which has 900 temporary dwellings, and the LCC have also demolished temporary huts.

The removal of temporary houses in the provinces will be slower. Birmingham, with 4,625 bungalows, has a serious housing problem. The city will find it very difficult to replace any temporary accommodation which has to be demolished at the end of the regulation ten-year period.

Altogether sixteen local authorities have been given permission by the MOHLG to demolish bungalows. They are nearly all in the London area. About 100 bungalows are involved.

Improving Prefabs

The Minister of Housing and Local Government has authorized Manchester City Council to start installing open fires of the slow-burning type in some 500 of their prefabricated houses.

NEW ZEALAND

Competition

Keith Cooper, a Wellington architect, has won the first prize of £300 in a housing design competition organized by the New Zealand Government. The second prize of £150 was won by Patience and Gabites, editors of the New Zealand magazine, *Design Review*. Prizes were also awarded for construction ideas. There were 405 entries.

"SPECIFICATION"

1953 Edition on Sale

The 55th edition of *Specification* is now available. The editors have revised all sections. Many new proprietary materials and components are included. References are made to new Codes of Practice, British Standards and the London Building (Constructional) Bye-Laws, 1952. The section on metal windows has been brought up to date by Captain Fox-Williams and C. Roy Fowkes, and a reference is made to range windows, which are based on a 2-ft. wide opening light. The heating section, which has been revised by J. R. Kell, includes references to forced convection units and high-temperature radiant panels. The thermal insulation section has been revised by Neville S. Billington; some of the principles of thermal insulation are emphasized and information on materials and the design of buildings in tropical climates has been added.

In the building equipment section, notes on window and shop blinds have been revised and references to proprietary metal furniture and demountable partitions have been revised and increased in number. The section on regulations governing the design of schools has been revised by Dex Harrison to keep the information in line with the new MOE publications. *Specification* is published by the Architectural Press and costs 30s.

BUCKINGHAMSHIRE

County Architect

F. B. Pooley, the deputy city architect and planning officer for Coventry has been ap-

pointed chief architect to the county of Buckinghamshire. The appointment will take effect at the end of September.

IAAS

Symposium on Timber Selection

The IAAS is sponsoring a symposium on the testing and stress grading of timber under the auspices of the Joint Committee on Materials and their Testing. The symposium will be held at the ICE at 12, Great George Street, S.W.1, on September 22.

The following papers will be presented:—"Methods of Test of Small Clear Specimens" by F. H. Armstrong of the Forest Products Research Laboratory; "The Testing of Structural Components" by J. G. Sunley, also of Forest Products Research Laboratory; "The Mechanical Testing of Sawed Timbers and Application of Data to Stress Grading," by W. J. Smith of Forest Products Laboratory, Canada; "Strength Studies of Timber in the Development of Structural Timber Grades," by a member of Forest Products Laboratory, USA. Advance copies of the papers will be available from the IAAS near the end of this month at 1s. 6d. each. The papers will be open to discussion and the proceedings will be published. Anyone wishing to attend the symposium should notify the general secretary, IAAS, 75, Eaton Place, S.W.1.

MODULAR SOCIETY

President's Visit to Belgian Congo

Sir Alfred Bosson, president of the Modular Society, is at present in the Belgian Congo. During his four-week visit he is studying the latest developments in tropical architecture, with particular reference to the problem of air circulation, insulation from heat and the insect problem. Shortly after his return he will visit Mexico.

CAMBRIDGE

Street Lighting Tests

Cambridge City Council is to try out four different types of street lighting along King's Parade next week in order to find out which type is most suitable for the university and college buildings which line it. Standards with tungsten filament, sodium, fluorescent and mercury vapour lighting will be erected temporarily between the Senate House and Trumpington Street. College authorities have been invited by the City Surveyor to make comments on the various systems. Most of the main roads in Cambridge are now lit by sodium lighting.

OBITUARY

Henry Martineau Fletcher

Henry Martineau Fletcher died on August 7, at the age of 83. He was articled to the late Mervyn Macartney. At the end of his pupilage he made a long tour of Italy and Greece with the late Sydney Kitson.

He set up in private practice in 1897 and for nearly twenty years concentrated mainly on designing country houses. With Godfrey Pinkerton he designed the harbour offices at Manaus in Brazil, Cecil Sharp House in London and the war memorial at St. John's College, Cambridge. He also made alterations and additions to Trinity College and Emmanuel College, Cambridge. He was president of the AA from 1918 to 1919, president of the Franco-British Union of

Architects in 1934, chairman of the board of Architectural Education from 1927 to 1929, vice president of the RIBA from 1929 to 1931 and honorary secretary of the RIBA from 1934 to 1939. He became a fellow of the RIBA in 1908.

TPI

Summer School at Bristol

Complete details are now available for the town and country planning summer school to be held at the university of Bristol, under the auspices of the TPI, from September 6 to 12. The president of the school will be Sir George Pepler.

Papers will be read on the following subjects:—"Central Areas; Some Aspects of Size, Function and Design," by Professor Sir William Holford; "Economic Housing Layout," by J. L. Womersley; "Town and Country Planning in Australia," by Professor Denis Winston; "How Far Can a Development Plan Assist Rural Development?" by R. L. Stirling; "Population Movements into the Outer Suburbs of Large Cities—Measurement and Prediction," by Colin Clark. There will be a discussion after each paper. There will be additional discussion groups as follows:—"Nature Conservation," led by F. H. W. Green; "Townscape," led by N. Tweddell; "Technical Aspects and Comprehensive Development," led by E. G. S. Elliot, and "Road Passenger Transport Needs," led by J. D. Churchill.

Further particulars are available from Alfred R. Potter, 18 Ashley Place, S.W.1.

VENICE

Summer School Theme Chosen

The organizers of the CIAM Summer School at Venice have now chosen the area which is to be the subject for the development of their architectural and city planning theme. It is the area occupied by the modern art "Biennale" exhibitions. There are still vacancies for the course which lasts from September 5 to October 4. For other details see the JOURNAL for June 25, page 790. Anyone interested should write to the Scuola Estiva, c/o Istituto Universitario di Architettura, Palazzo Giustiniani, Fondamenta Nani, Venice.

MOHLG

Use of Cast-Iron Pipes

Improvement in the supply of the smaller sizes of cast-iron pipes has made it possible for the MOHLG to remove the ban on dual water mains. Their circular on the economy in the use of cast-iron pipes in water mains on housing sites (85/50) has been withdrawn.

A. M. Chitty was the consulting architect (and designer of the interior for the directors' wing) of the head office building for Thomas Hedley and Co. Ltd. at Gosforth, Cumberland, illustrated on page 133 in the JOURNAL of July 30.

DIARY

Town Planning in Italy. Max Lock. BBC Talk on Third Programme. 9 p.m.

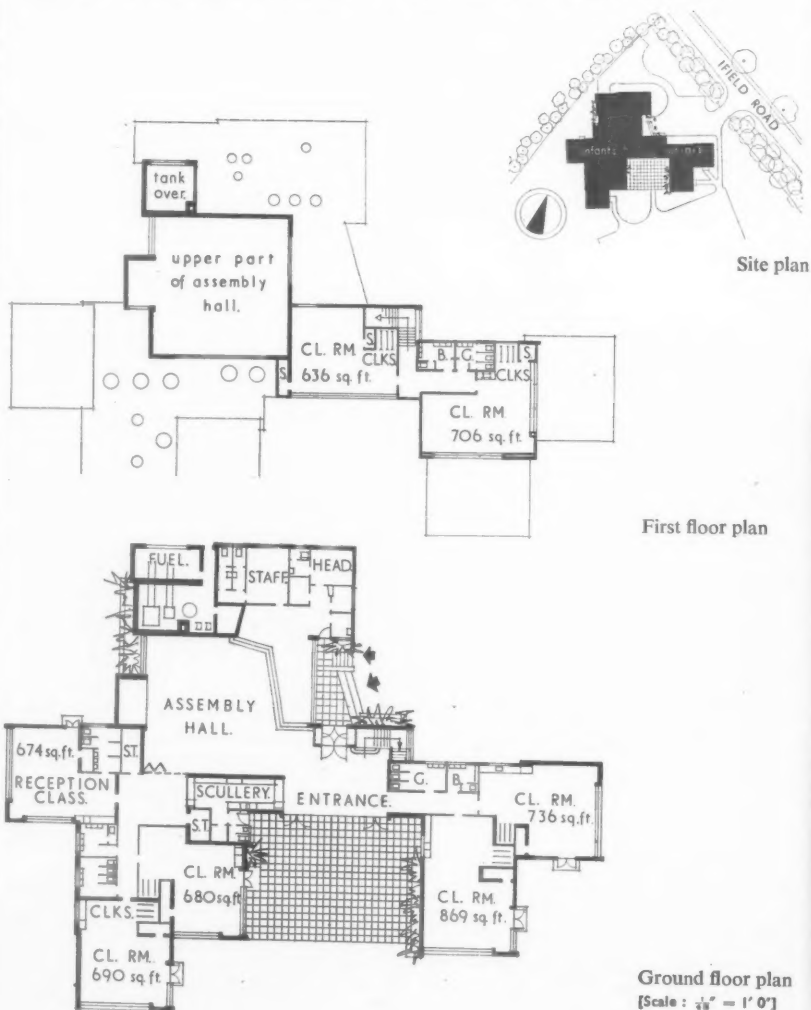
AUGUST 20

BUILDINGS IN THE NEWS



School at Crawley

This single form entry school for 280 juniors and infants, which is now being built at Crawley, was designed by H. G. Coulter for the Church of England. 60.1 per cent. of the 11,974 sq. ft. is allocated to teaching space, 9.9 per cent. to circulation, 7.6 per cent. to stores and lavatories, 7.4 per cent. to scullery and dining room, 6.8 per cent. to boiler and services, 5.2 per cent. to administration and 3.0 per cent. to teaching storage. The site area is $3\frac{3}{4}$ acres. The estimated cost is £143 per place.

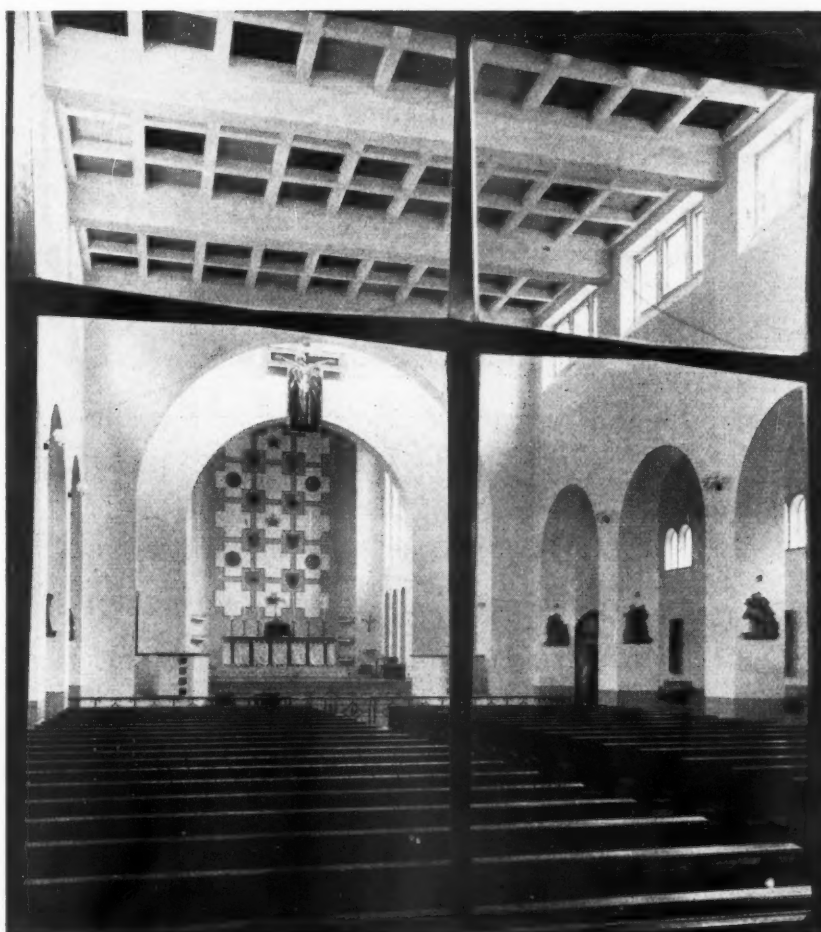


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Church at Liverpool

Right and above, St. Mary's Roman Catholic church at Highfield Street, Liverpool, designed by Weightman and Bullen. The previous church on the same site was designed by Pugin. The new church conforms to the War Damage Commission's definition of a "plain substitute building." There are seats for 560 persons; a boys' club in the crypt contains a gymnasium, games, billiards, quiet, and T.V. rooms and showers. The width of the nave is 36 ft. The cost was £74,000.



Flats in London

The eight-storey block of flats and maisonettes on the left, containing 60 units, in Ebury Street, S.W.1, is the largest post-war scheme for housing policemen and their families in the Metropolitan Police District. There are three 26 ft. 7½ in. wide wings containing 39 three-bedroom flats of 825 sq. ft. and 11 two-bedroom flats of 700 sq. ft. A seven storey wing 28 ft. 1½ in. wide (right of photo) contains 12 maisonettes of 945 sq. ft., frontage, 19 ft. 6 in. The site is one acre in area; density 200 persons. Cost, £176,670. Chief architect in the office of the Receiver of Metropolitan Police District, J. Innes Elliott; deputy, C. R. Fowkes; in charge, P. T. Edwards.



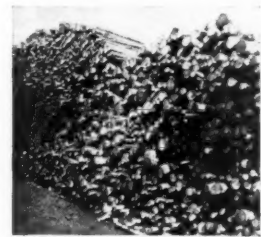
MODULAR CO-ORDINATION

A GLOSSARY OF BUILDING TERMS

When is an element not a component? The words are synonymous, you say? If you really think so, you are the type of architect who brings confusion to discussions about modular co-ordination. Words sometimes have a new meaning when they are applied specifically to the building industry. And because it is essential that people should be able to express themselves clearly when talking about modular co-ordination (and a number of other subjects), we are publishing here a glossary of building terms. This, we believe, is something that has not been done before, although the need for such a glossary has long been recognized. (Several speakers at a recent meeting of the Modular Society suggested that one should be drawn up.) It is hoped that this glossary will help members of the Modular Society to reach a measure of agreement sufficient for the Society to proceed further with its valuable work. We invite readers to comment on our definitions, and to suggest other terms which they think should be defined. Next week we shall publish two strongly opposed statements concerning modular co-ordination—one from M. Hartland Thomas, the secretary of the Modular Society; the other from Bruce Martin, a Hertfordshire County Council architect who has used the "modular system," and who helped us to prepare our glossary.

PART I.—Terms concerning the parts of a building***BUILDING MATERIAL**

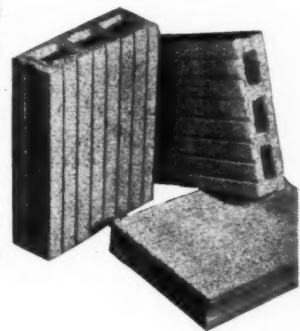
Material used in building, more or less as it is found in nature, e.g. sand, wood, stone, clay, hardcore, etc. The term *building material* is often wrongly used to define something that is one stage removed from the material (e.g. a brick); but material—as the dictionary definition shows—is concerned with matter, not with its form. When we talk of building materials, we should be careful that we mean basic or loose materials, e.g. timber before it is cut and sized, clay before it is made into a brick, steel before it is rolled, etc.

*THE DICTIONARY SAYS:*

MATERIAL: concerned with matter, not its form; matter from which a thing is made.

BUILDING ELEMENT

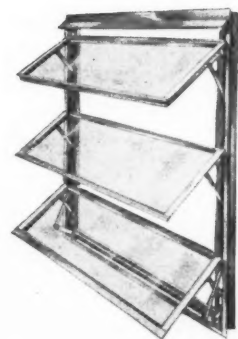
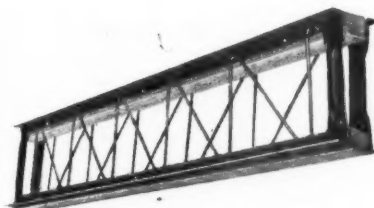
A basic, *elementary* part of a building, generally only one stage removed from raw material. The term *building element* is often wrongly used in reference to parts of a building which are, in fact, components (see definition below), such as plinth, column, pediment, capital, staircase, etc. The term *building element* should be used only to describe the most simple parts of a building. These are usually made from only one material (e.g. timber joists, bricks, RSJ's, aluminium extrusions) and may later be combined with other elements to form components.

*THE DICTIONARY SAYS:*

ELEMENT: component part; first principle; one of the essential parts of anything.

BUILDING COMPONENT

Any part of a building too complex to be called an element, e.g. frame, roof, wall, window, door, floor, ceiling, fascia. A sash window, for instance, cannot be called an element, as it is made up of (compounded of) a number of elements. Building components can be components of (a) the structure, (b) the cladding, or (c) one of the service systems, e.g. the electrical and sanitary installations.

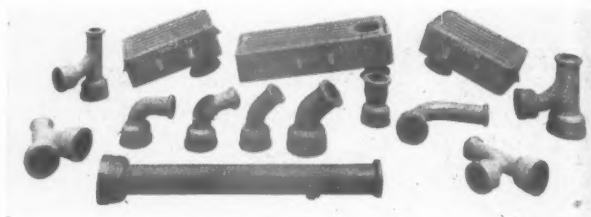
*THE DICTIONARY SAYS:*

COMPONENT: contributing to the composition of the whole; making up; forming one of the elements of a compound. (L. *com*, with; *ponere*, to put.)

*Throughout the glossary, the word "part" is the only generic word used.

FAMILY OF BUILDING ELEMENTS OR COMPONENTS BUI

A group of building elements and/or components which serve a common purpose, e.g. the electrical family includes conduit, switches, fuse boxes, etc. ; the structural family includes beams, columns and foundations, and a walling family might include a complete range of inter-related panels serving different purposes. (The photo shows a group of elements of the drainage family.)



THE DICTIONARY SAYS:

FAMILY : a group of objects distinguished by common features ; group of allied genera.

BUILDING EQUIPMENT

Things with which a building is equipped, e.g. furniture, all building services (see definition opposite) and their correlated elements and components (the electrical installation, for instance, includes light fittings, switches, fuse boxes, conduit, etc.) and mechanical appliances, such as boilers, lifts, fire extinguishers. Many items of building equipment are components, e.g. a w.c. is a component of the sanitary installation, and a light fitting is a component of the electrical installation. The term *building equipment* is sometimes wrongly used to mean *builders' equipment* (see definition below).



THE DICTIONARY SAYS:

EQUIPMENT : a furnishing ; a provision ; a thing used in equipping or furnishing.

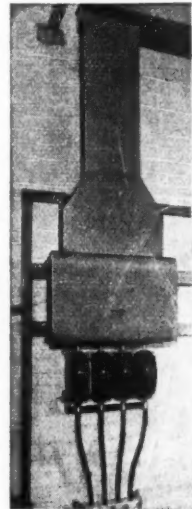
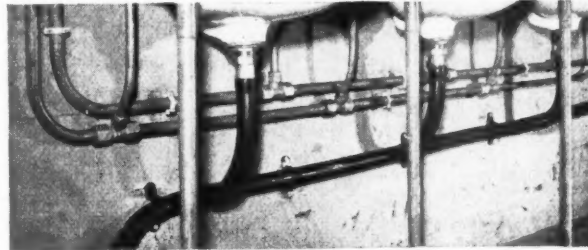
BUILDERS' EQUIPMENT

Things used in the process of constructing, erecting or assembling a building ; everything from a plug driving gun to a crane. Better known as builders' plant and tools.



ITS BUILDING SERVICES

All piping systems in a building, including water, electricity, gas, telephone and mechanical installations, together with their elements and components. A building service is an item of building equipment. (Below, hot and cold water services and wastes to a row of lavatory basins. Right, electrical installation on the rising main system.

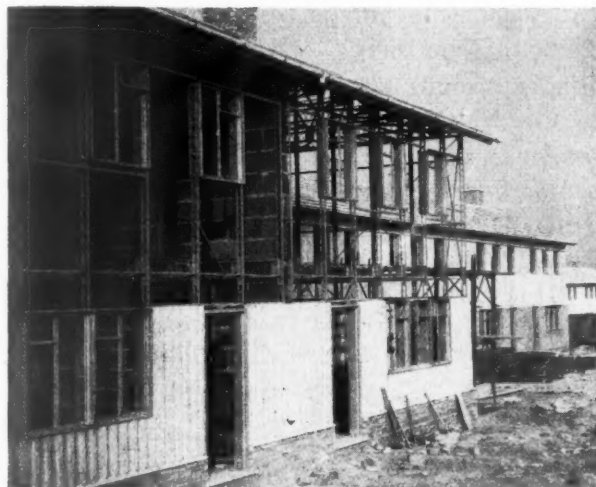


THE DICTIONARY SAYS:

SERVICES : supply or laying-on of gas, water, etc., through pipes from a reservoir ; the apparatus of pipes, etc., by which this is done.

BUILDING SYSTEM

A method of arranging the elements and components of a building to form a "regular and connected whole." Since building elements and components are continually changing, the methods of arranging them also change. The different *building systems* give rise to the "styles" of building, e.g. the Gothic "style" grew out of the system of building (with pointed arch and vault) which developed in the 13th century. The photos, bottom right, show a building system—load-bearing brick walls and pitched timber roof covered with tiles—that has persisted for centuries. The photo below shows a building system based on the use of a light steel frame clad with corrugated sheeting.



1925



1952

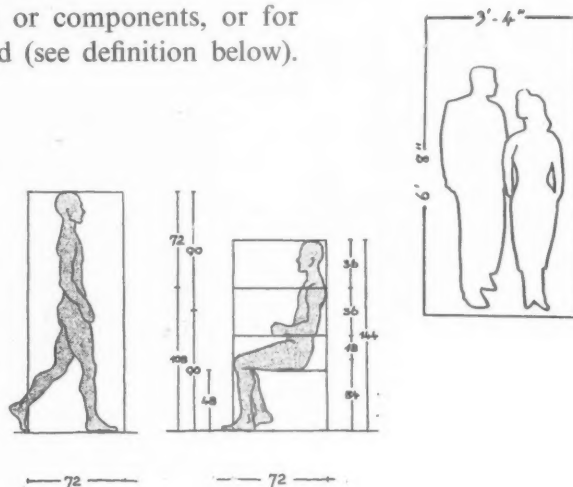
THE DICTIONARY SAYS:

SYSTEM : anything formed of parts placed together or adjusted into a regular and connected whole.

PART II.—Terms concerning the arrangement of the parts.

BUILDING MODULE

Dimension (see dictionary definition below) chosen as a basis for the dimensions of building elements or components, or for the spacing of the lines of a planning grid (see definition below). A building module may be a small dimension, e.g. 3 in., 4 in., 4½ in., or a large dimension, e.g. 3 ft., 3 ft. 4 in., 4 ft.



THE DICTIONARY SAYS:

DIMENSION : measure ; measurable extent of anything, as length, breadth, thickness, area, volume.

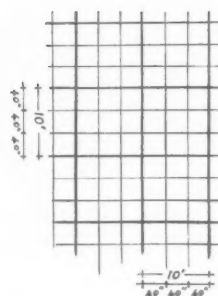
MODULE : measure ; standard or unit for measuring ; (in architecture) unit of length for expressing proportion.



PLANNING GRID

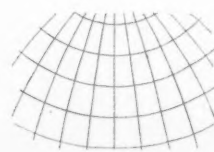
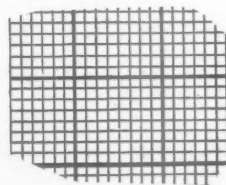
A network of lines, usually parallel and one module apart, used as a basis for planning, both horizontally and vertically. Planning grids are usually rectilinear but need not be so : Frank Lloyd Wright, for example, has used a triangular, horizontal, planning grid.

The term *planning grid* should not be confused with the term *grid plan* (see definition opposite). It does not follow that because a planning grid is used, the various parts of the building will be placed on or adjacent to the lines of the grid. The planning grid is often used only as a reference system or underlying pattern, e.g. as graph paper or lines of longitude and latitude are used. (See illustrations below.)



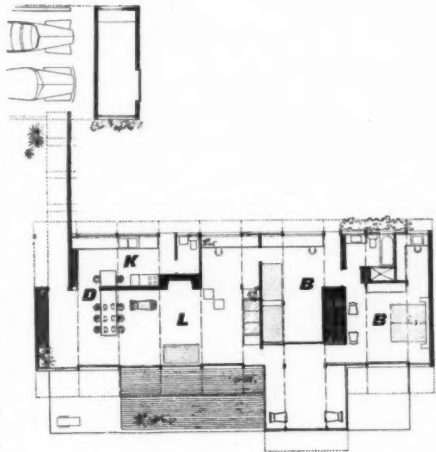
THE DICTIONARY SAYS:

GRID : parallel bars or lines (gridle, gridiron) ; a network of lines.



PLAN

A word for which architects do not need a definition, although it is interesting to see what the dictionary has to say. Moreover, it is important to note that in a normal plan (as contrasted with the *grid plan*, defined below) the positions of the various parts of the building (or proposed building)—the materials, elements and components—and the dimensions of the building are determined *by the architect*, so as to satisfy his interpretation of the physical and æsthetic requirements. It is by exercising his particular art (or skill) that the architect succeeds in doing this, even when the dimensions of many of the elements and components that he has to use are not related either to each other or to the dimensions of the planning grid (if he uses one). The plan shown is of a single-storey house, by Twitchell and Rudolph, at Venice, Florida.

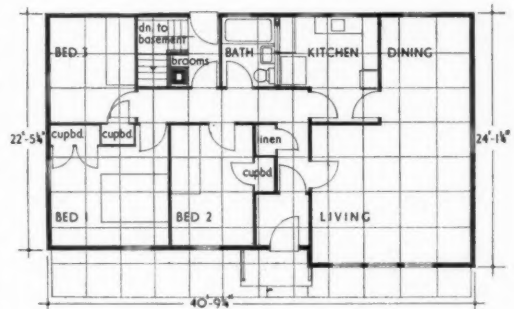


THE DICTIONARY SAYS:

PLAN : a drawing of a building as it stands on the ground; a scheme ; a method. *Drawing, especially one showing relative position (our italics) of parts of (one floor of) a building.*

GRID PLAN

A plan in which most of the building elements and components are arranged to coincide with the lines of a grid. Grid plans are used for most buildings assembled from elements and components of standardized dimensions (i.e. so-called prefabricated buildings). When this type of plan is used, the dimensions of the building components (and elements) must be closely related ; they must also be closely related to the dimensions of the grid. (The grid plan shown on the right is of a "Riley-Newsum" prefabricated house.)



BUILDING CO-ORDINATION

The bringing of various parts of a building into a proper relationship. Clearly, the meaning of this term depends on what is meant, in this connection, by the word "proper." Three conceptions of what constitutes a "proper relationship" (i.e. three definitions of building co-ordination) are given below.

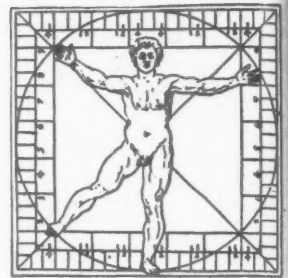
THE DICTIONARY SAYS:

CO-ORDINATION : bringing (parts) into a proper relationship.

DIMENSIONAL CO-ORDINATION

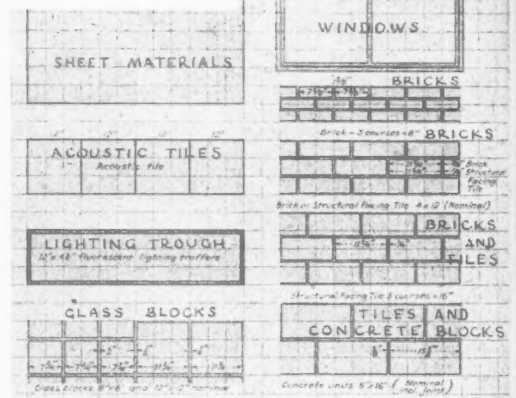
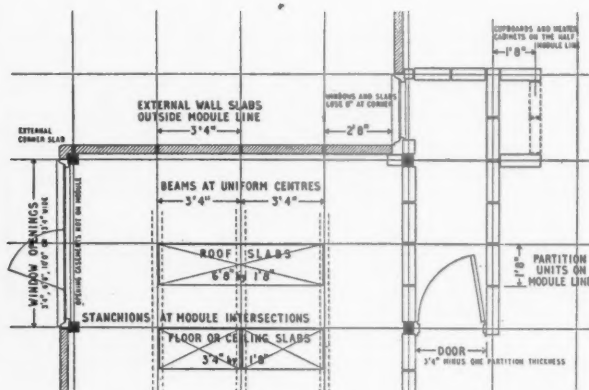
The use of a mathematical relationship* to determine the dimensions of the various parts of a building. Dimensional co-ordination is primarily an æsthetic, or even a mystical, concept of building co-ordination.

* e.g. a relationship based on arithmetic, geometric or harmonic progressions, or on the dimensions of various parts of the body, or on the comparative distances between the planets, or on "ideal" proportions, such as the "golden mean," determined solely by æsthetic considerations.



MODULAR CO-ORDINATION

The relating of the dimensions of building elements and components to a module (usually one horizontal and one vertical module). The term *modular co-ordination* is often wrongly used to mean the modular system (defined below.) The illustration on the right shows how, in the USA, the dimensions of a number of building elements and components have been related to a 4-in. module. The illustration below shows how the MOE uses elements and components with dimensions related to a 40-in. module in its development work, e.g. at the Wokingham school.





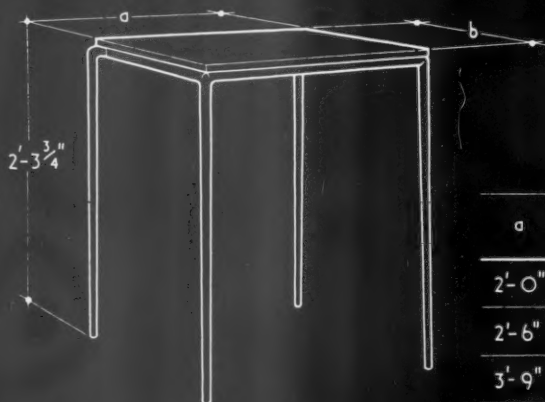
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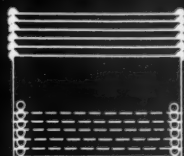
FURNITURE | TABLES

42.L1

The Architects' Journal Library of Information Sheets 429. Editor: Cotterell Butler, A.R.I.B.A.

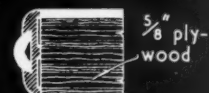


TYPE NT2.

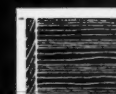


diagrammatic plan of stacked tables

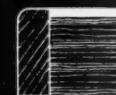
a	b	weight lb.	overall size of stack of b tables
2'-0"	2'-0"	20	3'-1" x 2'-2" x 2'-6"
2'-6"	2'-6"	28	3'-1" x 2'-8 1/2" x 2'-11"
3'-9"	2'-0"	34	3'-1" x 2'-3" x 4'-1"



light alloy with plastic insert

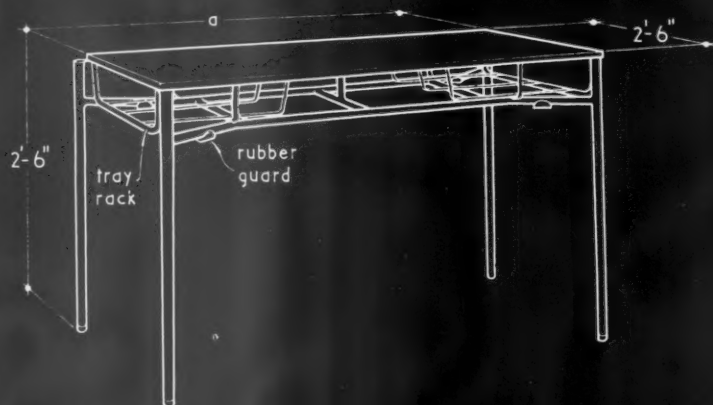


plastic veneer

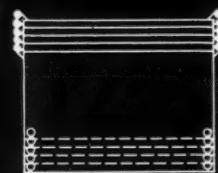


hardwood

EDGINGS FOR TABLE-TOPS.

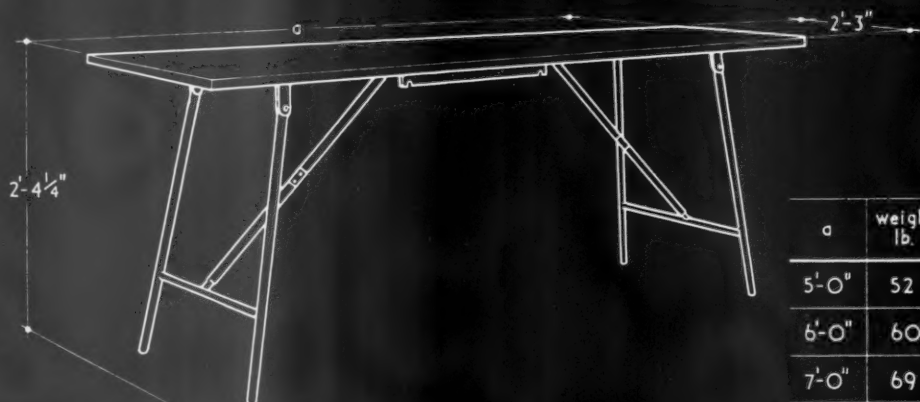


TYPE NT3.



diagrammatic plan of stacked tables

a	weight lb.	overall size of stack of 5 tables
4'-0"	41 1/4	4'-3" x 3'-2" x 4'-2"
6'-0"	54 1/2	6'-3" x 3'-2" x 4'-2"



TYPE FT1 (FOLDING TABLE).

a	weight lb.	overall size of stack of 10 tables
5'-0"	52	2'-3" x 4'-9 3/4" x 5'-0"
6'-0"	60	2'-3" x 4'-9 3/4" x 6'-0"
7'-0"	69	2'-3" x 4'-9 3/4" x 7'-0"

42.LI 'PEL' FURNITURE : NESTING AND FOLDING TABLES

This Sheet describes the Pel range of nesting and folding tables. Sheet 42.D1 deals with nesting chairs and Sheet 43.A1 with special seating for public buildings.

Types

NT2 and NT3 are nesting tables and FT1 is a folding type. The general appearance of the tables is illustrated on the face of this Sheet.

Material

Frames : These are of electrically-welded steel tubing. Types FT1 and NT2 have legs of 1 in. diameter and NT3 of 1½ in.; those of types NT2 and NT3 are fitted with rubber feet. Cross-supports of the nesting tables are of 1 in. diameter tubing and ¾ in. is used for the struts of the folding table.

Rubber guards are fitted on the horizontal supports of type NT3 to prevent tables from becoming scratched when stacked.

The frame of the FT1 table folds under the table-top and is held in position by spring clips.

Table-tops : These are of ½ in. plywood and may be faced with linoleum, Waverite or Formica. Edge finishes may be in plastic, polished light alloy with plastic insert or polished hardwood, as shown on the face of the Sheet. Plastic edges are used only with plastic table-tops and the corners are square, not rounded as in other cases.

Additional fittings : Tray racks as shown in the drawing are supplied with the NT3 table if required.

Sizes

The principal sizes of each type of table are given with the drawings.

Stacking

NT2 and NT3 nesting tables may be safely stacked in groups of six and five respectively. The FT1 folding

tables may be stacked side by side in groups of up to ten. Overall sizes of stacks are given on the face of the Sheet.

Finish

Table frames may be chromium-plated, or stove-enamelled with a one- or two-coat finish after rust-proofing.

Colours

The stove-enamelled frames and the table-tops are available in a wide range of colours, particulars of which may be obtained from the manufacturer.

Further Information

Details of the full range of Pel furniture, which includes other types of table, chairs, settees, stools, desks, coat-stands and tea-trolleys, may be obtained from the manufacturer.

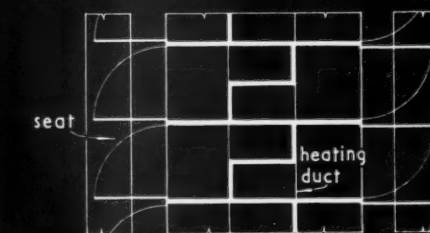
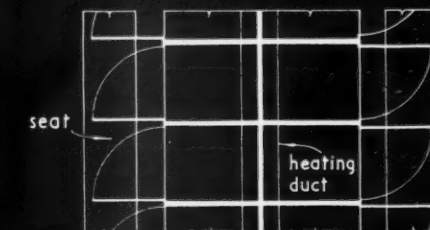
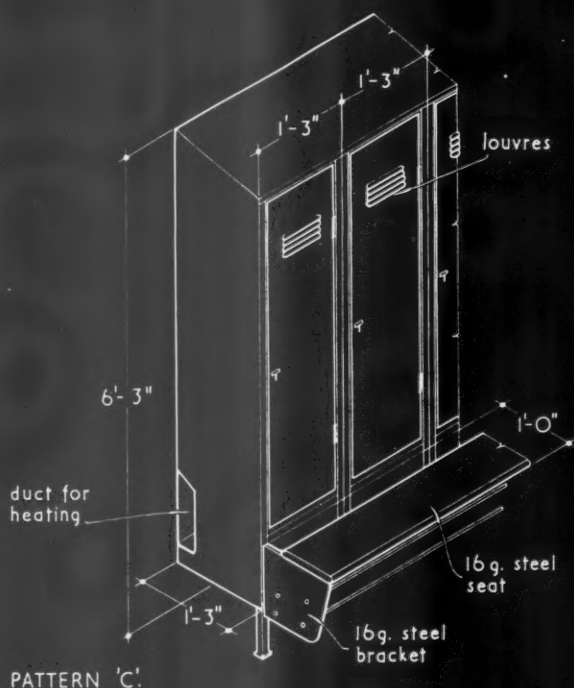
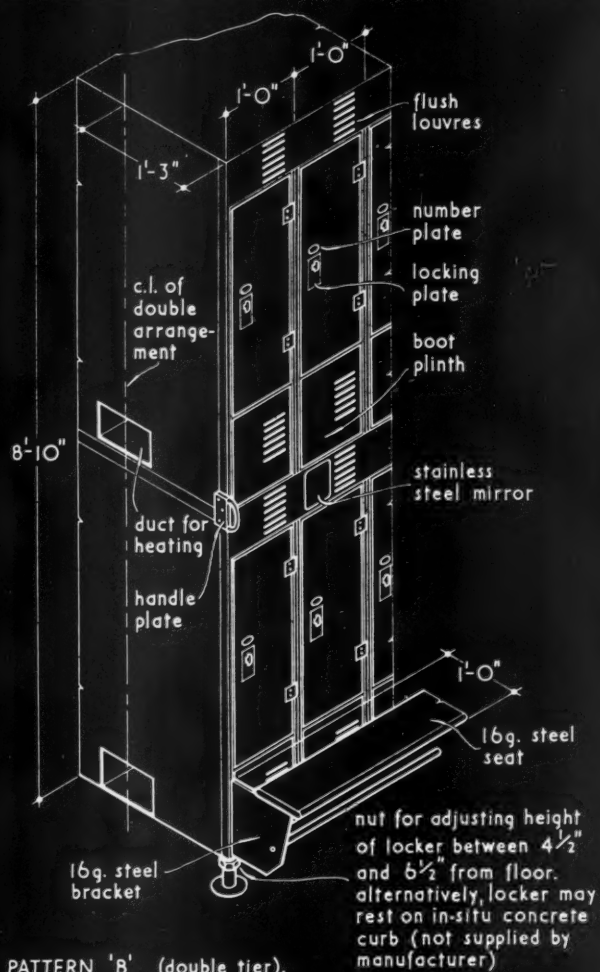
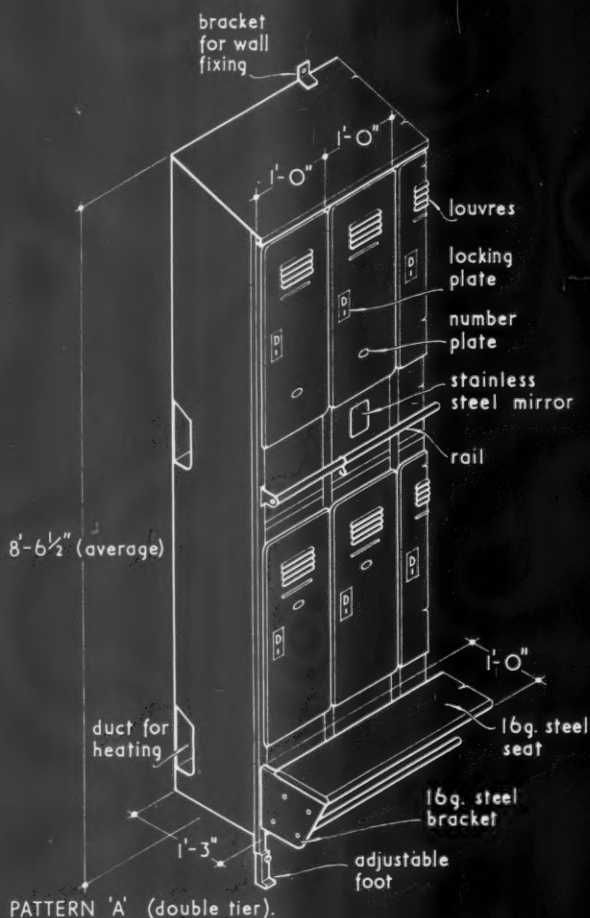
Compiled from information supplied by:
Pel Limited.

Head Office and Works : Oldbury, Birmingham.
Telephone : Broadwell 1401-6.
Telegrams : Equip, Oldbury.

London Office : 15, Henrietta Place, W.1.
Telephone : Welbeck 1874.

Bath Office : 7, North Parade, Bath.
Telephone : Bath 5586.

Glasgow Office : 50, Wellington Street, Glasgow, C.2.
Telephone : Central 8886.



DIAGRAMS SHOWING DOUBLE ARRANGEMENTS.

42.E1 'SPEEDWELL' CLOTHING LOCKERS

This Sheet describes Speedwell clothing lockers, which may be used in factories and offices to provide efficient individual drying and hanging space for clothes for all types of workers. Three patterns of locker are shown to meet slightly different requirements and each allows for considerable flexibility of layout in its installation. Provision for heating is incorporated in the design of the lockers.

General

Assemblies are built up from any number of individual locker units; the recommended minimum for an aisle length is six. Pattern "B," however, is obtainable in units of three lockers, which may be connected to each other by a simple coupling allowing for re-arrangement if desired. Patterns "A" and "B" may be arranged in single or double tiers and all types may be in single rows for wall fixing or back-to-back in double rows. Ducts and cover plates, as described under "Heating," are included in the design of the lockers.

Types

The drawings on the face of the Sheet show the general appearance of the three types of locker.

Pattern "A": This is a utilitarian locker giving compact but adequate accommodation in one or two tiers.

Pattern "B": This is similar to pattern "A" but with flush doors and more inside space, as may be seen from the drawing on the face showing a double arrangement.

Pattern "C": This type gives full-length hanging space and is particularly suitable for use in offices.

Construction

The lockers are constructed from 20 g. pressed annealed steel sheet framed with 16 g. steel sections. Edges of sheets are rolled wherever possible. Overall dimensions of the units are given on the face of the Sheet. End partitions and tops are continuous sheets and units are joined together by means of $\frac{1}{8}$ -in. rods passing through holes in the sheets and uprights and tightened up on the ends with nuts.

Doors: Doors in patterns "A" and "B" are pressed sheet with the edges turned over a welded frame of $\frac{1}{8}$ -in. diameter rod. Doors in pattern "C" are of pressed sheet construction with stiffeners. Patterns "A" and "C" have four louvres near the top of the door.

Seats: 16 g. steel seats are provided as shown in the drawings. The edges are rolled and the seat is supported on 16 g. steel brackets.

Fittings

Locks: Each locker door is fitted with an English 6-lever pin key dead lock. Where required, lock combinations may be in pairs so that one key operates

two lockers. (This is for installations where it is desirable to provide a "clean" and "dirty" locker for each worker.) Normally keys are supplied in triplicate with a 1-in. split ring but installations for master keys can be provided at a slight extra cost. The lock case is of pressed steel.

Number plates: An oval plastic number plate $2\frac{1}{4}$ in. long is attached to each locker.

Mirrors: Stainless steel mirrors are fitted to the "clean" lockers of patterns "A" and "B."

Clothes hooks: Each locker has a clothes hook fitted to the partitioning. In addition, patterns "A" and "C" are fitted with a four-way coat hook at the top and "B" with a special coat hanger and trouser bar.

Installation

The manufacturers will supply suggested layouts of lockers to meet specific requirements.

Heating

A 9-in. by 6-in. plenum duct is provided in each tier of lockers and there are four 4-in. louvres in it for each locker compartment. Standard vertical feeds for connecting to overhead trunking or adapting for unit heaters can be supplied for plenum-heated installations.

Where steam or water coil heating or electric strip heating are to be installed, they may be accommodated under a cover plate in the bottom of each locker. For these forms of heating standard end shrouds with access doors are available.

Finish

All steel components including lock cases and clothes hooks are galvanised. In addition, the lockers are spray-painted on the site after erection with best quality grey paint and all external surfaces treated with special aluminium paint. The tightening nuts and bolts are rustproofed.

Compiled from information supplied by:

The Speedwell Gear Case Co. Ltd.

Head Office and Works: Tame Road, Witton, Birmingham, 6.

Telephone: East 2261.

Telegrams: Speedwell, Birmingham.

London Office: 95, Pimlico Road, S.W.1.

Telephone: Sloane 6884.

Coventry Office: Needlers End Lane, Berkswell.

Telephone: Berkswell 3227.

Telegrams: Speedwell, Coventry.

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SECONDARY SCHOOL

on the LCC ESTATE, OXHEY, HERTS.

C. H. ASLIN, County Architect

architect-in-charge, R. A. de YARBURGH-BATESON; associated architect, PATRICIA TOWNSEND
water and electrical engineer, T. S. THWAITE; quantity surveyors, THOMAS BARRETT, SON and PARTNERS

The second phase in the building of the Clarendon school in Chilwell Gardens, Oxhey, includes the completion of four additional blocks, making a four form entry secondary modern school which now accommodates 600 pupils. The first phase, consisting of a prototype classroom block (A on site plan), was illustrated in the JOURNAL on November 23, 1950 when the use of the 40-in. grid and the prefabrication system were discussed in detail.



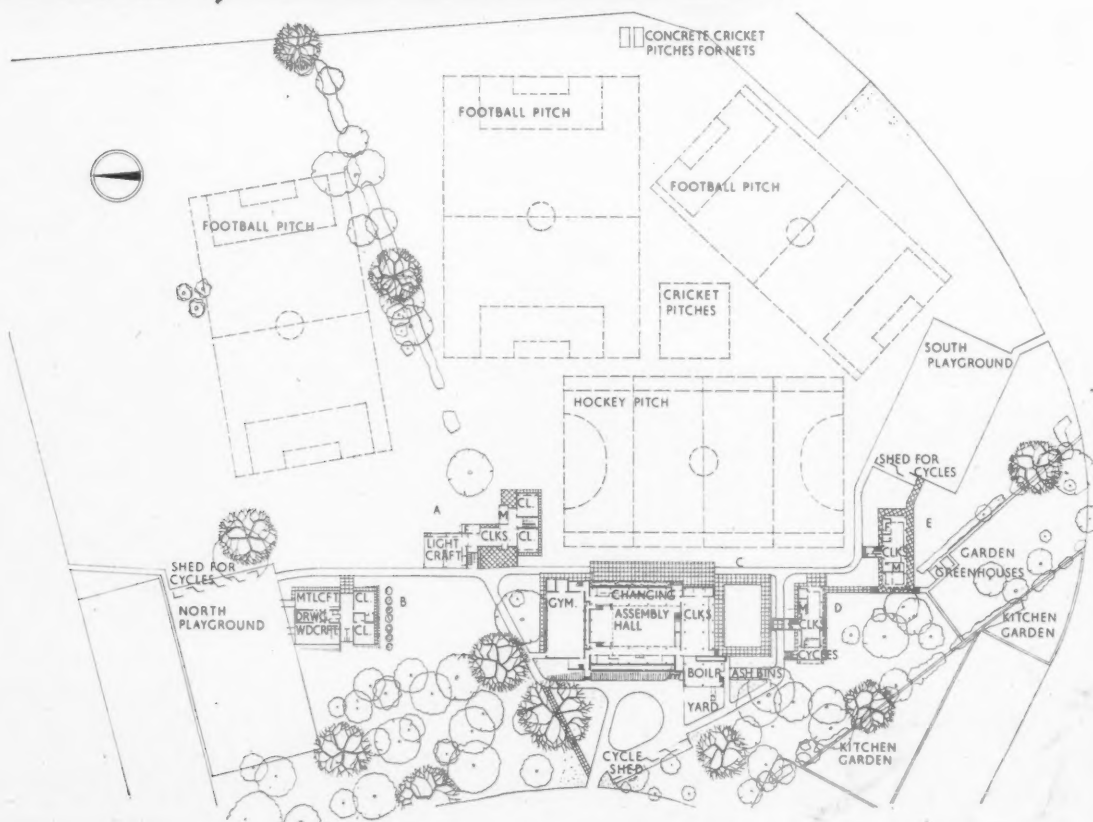
General view from the north-east.

The administration block from the north-west.

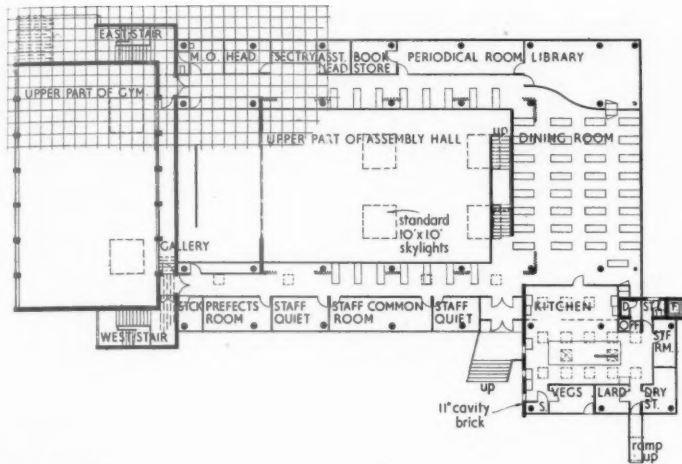




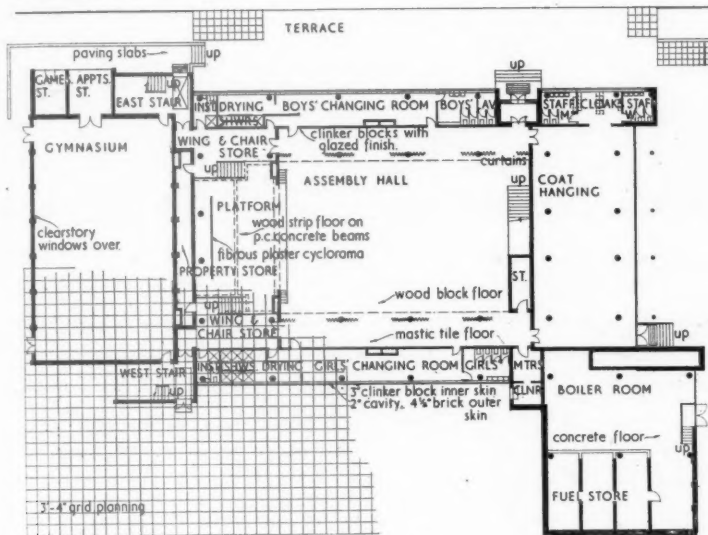
Left, the west facade of the assembly hall and administration building (block C on site plan). On the right is the prototype Phase I building (A on site plan). The sculpture is by Peter Piper. Above, blocks D and E from the terrace at the south-east corner of block C. Vertical sliding bus-type windows have been used in Phase II instead of the 40-in. aluminium casement windows used in Phase I.



Site plan



First floor plan

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

SECONDARY SCHOOL

at OXHEY, HERTS

C. H. ASLIN, County Architect

Right, pottery and other handicrafts displayed in the library. Below, the assembly hall. The balcony has been illustrated as a Working Detail in the issue of the JOURNAL for July 30, 1953. Below, right, part of the gymnasium.

SITE.—The site is situated within the LCC Oxhey estate and from the highest point, which is mid-way along the western boundary, the ground slopes away to the north, east and south. The western boundary is well wooded. The main building (block C on site plan) and the entrance are situated on the highest part of the site, with the art and handicrafts buildings (blocks A and B) down the north slope and the domestic science and science buildings (blocks D and E) down the south slope.

PLAN.—In most schools the theoretical formal teaching and the practical informal teaching are situated in separate wings of the building. In this school the experiment was made of mixing practical and theoretical teaching in the same buildings; a layout described as the "pavilion" type of planning. Block C contains the assembly hall, gymnasium and administration for the whole school. Each of the other blocks is devoted to some special subject, but also contains several formal teaching spaces. The pavilion type of plan was chosen, not only as an educational experiment, but also for the following reasons:—The circulation area is reduced; fire risk is greatly reduced; adequate day-lighting is



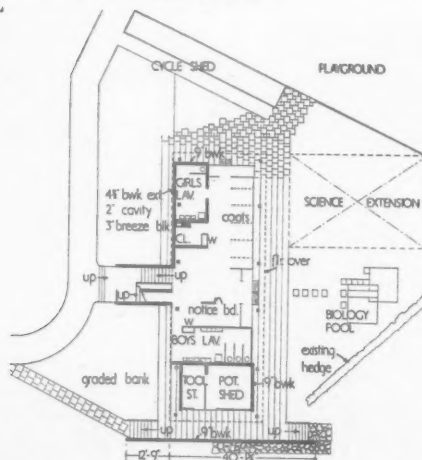


Top, dining room on the first floor of block C. Above, classrooms for theoretical teaching on the second floor of block E.

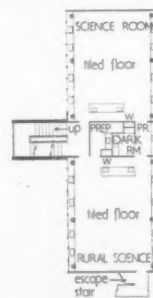
SECONDARY SCHOOL

at OXHEY, HERTS

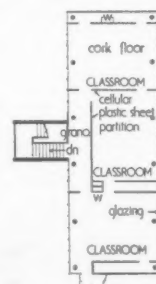
C. H. ASLIN, County Architect



Ground floor plan, Block E [Scale: 1/4" = 1' 0"]



First floor plan

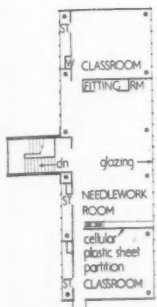


Second floor plan

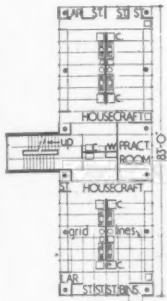
made possible with lower ceiling heights than normally used, because of the larger areas of glazing that can be used; the erection of a prototype building for the 40-in. grid construction developed in Hertfordshire was facilitated; on this particular site the buildings could be situated alongside and partly amongst the trees without breaking up the natural features of the site. The assembly hall in block C is placed centrally with a first-floor gallery, at which level the building is entered from the west, forming access to rooms on three sides.

CONSTRUCTION.—The lattice steel frame used is developed from the frame in Phase I and the main difference between these frames and that used in the MOE Wokingham school, also on a 40-in. grid, is that at Clarendon the stanchions are offset 20 in. from the walls and grid. This system was used in the primary school at Boreham Wood (A.J. Aug. 8, 1952). It enables the 40-in. wide plastic wall panels to be used internally and

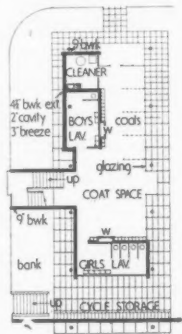
The block stairs, lining a level bands sheeting wall, have been Work JOURN 30, 1953



Second floor plan



First floor plan

Ground floor plan,
Block D[Scale: $\frac{1}{8}'' = 1' 0''$]

The west facade of block E showing escape stairs. The wall paneling above ground floor level is in alternate bands of cellular plastic sheeting and asbestos sheeting. The external wall construction has been illustrated as a Working Detail in the JOURNAL for July 30, 1953.

externally without interference with the stanchions. In Phase II these panels have been used only above ground floor level, where their light weight offers the greatest advantages. Ground-floor walls are of cavity construction, with a brick outer skin and clinker block inner skin. Services are carried in the space between ceiling and upper floor or roof. Stair walls are constructed of brick; stairs have precast concrete treads. The handicraft block is constructed of load-bearing brick walls, with prestressed concrete roof beams spanning up to 23 ft. 4 in. in length.

FINISHES.—At ground-floor level breeze walls are plastered internally; some brick walls are fair

faced. At 1st. and 2nd. floor levels plastic panels have natural colour, except in two classrooms where they are painted white to increase the daylight factor. Ceilings generally are of vermiculite plaster on expanded metal, fixed to the beams at 40-in. centres.

SERVICES.—Heating is by a warm air recirculation system, thermostatically controlled. The main duct containing hot and cold water, gas and electricity runs under the main pathway from the handicraft building over the hill and down to the science building at the south end of the site. Access is by removable reinforced paving slabs. An emergency lighting system is provided for the hall and its exits.





Above, the woodcraft room in block B. This building has load-bearing brick walls and no frame. Below, the staff common room on the first floor of block C.

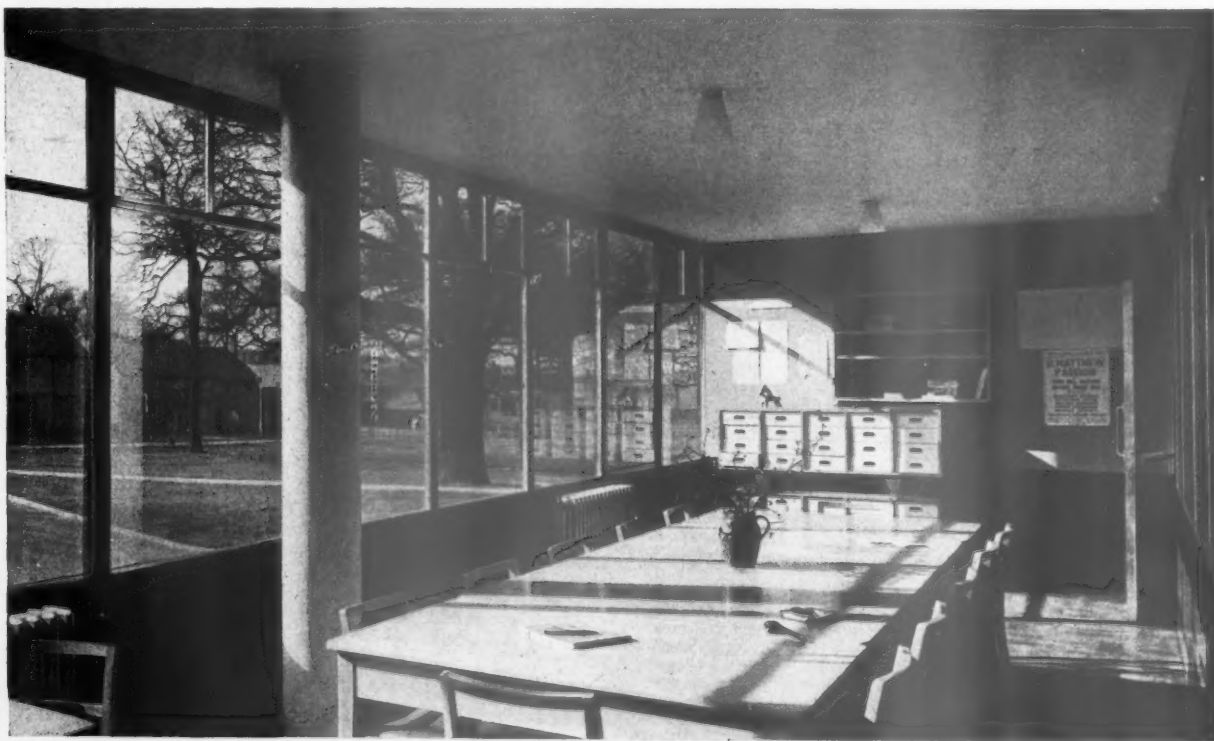
SECONDARY SCHOOL

at OXHEY, HERTS

C. H. ASLIN, County Architect

The school is part of the 1950 MOE building programme and the date of tender is March 19, 1951. There are 90 sq. ft. per place and the total cost of building and site works was £153,039 (Phase II only).

The general contractors were Gee, Walker & Slater, Ltd. Sub-contractors on page 244.



TECHNICAL SECTION

A new argument in favour of central heating for houses and flats (in addition to the now familiar arguments that it uses fuel more efficiently, reduces atmospheric pollution, reduces the amount of garbage to be collected, etc.) is provided by fire statistics recently published by the Fire Research Board.* Analysis of these statistics shows that, of the total number of fires which occur annually in houses and flats (20,034 in 1951), over half are caused directly or indirectly, by individual heating appliances—gas, electric, or solid fuel. Each year between 500 and 600 people lose their lives as a result of fires in buildings, and the total number of casualties in 1951 was nearly 6,000. What proportion of these casualties results from fires in houses and flats we do not know, but these fires represent roughly half the total number of outbreaks and it is a fair assumption that they are responsible for at least half the casualties.

The greater use of central heating would help to reduce this annual toll of life and limb, to say nothing of the financial losses that fires in dwellings cause.

* Fire Research, 1952. (HMSO, 1953, 3s.)

This week's
feature

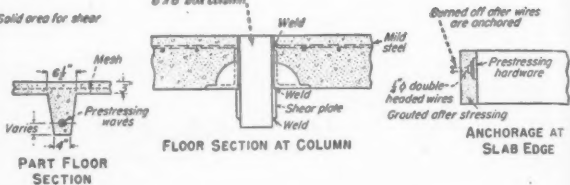
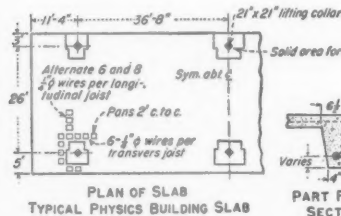
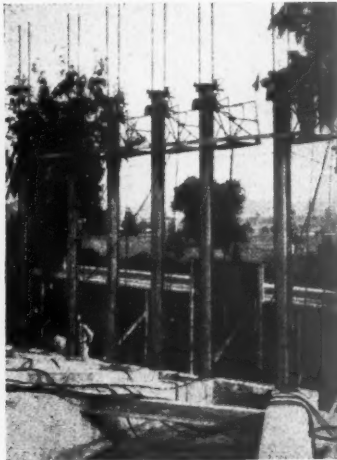
19 CONSTRUCTION: DETAILS developments in slab-lifting

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.

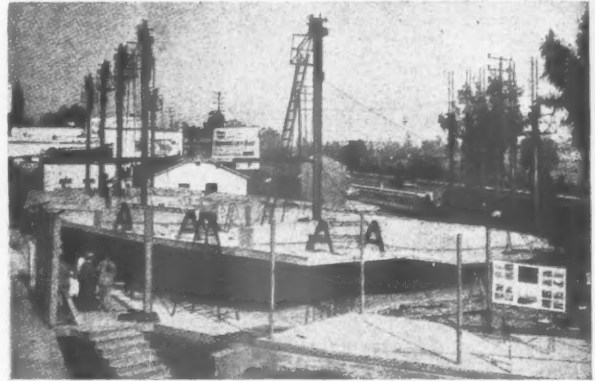
It is now over two years since we first published details of the slab-lifting system of construction. Last April, when we described the slab-lifting of a large-span, "waffle-type" floor, we asked the question "who will be the first contractor to introduce this exciting technique to this country?" The question remains unanswered, but in the USA progress in slab-lifting continues, and Specialist Editor No. 14 describes below two recent developments.

In October, 1952, the largest slab yet lifted by the "Youtz-Slick" system was erected in Los Angeles. The slab forms the roof of a church sanctuary, and has an irregular shape following the contours of the ground slab. It

covers 7,000 sq. ft., weighs nearly 500 tons, and is supported on only 12 columns. Unlike the flat type of slab usually used in this method of construction, this slab has upstand beams, spanning up to 66 ft. between the



Above, part plan and details of prestressed "waffle-type" slab jacked-up into position in San Antonio, Texas. Right, 500-ton, irregularly shaped slab, with upstand beams, being jacked-up into position at Los Angeles. Left, the group of 6, closely-spaced columns, each surmounted by a 50-ton hydraulic jack, which alone support one side of this slab.



columns. Also unusual is the fact that the slab was tilted 4 ft. higher at one end than at the other.

Prestressed solid slabs were first erected by the lift-slab method a year ago; a further advance now reported is the prestressing of "waffle-type" slabs. At San Antonio, Texas, the home of the lift-slab system, a physics laboratory three storeys high is being constructed in this way. The slabs are cast on plastic "pans" at 2-ft. centres, to provide the coffer on the underside, but a solid portion is left around the column heads to cope with the shear forces. The beam ribs are 13 in. deep, tapering from a width of 6½ in. at the

top to 4 in. on the underside. The topping over the pans is 3 in. thick and is reinforced with wire mesh.

Each slab is 96 ft. by 34 ft. in plan, supported on 8-in. square steel columns on a 36-ft. 8-in. by 26-ft. grid. Post-tensioning is applied to groups of four or six ¼-in. wires in the beam ribs. These wires undulate in the rib to

follow the tensile stresses, and friction is reduced by jacking from both ends.

For further details of the Los Angeles slab, see *Engineering News Record* [USA] for November 20, 1952, p. 44, and of the San Antonio slab, see *Engineering News Record* [USA] for April 16, 1953, p. 39 (from which the illustrations above are reproduced).

CURRENT PRICES FOR MEASURED WORK

prepared by Davis, Belfield & Everest, chartered quantity surveyors

Prices are for work executed complete and are for an average job in the London area. All prices include overhead charges and profit for the general contractor. Current prices of materials and rates of wages last appeared in the JOURNAL for Aug. 6.

PRELIMINARIES

To all valuations for measured work add for Preliminaries, Water and Insurances, according to the nature of the job (say) 10%

EXCAVATOR

Excavation

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

Surface digging, 6" deep	per yard super	1/-
Ditto, 12" deep	"	1/11
Excavating not exceeding 10' 0" deep to reduce levels	per yard cube	7/9
Excavating not exceeding 5' 0" deep to form basement	"	8/8
Ditto, exceeding 5' 0" and not exceeding 10' 0" deep ditto	"	12/7
Excavating not exceeding 5' 0" deep to form surface trenches	"	10/7
Ditto exceeding 5' 0" deep and not exceeding 10' 0" deep ditto	"	14/6
Excavating not exceeding 5' 0" deep to form basement trench, commencing 10' 0" deep	"	20/2

EXCAVATOR—(continued)

Disposal

Returning, filling and ramming around foundations	per yard cube	3/5
Wheeling excavated soil not exceeding 100 yards and depositing	"	3/10
Ditto and spreading and levelling	"	5/-
Ditto, ditto, and consolidating to make up levels under floors and pavings	"	6/4
Filling into lorries and carting away	"	12/1

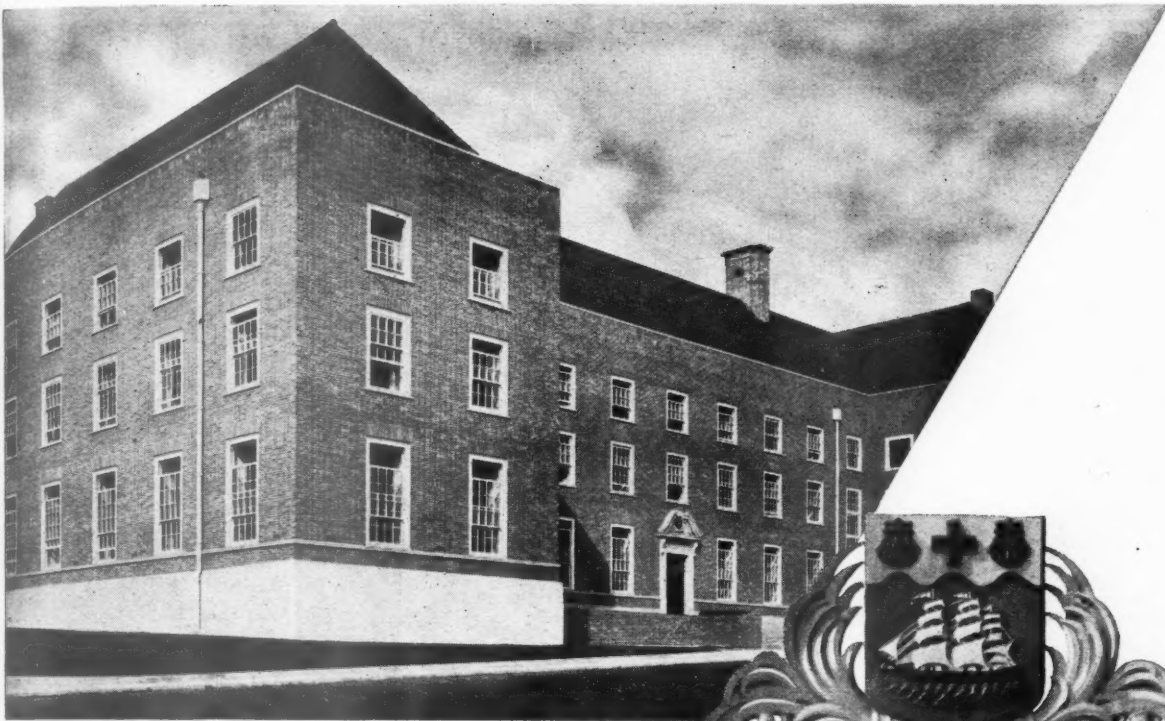
Planking and Strutting

Planking and strutting to sides of surface or basement excavation not exceeding 5' 0" deep	per ft. super	-6½
Ditto not exceeding 10' 0" deep	"	-8
Planking and strutting to sides of surface trenches not exceeding 5' 0" deep (both sides measured)	"	-2
Ditto not exceeding 10' 0" deep (ditto)	"	-3

CONCRETOR

Concrete (Basic Prices)

Portland cement concrete 1 : 3 : 6 with 1½" coarse aggregate in foundations and masses exceeding 12" thick	per yard cube	66/5
Ditto 1 : 2 : 4 with 1½" coarse aggregate ditto	"	67/2



Didsborough Theological College,
Bristol. Architects: Sir Percy
Thomas & Son, F./A.R.I.B.A.

SINCE the war BISON has been specified for more than 1,000 schools and colleges throughout the country. The photograph is of Didsborough Theological College, Bristol, which was recently completed with BISON flooring and roofing.

BISON precast units are in Prestressed or normal R.C., or a combination of both according to design conditions. The BISON system enables the building to dry more quickly because the drying of the floor takes place during the curing process at BISON factories. The only site work is fixing, which is done quickly and efficiently by a foreman and a few semi-skilled men.

BISON units are constructionally complete in simple box sections, and three simple operations finish the job:—

1. Hoist the slabs to floor level.
2. Lay them on their bearings.
3. Grout the joints.

BISON has successfully withstood the Official Fire Test. Prompt delivery from our five factories is assured.



Concrete Limited

First in Prestressed Floors

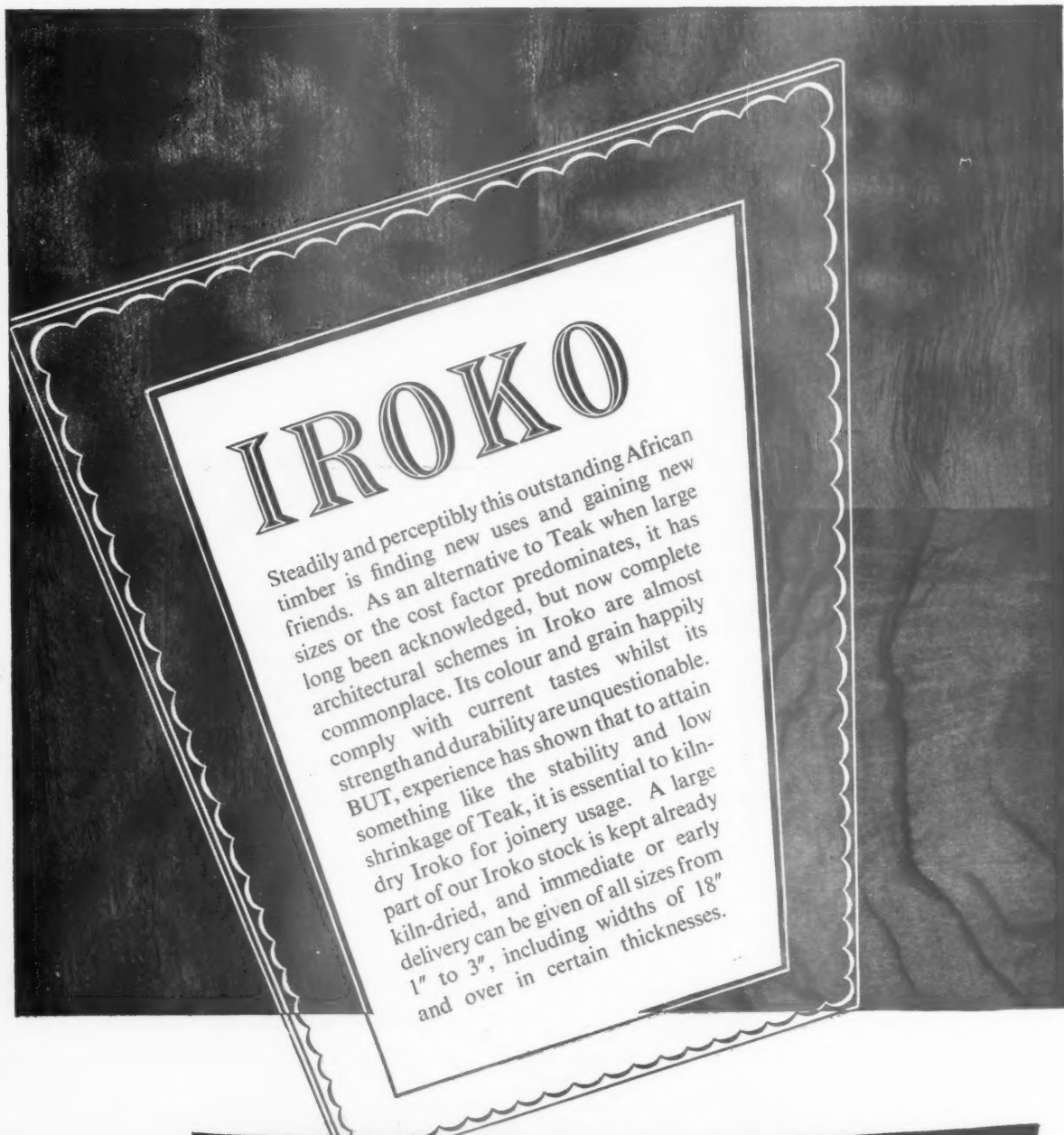
LONDON
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Hounslow 0171.

LEEDS
Stourton,
Leeds 10.
Leeds 75421.

LICHFIELD
Dovehouse Fields,
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Lichfield 2404.

FALKIRK
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Falkirk.
Falkirk 1585.

EDINBURGH
Sighthill Industrial
Estate, Edinburgh.
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IROKO

Steadily and perceptibly this outstanding African timber is finding new uses and gaining new friends. As an alternative to Teak when large sizes or the cost factor predominates, it has long been acknowledged, but now complete architectural schemes in Iroko are almost commonplace. Its colour and grain happily comply with current tastes whilst its strength and durability are unquestionable. BUT, experience has shown that to attain something like the stability and low shrinkage of Teak, it is essential to kiln-dry Iroko for joinery usage. A large part of our Iroko stock is kept already kiln-dried, and immediate or early delivery can be given of all sizes from 1" to 3", including widths of 18" and over in certain thicknesses.

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CONCRETOR—(continued)

Add to Basic Prices for:—

Working around rod or mesh reinforcement	per yard cube	3/10
Being in beds less than 12" thick (6"-12")	"	1/11
Ditto less than 6" thick (4½"-6")	"	5/10
Being in small quantities not exceeding 3' cube	"	15/5
Being in suspended floors and roofs	"	11/7
Being in walls not exceeding 6" thick	"	19/4
Ditto exceeding 6" but not exceeding 12" thick	"	13/6
Ditto exceeding 12" thick	"	9/8
Being in lintels, beams, etc., not exceeding 72 sq. in. sectional area	"	28/11
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	"	23/2
Ditto exceeding 144 sq. in. sectional area	"	19/4
Being in columns not exceeding 72 sq. in. sectional area	"	36/8
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	"	28/11
Ditto exceeding 144 sq. in. sectional area	"	23/2

Formwork

Close boarded formwork and supports to soffits of floors not exceeding 12' high	per yard super	14/11
Ditto to vertical faces of walls (both sides measured)	"	15/-
Ditto to sides and soffits of lintels and beams	per foot super	2/2
Add to any of the above for wrot formwork and rubbing down concrete	per yard super	2/6

Reinforcement

½" to 1" diameter mild steel rod reinforcement, hooked, bent and tied at intersections as required and fixing in concrete	per cwt.	52/6
1" diameter ditto	"	56/6
1½" diameter ditto	"	69/5
Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in concrete	per yard super	3/4
Ditto weighing 9.32 lb. per yard super ditto	"	6/3

BRICKLAYER

Common Brickwork

	Flettons	Rough stocks
Reduced brickwork one brick thick in cement-lime mortar (1:3:9)	per yard super 28/8	33/10
Add to the above:—		
If in cement mortar (1:3)	" -/3	-/3
If circular on plan to flat sweep	" 4/7	4/10
Ditto to quick sweep	" 9/1	9/8
Half brick wall in cement lime mortar (1:3:9)	" 15/6	18/1
Ditto built fair and pointed both sides with a neat flush joint	" 17/6	20/-
One brick wall built fair and pointed both sides with a neat flush joint	" 33/9	38/11
11" hollow wall with 2" cavity and galvanized iron twisted ties	" 33/8	38/9

Engineering Brickwork

	Lingfield Engineering Wirecuts	Blue Pressed bricks
Reduced brickwork one brick thick in cement mortar (1:3)	per yard super 42/-	74/1
Half brick wall in cement mortar (1:3)	" 22/8	38/11
Ditto built fair and pointed both sides with a neat flush joint	" 24/7	41/6
One brick wall built fair and ditto	" 46/4	78/10

Sundries

Extra for internal fair face and flush pointing	per yard super	1/1
Horizontal damp-proof course of two courses of slates and bedding and pointing	per foot super	3/7
Ditto of heesian base bitumen well lapped at joints	"	-/9½
Fixing only metal window, size 1' 8" x 4' 0", including cutting and pinning lugs to brickwork, bedding frames and pointing in mastic one side	each	7/11
Ditto, 3' 3" x 4' 0" ditto	"	12/4
Ditto, 6' 6" x 4' 0" ditto	"	21/9

BRICKLAYER—(continued)

Partitions

	2"	2½"	3"	4"
Clinker concrete solid partition blocks to B.S. 492 and setting in cement mortar	per yard super 7/5	8/9	10/2	12/7
Hollow clay partition blocks to B.S. 1190, keyed on both sides and ditto	" 8/7	9/6	10/10	-
Moler hollow partition blocks, keyed on both sides and ditto	" 18/1	19/6	21/-	25/4

Facings

	White glazed facings p.c. 1,360/- M for stretchers 1,260/-M	Ordinary facings, p.c. 236/6 M.	for headers and pointing with white cement
Extra over common brickwork built with bricks p.c.110/- M for facings as described, and pointing with a neat weathered joint:—		249/4 M.	
To solid wall in Flemish bond	per yard super 13/11	14/10	78/8
To cavity wall in stretcher bond	" 11/4	12/-	63/-
To ditto in Flemish bond with snapped headers	" 13/5	14/4	-
Half brick wall in facings in stretcher bond built fair and pointed one side with a neat weathered joint	" 25/7	26/3	-
Ditto pointed both sides	" 26/7	27/3	-
One brick wall in facings built fair and pointed one side	" 47/11	49/3	-
Ditto pointed both sides	" 48/11	50/2	-
Brick on end flat arch in facings 4½" on soffit and 9" high and pointing	per foot run 2/11	3/-	-
Brick on edge coping to 9" wall with two courses plain tiles under, laid breaking joint, two cement angle fillets and pointing	" 5/-	5/1	-

ASPHALTER

Tanking

	To B.S. 1097	To B.S. 1418
Horizontal asphalt tanking in three thicknesses on brick or concrete	per yard super 20/-	31/-
Vertical ditto	" 24/8	34/8

Roofing

	To B.S. 988	To B.S. 1162
½" asphalt flat in two thicknesses on and including felt underlay	per yard super 14/5	24/2
½" asphalt skirting 6" high with angle fillet at bottom and rounded top, turned into groove	per foot run 2/4	2/11
½" asphalt fascia 6" high with solid water check roll at top and under-cut drip at bottom	" 4/3	4/9

DRAINLAYER

Trenches and Beds

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

Excavate trenches for 4"-9" pipes, including planking and strutting, filling in and ramming, and wheeling and spreading surplus:—		
For each 12" in depth, for trenches not exceeding 3' 0" deep	per yard run	3/1
Ditto for trenches exceeding 3' 0" and not exceeding 5' 0" deep	"	4/5
Ditto for trenches exceeding 5' 0" and not exceeding 10' 0" deep	"	7/2
6" concrete (1:3:6) bed and benching for pipes	per yard run	4" 8/10
6" ditto, and surround	"	6" 10/4



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DRAINLAYER—(continued)

Drains		3"	4"	6"
Clayware butt-jointed land drains and laying in trench	per foot run	-4½	-5½	-9½
"Seconds" quality glazed stoneware socketed drains and laying and jointing in trench	"	4"	6"	9"
"British Standard" quality ditto	"	2/1	3/-	5/1
Extra on "Seconds" quality for bends	each	2/6	3/8	6/3
Ditto "British Standard" quality ditto	"	3/4	4/11	14/3
Extra on "Seconds" quality for equal single junction	"	4/2	6/3	18/6
Ditto "British Standard" quality ditto	"	5/8	8/4	18/-
Cast iron socketed drains to B.S. 437 and laying and jointing in trench	per foot run	6/9½	10/3	22/8
Extra for short radius bend (Fig. No. 4)	each	10/11	16/8	32/6
Extra for single junction (Fig. No. 18)	"	22/-	41/4	121/5
	"	40/-	76/9	230/-

Fittings, etc.

		4"	6"
Glazed stoneware trapped gully with galvanized grating and outlet and setting in concrete	each	24/-	44/8
Ditto with vertical inlet ditto	"	30/-	50/6
Cast iron trapped gully with high invert, grating, and 4" outlet and setting in concrete	"	58/4	—
Ditto with vertical inlet ditto	"	67/-	—
Glazed stoneware intercepting trap with inspection arm, stopper and chain and fixing in manhole and jointing to drain	"	75/4	87/6
Brown glazed stoneware half round straight channels and bedding and jointing in cement mortar	per foot run	1/11	2/10
Ditto ordinary channel bend and ditto	each	5/8	8/1
Cast iron coated single seal manhole cover and frame to B.S. 497 Grade C and setting frame in cement and cover in grease	"	24" × 18" 24" × 24"	41/5 61/3
Galvanized ditto	"	69/6	105/6

PAVING

Cement and sand (1:3) floated screed to receive pavings	per yard super	¾"	1"	1½"
Ditto trowelled smooth to receive linoleum	"	3/5	4/1	4/7
Cement and sand (1:3) paving trowelled hard and smooth	"	3/9	4/5	4/11
Granolithic paving (1:2½) laid on concrete	"	3/10	4/6	5/-
1" red composition paving to B.S. 776 laid on prepared screed	per yard super	1"	1½"	1¾"
1" terrazzo paving (Portland cement and spar aggregate) laid on prepared screed	"	6/3	7/1	7/11
Extra for white or cream cement	"			
1" rubber flooring in all colours, laid on prepared screed	"			
1" × 12" × 12" rubber tile flooring ditto	"			
1½" × 12" × 12" cork tile flooring (brown shades) laid in mastic on prepared screed, surfaced and polished	per yard super			
1½" hard red paving bricks p.c. 404/6 per M. laid flat on prepared bed in cement mortar	"			
1½" ditto laid herringbone	"			
6" × 6" red quarry tile paving to B.S. 1286 laid on prepared screed with straight joints	per yard super			
6" × 6" buff quarry tiles as last	"			
2½" (finished) gravel path laid on prepared bed, well watered and rolled to cambers and falls	"			

MASON

Portland stone and all labours in pilasters, and quoins	per foot cube	38/4	
Ditto in jambs, lintols, etc.	"	40/9	
Ditto in arches	"	49/4	
Ashlar av. 6½" on bed with plain dressed face	per foot super	21/10	
Portland stone or artificial stone to B.S. 1217:—	Port-land	Arti-ficial	
4½" × 4" sill, sunk, weathered, throated and grooved for water bar, set and jointed in cement mortar	per foot run	7/5	4/1

MASON—(continued)

9" × 3" ditto	per foot run	8/7	6/2
2" × 12" Coping, weathered and twice throated, set and jointed as last	"	7/9	5/6
3" × 12" Ditto	"	10/11	8/2
5" × 12" Saddle back coping twice throated, set and jointed as last	"	17/8	12/6
6" × 12" Ditto	"	20/6	14/1

SLATER, TILER AND ROOFER

Slate		20" × 10"	16" × 10"
Best Bangor slates to B.S. 680 laid with 3" lap, each slate nailed with two stout copper nails	per square	269/-	243/6
Ditto hung vertically to dormer cheeks and gables	"	274/-	254/-

Tiles		Hand made	Machine made
Best sand faced plain (nibbed) tiles to B.S. 402, 10½" × 6½" laid to a 4" gauge with each tile in every fourth course nailed with galvanized nails	per square	172/3	158/6
Ditto hung vertically to dormer cheeks and gables to 4½" gauge with each tile nailed with galvanized nails	"	178/6	168/-
Berkshire hand made sand faced red pantiles 14½" × 10" laid to 2½" head and 1½" side laps, each tile in every third course nailed with galvanized nails	per square	182/2	187/5
Ditto to mansard slopes	"		
Bridgwater hand made Double Roman red sandfaced tiles 16½" × 14" laid to 3" laps, each tile in every course nailed with galvanized nails	"	131/3	
Concrete plain (nibbed) tiles to B.S. 473, 10½" × 6" laid as before described for plain tiles	"	116/3	
Ditto hung vertically to dormer cheeks, and gables, ditto	"	131/3	
Concrete interlocking tiles 15" × 9" laid to 3" lap, each tile in every third course nailed with galvanized nails	"	96/8	
Ditto to mansard slopes ditto	"	101/10	

Asbestos Cement			
6" corrugated asbestos cement sheeting fixed to wood roofs with galvanized drive screws and washers with a side lap of 1½ corrugations and an end lap of 6"	"	89/3	
6" ditto but fixed vertically	"	99/9	
Add to both last if fixed to steel purlins or sheeting rails with galvanized hook bolts	"	4/9	

Felt			
Reinforced bituminous roofing felt laid with 3" laps and nailed to rafters at 18" centres with galvanized clout nails	"	22/-	Three layer
One-ply bitumen felt to B.S. 989 laid on concrete. Each layer bedded in hot bitumen	per yard super	8/8	11/6
Extra on last for finishing with granite chippings	"	-9½	

CARPENTER

Carcassing			
Softwood, sawn and fixed, in plates, sleeper joists and lintols	per foot cube	15/2	
Ditto in floor and ceiling joists	"	17/-	
Ditto in stud partitions	"	18/8	
Ditto in rafters	"	18/6	
Ditto in purlins and struts	"	18/8	
Ditto and framing in ridge	"	18/6	
Ditto in hip and valley rafters including cutting rafters to sizes	"	20/8	

Battening and Boarding		Roof slopes	Vertical hanging
¾" × 1½" battens nailed to softwood for 20" × 10" slates to 8½" gauge	per square	29/11	31/6
Ditto 16" × 10" slates to 6½" gauge	"	37/10	39/11
Ditto 10½" × 6" tiles to 4" gauge (4½" for vertical hanging)	"	60/4	57/9
Ditto 14½" × 10" pantiles to 12" gauge	"	21/-	21/6
Ditto 15" × 9" concrete interlocking tiles to 12" gauge	"	21/-	21/6
Roof boarding in batten widths close jointed and fixed to flat or sloping roofs	"	112/-	139/6
Ditto tongued and grooved and prepared for felt roofing including firing to falls	"	165/6	194/6



USING this system of Guttering shows a tremendous saving in cost, material and maintenance charges. Finlock Gutters are made with a fine waterproof concrete—simple in design, easy

Finlock forms the eaves and gutters *(says Mr. Fin)*

... and saves £15 per house! *(says Mr. Lock)*



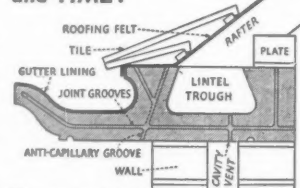
shows the large sectioned gutter channel which permits laying without fall. Strong enough to walk in and to withstand all building stresses. Completed by a "FINLOCK" waterproof mastic after laying. "c" indicates the jointing grooves.

★ A fully illustrated Technical Booklet is available on request, from our Head Office

(A.J. Information Sheet No. 33V10)



HOW FINLOCK SAVES MONEY and TIME!



This sectional drawing shows the system in detail and illustrates the ways in which FINLOCK saves approximately 5 yards of brickwork, 80 ft. of rafter, 40 ft. of normal guttering, 40 ft. of fascia, 40 ft. of soffit and 80 ft. super of roof tiling per single house. Painting is eliminated and a reduction in down pipes and drainage is obtained. The complete eaves for a building, with all fittings, can be fixed in one day. Some typical FINLOCK units are shown below:—



Regd. Pat.



Finlock Gutters are being used by the following County Councils: CAMBRIDGESHIRE, DERBYSHIRE, EAST SUSSEX, GLAMORGANSHIRE, GLOUCESTERSHIRE, KENT, LONDON, MIDDLESEX, NORFOLK, SURREY, STAFFORDSHIRE, WARWICKSHIRE, WORCESTERSHIRE.

Over 300 local authorities are now using Finlock.

* The buildings shown are in accordance with the winning design in the £1,000 low cost housing competition organised by "THE BUILDER". By courtesy of J. L. Womersley, Esq., A.R.I.B.A., A.M.T.P.I., late Borough Architect for Northampton.

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DHB

CARPENTER—(continued)

		Roof	
		Slopes	Mansards
Sawn gang boarding fixed to joists in roof	per foot super	1/2½	1/6
Wrot and cross-tongued eaves soffit	"	1/11½	2/3
6" wrot and grooved eaves fascia planted on	per foot run	-10½	1-½

Wall and Ceiling Boards

		Vertically	Soffites
1" fibre board to B.S. 1142 fixed with galvanized flat headed nails to softwood	per yard super	5/10	6/-
3" asbestos cement flat sheeting to B.S. 690 fixed as last	"	6/2	6/7
1" ditto	"	7/3	7/8

JOINER

Floors and Skirtings
(All thicknesses stated are nominal)

		7"	1"	1½"
Plain edge softwood flooring in batten widths nailed to floor joists	per square	140/6	156/9	189/-
Tongued and grooved ditto	"	150/-	166/9	200/-
1" double grooved and tongued and grooved wood block floor laid herringbone with two-block border, set in hot mastic composition on prepared screed and wax polished:—				
Swedish softwood	per yard super			26/3
European beech	"			33/7
English oak	"			46/3
European oak	"			41/-
Burma teak	"			45/8
Softwood skirtings with splayed or molded top edge, planted on (per inch sectional area)	per foot run	-2½	-2½	
Extra for grounds plugged to brickwork	"		-8	

Windows in Softwood

		1½"	2"
Rebated and molded softwood fanlights and casement sashes divided into squares for glass	per foot super	3/1	3/4½
Extra for hanging	each	6/9	6/9
Cased frames with 6" x 3" oak sill and 2" molded double hung sashes including pulleys, line and weights	per foot super	—	10/1

N.B.—The above prices are for purpose made joinery. Standard pattern casement windows and double hung sashes and frames to B.S. 644 are cheaper.

Doors in Softwood

		1½"	1½"	2"
Framed ledged and braced doors filled in with 1" T. & G. and V-jointed boarding and hanging	per foot super	6/4	7/-	7/-
Four-panel door, square both sides and hanging	"	5/3	5/11	5/11
Ditto molded one side	"	5/9	6/6	6/6
Ditto molded both sides	"	6/4	7/-	7/-

N.B.—The above prices are for purpose made doors. Standard panelled doors to B.S. 459 are cheaper.

1½" standard flush doors 2' 6" x 6' 6" internal pattern	each	118/6
2" ditto external pattern	"	127/-

Linings, Frames, etc., in Softwood

		Sectional area	
Window and door linings etc. (per inch in sectional area)	per foot run	Up to 6" 6" to 12"	
Frames wrot all round and framed (ditto)	"	-4	-3½
Mullions, transoms and cills (ditto)	"	-3	-2½
Moldings, architraves, etc. (ditto)	"	-3½	-3
6" Window boards with rounded nosings, tongued at back and including bearers	"	2" to 4" 4" to 6"	
9" Ditto	"	Thickness	
	"	1"	1½"
	"	3/2½	3/5
	"	3/6½	3/10

Shelving and Fittings in Softwood

		1"	1"
Shelving of 2" slats spaced 1" apart on bearers (measured separately)	per foot super	2/8½	3/-
Shelving on ditto	"	2/5½	3/0½
Cross tongued shelving on ditto	"	3/1	3/8
Shelving 9" wide on ditto	per foot run	1/9	2/1½
2" shelf bearers plugged to walls	"	1/0½	1/2½
The following in framed up cupboard fittings:—			
T. & G. & V-jointed back	per foot super	2/1½	2/6
Cross tongued top, bottom shelf or division	"	3/2	3/8½
1½" flush cupboard doors	"	7/3	
Labour rebate or groove	per foot run	-3½	

JOINER—(continued)

Labour cross-grain	per foot run	-4½
1" x 2" bearers screwed on	"	-6

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

IRONMONGERY

		Softwood	Hardwood
3" steel butts (medium quality)	per pair	4/11	6/1
4" ditto (ditto)	"	6/8	8/-
Double action floor springs and top centres including filling boxes with oil	P.C. 149/3 each	181/6	187/4
Overhead check action door springs	P.C. 66/8	84/3	87/10
6" barrel bolts	P.C. 5/6	7/8	8/2
Cupboard locks	P.C. 8/2	12/3	13/4
Norfolk latches	P.C. 5/6	10/5	11/10
Cylinder night latch	P.C. 15/11	22/11	24/9
Mortice latch	P.C. 9/4	14/8	16/1
Rim lock	P.C. 10/-	14/3	15/4
Mortice lock	P.C. 15/2	22/1	23/11
Door furniture	P.C. 24/-	per set	27/6
Sash fasteners	P.C. 9/-	each	11/8
Casement fasteners	P.C. 7/11	"	10/-
Casement stays	P.C. 11/6	"	14/-

STEEL AND IRONWORKER

Structural Steelwork

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

		£	s.	d.
R.S.J.—in steel framed structures hoisted and fixed complete	per ton	58	3	3
Riveted compound girders including plates and rivets	"	64	0	0
R.S. stanchions including caps, bases, cleats, etc.	"	66	16	0
Riveted compound stanchions ditto	"	69	15	6
Riveted roof trusses with flat and angle members, plates, cleats, etc., 30' span	"	103	7	6
Ditto 40' span	"	95	0	0

Sundries

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

PLASTERER AND TILE FIXER

24 gauge expanded metal lathing and fixing to softwood soffites	per yard super	5/1
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Lime and Gypsum Plaster

		Lime	'Sirapite'
Three coat lime and two coat "Sirapite" or similar gypsum plaster:—			
On brick walls and partitions	per yard super	5/11	4/8
On concrete soffites including hacking	"	7/3	6/7½
On soffit of E.M.L. (measured separately)	"	6/-	7/2½
On and including wood laths, to soffites	"	12/-	—
½" Gypsum plasterboard fixed to softwood soffites, in accordance with manufacturer's instructions, scrimmed and finished with setting coat of suitable plaster	per yard super	7/5	
Plaster moulded cornice or cove (per inch in girth)	per foot run	-4½	

Cement Rendering

Rendering in Portland cement lime sand (1:1:6) and setting in Keenes cement on brick walls and partitions	per yard super	5/9
Portland cement and sand (1:3) plain face trowelled smooth on ditto	"	5/3
Portland cement and sand (1:3) screed for tiling on ditto	"	2/9

Wall Tiler

6" x 6" x ¾" standard quality white glazed wall tiles set and jointed on prepared screed	per yard super	37/10
Ditto eggshell matt or glossy glazed enamelled	"	47/6

EXTERNAL PLUMBER AND COPPERSMITH AND ZINC WORKER

		Flats	Gutters, Stepped flash-ings, etc.	flash-ings
Milled sheet lead and labour	per cwt.	206/-	206/-	215/-

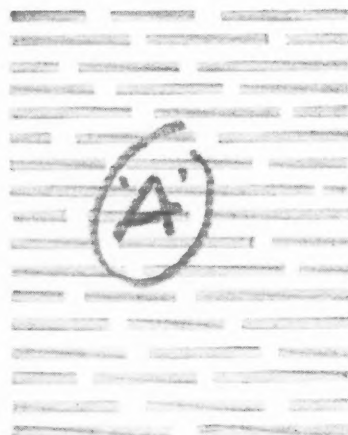
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The bath and sink waste branches must be correctly placed on a soil pipe and the proper position depends on many factors, including the trap design. Ensure a good "mating" of stack and traps by specifying that they both be obtained from the one maker.

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EXTERNAL PLUMBER AND COPPERSMITH AND ZINC WORKER—(continued)

	Flats	Gutters, flashings, etc.	Stepped flashings
24 S.W.G. sheet copper and labour	per foot super 5/5	5/9½	5/11
23 S.W.G. sheet copper and labour	5/10	6/3	6/5
14 gauge zinc and labour	2/2½	2/5½	2/8½

Rainwater Pipes and Gutters

	3"	4"
Cast iron medium section ($\frac{1}{8}$ " metal) R.W. pipes and jointing and fixing to walls with pipe nails and distance pieces or holderbats (cutting and pinning holderbats measured separately)	With holderbats 5/-	With holderbats 6/-
Pressed steel R.W. pipes and ditto	24 G. 3/11	20 G. 5/6
Asbestos cement R.W. pipes and ditto	3/-	3/8
Cast iron half round eaves gutter and jointed and fixed with brackets to fascia	$\frac{1}{2}$ " 2/9	$\frac{1}{2}$ " 3/1
Ditto O.G. ditto	3/1	3/11
18 Gauge pressed steel half round ditto	2/8½	3/9
Ditto O.G. ditto	3/3	4/6
Asbestos cement half round ditto	2/4	3/9½

Soil and Ventilating Pipes

	3"	4"
Lead soil, waste and ventilating pipes (17 lb. per yard for 3" and 22-8 lb. per yard for 4" diameter) fixed to walls with lead tacks and brass screws	per foot run 11/2	15/7
Medium or heavy section cast iron soil, waste and ventilating pipes with caulked joints, fixed to walls, with pipe nails and distance pieces	Heavy $\frac{1}{2}$ " 5/2	Med. $\frac{1}{2}$ " 4/9

INTERNAL PLUMBER

Lead Pipes

Prices are based upon the following weights per yard.

	$\frac{1}{2}$ " lb.	$\frac{3}{4}$ " lb.	1" lb.	1½" lb.
Supply	7	11	16	21
Distributing	6	9	12-5	16
Flushing and overflow	3	5	7	9
Waste and ventilating	—	—	—	7
Supply pipe in trench (measured separately)	per foot run 3/9	5/9	8/2	10/9
Ditto fixed to walls and ceilings	4/2½	6/4½	8/11	11/10
Distributing pipe fixed to walls and ceilings	3/9	5/5½	7/4	9/7
Flushing and overflow pipe ditto	2/5	3/8	4/11	6/4
Waste and ventilating pipe ditto	—	—	—	5/6
Joints to fittings	each 4/11	5/8	6/1	6/10
Bends	—	—	—	1/11
Branch joints	6/3	7/2	7/7	8/11

Steel Tubes and Fittings

Galvanized steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply pipe laid in trench (measured separately)	per foot run 1/11	2/4½	2/7	3/3
Ditto Class B ditto fixed to walls and ceilings as supply, distributing, waste pipe, etc.	1/11	2/3	2/5½	3/-
Joints to fittings	each 3/8	4/2½	5/1	6/1½
Bends	—	—	3/2	4/7
Tee, equal or reducing	2/2	2/6½	3/1	4/-

Copper Tubes and Fittings

Prices are based upon the following gauges:—

	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1½"
Supply	18	17	16	18
Distributing, waste, etc.	19	19	18	18
Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench measured separately)	per foot run 1/10	2/8	3/8	4/8
Ditto to B.S. 659 as distributing, waste pipes, etc. fixed to walls and ceilings. Couplings measured separately	1/10	2/4	3/2	3/10

INTERNAL PLUMBER—(continued)

	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1½"
Brass compression type couplings—copper to copper	each 4/4½	5/-	6/10	8/10
Ditto bends	5/8	6/7	8/4	11/10
Ditto tees	7/4	8/5	12/7	18/-

Sanitary Fittings

Fireclay sinks 24" x 18" x 10" including cutting and pinning brackets to tiled wall. P.C. 75/-	each	£ s. d.	4 16 0
Combined metal sink and drainer 42" x 18" x 8½" to bearers (measured separately). P.C. 330/-	"	18 11 9	
Fireclay lavatory basin 25" x 18" with taps and towel rail bracket including screwing brackets to tiled wall. P.C. 138/6	"	8 5 0	
Rectangular cast iron porcelain enamelled bath 5' 6" long, with taps, and panels to side and one end fixed to framing (measured separately) P.C. 390/6	"	23 9 3	
Fireclay w.c. pan with trap, plastic seat, high level cistern and flush pipe, including screwing pan to floor and cistern brackets to backboard. P.C. 200/-	"	12 12 3	
Ditto with low level cistern. P.C. 240/-	"	14 17 6	

GLAZIER

	To wood	To metal
18 oz. Ordinary quality sheet glass and glazing with putty in squares not exceeding 4 ft. sup.	per foot super 1/-	1/1
24 oz. Ditto and ditto	1/1½	1/3
32 oz. Ditto and ditto	1/7½	1/8½
$\frac{1}{2}$ " figured, rolled, and cathedral—untinted and ditto	"	1/4
$\frac{1}{2}$ " rough cast and ditto	"	1/7½
$\frac{1}{2}$ " wired cast and ditto	"	1/9½
$\frac{1}{2}$ " Georgian wired cast and ditto	"	1/9½
$\frac{1}{2}$ " Georgian wired polished plate and ditto	"	6/1½
$\frac{1}{2}$ " polished plate (glazing quality) and ditto	"	6/-

PAINTER

Whitening, Distemper and Paint on Walls

Prepare and twice whiten plastered walls and ceilings	per yard super	1/1½
Prepare and twice distemper with washable distemper on plastered walls and ceilings	"	1/8½
Ditto on brick or concrete	"	2/3
Prepare and paint two coats emulsion paint on plastered walls	"	2/6
Prepare, prime, and paint two coats oil colour on plastered walls and ceilings	"	4/7

Paint on Metal

	Basic price	Add for each additional coat
Prepare, prime, and paint one coat oil colour on general surfaces	per yard super 2/11	1/4
Ditto metal casements	4/6	1/11½
Ditto members of roof trusses	3/8½	1/8
Ditto balustrades one side	4/6	1/11½
Ditto bars, etc., not exceeding 6" girth	per yard run -/9	-/4
Ditto small pipe	"	-/4
Ditto large pipe	"	-/8

Paint on Wood

	Basic price	Add for each additional coat
Knot, prime, stop and paint one coat oil colour on general surfaces of woodwork	per yard super 3/3	1/4
Ditto on skirtings, rails, frames, etc., not exceeding 3" girth	per yard run -/5	-/2
Ditto ditto for each additional 3" in girth	" -/4½	-/2
Ditto on sash squares one side	per dozen 3/9	1/6
Ditto on large sash squares one side	" 6/10	2/9

Stain and Varnish on Wood

Prepare, size, stain and twice varnish on general surfaces of woodwork	per yard super	3/8
Ditto on skirtings, rails, frames, etc. not exceeding 3" girth	per yard run	-/6
Ditto ditto for each additional 3" in girth	"	-/5

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ENQUIRY FORM

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Please ask manufacturers to send further particulars to:—

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AJ 20.8.53

Buildings Illustrated Announcements

Clarendon Secondary Modern School (Phase II) at LCC Estate, Oxhey, Herts. (Pages 231-236.) Architect: C. H. Aslin, C.B.E., F.R.I.B.A., County Architect. Architect-in-charge, R. A. de Yarburgh-Bateson, M.A., A.R.I.B.A. Associated architect: Patricia Townsend, A.R.I.B.A. Sculptor: Peter Piper. Water and electrical engineer: T. S. Thwaite, A.R.I.B.A., A.M.I.H.V.E. Quantity surveyors: Thomas Barrett, Son & Partners. General contractor: Gee, Walker & Slater Ltd. Clerk of works: G. E. Curtis. General foreman: F. J. West. Sub-contractors: reinforced concrete, Trussed Concrete Steel Co. Ltd., Concrete Ltd. (prestressed beams), Hills (West Bromwich) Ltd.; bricks, Uxbridge Flint Brick Co.; structural steel, Hills (West Bromwich) Ltd., H. J. Young Ltd. (ash-bin shed); fireproof construction, Metamica Vermiculite, Campbell Dennis Ltd. (plaster ceilings on expanded metal); asbestos cement, Turners Asbestos Cement Co. Ltd.; special roofings, "Bitumetal" deck over gymnasium and assembly hall, William Briggs & Sons Ltd.; partitions (ground floor), Broad & Co. Ltd. (1st and 2nd floor walls and partitions), Holoplast Ltd.; patent glazing, Henry Hope Ltd.; wood flooring, Hollis Bros. Ltd., and Horsley Smith & Co. Ltd.; patent flooring, E. J. Elgood Ltd., Wm. Lockhart Ltd., Marbolith Ltd., and Granwood Flooring Co. Ltd.; central heating, Weatherfoil Heating Systems Ltd.; electric wiring, Duncan-May Ltd., and White Ltd.; ventilation, Greenwoods Ltd.; sanitary fittings, Stitsons Sanitary Fittings Ltd.; door furniture, cloakroom fittings, Mountford Bros.; casements, Henry Hope Ltd.; folding gates, Hills (West Bromwich) Ltd.; iron staircases, H. J. Young Ltd.; metalwork, Clark Hunt Ltd.; textiles, Gerald Holtom; furniture, designed by Denys White; shrubs and trees, County Education Dept.; travelling block and pulley, Geo. King & Co. Ltd.; clocks, Gent & Co. Ltd.

The ICE has made the following awards to graduates and students for papers read in the session 1952-53 before local associations. Miller prizes are awarded as follows:—J. A. S. Watson for his paper "Summer Work on the Daer Water Scheme Pipelines" (Edinburgh and East of Scotland Association); Kenneth MacKenzie, B.Sc., for his paper "The Lining of Errochty High Pressure Tunnel" (Edinburgh and East of Scotland Association); R. M. Birse, B.Sc., for his paper "Engineering Education" (Edinburgh and East of Scotland Association); M. F. Maggs for his paper "Road Traffic Engineering with Reference to Some Recent Bristol Surveys" (South-Western Association); Douglas Collier for his paper "Investigations into the Stability of a Masonry Screen Wall" (Edinburgh and East of Scotland Association); M. E. McKee for his paper "Design of Proposed New Sludge Jetty for Belfast Corporation" (Northern Ireland Association); M. J. Hill for his paper "First Stage Roadworks of a New Approach Road to Swansea" (South Wales and Monmouthshire Association).

The National Joint Council for Local Authorities, on the recommendation of the Local Government Examinations Board, has agreed that the IAAS examinations in the quantity surveyors' section of membership should be included in the list of examinations recognized for promotion purposes. The examination will be recognized in the same way as the final examination of other technical examining bodies, and local authorities have been notified accordingly. Passing of the final examination confers eligibility for promotion to grade APT IV and higher grades, provided that the officer has had five years' approved experience. Similar recognition has already been accorded to the IAAS examinations in the building surveyors' section.

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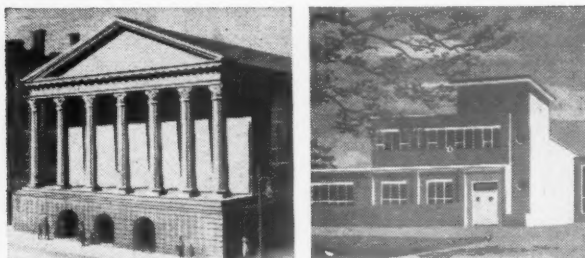
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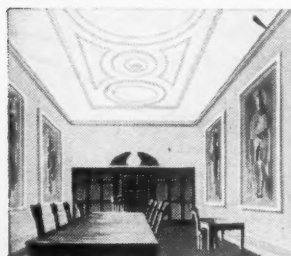
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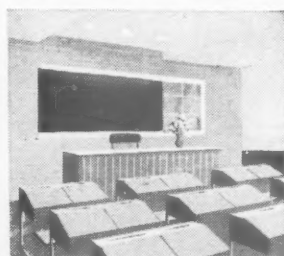
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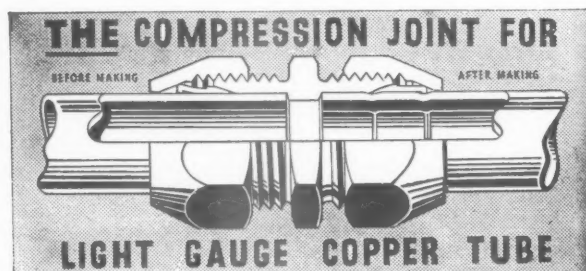
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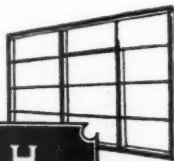


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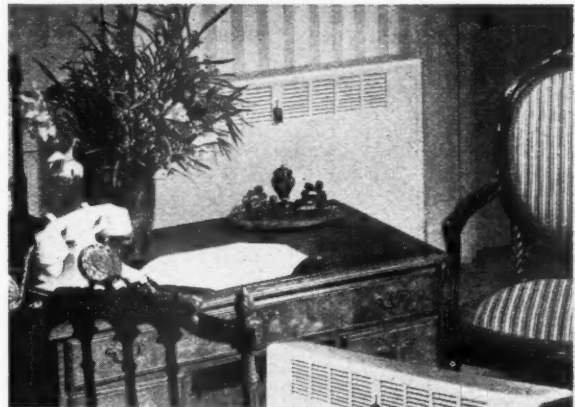
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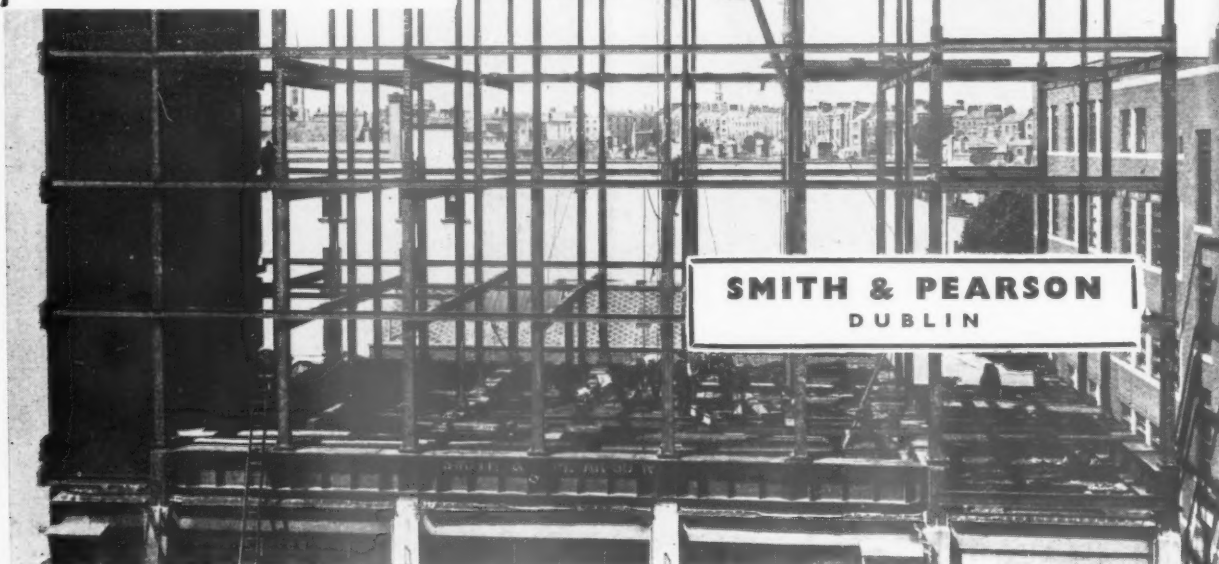
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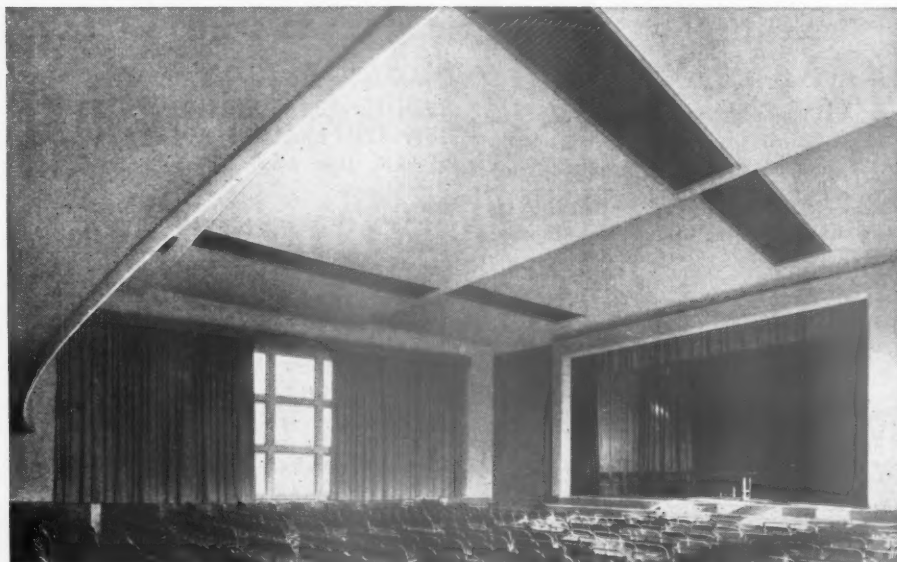
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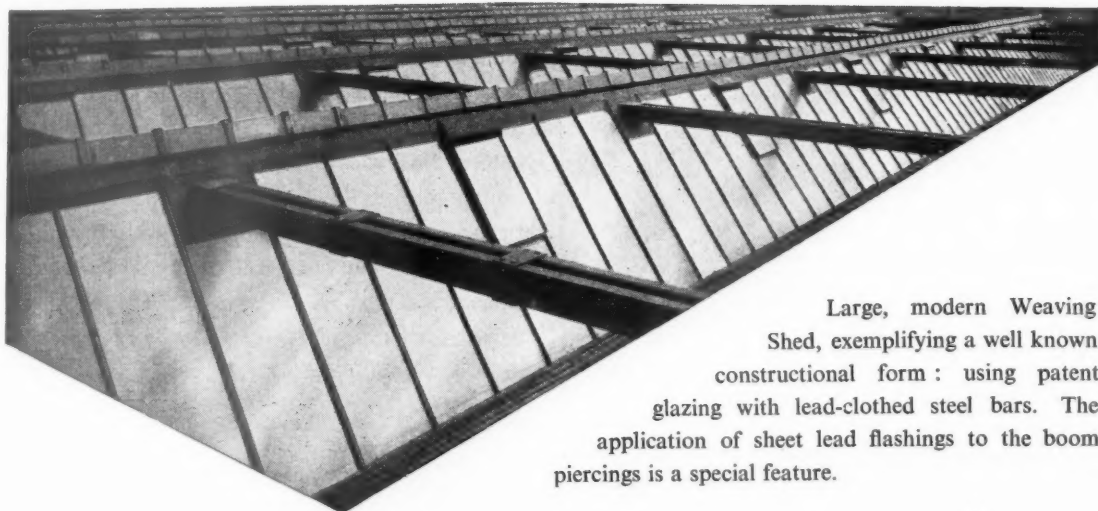
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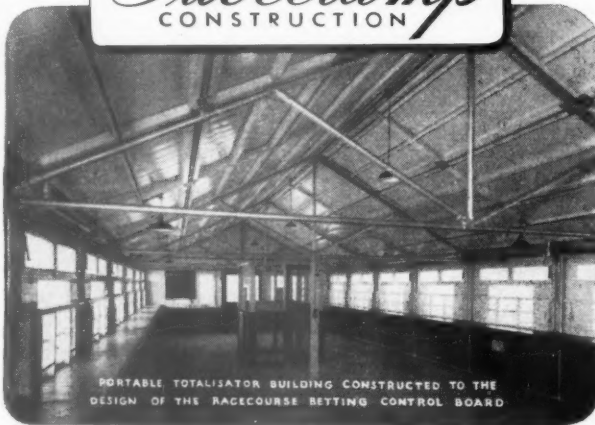
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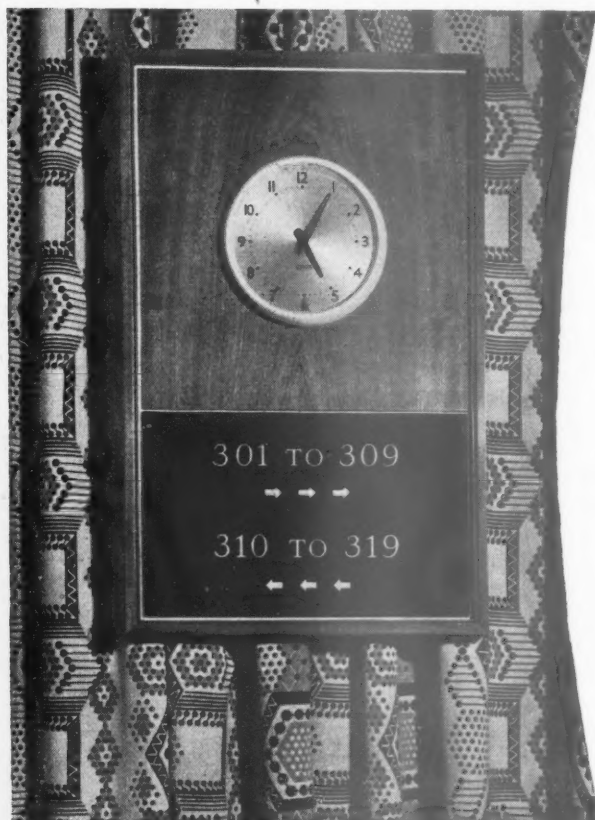
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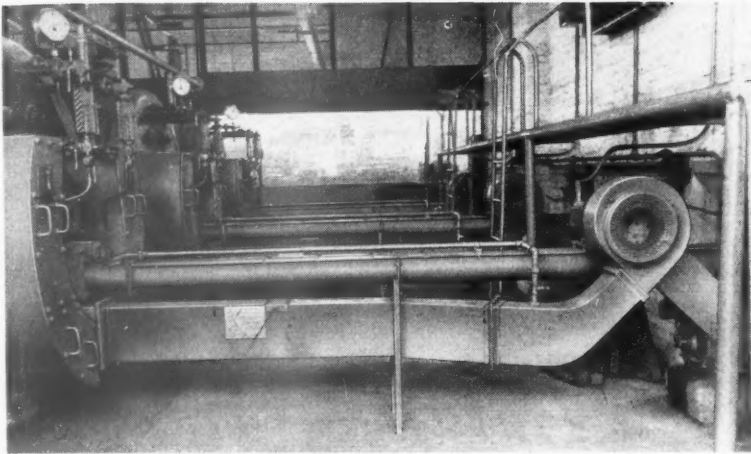
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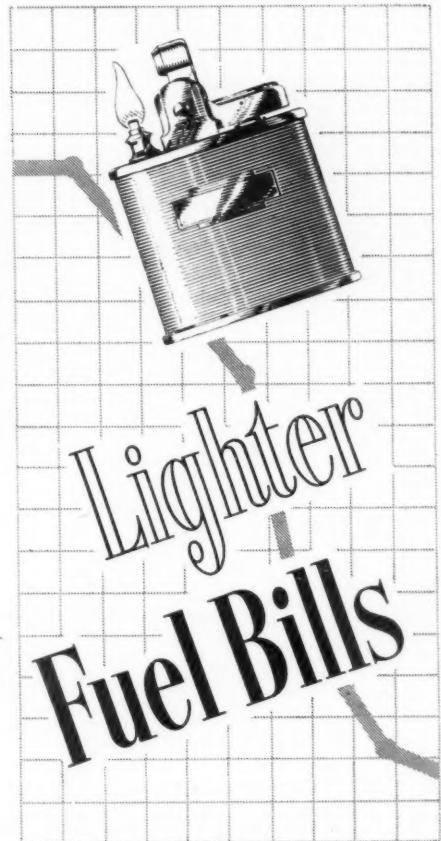


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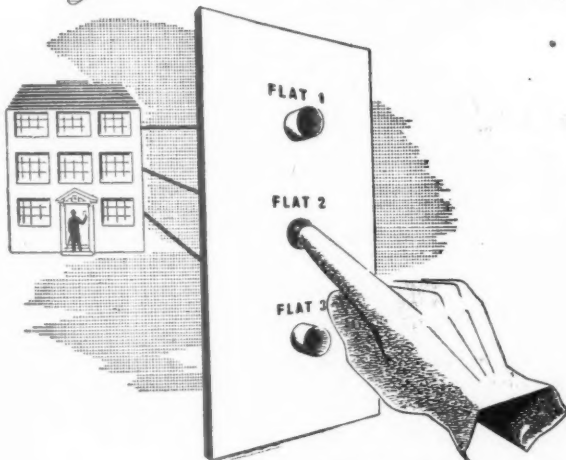
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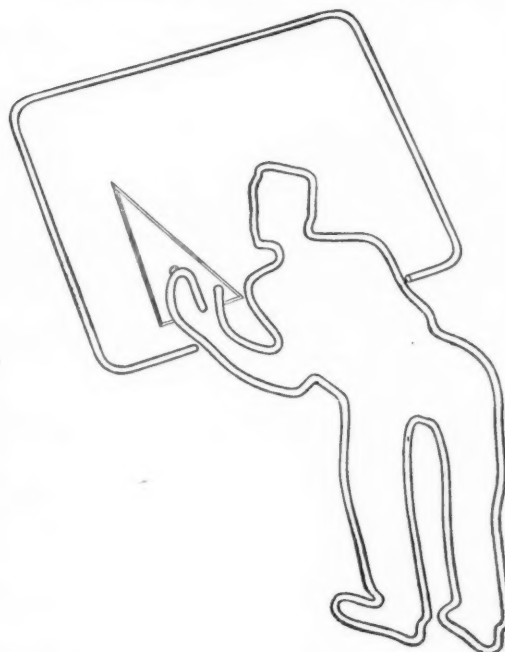
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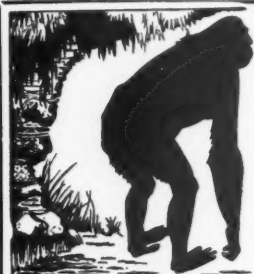
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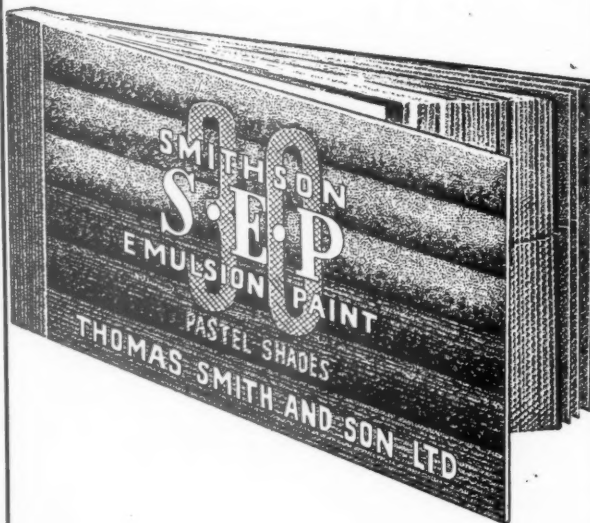
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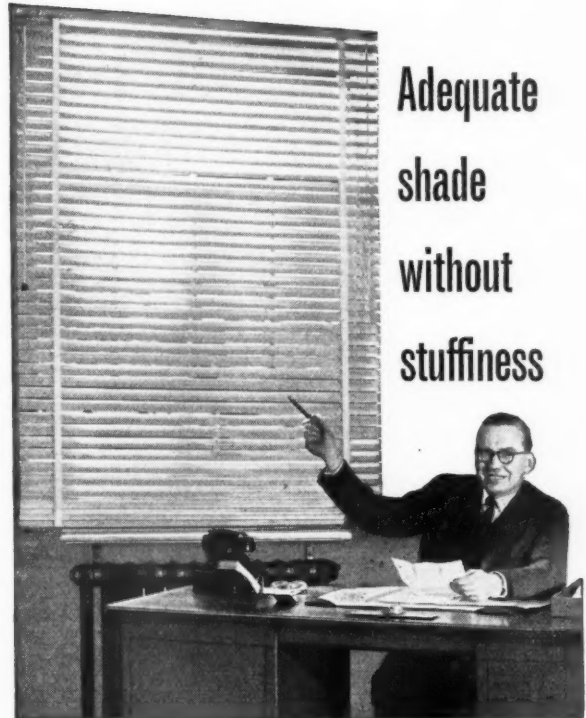
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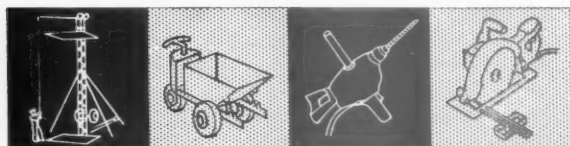
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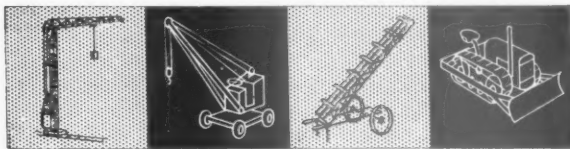
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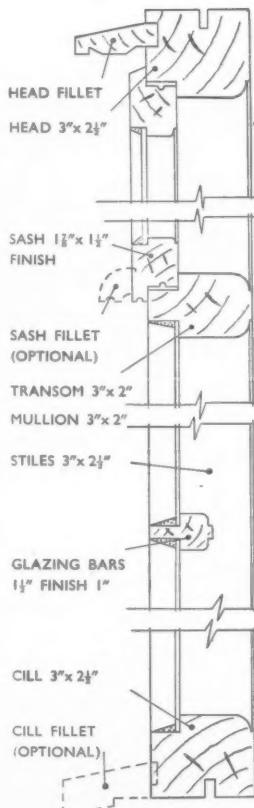
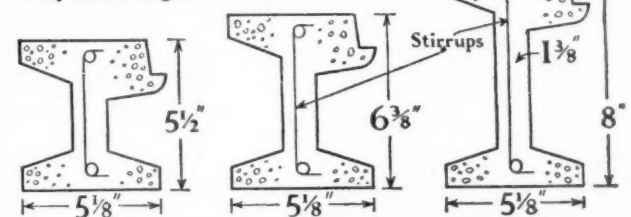
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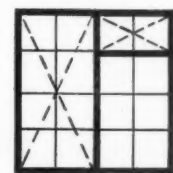
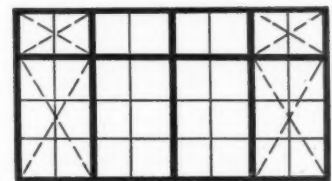
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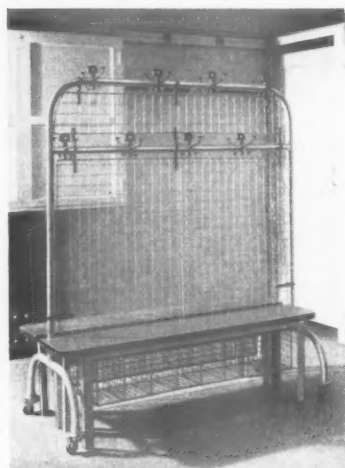
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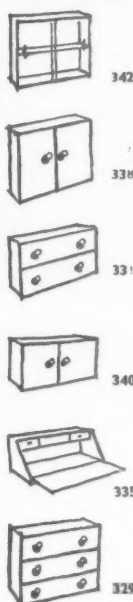
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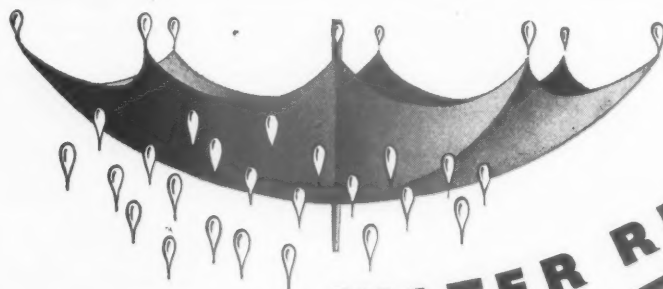
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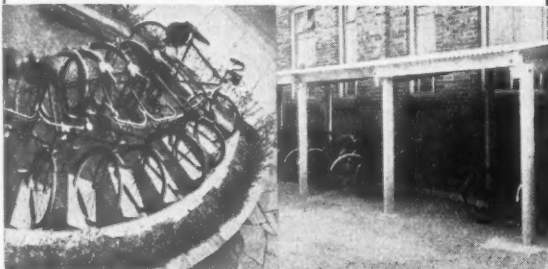


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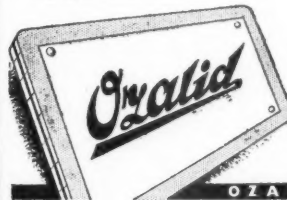
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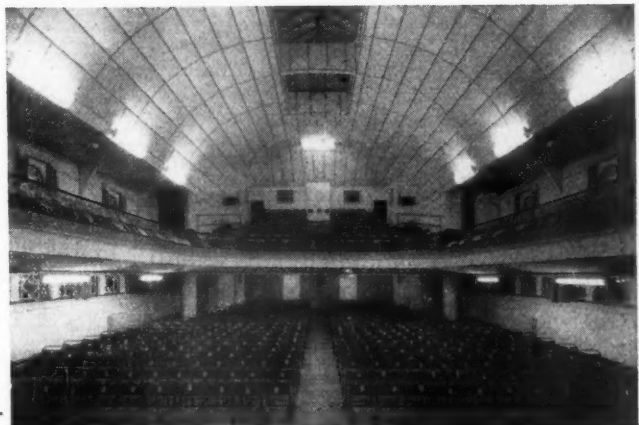
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CLASSIFIED ADVERTISEMENTS

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

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

Public and Official Announcements

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

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

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

Applications are invited for the following appointments in the Department of the Engineer and Surveyor (Mr. J. H. Melville Richards, A.M.I.C.E., M.I.Mun.E.):—

(a) ARCHITECTURAL ASSISTANT, A.P.T., Grades I/III. Salary scale: £465 to £570 per annum, plus London "weighting," according to age and experience.

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

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

It is anticipated that subject to satisfactory service the appointment will be for a minimum period of twelve months.

Forms of application, to be obtained from the undersigned, should be returned not later than Friday, 28th August, 1953.

The Council is unable to assist in obtaining housing accommodation.

Canvassing will be a disqualification.

D. H. PRITCHARD,

Clerk of the Council.

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

DENBIGHSHIRE COUNTY COUNCIL. BIRMINGHAM ARCHITECT'S DEPARTMENT.

The above County Council invites applications for the undermentioned appointment in the County Architect's Department, Wrexham, viz.:—

ONE ASSISTANT QUANTITY SURVEYOR, A.P.T. Division, Grade V. Salary: £595-£645 per annum.

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

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

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

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

W. E. BUFTON,

Clerk of the County Council

County Offices, Ruthin. 9323

WELWYN GARDEN CITY DEVELOPMENT CORPORATION.

APPOINTMENT OF CLERK OF WORKS.
Applications are invited for the temporary appointment of Clerk of Works, at a salary of £14 per week, to supervise the erection of a factory at Welwyn Garden City, costing approximately £250,000.

Applicants must have had previous supervisory experience of large-scale reinforced concrete work, preferably of shell-arch construction, and general supervision of all other trades on substantial contracts, and be competent in setting out and levelling.

The appointment is expected to be of approximately 18 months' duration, but may lead to a permanency subject to an adjustment to the salary.

Assistance with housing accommodation will be given if desired.

Applications, stating age, qualifications, previous experience (including dates and salaries), together with the names of three referees, should reach the undersigned by Wednesday, 26th August, 1953.

J. E. McCOMB,

General Manager.

4, Wigmore South, Welwyn Garden City,
Hertfordshire. 9366

DEPUTY CITY ARCHITECT AND PLANNING OFFICER

required by Coventry Corporation. Salary: £1,320 to £1,600 to £1,420 to £1,470. Applicants must be fully qualified. Application forms and conditions from Town Clerk, Council House, Coventry, to be returned by 16th September. 9291

COUNTY COUNCIL OF THE COUNTY OF STIRLING. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the County Architect's Department.

The scale of salary will be A.P.T., Grade VIII (£765-£840 per annum).

Candidates should be Associate Members of the Royal Institute of British Architects, with experience in new School Buildings or Housing.

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

Applications, together with copies of three recent testimonials, should be forwarded (marked "Architectural Assistant"), to the County Clerk, Viewforth, Stirling, within 14 days of the appearance of this advertisement.

JAMES D. KENNEDY,

County Offices, Viewforth, Stirling. 9299

CITY OF BIRMINGHAM EDUCATION COMMITTEE

APPOINTMENT OF STAFF OF ARCHITECT'S
BRANCH.

Applications are invited for the following appointments in the Architect's Branch of the Birmingham Education Department. (Architect to the Committee: Mr. J. R. Sheridan-Shedden, A.R.I.B.A.)

(i) CHIEF ASSISTANT ARCHITECT (District). Salary: A.P.T. IX (£815 to £940-£935).

The successful candidate will be responsible for the design, working drawings, supervision, as well as administrative work in connection with certain new schools in the major building programme. He must be a chartered and/or registered architect, having good experience in the control of major contracts.

(ii) DRAUGHTSMAN. Salary: Misc., Grade IV (£420-£495).

Applicants should have had good experience as architectural or building draughtsmen, and will be required, under supervision, to prepare working drawings for major contracts.

(iii) TECHNICAL ASSISTANT. Salary: General Division (£180-£450, according to age).

Applicants should be good draughtsmen, with experience of the preparation of drawings in an Architect's office.

(iv) ASSISTANT CLERK OF WORKS (Temporary). Salary: Misc., Grade IV (£420-£495).

Applicants should have had a thorough technical training in building construction and materials, and experience of building contracts.

Application forms, which may be obtained from the undersigned on receipt of a stamped addressed envelope, must be returned not later than the 5th September, 1953.

E. L. RUSSELL,

Chief Education Officer.

General Purposes Branch, Education Office,
Margaret Street, Birmingham, 3. 9338

COUNTY BOROUGH OF BARNSELY. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF TEMPORARY ASSISTANT
ARCHITECT.

Applications are invited from suitably qualified persons for the appointment of Temporary Assistant Architect, in the Borough Engineer's Department, at a salary in accordance with A.P.T., Grade V (£595-£645 per annum).

Applicants should be good draughtsmen and have had experience in the design of Municipal housing schemes and/or public buildings.

The appointment will be subject to (a) the Scheme of Conditions of Service for A.P.T.C. Staff, (b) any other general conditions of employment in operation within the Corporation from time to time; and (c) to one month's notice on either side.

Applications, stating age, present and previous appointments, experience, qualifications, etc., and giving the names of two persons for reference, should reach the Borough Engineer, Town Hall, Barnsley, not later than Tuesday, 1st September, 1953.

Canvassing will disqualify, and applicants should disclose whether to their knowledge they are related to any member or senior officer of the Council.

A. E. GILFILLAN,

Town Clerk.

Town Hall, Barnsley.
August, 1953. 9336

LONDON COUNTY COUNCIL.

ARCHITECTURAL ASSISTANT for land and building surveys, preparation of sketch schemes, working drawings and specifications for buildings and ancillary works in parks. Experience in landscape design and general groundwork desirable.

Salary up to £648 according to experience and qualifications.

Forms from the Chief Officer, Parks Department, Old County Hall, Spring Gardens, S.W.1 (891). 9379

COUNTY BOROUGH OF SWANSEA. BOROUGH ARCHITECT'S DEPARTMENT. APPOINTMENT OF SENIOR ARCHITECT. TURAL ASSISTANT.

Applications are invited from Associates of the R.I.A. for this post. Salary: Grade A.P.T. VII (£710-£785 per annum).

Considerable experience in the design and construction of new school buildings and the organisation and supervision of new building contracts is essential. Candidates must be under 45 years of age, unless in Local Government service. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and may be terminated by one month's notice.

Forms of Application may be obtained from the Borough Architect, Mr. H. T. Wykes, F.R.I.B.A., The Guildhall, Swansea, and are to be returned with the names of two referees to the undersigned not later than Monday, 31st August, 1953.

Canvassing disqualifies.

T. B. BOWEN,

Town Clerk.

The Guildhall, Swansea.
8th August, 1953. 9364

CITY AND COUNTY OF THE CITY OF LINCOLN.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of JUNIOR TECHNICAL ASSISTANT in this Department dealing with housing, schools and general architectural work.

Salary: £160 at 16 years, rising to £450 at 30 years.

The appointment is superannuable, and a medical examination will be required.

Applications, stating age and other relevant information, together with the names of two referees, to be delivered to Mr. R. R. Alexander, A.R.I.B.A., M.T.P.I., City Architect, Stamp End, Lincoln, by 31st August, 1953.

Canvassing disqualifies.

J. HARPER SMITH,

Town Clerk.

Town Clerk's Office, Lincoln.
8th August, 1953. 9348

NATIONAL COAL BOARD, EAST MIDLANDS DIVISION, ARCHITECTS' DEPARTMENT.

NOTTINGHAM, require either a

QUANTITY SURVEYOR, Grade II, £600 by £25 to £650 by £30 to £900. Must be Corporate Member of R.I.C.S., or

QUANTITY SURVEYING ASSISTANT, Grade I, £225 by £25 to £650 exceptionally to £800.

Candidates should have passed the Intermediate R.I.C.S., with not less than 3 years' subsequent practical experience.

The appointment is temporary—minimum period of two years. Grading and salary according to qualifications and experience.

Applications, stating age, education, qualifications, experience, present appointment, and salary, to Secretary, N.C.B., East Midlands Division, Sherwood Lodge, Arnold, Notts., by 21st August. Mark envelope "S.V. 262." Original testimonials should not be sent. 9349

BOROUGH OF HORNSEY. APPOINTMENT OF TEMPORARY ARCHITECT. TURAL ASSISTANT.

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T. V (£625-£675 per annum). Commencing salary according to experience. The inclusive salary is reduced by £10 per annum in the case of persons 25 years of age or under. Candidates should preferably be Associates of the R.I.B.A.

Applications, stating age, present and previous appointments, professional training, qualifications, etc., together with names of three referees, must be delivered to the Borough Engineer and Surveyor, Town Hall, London, N.8, not later than Friday, 11th September, 1953.

Canvassing is prohibited, and candidates must disclose in writing whether, to their knowledge, they are related to any member or officer of the Council.

H. BEDALE,

Town Clerk.

9350

BISHOP AUCKLAND URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, to work under the direction of the Council's Architect, Surveyor and Engineer. The salary for the appointment will be in accordance with Grade V of the A.P.T. Division of the National Scales, viz., £595 to £15 to £15 to £20-£245 per annum. Applicants must be Corporate Members of the Royal Institute of British Architects. The appointment will be subject to the Local Government Superannuation Act, 1937, and also to one month's notice on either side. If required, housing accommodation will be provided within a reasonable time after the appointment is made, but this must be vacated if and when the appointment is terminated.

Applications, stating age, qualifications, experience, and giving the names of two persons to whom reference can be made, must reach the undersigned not later than Saturday, 29th August, 1953.

R. W. BLYTHE,

Clerk of the Council.

Town Hall, Bishop Auckland.
7th August, 1953. 9378

BRECONSHIRE COUNTY COUNCIL.
PLANNING DEPARTMENT.

Applications are invited for the permanent appointment of CHIEF ASSISTANT in the County Planning Department. Candidates should have passed or obtained exemption from the final examination of the Town Planning Institute. A qualification in Architecture will be an advantage. The salary payable will be in accordance with A.P. & T., Grade VI, of the National Joint Council's scale, viz., £670 per annum, rising by annual increments to £735 per annum. The appointment will be subject to (i) the National Scheme of Conditions of Service, (ii) the provisions of the Local Government Superannuation Act, 1937, (iii) the passing satisfactorily of a medical examination, (iv) one month's written notice on either side. Applications, stating age, qualifications and experience, with names and addresses of three referees, must reach the undersigned not later than 19th September, 1953. Canvassing, directly or indirectly, will be definitely disqualify the candidate for the appointment.

C. M. S. WELLS,

Clerk of the County Council.

County Hall, Brecon. 9354

LANCASHIRE COUNTY COUNCIL—
PLANNING DEPARTMENT.

PLANNING ASSISTANT, A.P.T., Grades I-V (£465-£645), required at Manchester. Applicants should be studying for, or possess, a university degree or professional qualification in architecture, surveying or engineering. Salary will be according to qualifications and experience. Applications, giving age, experience, qualifications, present salary, and two referees, to County Planning Officer, East Cliff County Offices, Preston, by 9th September, 1953. 9352

COUNTY COUNCIL OF INVERNESS.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a SENIOR ARCHITECTURAL ASSISTANT, on salary grade A.P.T., VII, (£715-£790), with placing according to experience and qualifications.

Candidates must be Associate Members of the Royal Institute of British Architects, and have had a thorough and varied experience in the design and construction of modern school buildings, as well as the preparation of sketch plans and working drawings for all Local Authority Housing and other building projects. Under the direction of the County Architect, they should be capable of carrying through all projects from the sketch plan to the final measurement stage.

The appointment will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate will be required to pass a medical examination. Housing accommodation will be made available, if required.

Applications, stating age, qualifications, experience, present appointment, and accompanied by the names of three referees, should be submitted to the undersigned within ten days of publication of this advertisement.

R. WALLACE,

County Clerk.

County Buildings, Inverness. 9367

COUNTY BOROUGH OF GLOUCESTER.
DEPUTY CITY ARCHITECT AND ESTATES
MANAGER.

Applications are invited for the above appointment from persons not exceeding 45 years of age, preferably with local government experience, qualified to undertake the duties thereof. Associate membership of R.I.B.A. essential. Salary: £950 by £50 to £1,150, and N.J.C. for L.A. Conditions of Service.

Appointment subject to appropriate superannuation enactments and to termination by one month's notice on either side.

Applications, stating age and dependants, qualifications (with dates), and previous and present appointments and present salary, and the names of two referees, to be sent to Town Clerk, Guildhall, Gloucester, in an endorsed envelope by 10th September, 1953. 9351

CITY OF OXFORD.
CITY ARCHITECT AND PLANNING
OFFICER'S DEPARTMENT.

Applications are invited from fully qualified Architects for the under-mentioned post on the Permanent Staff of the City Architect and Planning Officer's Department.

ARCHITECTURAL ASSISTANT. Grade V, A.P.T. Division (£595×£215 (2)×£220 (1)—£645 per annum).

Applicants must be Registered Architects, capable of preparing sketch designs, full working drawings, specifications, etc., and competent to undertake housing, educational and general architectural work.

Housing accommodation will be provided by the Council if required.

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

Further details of the duties and Application Forms, which must be used in applying for the post, may be obtained from E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect and Planning Officer, Town Hall, Oxford, and these forms must be returned to him not later than the 31st August, 1953.

HARRY PLOWMAN,

Town Clerk.

Town Hall, Oxford. 9372

CITY OF BIRMINGHAM.
DEPUTY CITY ARCHITECT.

Applications are invited from suitably qualified Architects for the appointment of Deputy City Architect, at a salary of £2,056 13s. 4d. per annum, rising by annual increments of £100 to a maximum of £2,556 13s. 4d. per annum.

A memorandum giving details about the scope of the appointment and general conditions may be obtained from the undersigned.

Applications must be received by me not later than 19th September, 1953.

Canvassing disqualifies.

J. F. GREGG,

Town Clerk.

Council House, Birmingham, 1. 9365

POPULAR BOROUGH COUNCIL invite applications from Associates of the Royal Institute of British Architects for established post of PRINCIPAL ASSISTANT ARCHITECT, A.P.T., VIII (£760-£835, plus London "weighting"). Application forms obtainable from Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3. Closing date: 7th September, 1953. 9371

COUNTY COUNCIL OF THE WEST RIDING
OF YORKSHIRE.

OFFICE OF THE COUNTY ARCHITECT.
Applications are invited for the undermentioned architectural appointments in the Development Section of the Department.

SENIOR ASSISTANT ARCHITECTS.

Grade A.P.T. VIII. £760-£835 per annum.
A.P.T. IX. £815-£935 per annum.
A.P.T. X. £895-£1,025 per annum.

Candidates should be first class architectural designers and the successful applicants will be required to work on major building programmes for educational and other public buildings and to develop experimental forms of construction for large scale application.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, as amended by the W.R.C.C. (General Powers) Act, 1948, and the Conditions of Service at present in operation by the County Council. The successful candidates will be required to pass a medical examination.

Applications, on forms obtainable at this office, should be delivered not later than first post on Monday, the 7th September, 1953.

HUBERT BENNETT, F.R.I.B.A.,

County Architect.

"Bishopgarth,"
Westfield Road,
Wakefield. 9383

CITY OF STOKE-ON-TRENT.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments:—
(a) ASSISTANT QUANTITY SURVEYOR. Salary A.P.T. Div. Grade VIII £760-£835.

(b) ASSISTANT QUANTITY SURVEYOR. Salary A.P.T. Div. Grade VII £710-£785.

Note. Suitable Housing Accommodation may be made available to successful candidates.

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

Applications, stating date of birth, particulars of training, experience, etc., with COPIES of two recent testimonials, should be received by J. R. PIGGOTT, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, Staffs., endorsed with the title of the appointment, not later than Friday, 4th September, 1953.

HARRY TAYLOR,

Town Clerk.

9380

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

Applications are invited for the following appointments on the staff of the City Engineer and Surveyor:—

(a) ASSISTANT QUANTITY SURVEYOR, Grade IV (£595, rising to £645 p.a.). Applicants should be experienced in taking off Bills of Quantities for Housing prepared under the Code of Measurement for Small Dwellings, abstracting and billing, site measurement, preparation of interim certificates and final accounts.

(b) QUANTITY SURVEYOR'S CLERK, General Division (£160 p.a. at age 16, rising to £450 at age 30). The successful applicant will be required to assist generally in all branches of Quantity Surveying. Speed and accuracy with figures are essential requirements, and the appointment offers scope to those who wish to take up Quantity Surveying as a profession.

National Scheme of Conditions of Service apply. Applications, stating age, qualifications and experience, accompanied by copies of not more than two recent testimonials, and suitably endorsed, must reach me not later than Monday, 31st August, 1953.

Applicants must disclose whether they are related to any senior official or member of the Authority. Canvassing, either directly or indirectly, will disqualify.

C. PETER CLARKE,

Town Clerk.

Town Hall, Peterborough.

August, 1953. 9373

PEMBROKESHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF ASSISTANT QUANTITY
SURVEYOR.

Applications are invited for the appointment of an Assistant Quantity Surveyor, at the salary in accordance with Grade VI, A.P. & T. Division, £670×£220-£735 p.a.

The appointment will be subject to the National Scheme of Conditions of Service for Local Government Officers, to the Local Government Superannuation Act, 1937, and to the passing of a medical examination, and will be terminable by one month's notice on either side.

Applicants for the post should hold a recognised qualification and be experienced in taking off, under supervision, the measurement of all trades or works in progress, the preparation of interim certificates, and the checking of sub-contractors' accounts.

Forms of application can be obtained from the County Architect, County Offices, Haverfordwest, and completed applications, together with copies of not more than two recent testimonials, should be returned to him not later than Saturday, September 12, 1953.

H. LOUIS UNDERWOOD,

Clerk of the County Council.

County Offices, Haverfordwest. 9365

BOROUGH OF ILFORD. APPOINTMENT OF TEMPORARY CLERK OF WORKS.

Applications are invited for the position of Clerk of Works on the temporary staff of the Borough Engineer's Department.

Applicants for this appointment must have had considerable experience in a similar capacity, have a sound knowledge of building construction and be capable of supervising housing contracts including multi-storey flats.

Salary will be in accordance with Grade A.P.T.II. viz. £495-£540 per annum plus the appropriate London Weighting.

The appointment will be subject to one month's notice on either side, to the provisions of the Local Government Superannuation Acts, to the National Conditions of Service and to medical examination.

Application on forms obtainable from the Town Clerk, Town Hall, Ilford, should be submitted by the 31st August, 1953. 9381

WELSH REGIONAL HOSPITAL BOARD. Applications invited for the post of ASSISTANT QUANTITY SURVEYOR in the Regional Architect's Division.

Salary £440 at age 21 or over x £25 (1) x £20 (8) - £625 per annum.

Point of entry to the Scale depends upon experience. The post is supernumerary. Candidates should have passed the Intermediate Examination of the Royal Institute of Chartered Surveyors, Quantities Sub-Division.

Duties comprise preparation of Bills of Quantities, Checking of Final Accounts, Measurements for Interim Certificates and Variations, under supervision.

Applications in writing stating age, qualifications, experience and giving the names and addresses of three referees should be addressed to the Secretary to the Board, Temple of Peace and Health, Cathays Park, Cardiff, within fourteen days of the appearance of this advertisement. 9385

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

OFFICE OF THE COUNTY ARCHITECT.
Applications are invited for appointments as ASSISTANT ARCHITECTS.

Grade A.P.T. Va. £625-£685 per annum.
A.P.T. VI. £670-£735 per annum.
A.P.T. VII. £710-£785 per annum.

Candidates should be Registered Architects and be Associate Members of the Royal Institute of British Architects.

The appointments will be subject to one month's notice from either side and to the provisions of the Local Government Superannuation Act, 1937, as amended by the W.K.C.C. (General Powers) Act, 1948, and the Conditions of Service at present in operation by the County Council. The successful candidates will be required to pass a medical examination.

Applications, on forms obtainable at this office, should be delivered not later than first post on Monday, the 7th September, 1953.

HUBERT BENNETT, F.R.I.B.A.,
County Architect.

"Bishopgarth,"
Westfield Road,
Wakefield. 9382

BURGH OF CLYDEBANK. ARCHITECTURAL ASSISTANT.

Applications are invited for the post of Architectural Assistant in the Burgh Surveyor's Department. The applicant must be a neat and expeditious draughtsman and capable of undertaking the preparation of Plans, Specifications and Bills of Quantities relevant to building works. The salary applicable to the post, which is a permanent and supernumerary one, is in accordance with Grade IV of the A.P.T. Division of the National Scale of Salaries (£550-£515-£595 per annum); placing on scale according to ability and experience.

Applications, stating age, qualifications, etc., and accompanied by three recent testimonials, to be lodged with the undersigned not later than (date: 14 days after insertion).

E. CORNOCK, Esq., M.I.Struct.E.,
Burgh Surveyor. 9347

Municipal Buildings, Clydebank.

Tenders for Contracts

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

HUYTON-WITH-ROBY URBAN DISTRICT COUNCIL.
PROPOSED 34 HOUSES, ST. JOHN'S ROAD EAST SITE-5th PORTION.

Tenders are invited for the erection of 34 South Aspect type houses. Relevant documents can be obtained from the Chief Architectural Assistant, Council Offices, Derby Road, Huyton, on deposit of £2 2s., which will be returned on the submission of a bona fide tender. Applicable drawings can be inspected during normal office hours at the Architect's Department, Huyton Council Offices.

Forms of tender, which are to be returned in the envelope provided, must reach the undersigned not later than first post on Friday, 28th August, 1953.

H. E. H. LAWTON,
Clerk to the Council.
Council Offices, Huyton. 9362
August, 1953.

Architectural Appointments Vacant

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

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

ARCHITECTURAL ASSISTANT required 1st November-Country varied practice in Bedfordshire. Intermediate standard. Reply in writing, state age, experience, salary required. Box 9384.

ASSISTANT required for small London office for industrial and commercial work. Must be good quick draughtsman with previous office experience. Salary £500 p.a. Write stating full details. Box 9386.

ARCHITECTURAL ASSISTANT required at once in Architect's office in South Kensington. Intermediate standard and with general experience. Good draughtsman essential. Five-day week. Salary according to experience. Apply Box 9388.

IMPORTANT Public Company with Branches in various parts of the country requires fully qualified Architect. Applicants must be capable of accepting all responsibility for the preparation and execution of plans for extensions, electrical and heating installations and be able to supervise contractors and maintenance staff in alterations, decorating, etc. Appointment offers splendid scope and attractive remuneration for young professional man who is conscientious and industrious and possesses practical knowledge of estimating and property valuation. State all details of previous appointments, age and salary desired. Box 9389.

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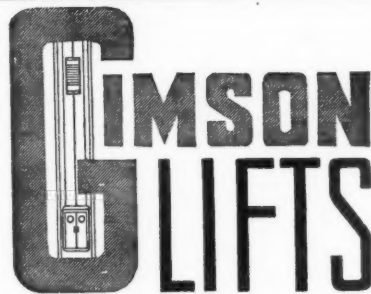
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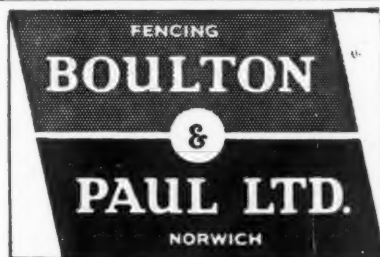


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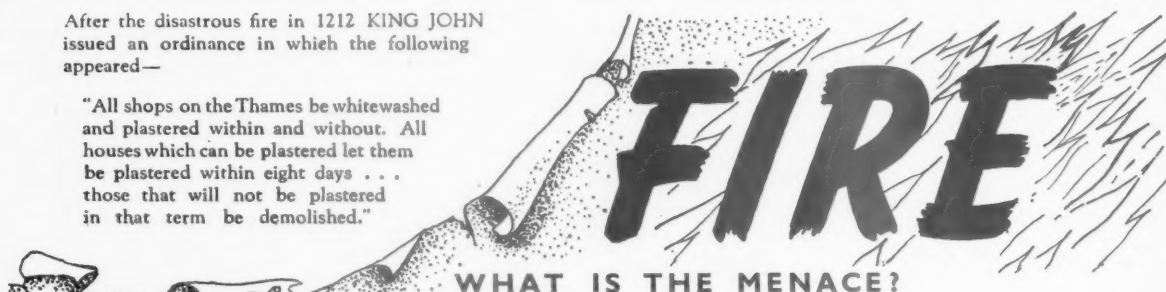
Alphabetical Index to Advertisers

Adamite Co., Ltd., The	PAGE lxi	Expanded Metal Co., Ltd., The	PAGE lxxxii	Mumford, Bailey & Preston, Ltd.	PAGE lxxxii
Allday, F. G., & Co., Ltd.	xxxix	Farmiloe, T. & W., Ltd.	xx	Myton, Ltd.	xii
Anderson, D., & Son, Ltd.	lxxvi	Ferodo, Ltd.	—	National Federation of Clay Industries	xl
Architectural Press Ltd., The	lxxii, lxxiv	Finlock Gutters, Ltd.	lviii	Ozalid Co., Ltd.	lxxvii
Armstrong Cork Co., Ltd.	—	Fordham Pressings, Ltd.	—	Parker, Winder & Achurch, Ltd.	lxxvi
Ashwell & Nesbit, Ltd.	lxix	Foyles, Ltd.	lxxxii	Permanite, Ltd.	xlii
Aygee, Ltd.	xxvii	Gas Council, The	li	Philips Electrical, Ltd.	lxxxv
Banister, Walton & Co., Ltd.	xl	Gent & Co., Ltd.	lxxviii	Philp Products, Ltd.	lxxxii
Bayliss, Jones & Bayliss, Ltd.	xxi	Gimson & Co. (Leicester), Ltd.	lxxxii	Pickering, Ltd.	lxxxii
Beckett, Laycock & Watkinson, Ltd.	lxxxiii	Greenwood's & Airvac Ventilating Co.,	—	Poles, Ltd.	xliii
Berry, Z. D., & Sons, Ltd.	—	Ltd.	iii	Radiation Group Sales, Ltd.	vi
Bigwood Bros. (Birmingham), Ltd.	lxxviii	Gyproc Products, Ltd.	vii	Range Boilers, Ltd.	xxviii
Bigwood, Josh., & Son, Ltd.	lv	Halden, J., & Co., Ltd.	lxxxiii	Rawlings Brothers, Ltd.	lxix
Bitulac, Ltd.	lxxi	Hall, John, & Sons (Bristol & London),	—	Rawly Brothers, Ltd.	lxxv
Boulton & Paul, Ltd.	lxxxii	Ltd.	lxii	Remploy, Ltd.	lxxxv
Bradford, F., & Co., Ltd.	lxxxiv	Harvey, G. A., & Co. (London), Ltd.	iii	Riley Stoker Co., Ltd.	xvii
Briggs, Wm., & Sons, Ltd.	—	Hickson's Timber Impregnation Co.	—	Robertson Thain, Ltd.	xxx
British Plumber, Ltd.	xvi	(G.B.), Ltd.	lxvi	Rom River Co., The	lxxi
Broad & Co., Ltd.	ii, lxx	Hills (West Bromwich), Ltd.	lxvii	Salter, T. E., Ltd.	lxxiv
Building Plant Exhibition	lxxiv	Hollway, W. F., & Brother, Ltd.	lxviii	Sign Service	lxxxii
Cafferata & Co., Ltd.	lxxxii	Holoplast, Ltd.	lxvi	Siluxine Paints, Ltd.	xiv
Carlisle Plaster & Cement Co.	—	Hope, Henry, & Sons, Ltd.	lxv	Smith & Pearson, Ltd.	lxv
Celotex, Ltd.	lxxxvii	Horseley Bridge & Thos. Piggett, Ltd.	lxv	Smith, Thos., & Son, Ltd.	lxxxii
Cement Marketing Co., Ltd., The	lxxxiii	Insulite Products Corporation, Ltd.	ix	Snowcem	lxxxii
Chance Bros., Ltd.	—	International Correspondence Schools	lxxxii	Sommerfeld's, Ltd.	lxxxii
Clark, James, & Eaton, Ltd.	l	International Paints, Ltd.	xxii	South Durham Iron & Steel Co., Ltd.	xxiv
Clarke Ellard Eng. Co., Ltd.	xxv	Johnston Bros. (Contractors), Ltd.	lxxxiii	Standard Patent Glazing Co., Ltd., The	lxv
Colt, W. H. (London), Ltd.	lxiv	Kenyon, Wm., & Sons, Ltd.	—	Steel Radiators, Ltd.	lxx
Compactom, Ltd.	—	Laing, John, & Son, Ltd.	—	Steelcon (Industrial Floors), Ltd.	lxxvii
Concrete, Ltd.	lv	Lead Industries Development Council ...	—	Storry Smithson & Co., Ltd.	x
Copperad, Ltd.	lxlii	Leaderflush, Ltd.	lxlii	Sundeala Board Co., Ltd.	—
Crane, Ltd.	lxxxv	Leatherfor, Ltd.	—	Tarmac, Ltd.	lxxv
Crefield, C. V., & Co., Ltd.	viii	London Brick Co., Ltd., The	xxlii	Thorton, A. G., Ltd.	lxxvii
Danaura, Ltd.	lxxiii	Lovell & Hanson, Ltd.	lxii	Timber Development Association, Ltd.	xviii
Davidson, C., & Sons, Ltd.	xv	Mallinson, Wm., & Sons, Ltd.	lix	Townson, Wm., & Sons, Ltd.	xix
Destrol Sales, Ltd.	lxxiii	Mander Brothers, Ltd.	lvii	Tretol, Ltd.	lxv
Dorman, Long & Co., Ltd.	lii	Marley Tile Co., Ltd., The	lxxxv	Trussed Concrete Steel Co., Ltd., The ...	xii
Doulton & Co., Ltd.	lxvi	Meredew, Ltd.	lxxxvi	Uniseco, Ltd.	xlvi
Dunlop Special Products, Ltd.	v	Midland Woodworking Co., Ltd.	lxxxv	Ward, Thos. W., Ltd.	xxvi
Econa Modern Products, Ltd.	lix	Mills Scaffold Co., Ltd.	lxxxiv	Wardle Eng. Co., Ltd.	ii
Edison Swan Electric Co., Ltd.	lxiv	Moler Products, Ltd.	lxxxvi	Wheatly & Co., Ltd.	lxxxvii
Electrolux, Ltd.	ix	Morris, M. A., Ltd.	lvi	Wheeler, F. H., & Co., Ltd.	lxxvii
Ellis School of Architecture, The	lxxxii	Moulded Components (Jablo), Ltd.	lxxxviii	Williamson, Jas., & Sons, Ltd.	xlxi
Empire Stone Co., Ltd.	xlii				
Evode, Ltd.	—				

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous Property, Land and Sales, lxxviii, lxxix, lxxx, lxxxii.

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PAGE
lxxxii
xli
xli
lxxxvii
lxxxvi
xlii
xxxvii
xxxii
lxxxii
xliii
vi
xxviii
lxxx
lxxvii
lxxv
xxv
xxi
lxxi
lxxiv
lxxxii
xiv
lxiv
lxxiii
xxxiii
lxxxii
xxiv
lxv
lxx
lxxxvii
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xviii
xix
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xlvi
xxvi
ii
xxxvii
lxxii
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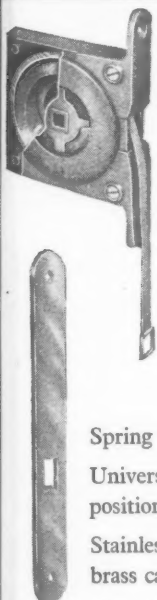
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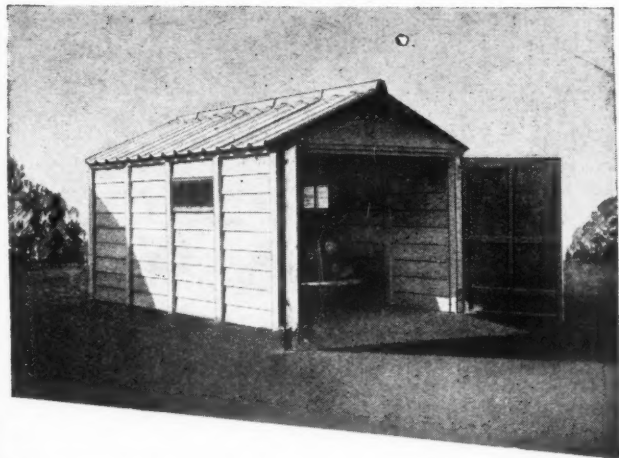
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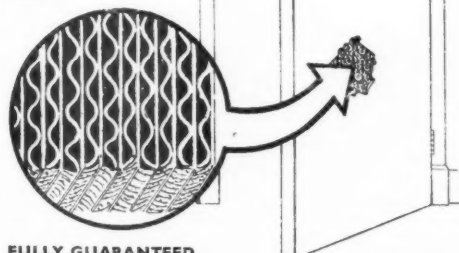
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