

The Architects' JOURNAL for March 5, 1953

THE ARCHITECTS' JOURNAL



★ 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.

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

No. 3027]

[Vol. 117

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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
AScW	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. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Fremantle 8494
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. 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 Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub-Contractors, 5, Arundel Street, Strand.	Temple Bar 6633
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
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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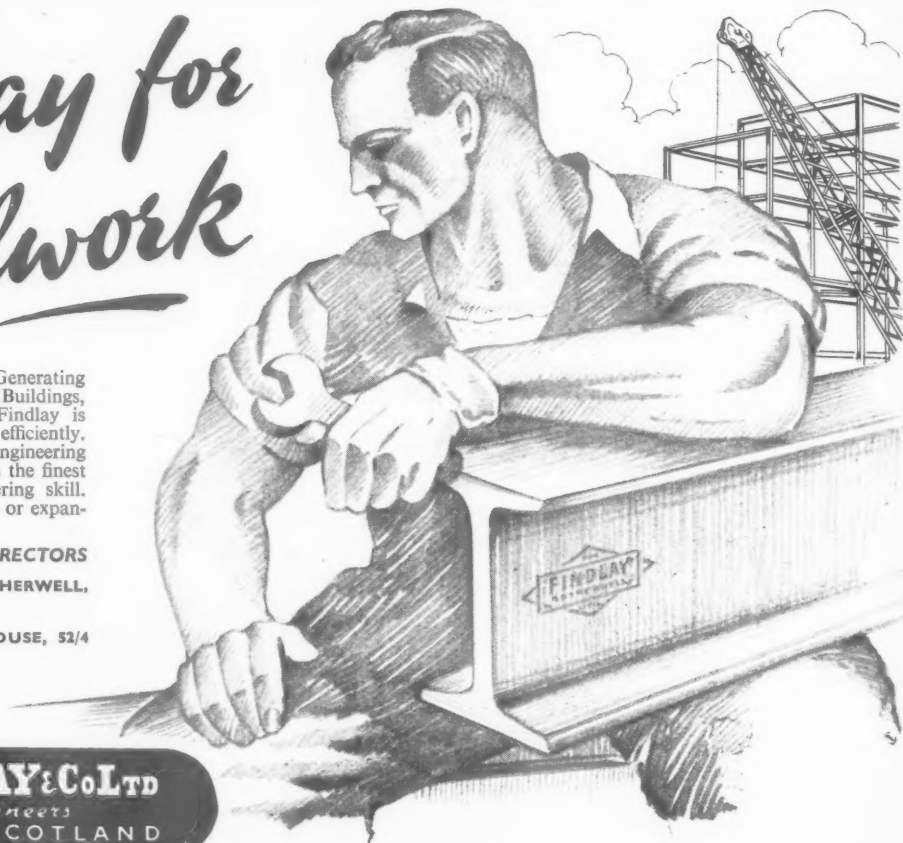
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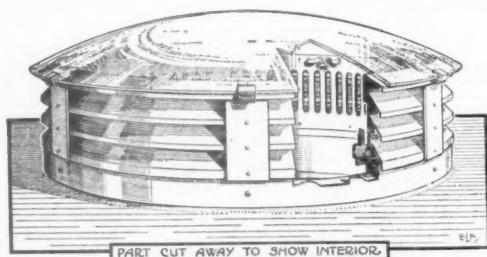
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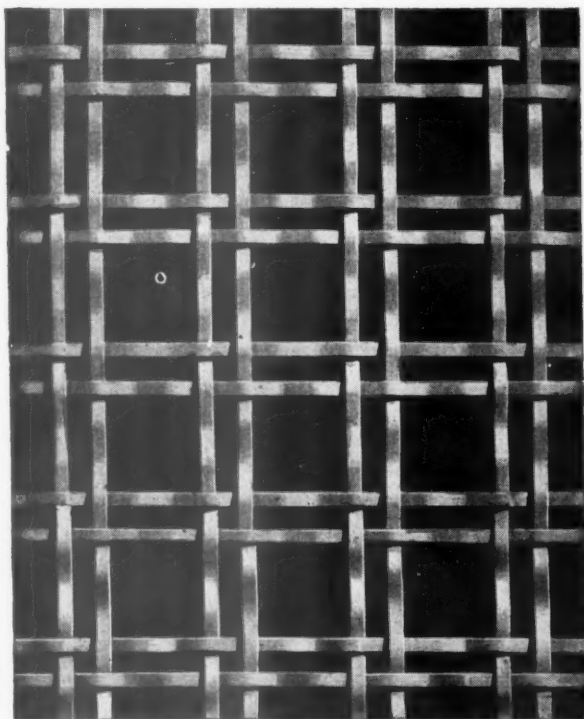
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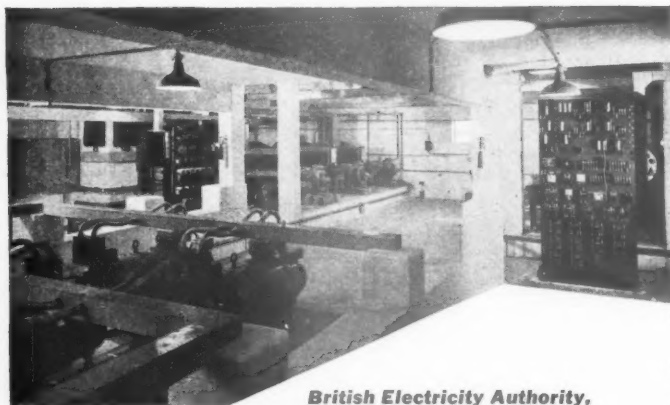


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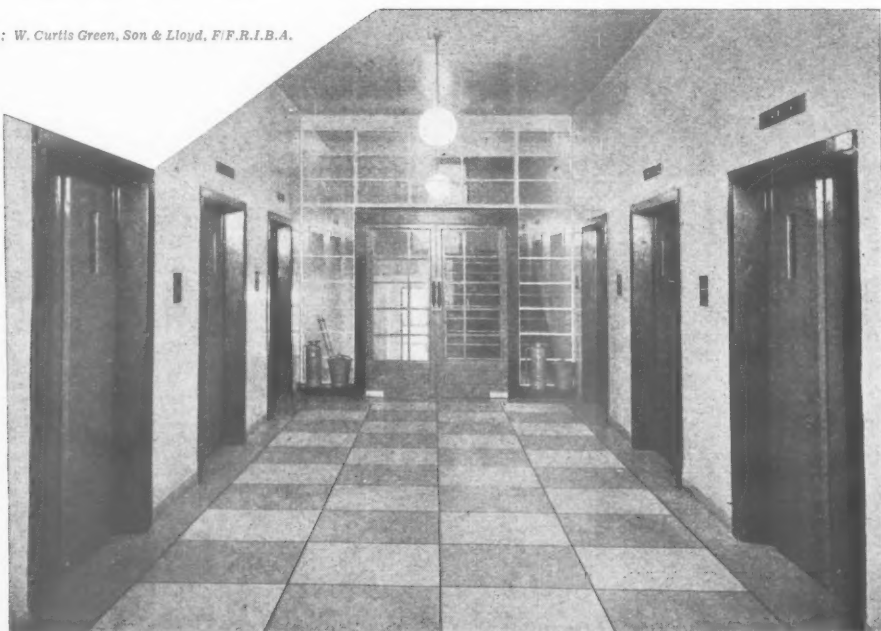
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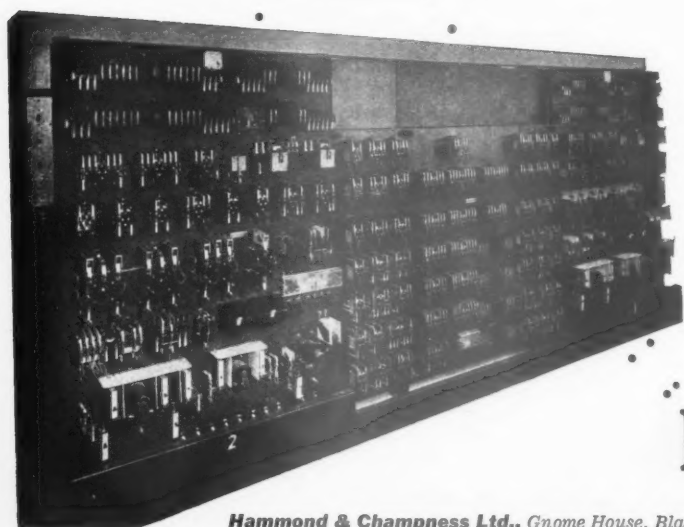
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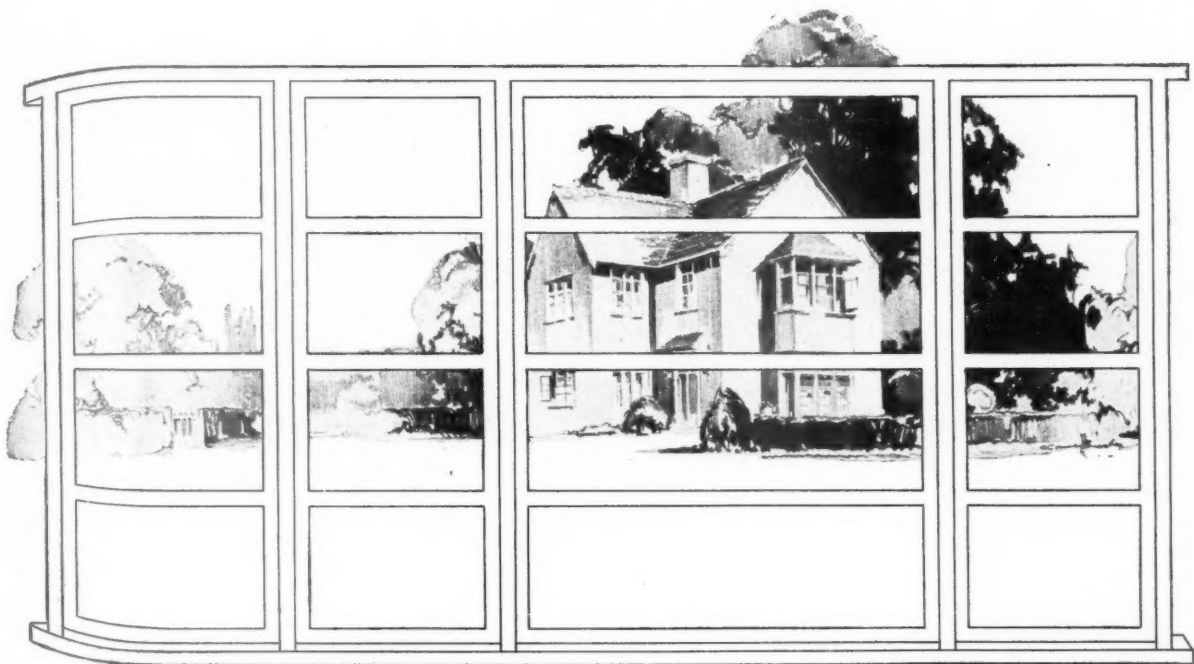


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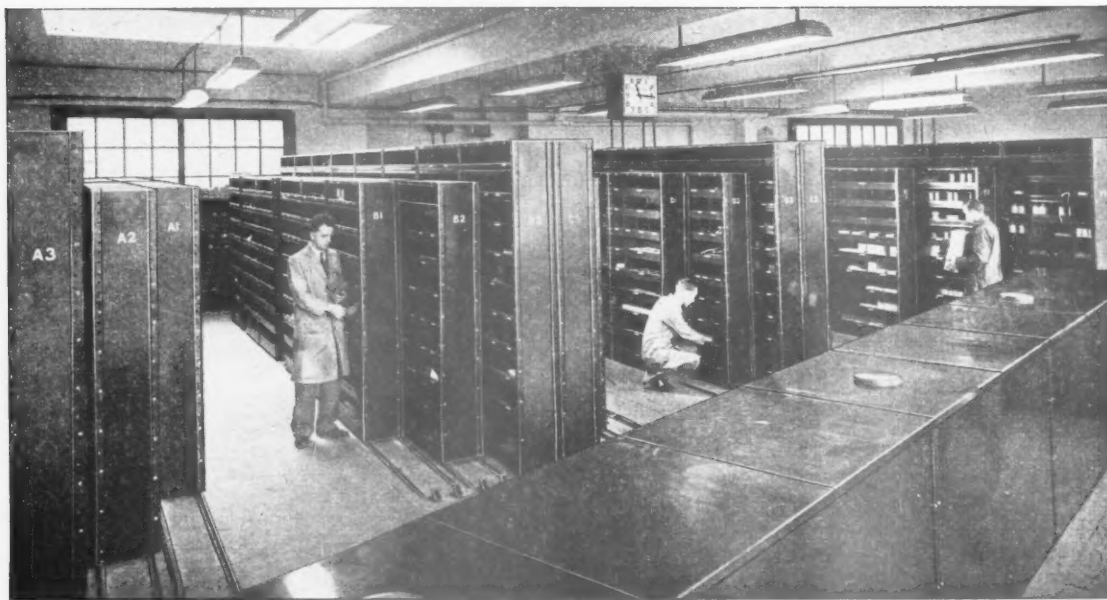
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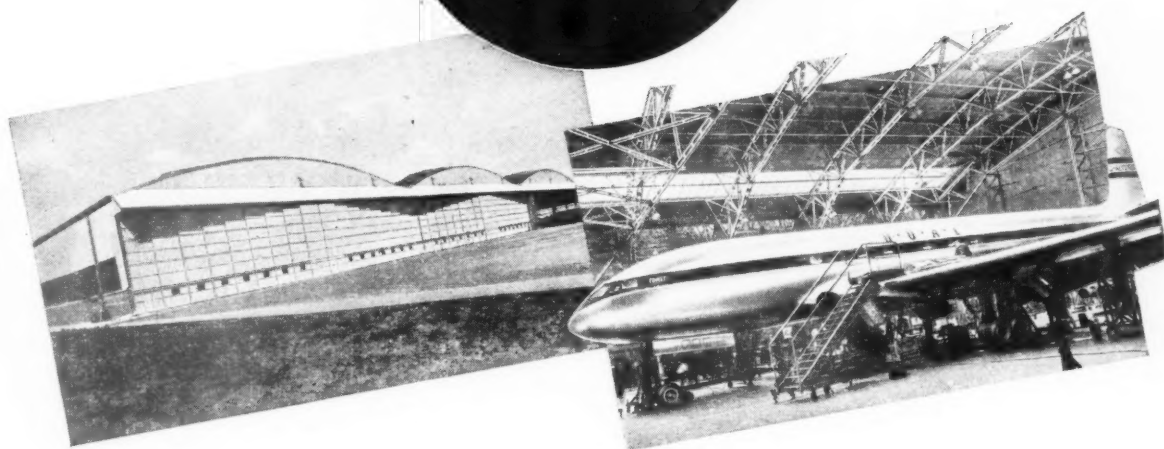
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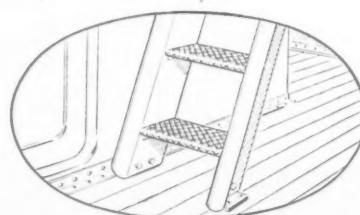
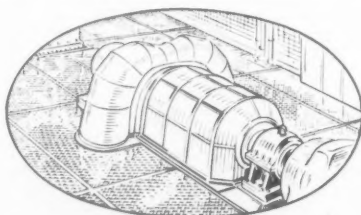
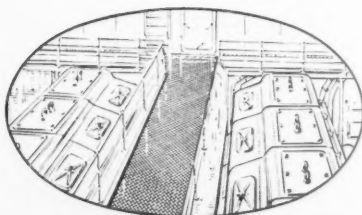


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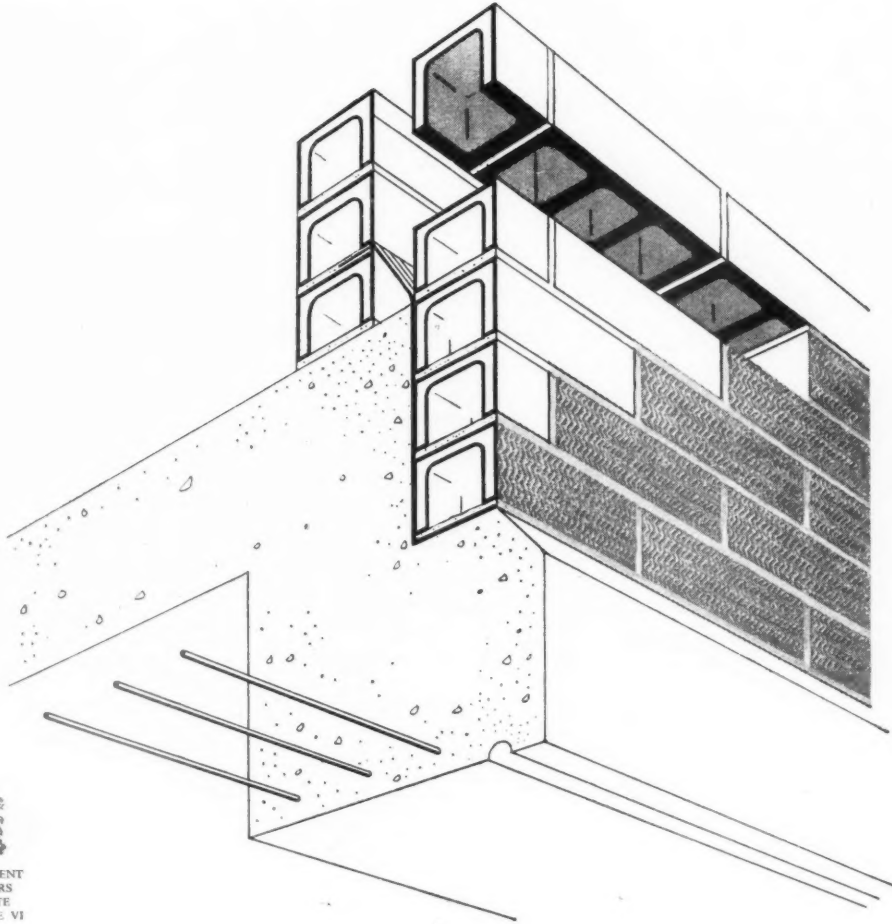
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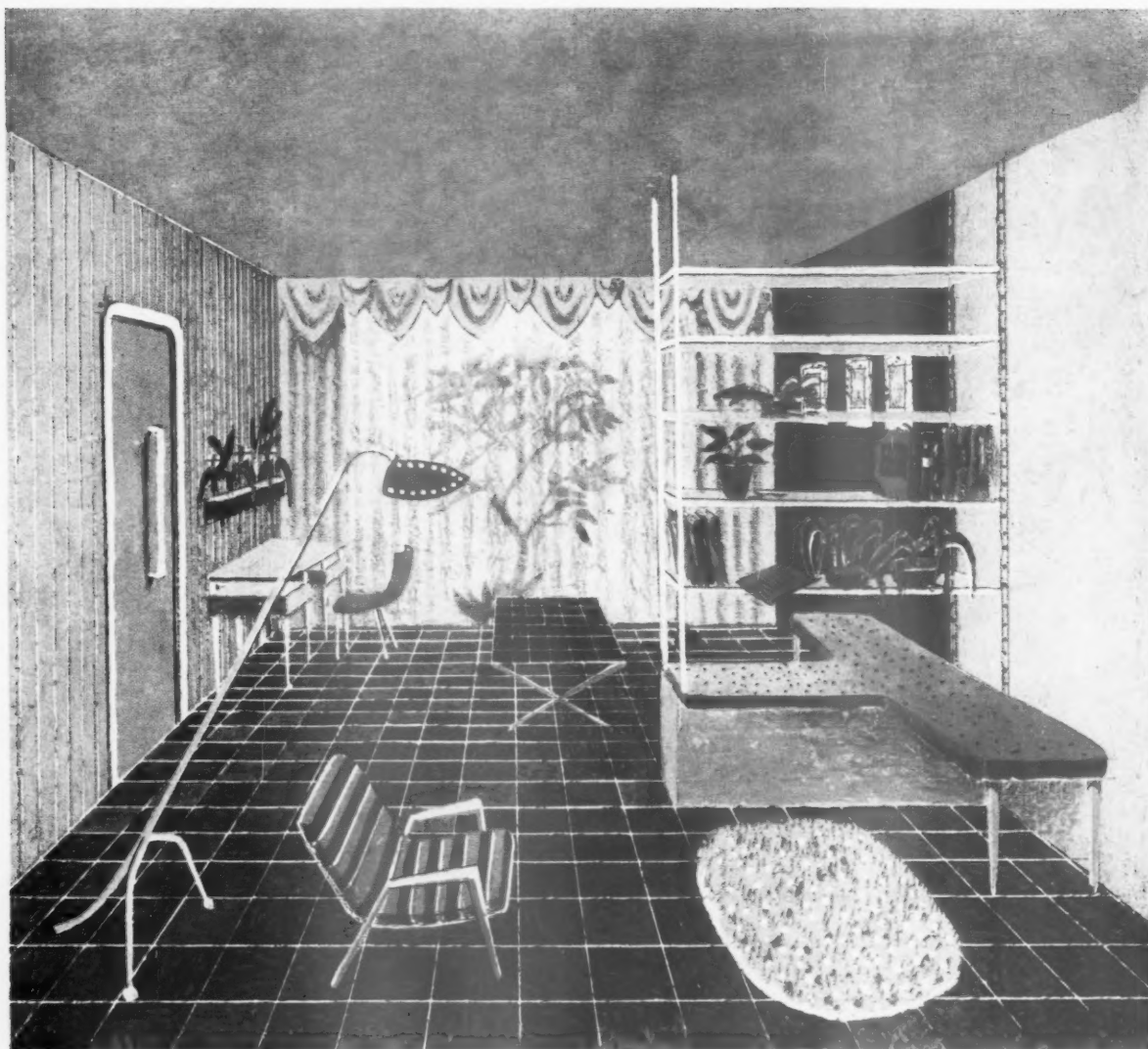


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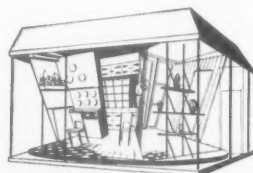
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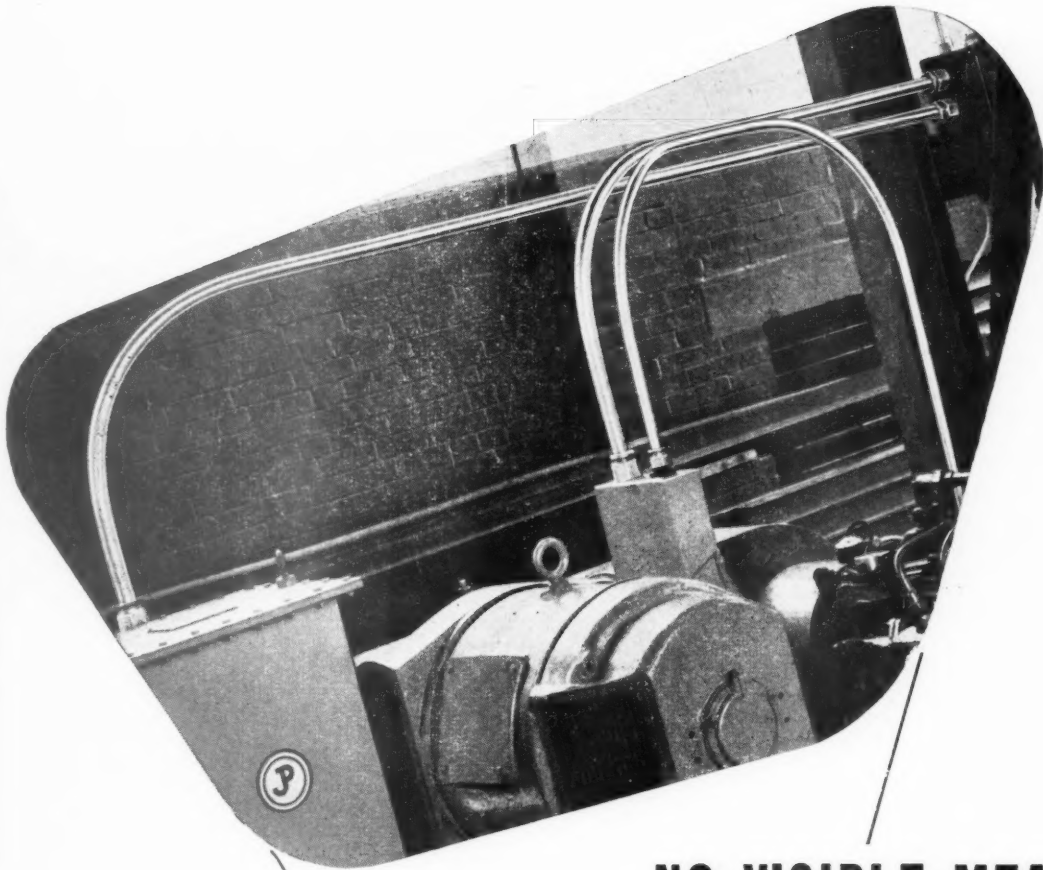


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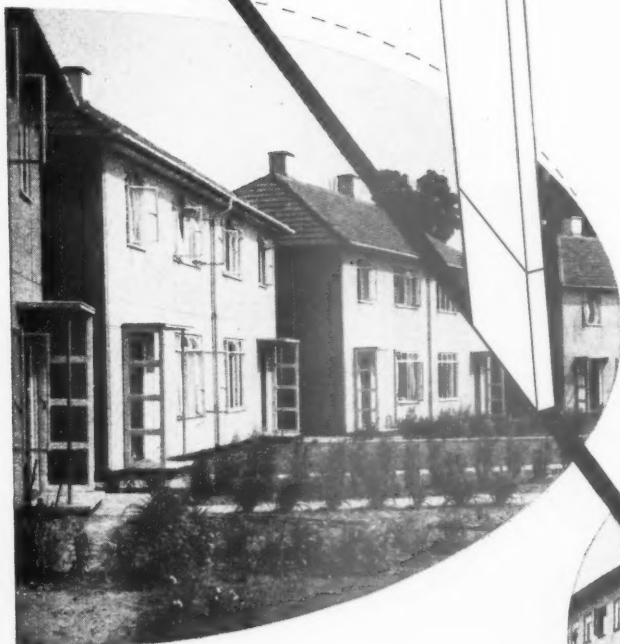
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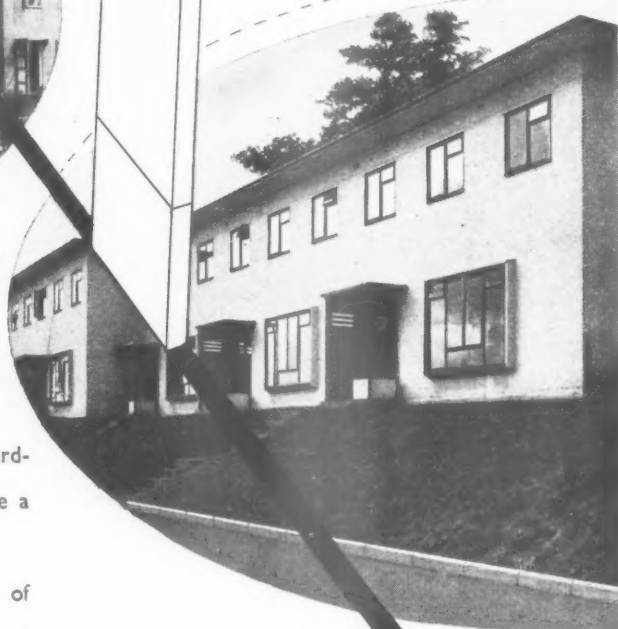
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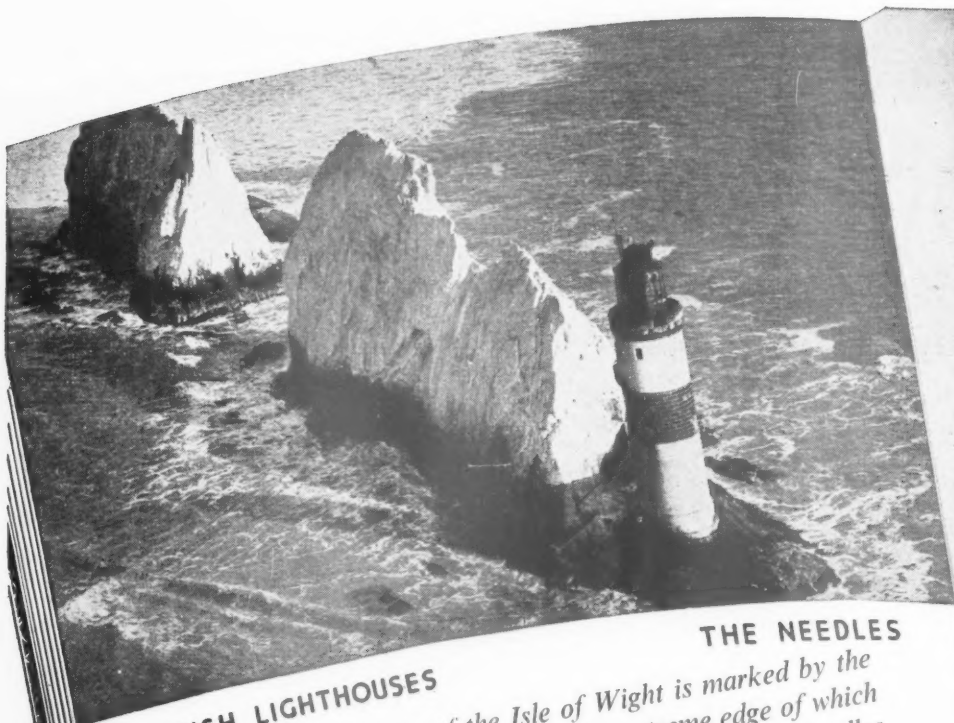
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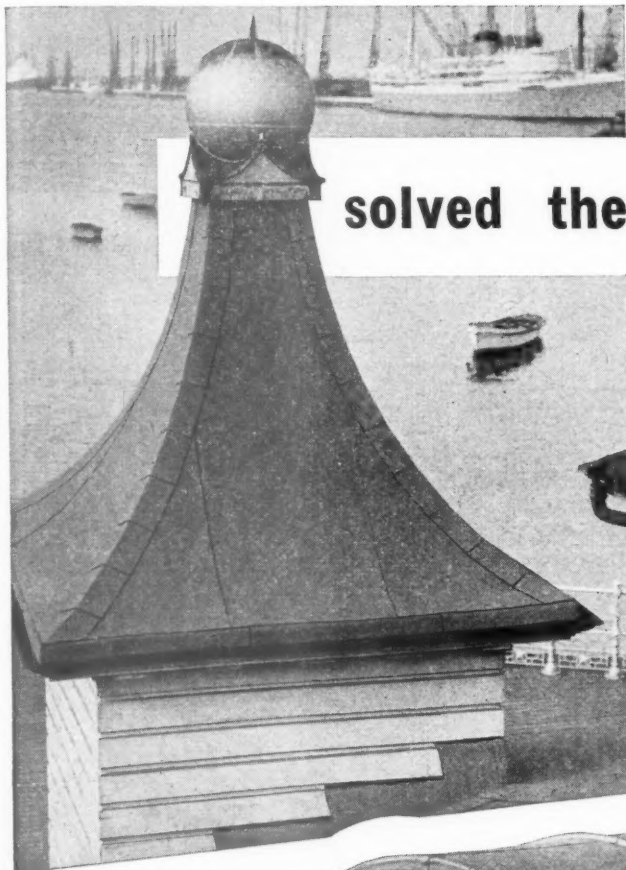
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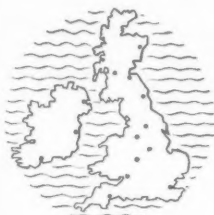
*Royal Pier Pavilion, Southampton.
Engineer, Southampton Harbour
Board : J. P. M. Pannell, M.B.E.,
M.I.C.E., M.I.Mech.E.*

*Municipal Offices,
Bromley, Kent.
Borough Engineer :
H. Cliffe, B.Sc.(Eng.)*



R.118

The Ruberoid Contract Department

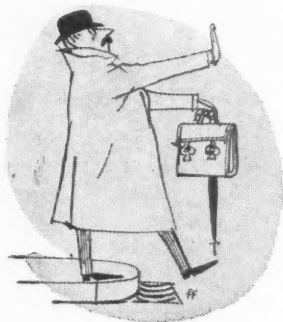


places its wide and long experience with all types of roofing problems freely at the disposal of architects; consultations at the design stage can, and often do, result in structural economy. The service operates from the following centres, conveniently situated throughout the British Isles:

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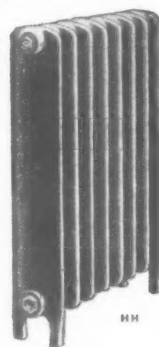


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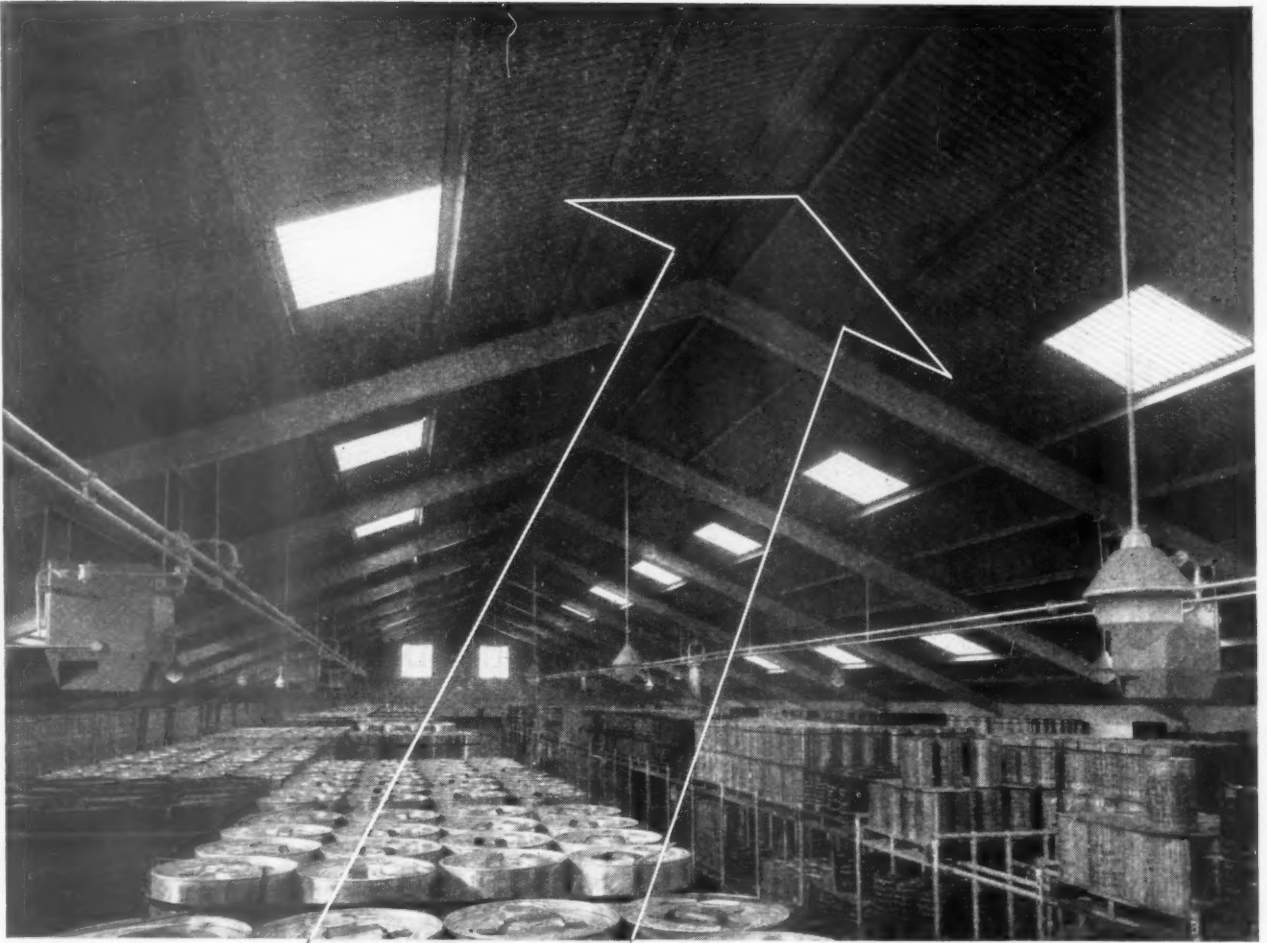
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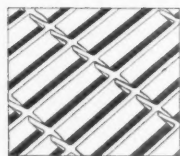
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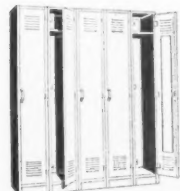
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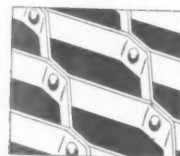
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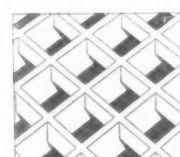
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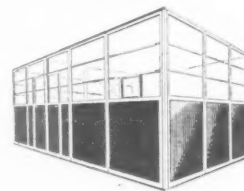


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Extract from "The Sunday Times"

'Cut Building Costs' Appeal by Mr. Eccles

MR. DAVID ECCLES, Minister of Works, declaring that the time has come for the building industry to take more active steps to reduce costs and review contracting arrangements, has appealed to the Royal Institute of British Architects to provide a lead in these matters.

In a letter to the Institute he pointed out that, though there had been a marked improvement in the output of building in the past 12 months, there was widespread concern about the level of building costs. There had also been criticism of the contracting methods employed by the industry and apprehension about the existence of restrictive practices.

"These circumstances," said the Minister, "constitute at once a challenge and an opportunity. With the assurance of plenty of work to come, there is every reason for developing contracting arrangements which on the one hand will encourage the proper pre-

Today's prime need

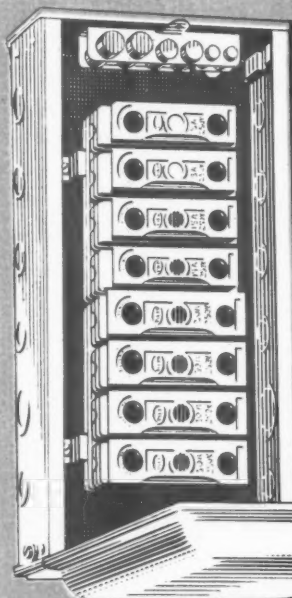
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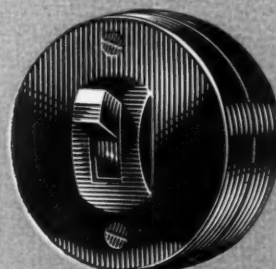
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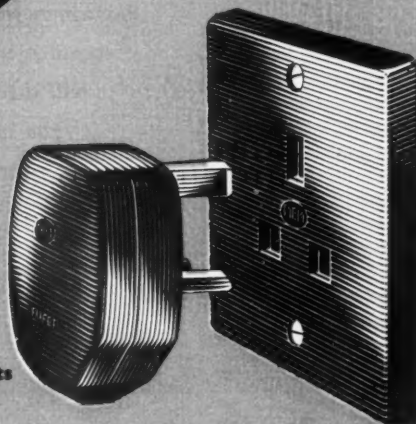
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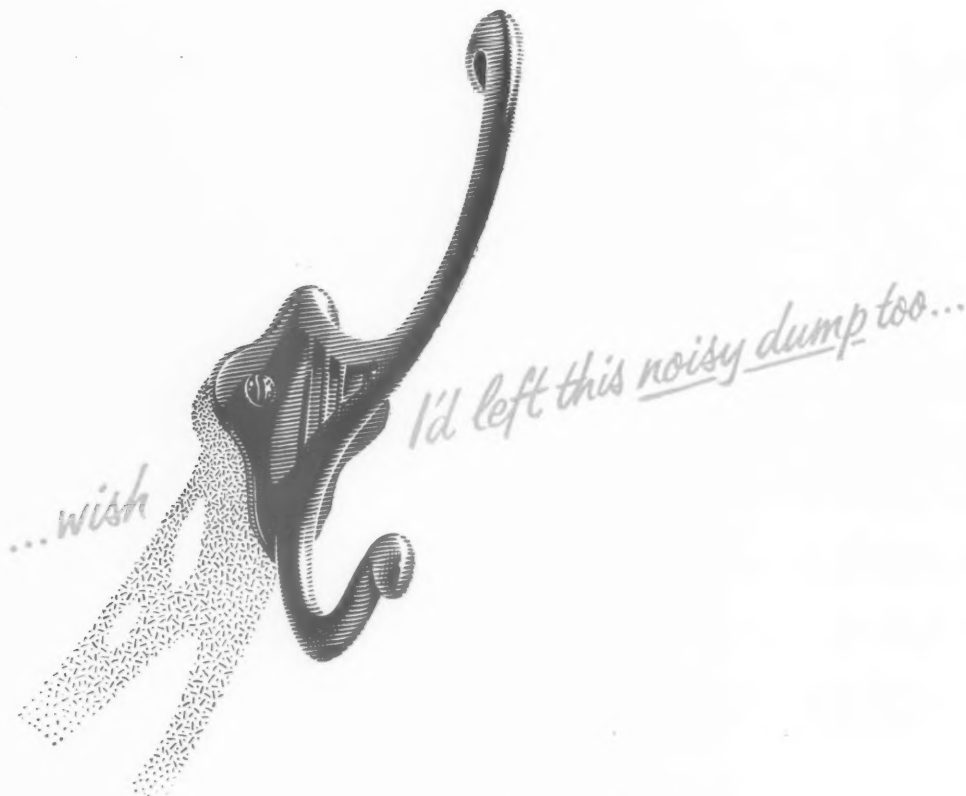
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"I assure you of the warm encouragement and support of Her Majesty's Government in the steps you are taking. You may also be assured that my own good offices and those of the Ministry under my control will be at your service."

Mr. Howard Robertson, President of the Royal Institute of British Architects, replied: "We shall be very happy to take the lead in this important matter."



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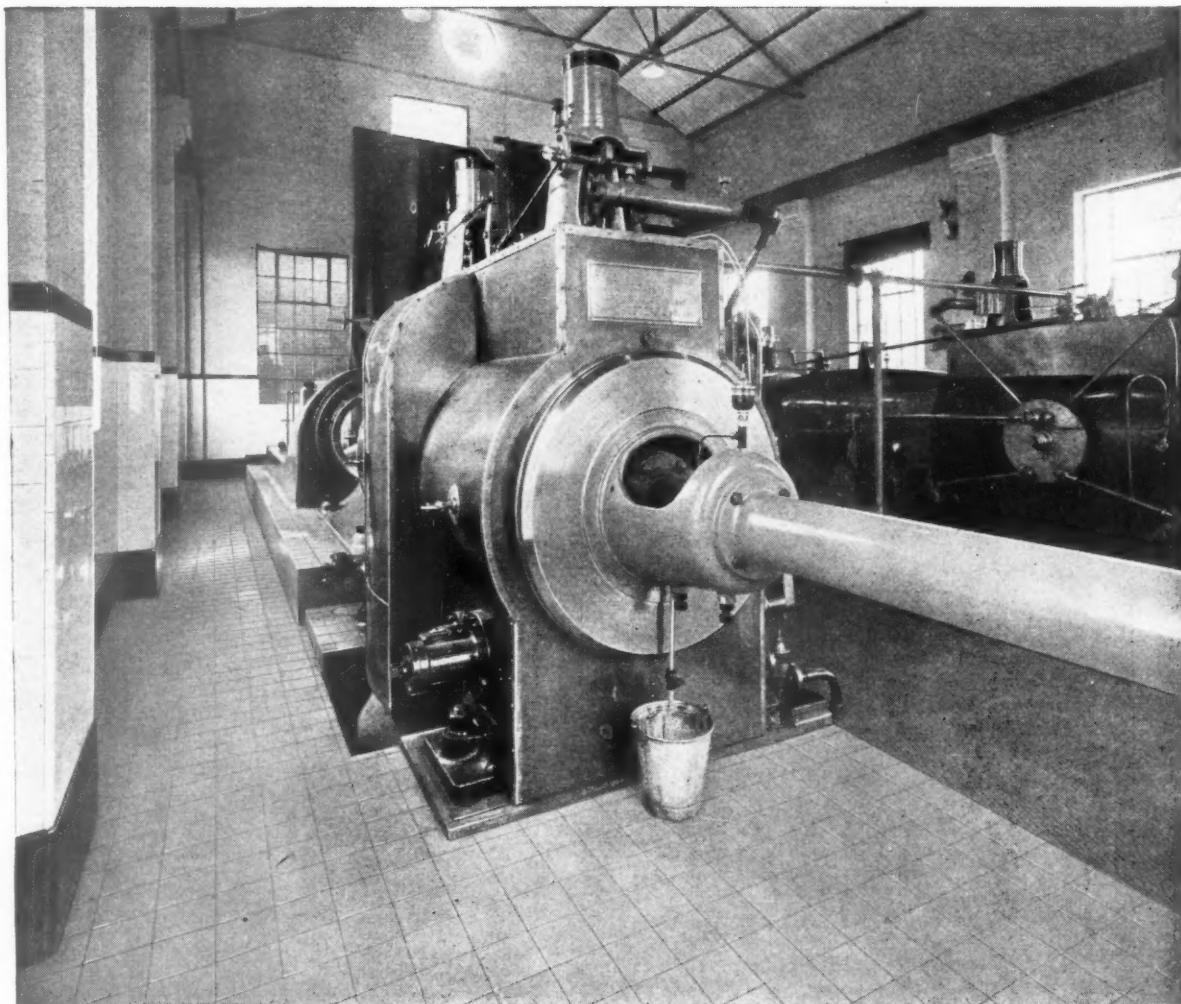
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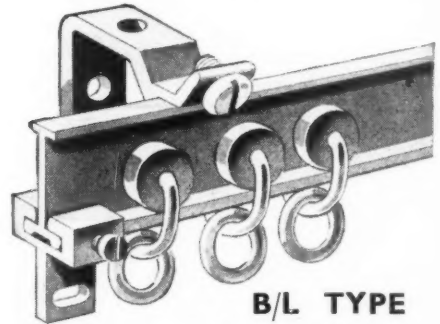
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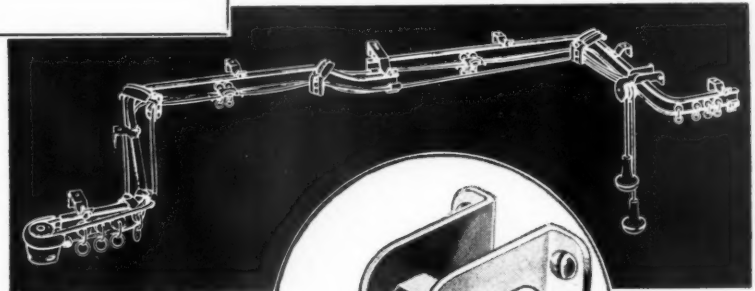


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This is a strong corded or non-corded 'Rufflette' runway for all general purposes. Also available in plastic.

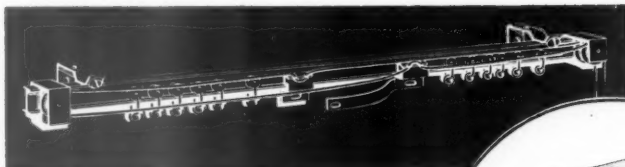
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'Rufflette' Brand Curtain Runways have been developed for every curtain suspension need. Shown on right is the new cord-controlled 'Rufflette' runway for fitting to bay windows.



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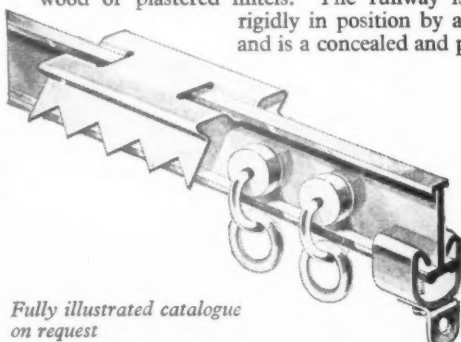
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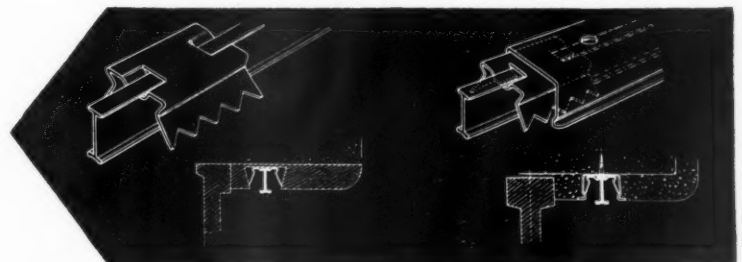
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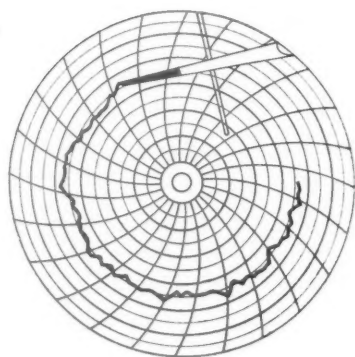
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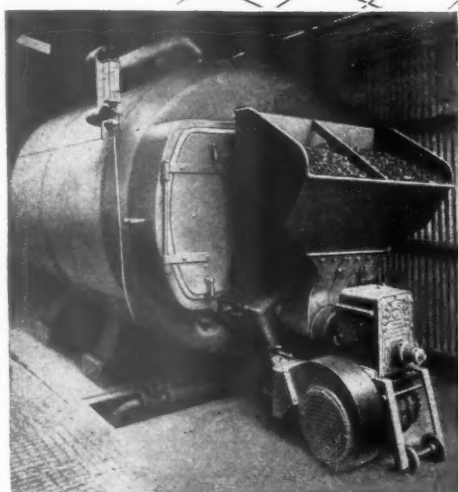
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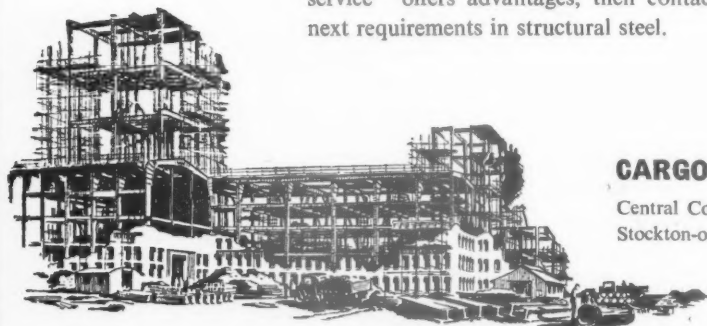
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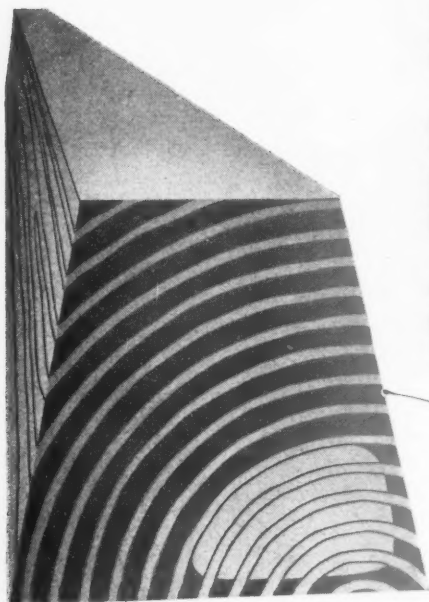
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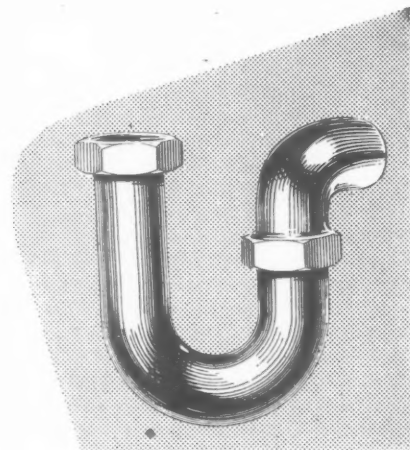
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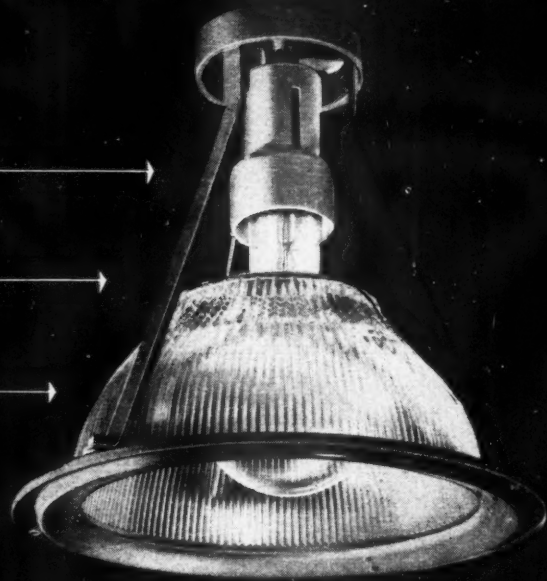
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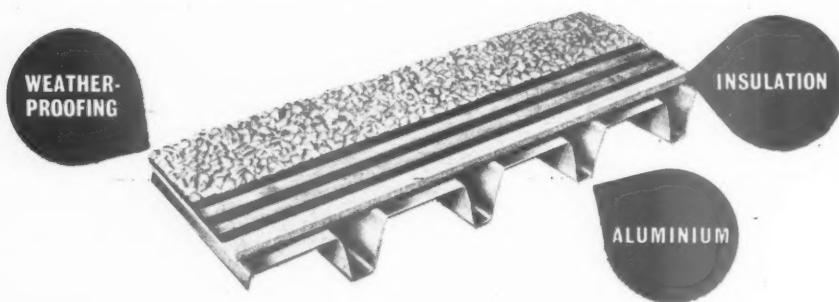
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To-day so many architects are specifying this modern, efficient method of roof construction that it has rapidly become an accepted building principle.

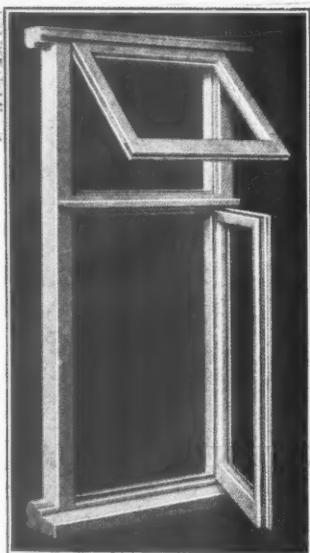
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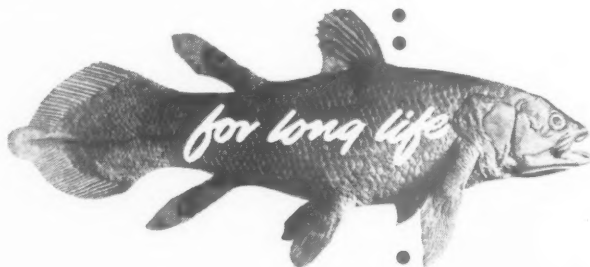
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OF GLASS BLOCKS

SEALING PANELS OF GLASS BLOCKS

In order to prevent glass blocks being subjected to building loads, strains due to settlement, etc., the head and sides of the panels should be built free of the main structure (except for reinforcing strips) so that a mastic seal can be accommodated. For this purpose a 1-in. clearance recess should be provided: $\frac{1}{2}$ in. to take packing strip of mastic and quilt and $\frac{1}{2}$ in. to cover. (See Fig. 7 & 8)

General Specification

All clearance joints at head panels shall be painted Compound so as to provide accommodating movement. All clearance joints must be spillings.

SEALING STRUCTURAL EXPANSION JOINTS

EXPANSION JOINTS

With present-day building techniques, essential in providing the necessary proofing to the structural expansion joints. Each particular type of deep they should be cut with gaskin, hemp, or soft board inserted to within 1/4 in. of the surface before applying the waterproofing mass.

... of expansion joints sealed with ... In each case

Typical examples of expansion joints sealed with mastic are shown in Figs. 9-15. In each case a weatherproof seal is required which will accommodate any movement which is likely to occur at the joint due to thermal or structural influences on the materials involved.

The mastic would normally be applied with a hand- or air-operated gun with a standard nozzle attached and allowed to penetrate the joint to the depth required. It is recommended that the outer surface of the seal should be finished with a convex curve, slightly proud of the brickwork or cement rendering.

General Specification

General Specification
As shown in the drawings the structural expansion joints in the brickwork (cement rendering, etc.) after caulking as necessary, shall be sealed to a depth of $\frac{1}{2}$ in. (a greater depth may be necessary in particular cases) with STYUMASTIC "K" Compound applied as specified by the manufacturers.

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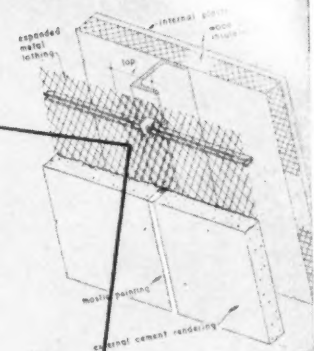
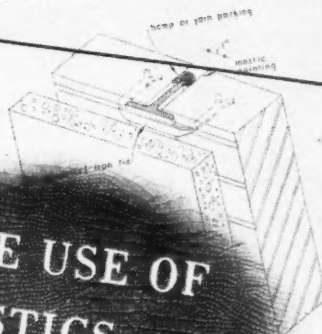
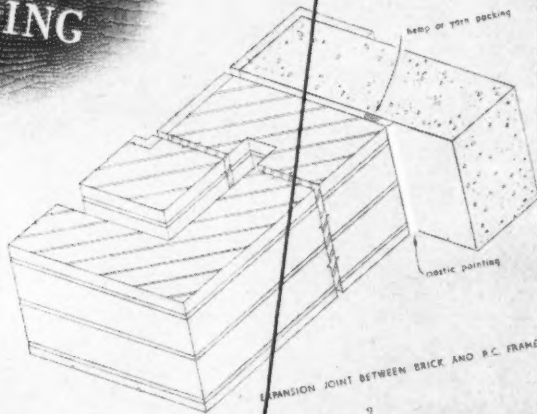
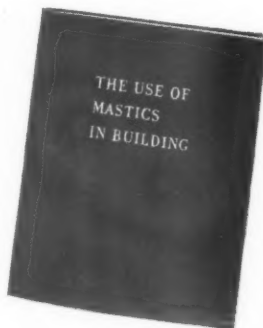


Fig. 10
EXPANSION JOINT IN EXTERNAL CLADDING



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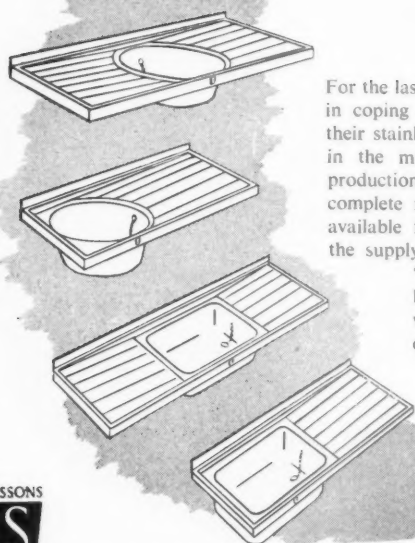
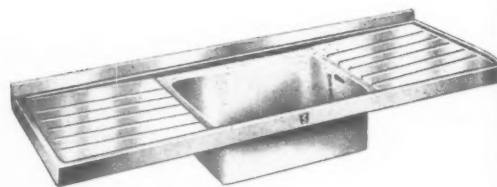
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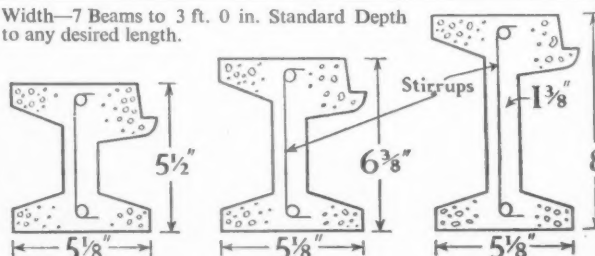
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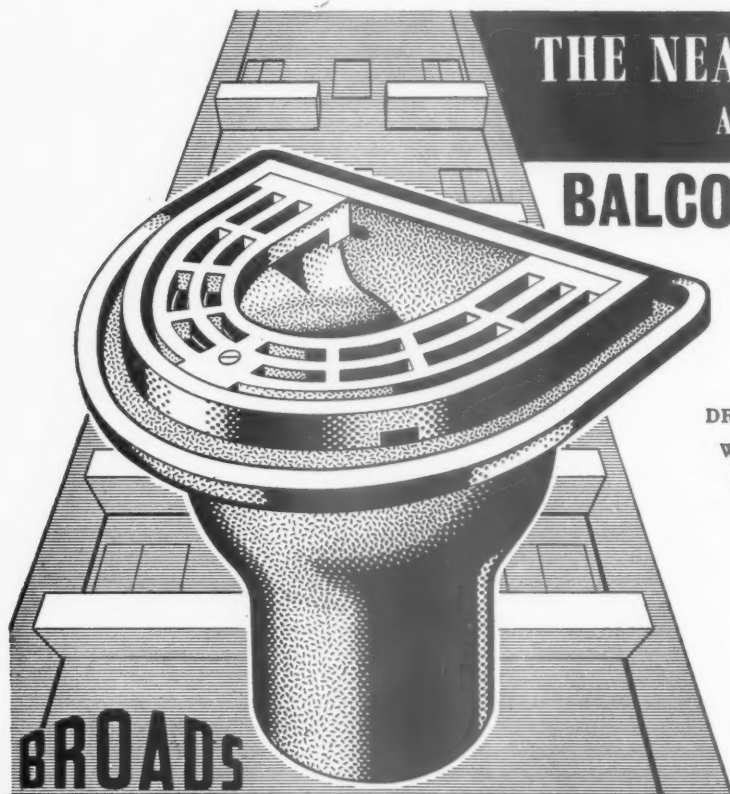
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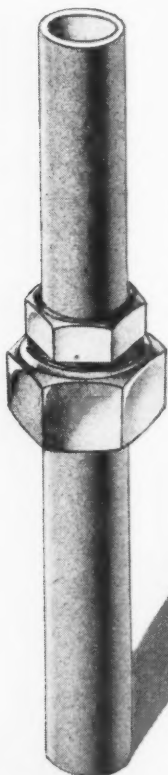
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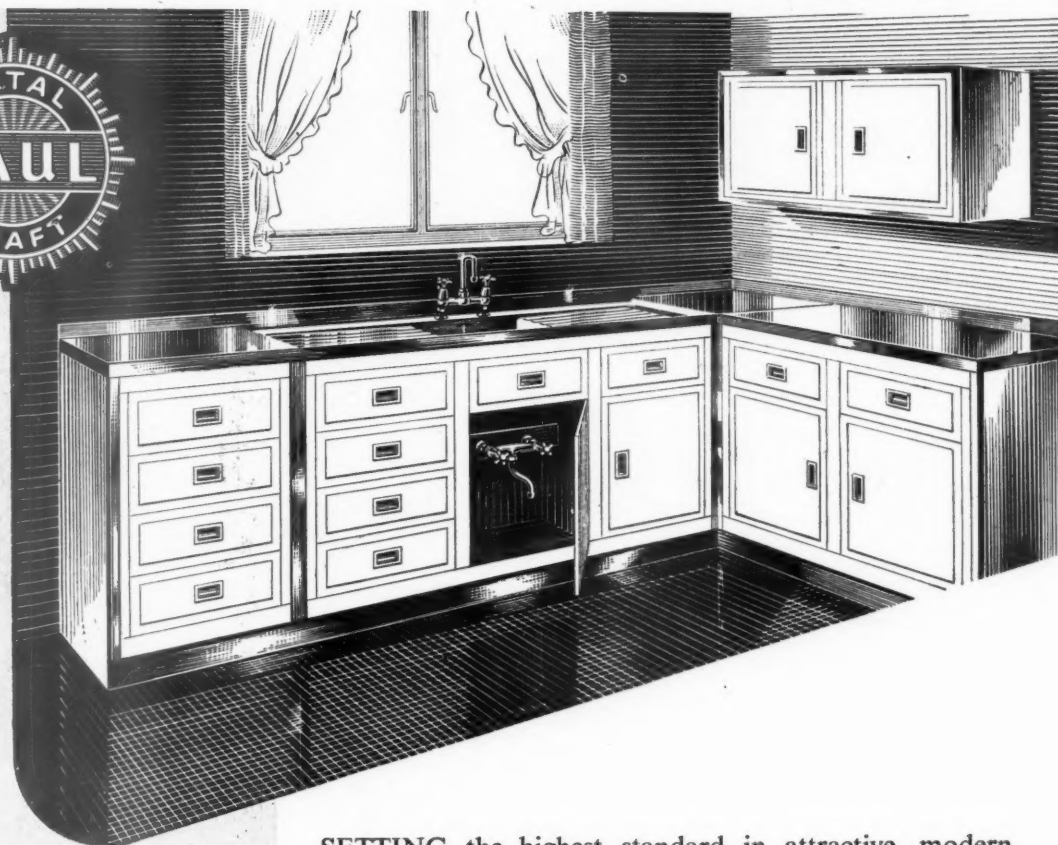
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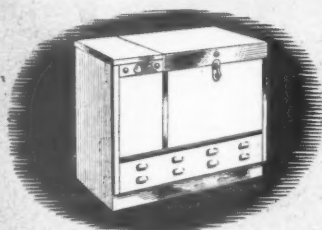
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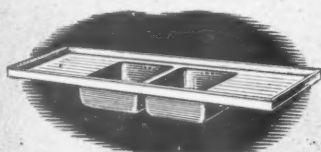
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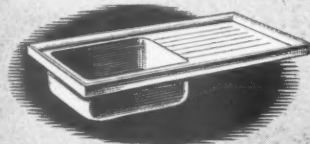
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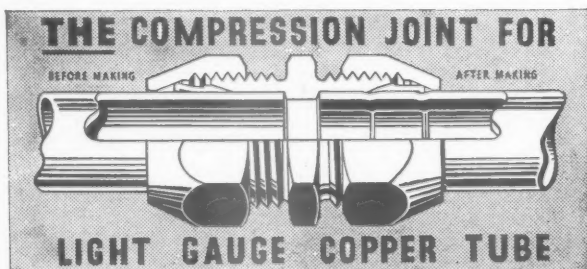
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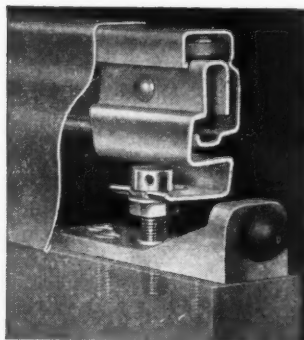
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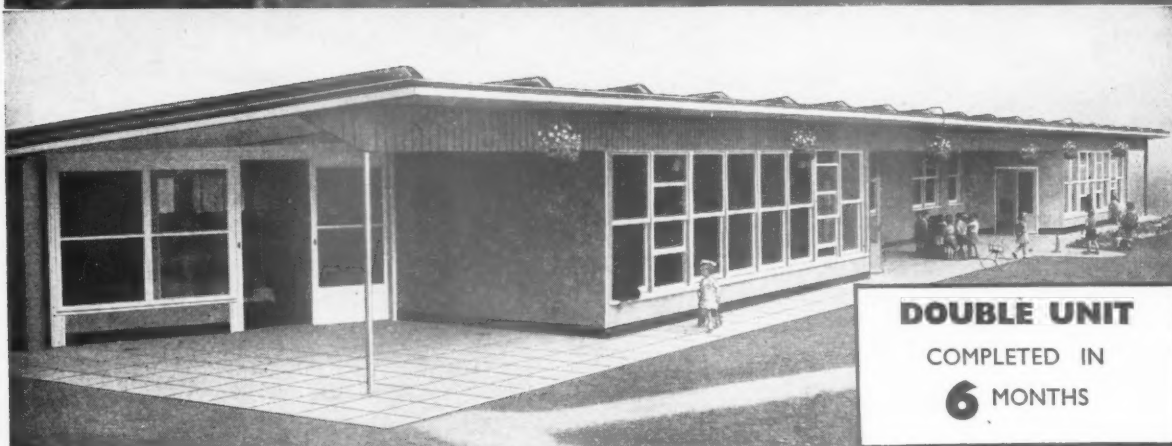
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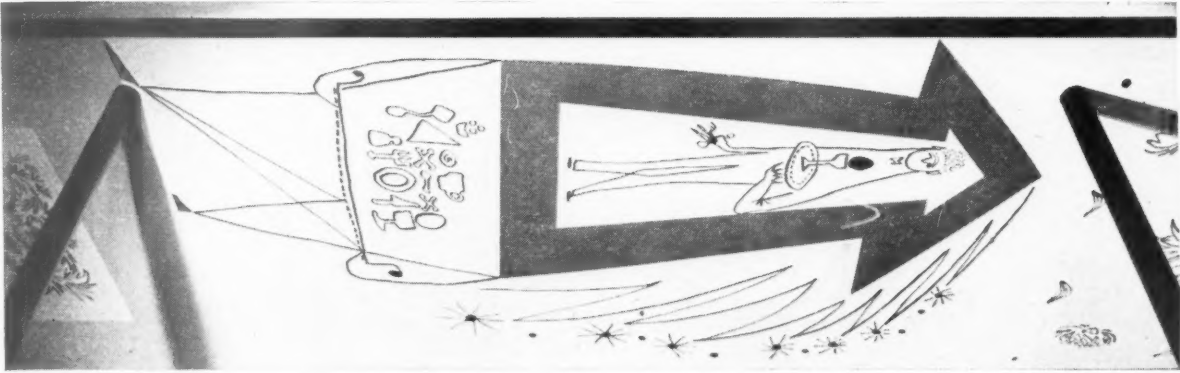
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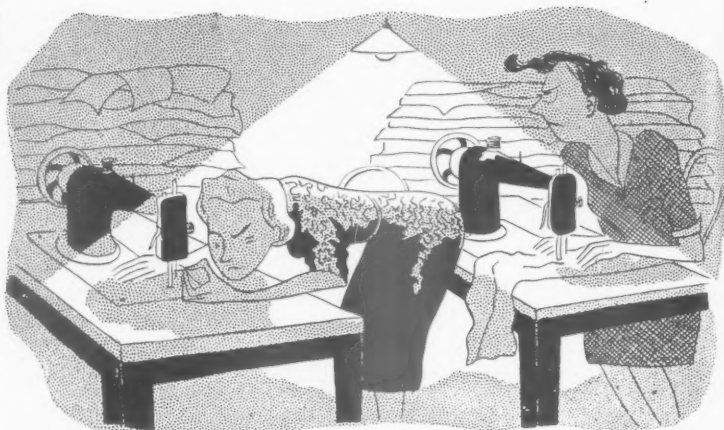


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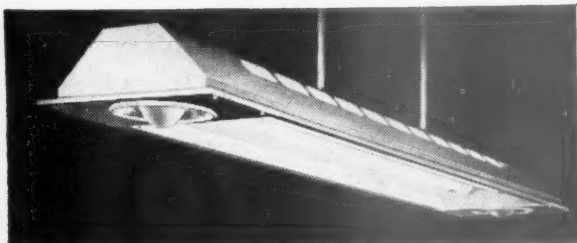
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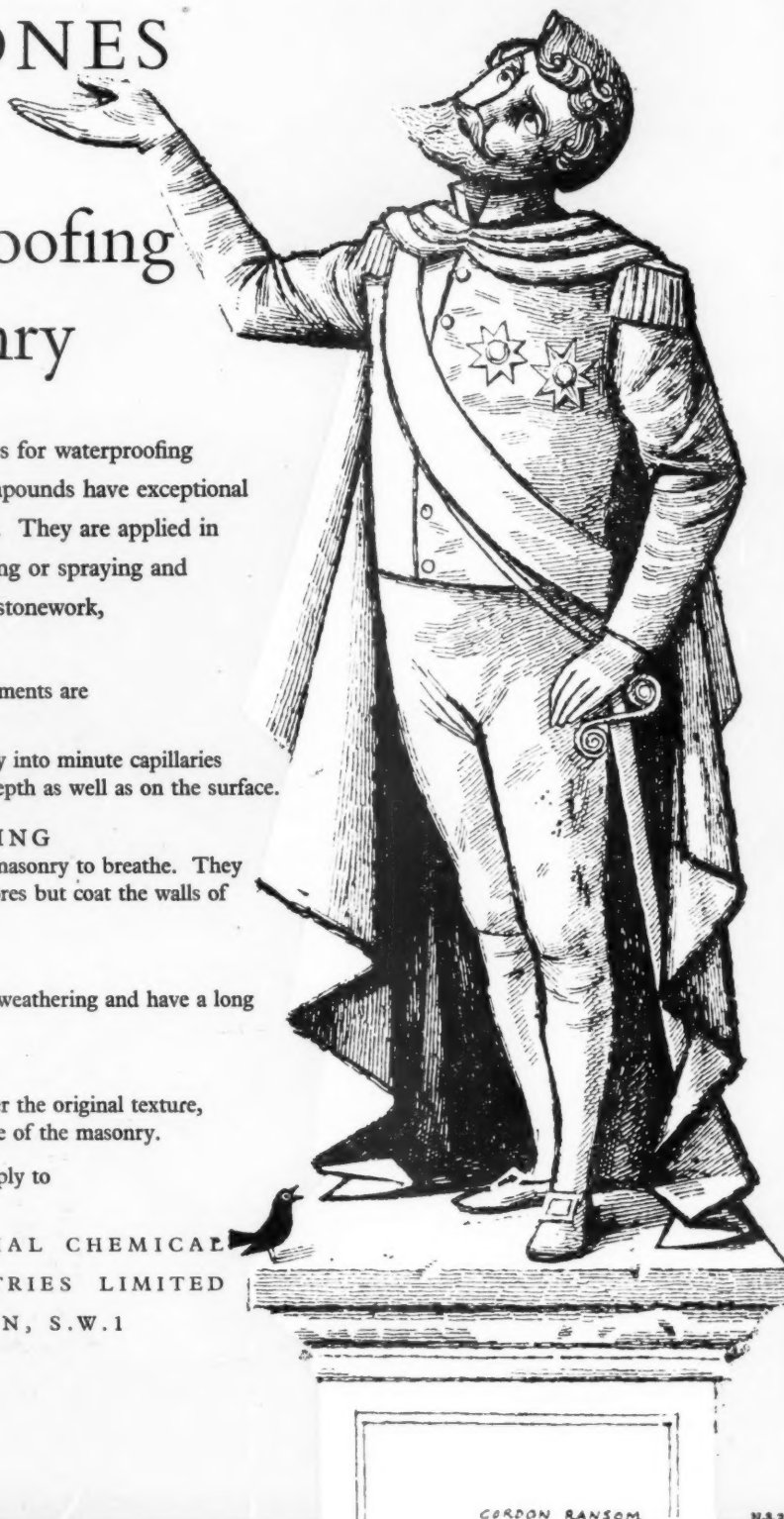
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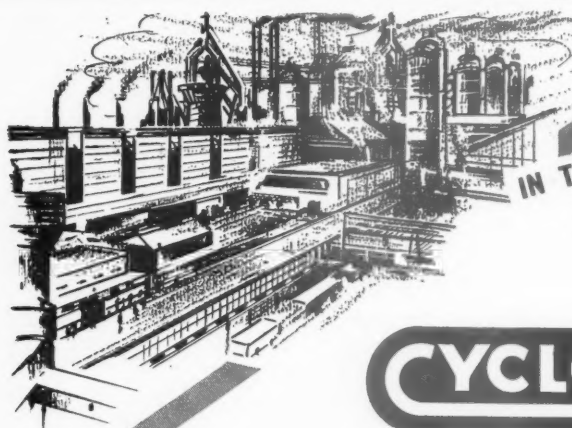
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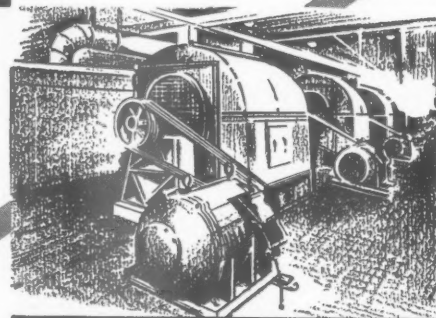
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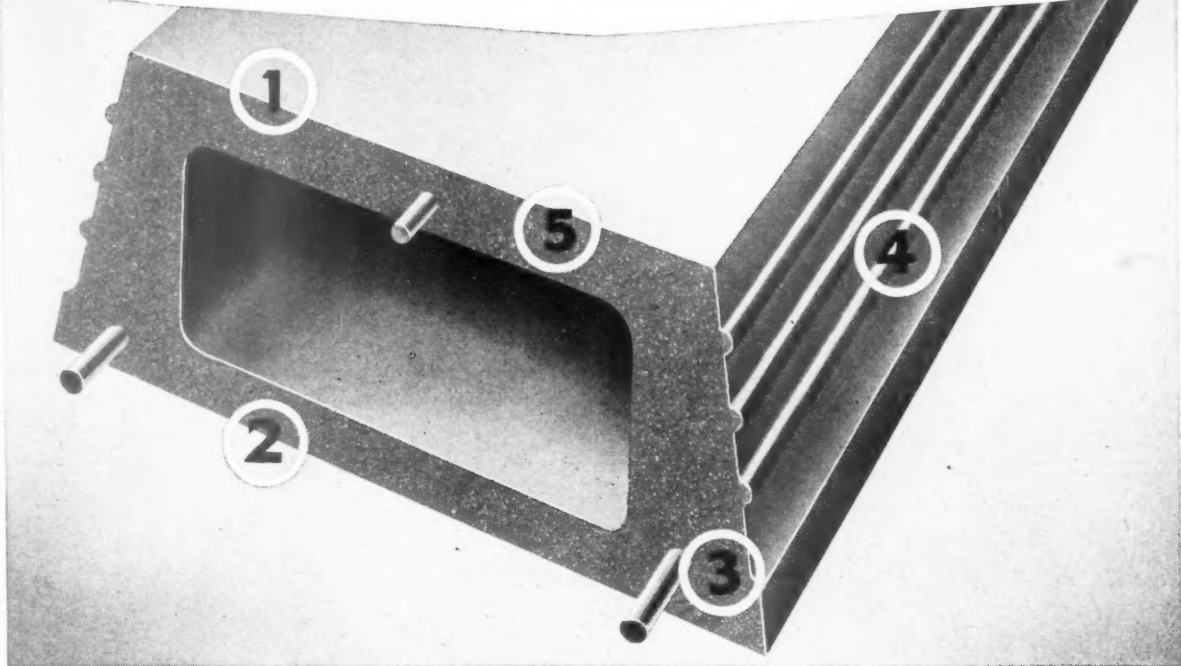
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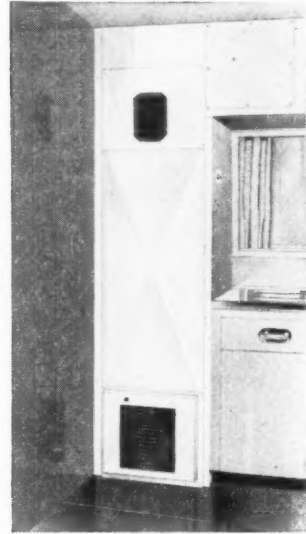


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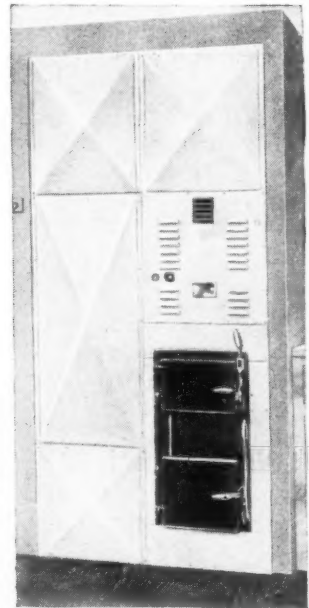
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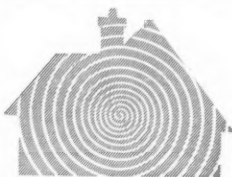
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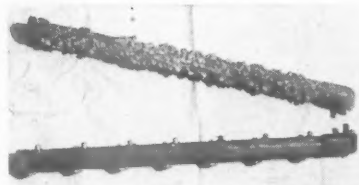
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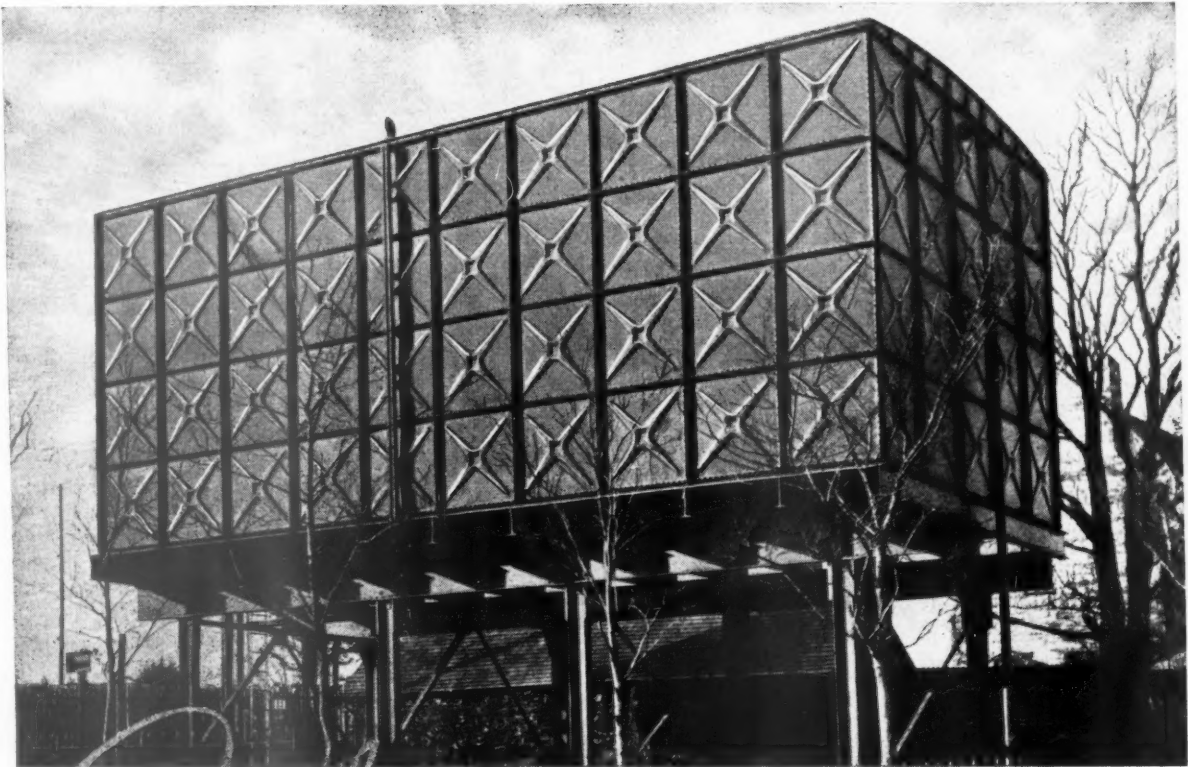
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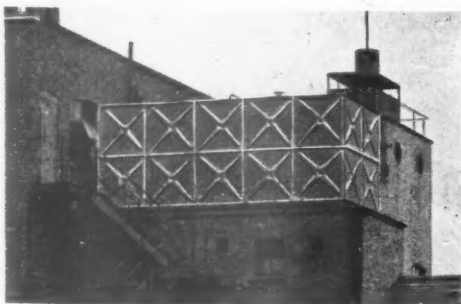
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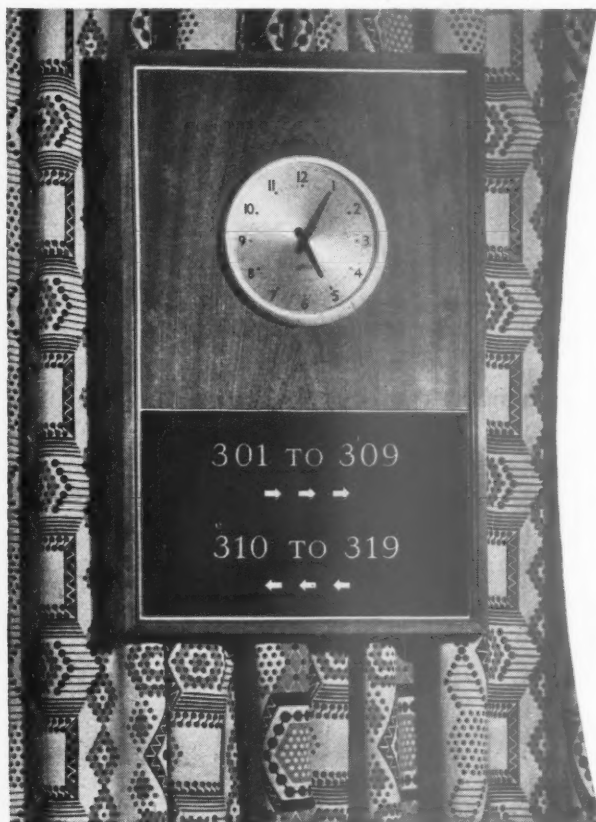
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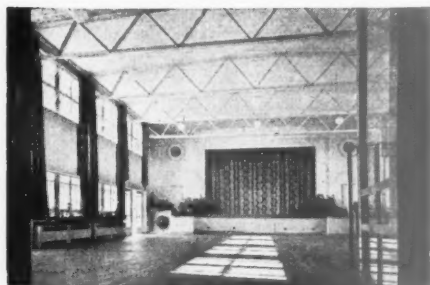
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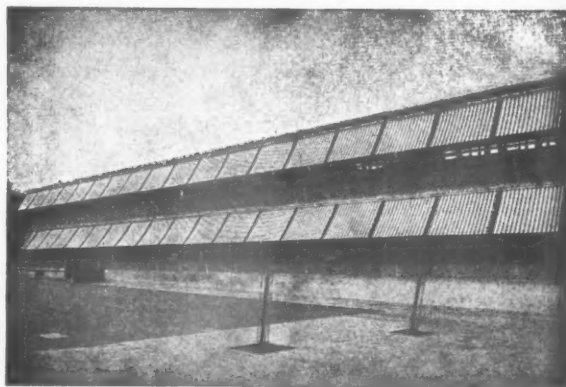
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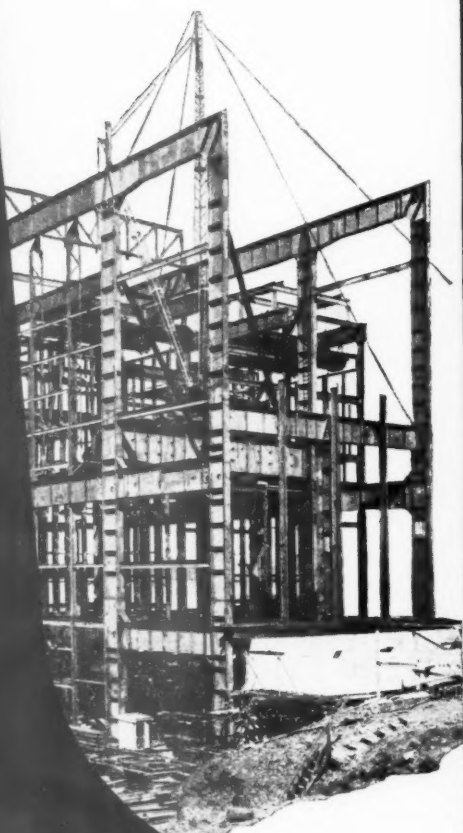
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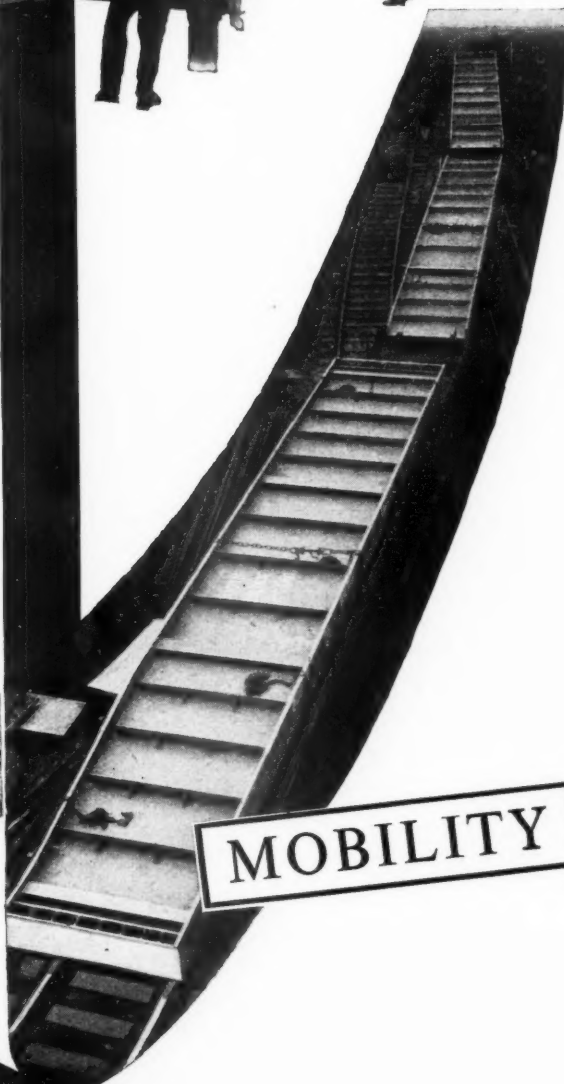
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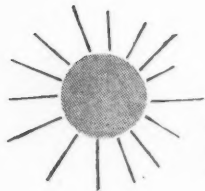
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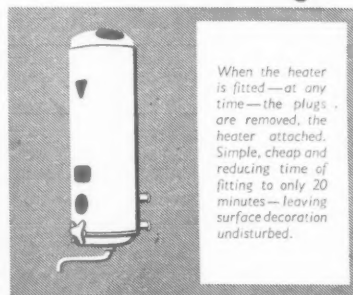
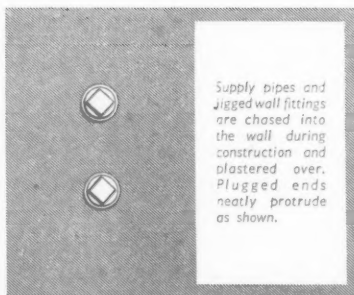
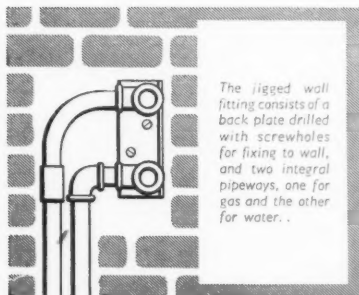
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No. 3027 March 5, 1953 VOL 117

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THE NEW TOWN STAKES

ASTRAGAL publishes here his second statistical review of New Towns (E & W), and in case readers feel that it is rather out of date, it must be made clear that his raw material was only recently made available.*

You may remember that when we last reviewed progress, Hemel Hempstead was ahead, with Harlow and Crawley just behind. In case you don't remember, the table includes 1951 figures as well as those for 1952. We find that the three leaders are exactly as before, as regards dwellings completed, and Hemel Hempstead is still out in front.

* Reports of the Development Corporations: to 31st March, 1952. HMSO. Price 15s.

Last year ASTRAGAL received mild complaints that *dwellings completed* were not everything: there were, he was told, shops, factories, roads and many other ways of measuring progress. With that passion for fairness which has obtained for him much admiration and very small financial rewards, ASTRAGAL has this time included shops and factories. It makes little difference. Hemel Hempstead still leads. One notices that most of the towns with big staffs have built a large number of factories as well as more houses than the rest. The exception is Stevenage, which is the oldest New Town and has the largest staff, but makes poor showing in the table. Many architects and planners will regret this—for Stevenage was the first of them all—and will hope for better things next year.

HOUSE-RENTS

Several of the Corporations mention again—rather hopelessly—that they cannot compete with local authorities over rents. And several mention that they are still dreadfully lacking in churches, shops, halls, cinemas, libraries, and nearly all the non-residential buildings that make a town a

town. ASTRAGAL believes that this deficiency must soon be removed or we shall end with no New Towns but with a dozen over large and inconveniently sited housing estates.

EXHIBITS A-Z

Having exhausted himself in statistics, ASTRAGAL spent the rest of the week limbering up for the annual exhibition marathon—Ideal Home, BIF, etc.—by scouting round a few of the smaller shows now to be seen in London . . . Poole Pottery (including a few new A. B. Read designs) at the Tea Centre . . . new furnishings and fabrics at Heals—mostly owed to Day (Lucienne) . . . COID Coronation souvenirs (Tea Centre again—that kettle is never off the hob) . . . and the exhibition at Charing Cross station. The last came first on his list.

FURNISHED ROOMS

Clutching the handout announcing the "most provocative exhibition of the year" ASTRAGAL was out of the house and away down the street before he had time to read the second paragraph and discover that the exhibits did not include Miss Lollobrigida, but consisted simply of two furnished rooms.

NEW TOWNS PROGRESS : MARCH 1952

	Date set up	Full-time staff	Dwellings completed		Average monthly output of dwellings*		Shops: complete or building	Factories: complete or building (sq. ft.)
			31.3.51	31.3.52	31.3.51	31.3.52		
Aycliffe ..	7.47	54	168	439	3.7	8	11	—
Basildon ..	2.49	136	—	176	—	5	10	190,000
Bracknell ..	10.49	85	—	52	—	2	—	65,000
Corby ..	5.50	37	—	—	—	—	—	—
Crawley ..	2.47	212	190	721	3.9	12	—	509,000
Cwmbran ..	11.49	88	—	16	—	0	—	—
Harlow ..	5.47	193	187	762	4.1	13	22	317,000
H. Hempstead ..	3.47	222	292	1,000	6.0	16	26	600,000
Peterlee ..	3.48	68	26	309	0.7	6	8	—
Stevenage ..	12.46	229†	36	436	0.7	7	12	24,000
Welwyn ..	6.48	163	1	247	0.03	5	—	{ 1 factory 8 workshops
Hatfield ..								

* Total output divided by number of months since the Corporation was set up.

† Excludes 34 domestic and canteen workers.



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Arriving at Charing Cross Underground, therefore, at no more than a breathless amble, he found that one room was furnished, in what the DIA "welcomes as the contemporary manner," and the other was done up with the Trade's best-selling Jelly-Mould lines. What, you may ask, is provocative about all this? The public may make up its mind which it prefers, and vote accordingly. The results of this secret ballot will be analysed by the Institute of Public Opinion, and will, ASTRAGAL suspects, come as a surprise to nobody.

The selection of the furniture, by Mrs. Phoebe de Syllas, seems to have been scrupulously fair, even to the point of being a little spineless. Both rooms cost the same (round about £300), and the intelligent voter will at once observe that by choosing Contemporary he gets four more chairs for his money and can thus afford to continue living in the clutter and confusion to which he is accustomed. Not that choosing Contemporary means anything unduly advanced in this case, for nearly all the pieces are in a safe Scandinavian Neo-Traditional manner to which South London Commuters (who will presumably be the bulk of the voters) are already fairly well accustomed, and which the Trade has already learned to make, as we observed at Earls Court last week, in a form just sufficiently vulgarized to please or mislead all tastes. The most striking contrast in taste between the two rooms was in the plain bright colours of the Contemporary, and these, it appeared from the new House and Garden Colours exhibition, are already as much as three weeks out of date.

FLOWERS AND FLOODS

On, then, to Portland Place, where the inside of the RIBA has never looked—or smelt—so beautiful. It was rumoured that the flowers supplied

by Holland for the Dutch Exhibition—masses of cut flowers as well as boxes of bulbs—are worth round about £1,000. One could well believe it. They were everywhere.

*

At the opening of the Dutch Exhibition the flowers and, of course, the floods, took a large place in the speeches of both the President and the Ambassador. The flowers, as well as the absolutely first rate format of the Exhibition itself, rather stole the thunder of the architecture exhibited. Not, to be quite honest, that there was so very much thunder to steal. The Dutch and English get more and more alike, and although, on the whole, their architects are better than ours, their post-war work, like ours, is pedestrian enough. Some people were saying that it wasn't a representative show; it certainly lacked the "kick" and the sensitivity of the good old Dudok days. These comments apply only to architecture in the narrower sense of that word, and not to the big scale engineering works. These are almost always as good as they can be. Hr. van Gelderen and all concerned—both on the Dutch and the RIBA sides—must be congratulated on an efficient, well-documented and very beautifully displayed exhibition.

PRESERVATION

Osbert Lancaster's talk at the RIBA on preservation of the past occurred too late for reference to be made to it in this issue. But two weeks ago, at the annual dinner of the Hampshire and Isle of Wight Architectural Association, a colleague reports, an MP, Nigel Nicolson, pleaded with the RIBA to "use their voice for the protection of our old buildings." Describing himself as a critic of his own government's policy—as recently announced—of spending £200,000 for preserving only a cross-section of the country's building heritage—he went on to point

out how indignant the public would be if in any other art the government maintained that only a "cross-section" could be preserved—a typical selection, so to speak, of our Constables and Turners.

*

It is, perhaps, rather ironical to appeal to architects for help in preserving old buildings long past their economic life—when it is primarily the architect's job to build new ones—which may account for the cautious reply by President Howard Robertson: "We have the matter in mind, and we have approached the MOHLG on the matter."

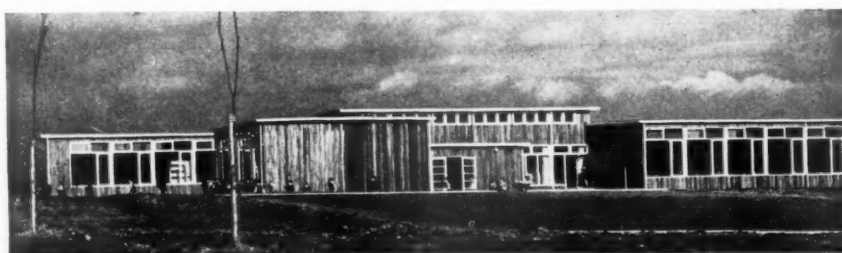
PUT THE ARCHITECT ON SHOW

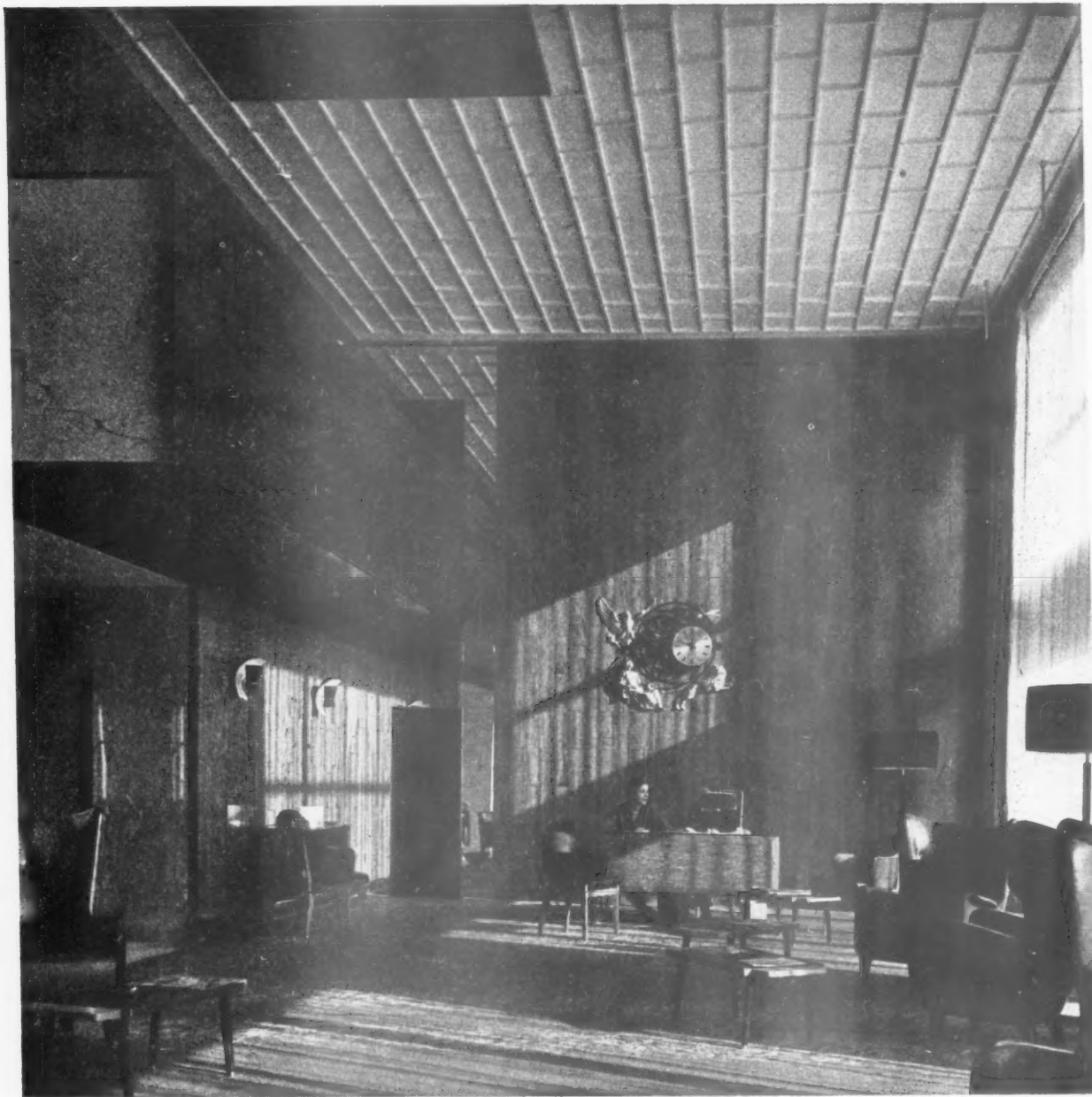
At the annual dinner mentioned above, Howard Robertson, rather surprisingly, asked the architects to visit the RIBA's travelling exhibition. This is surely an attempt to preach to the converted (let no one suggest that architects need lessons in good design). Howard Robertson no doubt really intended only to appeal to architects to send for the exhibition in order to show it to the general public in their respective chapters. Last week, falling over backwards in his efforts to be polite, ASTRAGAL congratulated the RIBA on this, the first of their touring exhibitions. This week he has nagging second thoughts.

*

Couldn't the public relations committee use more display technique, in the second exhibition in the series, to tell the public vividly, and pictorially, just what the architect can *do* for the public. Couldn't such an exhibition show people—literally—the masses of paper work the architect saves the client; show—literally—the bundles of plans and details and specifications by which the devoted architect slaves for the client; and show—again literally (or perhaps not)—the tiny sum for which the architect works? It could titillate

Birley Junior School is the first of six planned by the Derbyshire Education Committee (County architect, F. Hamer Crossley: assistant county architect for new schools, F. K. Hicklin) for the Sheffield area. The structure, which is of prefabricated wooden units faced with Lagos mahogany weather-boarding, took less than six months to put up. It is designed on a 6 ft 4 in. grid. Cost: £56,400. The school will be more fully described and an article on the system of construction will be published in subsequent issues.





Is This Americans' Building British?

The interior of the Time and Life Building has caused much comment, some of it—as at last night's discussion at the ICA—very spirited. The first floor reception room of the building, shown here, has met with considerable comment and has even been described as a salvage operation. This is less offensive than it sounds; it describes with some accuracy the problem with which the architect and interior designers were faced when it was decided, long after the building itself was under way, to install an interior of this size and scale. It consists, in principle, of two standard office "bays" in plan and two in section, the intervening floor being knocked out to give the necessary height. Special windows were installed instead of the standardized aluminium sashes used elsewhere, and the projecting balcony, which forms so dominant a feature of the room, is the main legacy of the reconstruction. It is, of course, what is left of the LCC escape corridor; its overall dimensions were, therefore, unalterable. The

designers have tried to play it down by varying the colours of its sheathing, by encouraging it to disappear at the far end into a mirror—thus indefinitely prolonging its length—and by suspending from the ceiling a richly decorated plane to act as a counterbalance. The effect of all this ingenious geometry, carried out in fine well-finished materials, is certainly dramatic and forceful, and no doubt when the glitter and the polish have mellowed in London's atmosphere it will become closer to the designer's intention of trying to re-establish (by use of dark wood, marble and mirror) the traditional appointments of a London club. Is it, in fact, as the clients hoped it would be, British in feeling? Or is it State-less? Does it look, as has been suggested, like a photograph in an American magazine or, as another critic has suggested, like a symbol of Power? The photographs on pages 305-318 will help readers who cannot visit the building to make up their minds themselves.

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the public with before - and - after sequences of photographs—the sordid slums, the waste plots, the bleak and barren sites transformed into superb scenes of architecture. And it could show clearly what the use of an architect *adds* to the work done by builders and engineers.

HIGH-LOW

One day last week the AA, in their annual general meeting arranged by the students, discussed “vertical *versus* horizontal living.” As usual, the students really did mean *living*, being, as always, determined not to stick to their lasts, but instead to tell people how their lives should be organized.

*

It is, of course, the function of students, whatever their subject, to debate and discuss how we should live. ASTRAGAL'S plea is only that they should do it in their own time, preferably with students of planning, sociology, medicine, farming, engineering and economics, and not at the general meeting of an *architectural* association. It would, however, have been interesting to learn from students and the speakers, Max Lock, Ove Arup, art critic Basil Taylor, and Ernest Price (of the Abbey National Building Society), how structures for vertical or horizontal living are best *designed and built*.

*

That surely, is a good reason for attending *architectural* meetings.

ASTRAGAL

AN APOLOGY

New Ideal Homesteads Ltd.

In the issue for January 29 we published a photograph of part of an advertisement for new ideal homes. The advertisement depicted an artist's impression of homes which New Ideal Homesteads Limited were offering for sale complete at £1,900. Unfortunately, our caption to this advertisement has been understood to reflect upon the Company and its methods of business. It was at no time the JOURNAL'S intention to cast the slightest reflection on the integrity of New Ideal Homesteads or to suggest that they were not offering good value for money, and we take this opportunity of expressing to New Ideal Homesteads Limited our sincere apologies for having unwittingly done so.

POINTS FROM THIS ISSUE

Progress in New Towns: Hemel Hempstead still leads	page 295
Bailey Report: fewer house types recommended	page 299
Time-Life Building: described and illustrated	pages 298 and 305-318
Bailey Committee: “no time to investigate prefabrication”	page 319

The Editors

THE BAILEY COMMITTEE'S REPORT

THE report of the Bailey Committee on house interiors* was published last week. The report is addressed to the Minister of Housing and Local Government and the Secretary of State for Scotland, but in its format and language it would appear to have been directed more at the layman. It is illustrated, for example, with a selection of attractive, but somewhat irrelevant, photographs of post-war housing schemes.

In the report's detailed recommendations, however, there are many good points—not all new, but mostly worth repeating. For example, it is suggested that “in most small house plans economy will result if internal partitions are replaced by beams supported on a central pier or chimney stack and on external or party walls” and the Committee recommends the use of storey-height pressure-moulded gypsum-plaster partition panels that require no plastering.

The most important recommendation is that fewer different house plans should be used. It is suggested that a dozen or so standard plans should satisfy the needs of all the different types of family in the community and that variations in elevational treatment and site layout could prevent monotony. Some two dozen house and flat plans—based on MOHLG plans, but to a 3-ft. grid—accompany the report. No explanation is given as to why a 3-ft. grid—already rejected by the BSI committee on modular co-ordination—is used instead of a 3-ft. 4-in. grid, as recommended by the committee and various other bodies.

In the RIBA's memorandum (prepared in reply to the questionnaire which the Committee sent to “100 persons and bodies concerned with house building”), this view is challenged: “We are not (says the RIBA in its memorandum, which accompanies the report) in favour of regimenting house designs . . . variety of type of house is essential, not only aesthetically, but also to cater for variable human requirements.”

The RIBA's 3,500-word memorandum contains many sound ideas, such as the suggestions that door linings and doors (fitted with lift-off hinges) should be made together in the shop, and that cold water tanks could be omitted by using pressure reducing valves. Its opposition to the Bailey Committee's recommendation concerning the number of house plans will, however, be difficult to defend. There can, surely,

* *Quicker Completion of House Interiors*. (HMSO, 1953, 3s.6d.)

be no adequate reason for architects starting from first principles each time they design houses for a local authority. This is not to suggest that the plans accompanying the committee's report are necessarily the answer, and we certainly do not wish to see municipal housing slip out of the hands of the architect—the only man really qualified for the job, but architects should think twice before rejecting a suggestion which might make the design of local authority housing schemes a more reasonable financial proposition.

FOCUS ON

Groves & Rix & Rix, High
SMITH, Miss Jean Margaret Veitch, Roper,
SMITH, John, 141 Wilton Avenue, Shirley, S.
SMITH, John Bason, Ministry of Education, C.
22315 SMITH, John Bendell, 30 Codrington Road, B.
19125 SMITH, John Charles, 48 Sunbury Avenue, J.
16544 SMITH, John Edmund, 3 Shanklin Avenue, L.
14065 SMITH, John Francis, County Offices, Kingston
7695 SMITH, John Francis George, 219 Knightsbridge
7696 SMITH, John James, Borsdane, Highnam, nr. G.
7694 SMITH, John M., 5 Thornham Road, Sale, Che.
6220 SMITH, John Richard, 1a Middle Temple Lane,
7152 SMITH, John Sidney, "Gads Hill," Pantmawr Road,
14342 SMITH, John Victor, 1 Penmore House, 7 Avenue,
9043 SMITH, John Wright, 114 Terregles Street, Dumfry
17471 SMITH, Joseph Andrew, P.O. Box 6, Wynberg, C.
12617 SMITH, Joseph Edwin, 22 St. George's Road, Harr
8461 SMITH, Joseph Summersgill, 67 Wostenholm Road,
20356 SMITH, Keith Pegden, 20 Chalvey Park, Slough,
5718 SMITH, Kenneth, 40 Royston Park Road, Hatfield
SMITH, Kenneth Alfred, "Fit Tor," Devon

YOU

A misunderstanding on the part of some readers with regard to the different methods of entry to the Architects Register is discussed by Professor Bowen below. The title piece, above, is reproduced from a page chosen at random from the Architects Register, and the names have no direct connection with the article.

Guest Editor :

Professor IAN BOWEN

Methods of Entry to the Architects Register

THE graph showing the numbers of persons registering in each year (published last week and reproduced again, right) seems to have confused some readers who thought that the only method of entry into the profession—at any rate, in recent years—was by way of a recognized examination. How, therefore, did the difference arise between the total numbers registering and the numbers qualifying by examination? In 1947, for instance, approxi-

mately 100 more people were registered than qualified by examination. Briefly, the position arose in the following manner.

The 1931 and 1938 Acts of Parliament which now indirectly govern the profession through the Architects' Registration Council set out to regulate entry into the profession by examination alone and, at the same time, in restricting the use of the word architect, acknowledged the right of those who had, prior to the passing of the Act, quite legally used this term to describe their occupation, to continue to do so. This was done by two stages; the second was intended to be completed by 1940, two years after the passing of the 1938 Act.

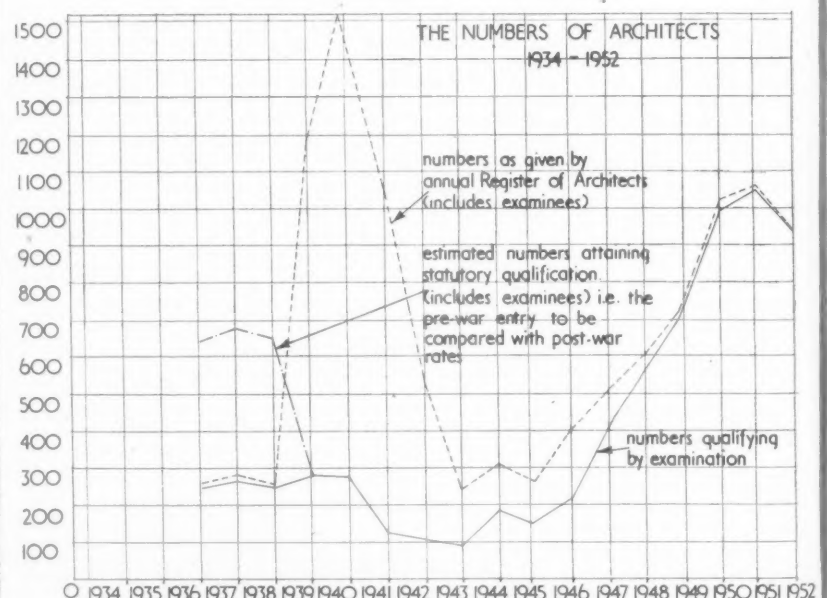
The last war, however, intervened, and accordingly provision was made for those who were serving in His Majesty's Forces to apply any time within six months of discharge, or demobilization, for registration under the regulation covering architectural

assistants and practising architects. Such applications came in for some years after the war, but have now ceased and this method is now closed. It did, however, succeed in raising the number of registrations for a time after the war and accounted for the difference between examination and total entry which some of our readers noticed.

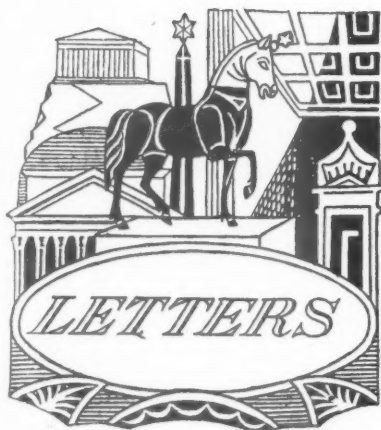
The normal method of entry today, therefore, remains as by examination. Nevertheless, there remains one other method of entry into the profession which is not closed. Regulation 26b is an attempt to recognize the fact that a person may achieve a high standard of design without, necessarily, having had a formal architectural training, by providing, in exceptional cases, that an architect of undoubted standing, and generally recognized as such, can apply for registration. To be successful, an applicant must not only have the support of one of the recognized architectural bodies but of at least 13 members of the Admission Committee of the Architects' Registration Council.

Few apply, and very few succeed in obtaining the necessary support. In 1951, for example, three persons applied, not one of whom was successful.

We may say, therefore, that entry into the profession is virtually by examination only—another method exists, it is true, but by virtue of its difficulty and the need for proof of architectural ability, it could be more truly described as the *front* rather than the "back door" method of entry.



Graph III, showing the number of architects registering for the first time in each year, together with the actual number qualifying by examination. This week's article concerns the gradually decreasing difference in recent years between the numbers qualifying by examination and the numbers given on the Register.



Malcolm Mactaggart, Registered Architect

Lockhart Fraser Miller, L.R.I.B.A.

D. Rabin, 2nd year student, Northern Polytechnic

D. B. Carton, Student R.I.B.A.

D. K. Woodhead, Student R.I.B.A.

Cecil C. Handisyde, A.R.I.B.A.

"Focus on You"

SIR,—My "focusing" is on a point that appears in considerable danger of being substantially overlooked—namely, the attitude of the architect to the work he does. Why does he do it? Butchers (presumably) indulge in the chopping up of frozen carcasses, not because they get any great thrill out of it but because it pays them, on the whole, pretty well. Are architects built to the same pattern? Or are they wedded to their work in the sort of way that parsons are, supposedly, wedded to theirs?

It really comes to this: how low a standard of living will a man accept in order to be able to spend his life in the activity of architecture? This is the crux of the entire position today. Things have very largely got to where they are by reason of architects having lost their way between what is money-making and what is vocation. No-one ever conducts an enquiry into the motives of the architect. These are left to look after themselves; the right "qualifications" are all that is needed! And yet, from the angle of motive, what would an enquiry elicit?—that "qualifications" today amount to little, if anything, more than a commercial cash to be used against those not equally well armed?

My guess is that most of the current generation of architects are in for a very thin time. My hope is that this will weed out those who might just as well have been butchers or stockbrokers. I see a bifurcation, becoming more marked with time: on the one hand a bureaucratic set-up (super-elevated hacks, armed to the teeth with "qualifications," plus their retinue of stooges) and, for the rest, a thinly scattered band of enthusiasts whose survival will depend precisely upon their acceptance of a lower standard of living than that enjoyed by their bureaucratic colleagues. Among these will be the best men of the entire bunch.

Well, well. Guessing is good fun, and costs nobody anything!

MALCOLM MACTAGGART

Welwyn.

SIR,—I doubt if you or your own staff can do anything to save us in the near future, which is what matters most, but among other things that need doing to relieve us a bit of our anxieties are the following:—(1) Smash the building "rings," finally. (2) A meeting by building employers and the RIBA to discuss bringing down the cost of labour in the building trade appreciably; this must be done first. The recent 2d. an hour increase was the final blow. (3) A report and discussion on the "go slow" policy of the building workers generally—bricklayers, joiners, plumbers, plasterers and others—all guilty of ca' canny methods in their daily work. I have seen it recently. (4) Bring down the price of materials also by eliminating the merchants or "in-between" gentry who make a fat profit and also give (say the plumber) 15 per cent. discount. This gentleman quotes and puts on his trade figure and poor Mr. Public "pays the piper"! All wrong! I refer of course to all trade merchants and firms—sanitary-ware, plumbers' pipes, bathroom furniture, grates of all types, fireplaces, etc. All go far around the profit "ring" before the poor purchaser (or architect) foots the bill.

LOCKHART FRASER MILLER.

Kinross, Scotland.

Architects' Qualifications ! Replies to an A.I.A.A.

SIR,—May I reply to a letter of W. W. J. Trollope, A.I.A.A., published in the JOURNAL of February 19?

It seems to me that architecture is either becoming or has become a "closed shop," as far as the person who has studied full time (for the five-year period) is concerned. The emphasis seems to be on "office experience—and hang good designing," a thing which is sadly lacking in this country.

Regarding qualifications, let us first get one thing straight. No matter what degree it be—ARIBA, BSC, or MB, BS—once a student has passed his final exam, he is entitled to use the letters, whether he has had experience or not. A student who has passed his MB, BS final is a doctor, whether he passed it yesterday or twenty years ago. Surely five years of study and exams, is enough to qualify a person.

From his letter, Mr. Trollope, I feel is labouring under a misapprehension, for now a student does not receive his letters after five years, but after six. At the end of the sixth year a professional practice exam. is taken. But who is to take this "poorly lacking" chap into an office after his five years? Certainly not Mr. Trollope, who tells us it is not economical to employ him. It appears it is more economical to employ youngsters who are in their first few years as evening students; for they are jolly good draughtsmen, and do as they are told, whereas a five-year full-time man may have a few go-ahead ideas of his own, and an earthquake such as this could not possibly disrupt the steady plod of office procedure.

No! I say employ these students, nurture them, for they are the designers of tomorrow. They are the men who can put Britain on the map of good contemporary architecture, and carry on and expand the work of the present few.

London.

D. RABIN,

SIR,—W. W. J. Trollope, A.I.A.A., states that after inserting an advertisement in the AJ he received thirty applicants, 75 per cent. of whom were graduates from some school with no experience. These latter, needless to say, were rejected out of hand.

It would appear then, from Mr. Trollope's remarks, that so-called "associates" of the RIBA, with their newly acquired letters, are doomed to wander like the ill-famed "tribe" until some sympathetic employer is prepared to take them on at great expense to himself.

If this is so, students—with their 5 years of blood, sweat, and tears behind them—are going to be faced with a very delicate situation indeed: without a job they cannot gain experience, and without experience they are still without a job. If this is not a vicious circle, what is?

The architectural profession would come to a pretty pass if all newcomers were rudely shown the door. Within a few years the complement of the profession would be made up of white-haired old gentlemen with loads of experience and no inspiration and thousands of assistants waiting for the crumbs to drop from their master's tables. One of the first principles of keeping a body alive is to give it vitality, and vitality requires new trains of thought.

If Mr. Trollope's policy were adopted the profession would be a closed shop to new entrants, and all architectural schools would be closed for lack of support.

By all means let those with experience be encouraged, but at the same time don't push those aspiring F.L.W's and Corbusiers off the bottom rung.

D. B. CARTON.

Blackpool.

SIR,—As one who has probably had a letter cast into the waste-paper basket by W. W. J. Trollope, A.I.A.A., may I, through your columns, thank him for declaring his narrow outlook publicly? I trust he will include the name of his firm in any future advertisement inserted in your journal!

As a recently qualified student from a university I have no illusions as to our worth in a private office—and neither have my colleagues. On the other hand, I doubt whether office-trained assistants can have the same broad outlook on their work as those who have attended a full-time course. Admittedly, the office-trained man may be a quicker draughtsman and he may have a far better knowledge of construction, but I submit that a year should remedy any deficiencies a graduate experiences in those spheres. Remember, Mr. Trollope, a student on a full-time course works pretty thoroughly throughout the five years and has little respite. I have yet to see, in fact, any member of an office working quite so fiercely—even when studying part-time. What, indeed, does a junior learn during his first two or three years in an office? Yet those years would be counted by Mr. Trollope as "valuable" experience.

I am thirty-three and, apart from election, qualified—yet my salary is little more than that I earned as a labourer on the site three years ago. We do not grumble at the salaries we receive but it would be nice to be treated as qualified members of a profession—as graduates are in other callings—and not as simpletons. We all agree with a further qualification; how about altering the rules for the fellowship?

D. K. WOODHEAD.

Sutton, Surrey.

Standard Catalogues

SIR,—I was delighted to see your leader in the issue of February 26. I think the only method of persuading manufacturers to toe the line on this matter of size of catalogues would be for architects in large numbers to agree on a policy of banning the catalogues of non-conforming firms. May I suggest that the JOURNAL invites architects to send in their names to the editor agreeing that if sufficient numbers of their colleagues will join them they will promise to return to the issuing firm all trade catalogues of non-standard size.

London.

CECIL C. HANDISYDE.

LONDON, W.1.

NEWS

BC

Exhibition of School Designs

The "Britain Builds for Education" exhibition was opened on the third floor of the Building Centre, Store Street, W.C.1, on February 28 and will remain open for a month. Designs for eighty schools in England and Wales are on view. These schools were designed after the 1944 Butler Act was passed; some of them are only projects. The exhibition concentrates mainly on visual design and good planning points. Material displayed includes many model and coloured perspectives; there is not much in the way of detailed plans and technical data. The exhibits are divided into seven categories: nursery, primary, infants and junior, secondary modern, secondary grammar, secondary technical and comprehensive schools and colleges of further education.

This is the second exhibition to be held at the Building Centre in Store Street. The new display stands were designed by Mrs. Conder, the staff architect. The exhibition is open on weekdays, from 9.30 a.m. to 5 p.m., and on Saturdays, from 9.30 a.m. to 1 p.m.

Gas Council's Exhibit

The Gas Council's permanent exhibit at the Building Centre was opened recently. It includes displays of cookers, refrigerators, washing machines, space heating and hot-water appliances. There is a large-scale model of a hot-water installation for a typical five-room house, a group of sectionalized models of coke-burning, space-heating appliances and a display of large-scale cooking equipment.

There is also an attractively furnished lounge and reference library which architects are invited to use. In charge of the exhibit is P. C. Buckle, who has been at the Building Centre for twenty years.

OBITUARY

H. Donald Hope

We regret to announce the death, in Malta, of H. Donald Hope, at the age of 84. Mr. Hope was chairman of Henry Hope & Sons Ltd., metal window manufacturers, of Smethwick, Birmingham, a position he had held since 1909, when he succeeded his father.

He was educated at King Edward's School, Birmingham, and Wolverhampton Grammar School, and he joined the family business on leaving school. After marrying, in 1900, he became a director of Kynochs Ltd. Later he became a director of Nobel Industries and remained so until that firm was merged with Imperial Chemical Industries.

He leaves a son and a married daughter. A second son was killed in the Battle of Britain. Maxwell Ayrton writes:—

This will leave a great blank in the minds of Donald Hope's many friends and business associates. I met him first in 1918. He was greatly interested in a movement to provide smallholdings and cottages, and I believe was among the first to design and manufacture standard steel casements of various sizes for this particular branch. He brought to it, as in all his work, an intense energy combined with a business acumen which never failed him. He established almost a monopoly in steel and bronze windows and casements throughout the USA, in addition to the magnificent works in Birmingham.

In all his strenuous work he was never satisfied with anything less than the highest stan-

dard, always giving his close personal attention—never sparing himself. I can recall many instances which gave one complete confidence in his ability to probe to the heart of a technical problem and find the solution.

This, combined with his great charm of manner and genuine friendship, makes one's memory of him a very happy one.

CORRECTION

Dr. Sharp Mis-represented

We regret that in a discussion on vertical living in last week's JOURNAL, Dr. Thomas Sharp was mis-reported as saying that "no one seems to know" how "these figures (for acreages of land requirements for building development) were arrived at." Dr. Sharp was, in fact, referring only to the figure for school playing fields.



Four houses, to be sold at £1,150 each have been built on Stopeley Estate, Luton, Beds. by H. C. Jones Ltd. of Luton. Each house has a living-room, kitchen and bathroom on the ground floor and two bedrooms upstairs.

DIARY

RIBA Library Group Meeting. Identification of drawings by unknown artists, or of unknown buildings, 66, Portland Place, W.1. 6 p.m.

MARCH 9.

The Lighting of Office Buildings. Discussion opened by P. V. Burnett. At Royal Society of Arts, John Adam Street, W.C.2. (Sponsor: IES.) 6 p.m.

MARCH 10.

The High Paddington Scheme. Sergei Kadleigh. At RSA, John Adam Street, W.C.2. 2.30 p.m.

MARCH 11.

Bad Housing and Juvenile Delinquency. Basil L. Q. Henriques. At the Student Planning Group, 28, King Street, W.C.2. 6.30 p.m.

MARCH 12.

Coronation Souvenirs. At Tea Centre, 22, Regent Street, S.W.1. (Sponsor: COID.) Weekdays 10.30 a.m.-6 p.m. Saturdays until 12.30 p.m.

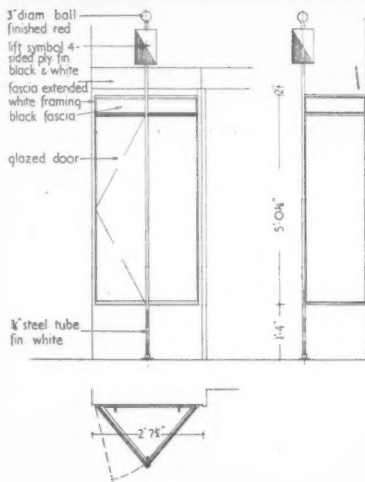
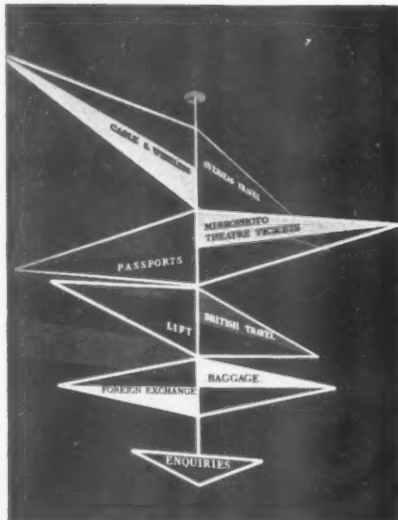
UNTIL MARCH 13.

Compare and Choose. Exhibition of home furnishings. At Charing Cross Underground Station, W.C.2. (Sponsor: DIA.) Weekdays 10 a.m.-8 p.m.

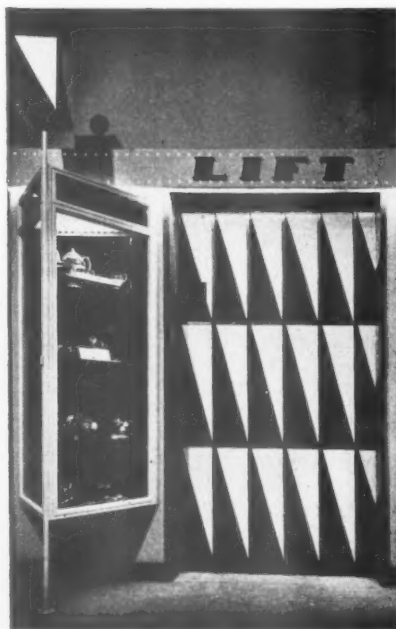
UNTIL MARCH 21.

Mock Arbitration. Admission by ticket only. Applications for tickets should be made to the Secretary, RIBA, marked "Mock Arbitration" in top left-hand corner. Until March 20, tickets will be reserved for members and students, in order of application. Available generally after this date. At RIBA, 66, Portland Place, W.1. 6 p.m.

MARCH 27.



Plan and elevations of showcase
[Scale: 4" = 1'0"]



The subject of preservation of buildings of historic and architectural interest is as topical today (Osbert Lancaster was talking to the AA about it this week) as it was when the JOURNAL sponsored a discussion on it some months ago. We print below a few of the important points made during this discussion.

PRESERVATION

John Summerson, the architectural critic and curator of the Soane Museum, made a number of provocative remarks on various aspects of preservation.

John Summerson : There is a philosophical basis for the whole question of preservation, and that has never been explored. Why are we preserving these buildings? It is a most astonishing thing. Before the war, public opinion accepted that certain major buildings which were sufficiently antiquated, and of sufficient historic interest, should be preserved. Then, quite suddenly—after the war—public opinion has supported the most enormous programmes, including the preservation of every decent old house of the 18th century and a great many of the 19th century buildings also. They are put down on the Ministry lists, and really the whole thing raises the gravest problems. To what extent does this widespread feeling (I think one must admit that it is widespread) arise from the shock resulting from the rapid social changes, a sense of nostalgia arising from a sort of fear of the future? To what extent does it arise from the absolute failure of modern architecture to satisfy the imagination of the ordinary person? Those two points are very important indeed, and I think they have a great bearing on the subject, because what is before us now, the question of the preservation of some 70,000 to 100,000 buildings, is one of the most quixotic and most extraordinary things every heard of. I confess that when, after the war, I had something to do with this business I thought the limit to which one should go would be the preservation of buildings of outstanding artistic importance (putting artistic very much before anything else), our great buildings by really outstanding personalities of the past. I have always been slightly uneasy about the whole movement going far beyond us and taking in these tens of thousands of buildings—of great charm, certainly, but of rather doubtful artistic importance. The listing was undertaken on a very comprehensive scale—perhaps too comprehensive—but we simply do not know where we are until

the lists are complete, because a great deal of statistical work needs to be done on these lists. We want statistics which show the number of premises that can be expected to continue a useful life for a matter of fifty years, like houses in terraces and a great many other examples in these lists. I think this is one of the most important points. Until the lists for the whole of England have been completed and most carefully analysed, we simply do not know where we are. We are largely in the dark about the shape and size of the problem. The lists need finishing and analysing. One point which might be worth bringing out is this: in making these lists, do the investigators make any notes about the condition of the buildings? That would be rather valuable in making any statistical survey from them.

One might even ask whether the lists are being prepared in such a way that a realistic analysis will be possible. What do we want to know? We want to know, for instance, what proportion of these buildings are likely to continue their normal life and not become a burden on the State and which of them will become a burden.

One idea that often occurs to me is this. Sir John Soane made a most interesting arrangement. He left his house, with everything in it, as a museum, and a curator was to be put in and maintained at a moderate salary, and all the curators have written quite substantial books on architecture.

There are a lot of promising young writers about who might benefit by being put in charge of these places, which would not be visited by great crowds, perhaps, but would always be accessible to people motoring about the country. If these young writers were put in charge of these places, they could divide their time between looking after the houses and pursuing some literary activity. It is a question of patronage.

R. Fedden is secretary of the Historic Buildings Committee of the National Trust.

R. Fedden : Speaking in a purely personal capacity, and not for the National Trust, I think that, as soon as the economic question arises, the difference in the cost of maintenance of a building when it is maintained by the Ancient Buildings Preservation Trust or by the National Trust and when it is maintained by the MOW is something that one has to think about. No country in the world, however rich, could afford to maintain 70,000 buildings. One of the difficulties in the past has been that when works were scheduled ancient monuments by the MOW they were scheduled for all time, and if they were blitzed or destroyed they still remained ancient monuments, and there was no way out of that. I think it probable that some provision will be made to get out of that difficulty, but what seems to me

the sensible thing is to schedule buildings for fifty years, and then bring them up for review.

It is my impression now that the tendency is probably to schedule too many unimportant Georgian buildings and to miss the later buildings. It seems to me very important indeed that the principle of a time limit and a review of the lists should be accepted. I think it is a great mistake that because a building is once on a list it should always be on a list.

M. V. Osmond spoke at this discussion as assistant secretary of the CPRE.

M. V. Osmond : The lists are nothing if not negative in their approach to preservation. The whole grouse of some of us about practically everything that has happened so far in the field of building preservation is that it is negative and that there are ample provisions for preventing all sorts of people from pulling buildings down or altering them, but there is absolutely no provision for enabling them to be preserved, and there is no suggestion at all that listing a building (even in Grade I) carries any implication of positive maintenance.

Langley Taylor, who had strong views about the need for owner-maintenance of old buildings, spoke as vice-chairman of the CPRE.

Langley Taylor : I think we are up against a very big problem unless we can persuade the government to encourage the owners to do the work of preservation by giving them taxation relief. I do not see any other way in which the work can be done. If in a particular case it is desired that a house should be kept, perhaps about £10,000 would have to be spent on it. It is no good asking the government to provide half the cost, because when you have got 100,000 properties to be dealt with the money is not going to be available, but you could give the owner taxation relief. The work should be cheaper if it is done by the individual owner because he probably knows the house better. From the practical point of view, it makes a great deal of difference. If you pitchfork somebody into a place he does not know he cannot handle that place as well as the man who has known it for twenty, thirty, forty or fifty years. What we really want is a voluntary panel of competent architects and builders who will "vet" the scheme locally. I am thinking of our CPRE and RIBA central panel scheme, which in some places was very helpful, and in other places was not used at all, but I think it would be of infinite advantage if the government could be persuaded to get a voluntary panel; I use the word "voluntary" deliberately, because I hate the official architect approach in subjects of this sort; it is not the right approach.

OFFICES

for TIME-LIFE INTERNATIONAL

at 153-7, NEW BOND STREET, LONDON, W.1.

designed by MICHAEL ROSENAUER

co-ordinating designer for the interior, SIR HUGH CASSON

in association with MISHA BLACK of DESIGN RESEARCH UNIT

The Time and Life Building in Mayfair houses the British editorial staff, advertising offices, circulation and subscription services of Time-Life International. It is to be the main European headquarters of the firm. In November, 1951, it was decided, in co-operation with the architect, to commission Sir Hugh Casson and Misha Black to direct a representative group of Britain's foremost artists and designers to work on the project in order that the completed offices might be an example of a wide range of British design and craftsmanship. As the results of this experiment have aroused some controversy we take this opportunity of dealing with the building very fully so that readers may judge for themselves.

The Time and Life Building from the south-west.



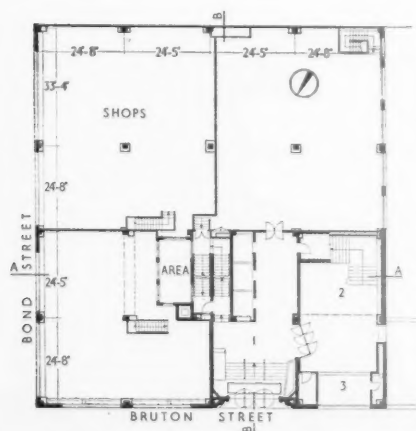


The main entrance in Bruton Street. The nickel bronze sculpture over the doorway represents communications and is by Maurice Lambert.

OFFICES

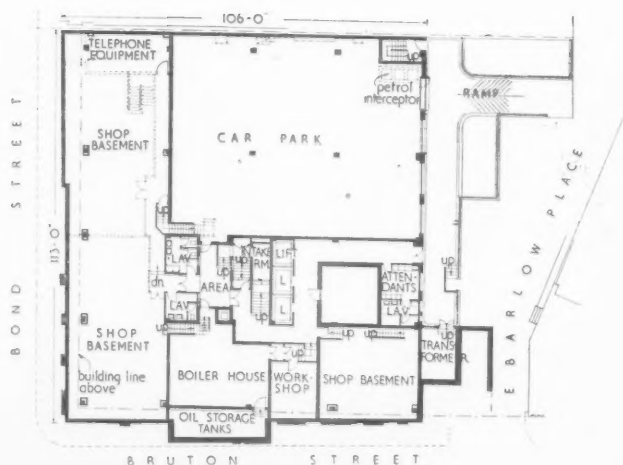
at 153-7, NEW BOND STREET,
LONDON, W.1

designed by MICHAEL ROSENAUER
co-ordinating designer for the interior, SIR
HUGH CASSON
in association with MISHA BLACK
of DESIGN RESEARCH UNIT



Ground floor plan

- KEY
- 1 Lift hall.
 - 2 Entrance hall.
 - 3 Weather window.



Basement plan (Scale: 1/8" = 1' 0")

SITE AND PLAN.—The 14,110 sq. ft. site is on the south-west corner of New Bond Street and Bruton Street. There are seven floors; average height of the building to street frontages is 69 ft. The basement contains a garage of 4,160 sq. ft. The ground floor of 8,810 sq. ft. contains the lift hall and entrance hall. The remaining space on this floor is to be let to an airline company. There are 37,630 sq. ft. of floor space on the first to sixth floors. By the placing of two staircases in the centre, in a scissor pattern, and combining lifts and lavatories in the central core, 86½ per cent. of the floor area has been made available for offices. The reception rooms, conference room and mail room are situated on the first floor. The advertising department occupies the second floor and the editorial department the third floor. The fourth and fifth floors are to be let separately. The sixth floor is occupied by the cafeteria, executives' dining room, kitchen and rest rooms. There are terraces on the first, second and sixth floors. The building is planned on a 25-ft. grid with three bays facing New Bond Street and four bays facing Bruton Street. There is an additional wing, facing New Bond Street at ground-floor level. Part of this wing is brought to first-floor level and is topped by a screen, taking the entire height of the second floor, to be sculptured by Henry Moore.

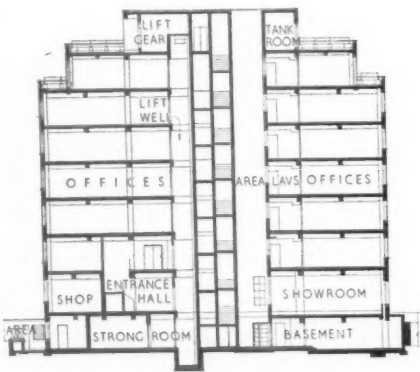
CONSTRUCTION AND FINISHES.—Frame and staircases of R.C. Floors, hollow tile; windows, purpose-made aluminium; external facing, Portland stone to upper storeys, Travertine marble to ground storey, polished granite plinth. The main entrance has a stainless-steel surround; doors are of armourplate glass. The lift hall on the

ground floor is paved with Travertine and Derbydene marbles; floors of office areas, polished cork tiles; ceilings of office areas, acoustic tiles; internal staircases and lavatories, terrazzo paving.

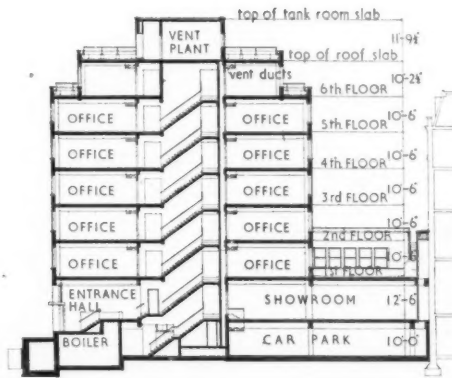
SERVICES.—There are three high-speed fully-automatic lifts serving all floors. Space heating is by flush-panel radiators under windows and in corridors, supplemented by a temperature-controlled ventilation system which, in hot weather, circulates cooled air. Shop areas and the entrance hall are heated by radiation from ceiling panels; the lift hall has floor panels in addition. Lavatories are placed in the central core, together with the lifts and staircases, and are ventilated by an internal air shaft. The general contractors were Holland & Hannen & Cubitts, Ltd. A list of sub-contractors appears on page 323.



The façade facing New Bond Street and Bruton Street.

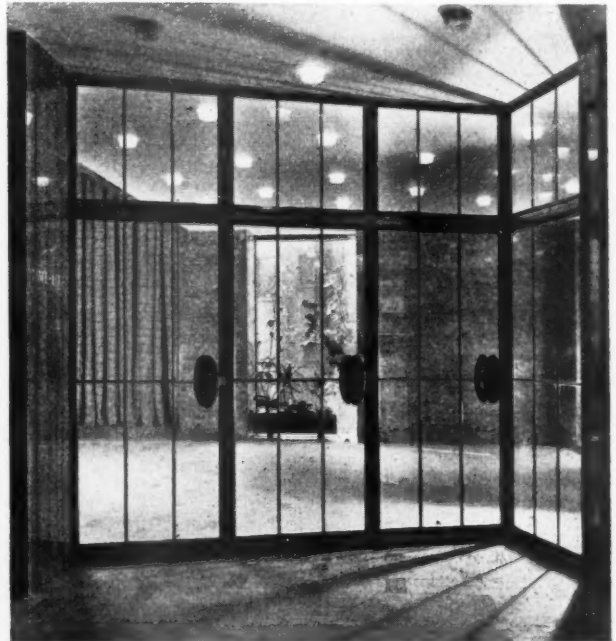


Section A-A



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

Below left, the ground floor lift hall; the walls are lined with Derbydene marble. Below, the fire-resisting doors separating the lift hall from the entrance hall.





Offices in New Bond Street, W.1.

ENTRANCE HALL AND RECEPTION ROOM

designed by SIR HUGH CASSON and MISHA BLACK

in association with MICHAEL ROSENAUER

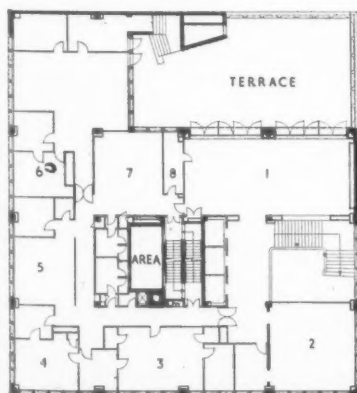
assistant designers, ELLIS MILES, JOHN DIAMOND

Above, the entrance hall at the back of the weather window, designed as a permanent exhibit to show passers-by local weather conditions and weather throughout N.W. Europe; below, looking towards the staircase leading to the reception room. On the left is a model of the sculptured screen which is being executed by Henry Moore for the New Bond Street façade.

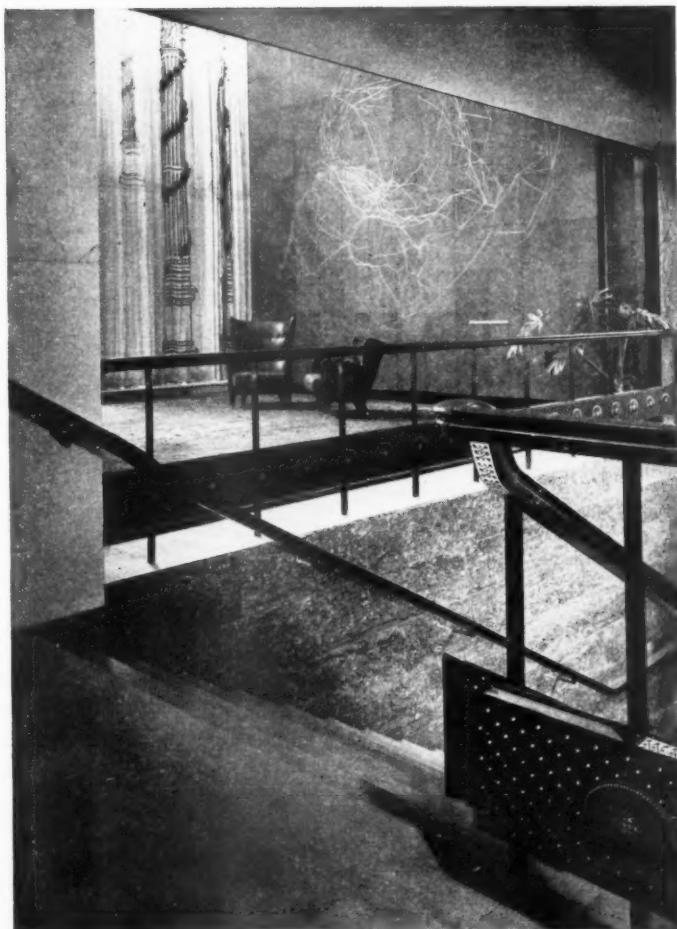


The reception area consists of an entrance hall with access from the lift hall. A staircase leads to a landing on the first floor which opens on to the reception room, one wall of which is almost fully glazed. The reception room is two floors deep and has a balcony at second floor level. Principal feature in the entrance hall is the weather window. It was designed as a permanent exhibit by James Cubitt and Partners (assistant, Peter Gray) to show passers-by local weather conditions and weather throughout north-west Europe. Materials used throughout the area are Paroba veneer and mahogany and Derbydene, Ashburton and Travertine marbles. The principal feature of the reception room is a communications map by J. Beresford-Evans. Submarine cables, shipping routes, roads, railroads, air routes and radio stations are represented on a modified oblique Mercator projection of the world. It was carried out in booktooling technique, using white kangaroo skin, blind tooling and gold tooling on a surface of Nigerian morocco of which 145 skins

were used. A sculpture at the top of the staircase, by Geoffrey Clarke, is wrought in mild steel in semi-relief against a marble fronted column. A non-representational painting on a gesso ground by Ben Nicholson is placed on the first floor wall over the staircase. The 20-ft. high curtain in the reception room was designed by F. H. K. Henrion. The design is an enlargement from an old engraving; the 16-ft. high columns are printed in black on unbleached material, the 8-ft. high columns in grey on bleached material. Two yellow bands at the base and one band supported by the capitals provide a horizontal link. The suspended lighting panel in the reception room and the applied panels to the stair handrail were designed by R. Y. Gooden. Both are tooled and brass-studded artificial leather. The clock over the desk was designed by Robin and Christopher Ironside; the clock face is on a representation of an Armillary sphere on which is engraved the signs of the zodiac; the figures grouped round it are an American eagle, a British lion and a figure of Time, in carved gilded wood. The design of the two carpets, by Ronald Ferns, is based very freely on various 18th and 19th century English flower prints, linked with fronds and foliage. Both were hand-woven at Wilton. The armchairs and magazine tables were designed by R. D. Russell. The chairs are of shell form and are covered with black cowhide; the seat cushions are covered with brown goatskin. The cherrywood magazine tables have inset tops and legs covered with goatskin. The stoneware ashtrays were designed by Lucie Rie and Hans Coper. The dark-green silk shaded floor lamps and wall brackets were designed by Sir Hugh Casson and Misha Black. The terrace is to be landscaped by Peter Shepherd, and Ernest Race has designed welded steel rocking chairs and nesting occasional tables for it.



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



Above, two views of the reception room from the lift lobby.

KEY

1. Reception room.
2. Spare office space.
3. Book-keepers.
4. Company secretary.
5. Subscriptions.
6. Circulation.
7. Mail room.
8. Pantry for reception room.



Offices in New Bond Street, W.1

RECEPTION ROOM

designed by SIR HUGH CASSON
and MISHA BLACK in association
with MICHAEL ROSENAUER
assistant designer JOHN DIAMOND

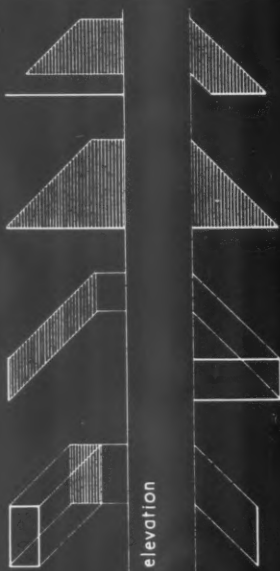
The reception room is designed to give an atmosphere of quality and permanence. This is achieved by the use of the following materials and colours. Woodwork, Paroba veneer and mahogany; marbles, Derbydene fossil, Ashburton, Travertine. Curtains, bleached and unbleached with pattern in black, grey and yellow. Carpets, predominantly green although 40 different colours are used in the design. Suspended lighting panel, tooled and brass-studded artificial leather. Magazine tables and armchairs, black cowhide; seat cushions, cool brown goatskin. The clock was designed by Robin and Christopher Ironside.

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DRAUGHTSMANSHIP | SCIAGRAPHY

I.B55 558.1

The Architects' Journal Library of Information Sheets 405. Editor: Cotterell Butler, A.R.I.B.A.



elevation

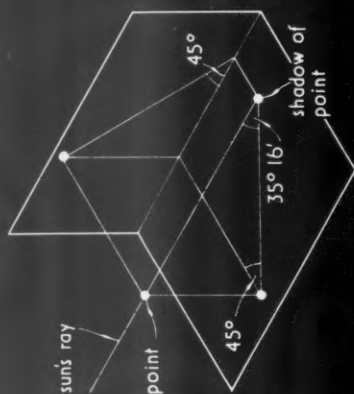
plan

RECTANGULAR PLANES.



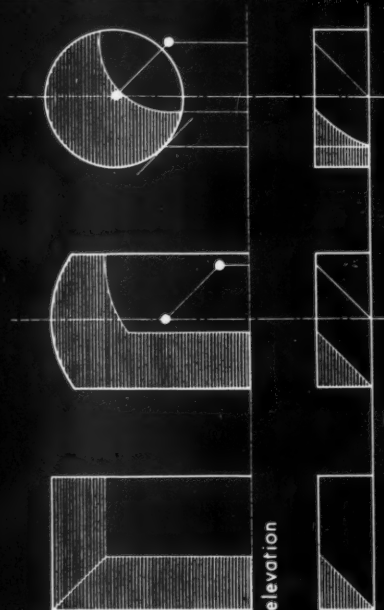
elevation

plan



isometric view

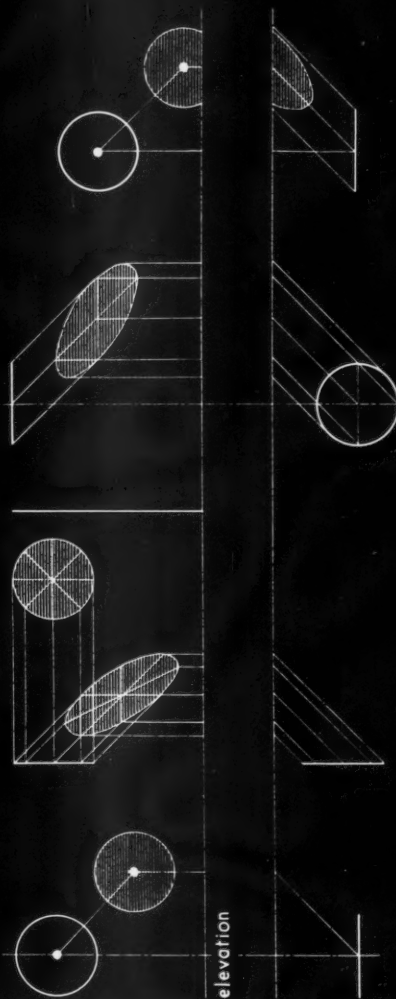
POINTS AND LINES.



elevation

plan

SHADOWS IN RECESSES.



elevation

plan

CIRCULAR PLANES.

SHADOW PROJECTION ON PLANE SURFACES.

1.B55 SHADOW PROJECTION ON PLANE SURFACES

This Sheet, one of a series on sciagraphy, describes the principles of elementary shadow projection and illustrates their application to plane surfaces. The intention is not to give a comprehensive survey of sciagraphy but a brief series of graphic examples.

General

In plans and elevations of a building (or an object) it is frequently difficult to convey its three-dimensional quality by a line drawing. By showing shadows cast on these it is possible to indicate more clearly projections and recesses giving a more realistic appearance to the drawing.

Shadow: A shadow is cast on a surface when the sun's rays are obstructed by an intervening plane or solid.

Shade: Where any surface of an object or building faces away from the sun and receives no direct light from it, it is said to be in shade.

The convention normally accepted is to assume that the sun's rays are parallel and that they fall from the left of the building at 45° in elevation and plan. (This assumption means that the true angle of the sun's rays to the horizontal is $35^\circ 16'$.) Consequently the width of a shadow is the same as the depth of the projection that casts it. The general principle is illustrated in the first diagram on the face of the Sheet in which a point is shown related to horizontal and vertical planes in isometric projection.

Construction Used to Find Shadows of Points

The second diagram shows the point and its shadow in orthographic projection. To find the shadow, lines at 45° are drawn through the point in both plan and elevation. The line which first meets the intersecting line of the two planes is then projected vertically until it cuts the other 45° line. This intersection is the position of the shadow. It will be seen that the shadow of the point will always fall on the plane to which it is nearest.

In finding the shadow of many objects it is possible to work from the plan and elevation only, but in some examples a side elevation is necessary to locate the level of the shadows.

Lines and Planes

The examples of lines in different relationships to the vertical and horizontal planes are worked out in each case by finding the shadow positions of the points at the ends of the line, the line joining them being the required shadow.

Rectangular planes: The shadows of the various rectangular planes illustrated are obtained by finding the shadow position of each angle of the plane and joining these points. Shadows from other shapes such as polygons are found in the same way. When a line or plane is parallel to the surface on which its shadow falls it will be seen that the shadow is identical in size and shape to the line or plane by which it is cast.

Circular planes: In the first example of circular planes the disc is parallel to the vertical plane. Therefore, the shadow cast will be an identical circle and the construction used is to find the shadow position of the centre of the circle from which the shadow is drawn. In the next example it is necessary to draw the side elevation (seen in shade) from which points chosen on the circumference of the circle are projected to the plan and elevation. The shadows of these points are found in the usual way and a line drawn through them gives the elliptical-shaped shadow.

Solids

When casting the shadows of solids, it should be borne in mind that they are composed of planes bounded by lines terminating in points. It is then generally quite simple to work out the shadows from the more elementary examples.

Recesses: Shadows in the recesses are set up by considering the lines and points which bound the openings in the surfaces. For the circular recess, the shadow in elevation is found in a similar manner to that shown for a circular plane parallel to the vertical plane, i.e., by finding the centre of the circle bounding the shadow. The shadow on plan is a curve, but unless drawn to a large scale it is not possible to set this up. Points at each end of the curve may be found by dropping verticals from the elevation, one from the lower end of the shadow on the back of the recess and the other from a 45° tangent as shown in the diagram.

PAMMASTIC* PLASTIC EMULSION COATING*Specification for Interior Work**

Material	Finish	Preparation	Treatment
Old surfaces : asbestos-cement sheeting, brickwork, cement rendering† concrete, hardboard, insulation board, all plasters†	High-gloss paint.	Surface to be matted by glass-papering and loose material removed by scraping.* Clean down.	1st coat : Pammastic. 2nd coat : "
	Other paints or distemper.	Remove all loose material by scraping and glass-papering. Clean down.	1st coat : Pammastic slightly thinned with water. 2nd coat : Pammastic.
	Not previously painted.	Remove all dirt and repair any defects in surface. Clean down.	
	Wallpaper.	Brush down to remove all dirt. Paste down any loose paper.	
New surfaces : as above.	—	Clean down.	
Woodwork and metalwork. (not recommended)	Previously painted.	Preparation as above.	1st coat : Pammastic. 2nd coat : "
	Not previously painted or new work.	Preparation as above.	1st coat : normal primer. 2nd coat : Pammastic. 3rd coat : "

Specification for Exterior Work

Material	Finish	Preparation	Treatment
Old surfaces : asbestos-cement sheeting, brickwork, cement rendering, concrete.	High-gloss paint.	Surface to be matted and loose material removed by scraping and glass-papering. Clean down.	1st coat : Pammastic. 2nd coat : "
	Other paints.	Remove all dirt and loose material. Clean down.	1st coat : Pammastic slightly thinned with water. 2nd coat : Pammastic.
	Not previously painted.		
New surfaces : as above.	—		

* This is very important if the adhesion of the new material is to be faultless.

† With Pammastic it is not necessary to wait for the cement or plaster to become absolutely dry but all excess water should be allowed to evaporate before the paint is applied.

This Sheet describes Pammastic plastic emulsion coating. The tables above give specifications for its application to various types of interior and exterior surface.

General

Pammastic is a plastic emulsion coating consisting of a plasticised poly-vinyl-acetate base and suitable pigments. It dries with a matt surface having a soft sheen which resembles that of flat wall enamel. It is very opaque; two coats will cover any surface and give a solid finish on bare brickwork. Pammastic is fire-retardant as it does not burn.

It can be used for both interior and exterior work and may be applied to plaster, wallpaper, concrete, brickwork, fibreboards or asbestos-cement sheets. It

is particularly suitable for use on new plasterwork, as moisture can dry through the paint film, but it will not prevent efflorescence from plaster or bricks. Saponification will not occur on plasterwork as Pammastic is unaffected by alkalis. It has limited anti-condensation properties which in the average kitchen or bathroom will prevent unsightly streaks of moisture. When applying it to bitumen or asphalt surfaces no special sealer is required to prevent bleeding but care must be taken to see that the surface is sufficiently hard to receive a paint coat. Its application to metal or woodwork is not recommended but if it is used on these surfaces they should first be treated with a normal primer. The paint should never be applied to a very cold surface. Pammastic does not possess the usual paint smell; it has a faint odour which disappears as it dries.

38.D1 · PAMMASTIC · PLASTIC EMULSION COATING

Application

Pammastic is ready for use and requires thinning with a little water only when used on an absorbent surface or as specified for first-coat work in the table on the face of the Sheet.

No primer or undercoat is necessary, except as previously stated on bare wood or metal. The paint can be easily applied with 4 in. to 6 in. brushes, roller or spraying equipment. Owing to the nature of the coating it can be worked for some time, does not show brush marks and any tendency to "slinging" and dripping from the brush is greatly reduced.

A second coat can be applied as soon as the first is dry without any danger of its "wetting up." Normally up to three hours are required between coats but under favourable conditions it may be possible to apply the second coat at the end of one hour. Any splashes should be removed at once before they have time to harden.

Spreading capacity: The spreading capacity of Pammastic is as follows:—

1st coat (porous surface) 60-80 sq. yd. per gal.

1st coat (non-porous surface) 80-100 sq. yd. per gal.

2nd coat (where required) 80-100 sq. yd. per gal.

Colours

The standard colours in which Pammastic is available are listed below, together with their reflectance values which have been determined by the method described in B.S. 1053: 1950, Appendix E.

Colour No.	Colour	Reflectance Value
00	White	83
76	Blush	80
04	Cream	78
74	Pale Rose	76
63	Broken White	75
54	Pale Cream	73
14	Lemon	73
73	Portland Stone	72
75	Mist Green	72
39	Beige	68
55	Deep Cream	66
56	Mist Grey	64
46	Mist Blue	63
71	Mushroom	62
17	Pale Green	60

Other shades may be obtained by mixing one or more of these colours and where reasonable quantities are ordered Pammastic can be made to any desired colour.

Maintenance

It is possible to wash the surface twenty-four hours after the application of Pammastic and to scrub it after one week. Any of the usual detergents and cleaners are suitable for this purpose.

Further Information

The manufacturer maintains a technical and colour advisory service which is available to advise on suitable specifications for, and technical problems relating to, the use of Pammastic.

Compiled from information supplied by:

Blundell, Spence & Co., Ltd.

Head Office: 9, Upper Thames Street, London, E.C.4.

Telephone: Central 2542 (4 lines).

Telegrams: Blunsence, Cent, London.

Works and Office: Sculcoates Lane, Hull.

Telephone: Hull Central 34679.

Branches: Glasgow, Liverpool, Newcastle, West Bromwich.

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Offices in New Bond Street, W.1.

CONFERENCE ROOM

designed by H. T. CADBURY-BROWN

assistant R. W. FINCH

The conference room on the first floor was designed by H. T. Cadbury-Brown, with the assistance of R. W. Finch. The room has two inner and two window walls. The inner walls are panelled with Tasmanian Blackwood and are partly movable on one side to reveal a cork lined pin-up board. The reverse sides of the sliding panels are lined with Lebanon cedar. The windows are curtained with a dark green corded material. Below the

window is a continuous low slab of green Serpentine marble, which can be used as seating should the room be full. The floor is of 4-in. wide Queensland Blackbean with an inset green carpet. The circular conference table is of black ebonised mahogany covered with black calf leather, and breaks down into four parts. Light is thrown upward from prismatic glass reflectors on chromium supports along the window walls; downwards from the concealed fittings.

Below, the subscriptions office. Below right, the mail room; the fittings are of Honduras mahogany.

Above, the conference room. The circular table can be divided into four parts. The sculpture in the window is by H. Henghes.

GENERAL AREAS AND OFFICES

designed by MISHA BLACK and ALEXANDER GIBSON





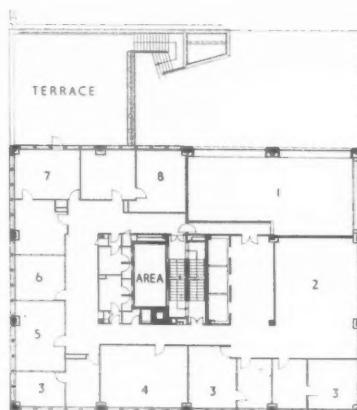
Left, the lift hall on the second floor; the double doors at the end open on to the balcony which overlooks the reception room.



Left, a view of the reception room from the second floor balcony.

The general areas on the first, second, third and sixth floors were designed by Misha Black and Alexander Gibson. They consist of the lift halls, circulation areas, open offices, and individual offices not designed by other architects. Certain areas, containing offices of senior staff and rooms such as the library, permanent stores and coat cupboards, have been divided by breeze partitions. The remaining areas can be adapted to requirements by the use of movable steel and glass partitions. Partial separation (see photos of the subscriptions office and third floor editorial assistants' room) is made with wood and glass screens.

- KEY
1. Upper part of reception room.
 2. Spare office space.
 3. Advertising salesman.
 4. Advertising promotion.
 5. Shipping.
 6. Advertising.
 7. Office of London Director.
 8. Executive officer.



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

Offices in New Bond Street, W.1.

GENERAL AREAS AND OFFICES

designed by MISHA BLACK and ALEXANDER GIBSON

assistant designers SHEILA CLIBBON, NORMAN WHICHELOE,
JOHN BUCKLAND, FRANK BRIGGS



Below, unpartitioned office space and a typical small office.



Above, two views of the office of the London Director.

Offices in New Bond Street, W.1.

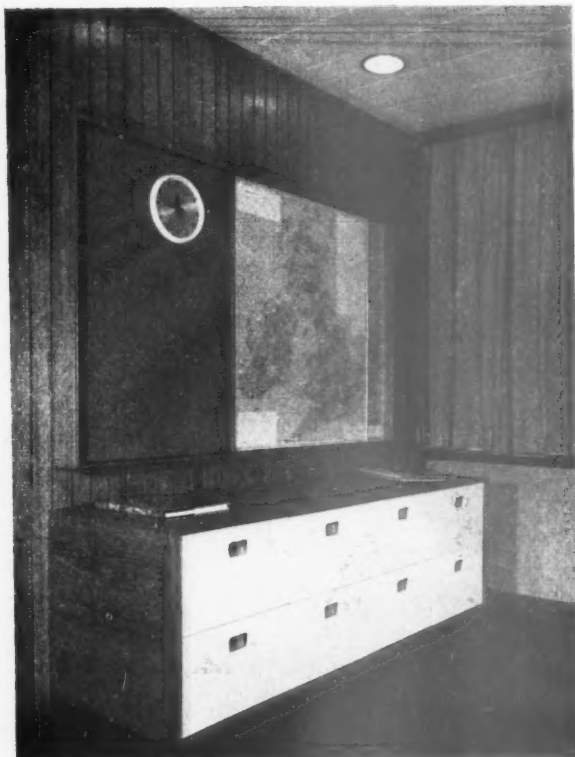
OFFICE OF THE LONDON DIRECTOR

designed by SIR HUGH CASSON and MISHA BLACK
assistant designer, ROBERT MAXWELL

The office of the London Director is on the second floor and was designed by Sir Hugh Casson and Misha Black, assisted by Robert Maxwell. The office faces south and east and French windows open on to a private terrace which is connected by a staircase to the terrace on the first floor, outside the reception room. Below the cill of the other set of windows the radiant panels are concealed by a shelf for books and magazines. Glare is minimised by the use of Venetian blinds and by using a wood of medium tone (Wych elm) for the panelling of the remaining two walls. The surface of this is treated with a rectangular pattern of recessed and ebonised joints along which run centrally painted gilt coach lines. Upon one of the walls is a radio, map, bulletin board fitting, lit by an adjustable ceiling light shaded in dark green silk. The desk and desk chair were designed by Robin Day; the desk is of Wych elm and is topped with grey leather; the swivel chair is covered with black fabric. The carpet is dark seaweed green, the curtains in contrasting tones of bottle and grey green. The ceiling is white, the heating panels are grey and sofa cushions are scarlet and sulphur yellow.

Right, part of the circulation space on the second floor. Right, below, clock and direction board in the second-floor lift hall.





Above, two views of the office of the Deputy Editorial Bureau Chief. The filing cabinet is of Iroko timber with white cellulosed drawer fronts. The mobile storage unit is of the same materials.

Offices in New Bond Street, W.1.

OFFICE OF DEPUTY
EDITORIAL BUREAU CHIEF

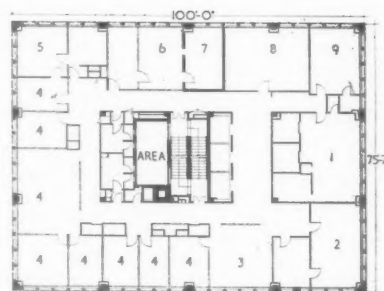
designed by NEVILLE WARD, FRANK
AUSTIN and MARY WARD



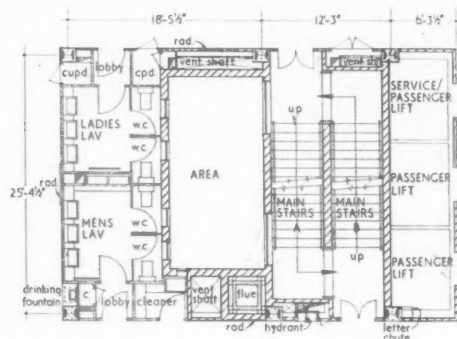
Right, two views of the library. The storage units are placed on runners.

KEY

1. Photographic department.
2. Office of Editorial Bureau Chief
3. Editorial assistants
4. Life correspondents.
5. Deputy Editorial Bureau Chief.
6. Cable room.
7. Teleprinters.
8. Library.
9. Photographers.



Third floor plan [Scale : 1/8" = 1' 0"]

Plan of third floor core [Scale : $\frac{1}{16}'' = 1' 0''$]

The office of the Deputy Editorial Bureau Chief on the third floor was designed by Neville Ward, Frank Austin and Mary Ward. Walls are covered with oiled and wax polished Iroko ; ceiling with perforated acoustic tiling, painted white ; floors with olive green carpet. Windows are fitted with Venetian blinds and acid yellow curtains. The desk is also of Iroko and has an inset black leather top. A mobile storage unit which can be accommodated under one side of the desk supplements the desk stationery drawers or serves as a low table in conjunction with the settee and chairs.



Above, the office of the Editorial Bureau Chief. Right, the same office looking towards conference section.

The office of the Editorial Bureau Chief, on the third floor, was designed (by Robin Day) as an executive's office with a working area, and a conference area for up to 14 people, with a lower ceiling incorporating spotlights over the table. This has a black steel frame, and black linoleum top lipped with ash. The desk is of walnut with a grey leather top. The wall opposite the desk is faced with walnut and incorporates sliding map panels, a concealed television set, and a specially-designed wall clock. The curtains are of a plain yellow woven fabric and the floor is close carpeted with a Wilton in



Left, the lift hall looking towards the editorial assistants' room. The curtain was designed by Edward Bawden.



Offices in New Bond Street, W.1.

OFFICE OF EDITORIAL BUREAU CHIEF

designed by ROBIN DAY

plain clerical grey. The desk lamp and bookshelf fitment, which partly divides the two areas, have also been specially designed. The latter consists of glass shelves slung between two vertical steel angles fixed to the floor and ceiling.



Offices in New Bond Street, W.1.

CAFETERIA

designed by SIR HUGH CASSON, NEVILLE CONDER and PATIENCE CLIFFORD

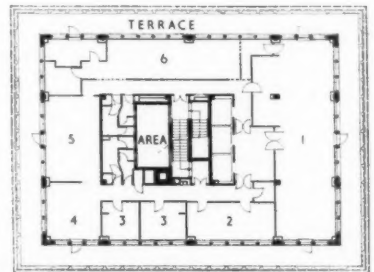
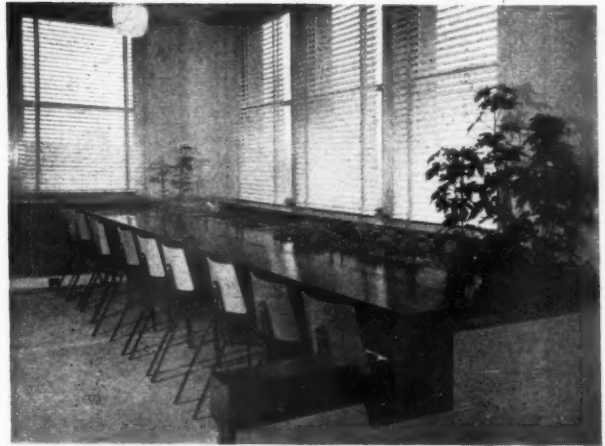
assistant designer ROBIN DUNN

The cafeteria, which is on the sixth floor, seats 54 people. It was designed by Sir Hugh Casson, Neville Conder and Patience Clifford, assisted by Robin Dunn. The room is 56 ft. by 16 ft. and has three window walls. The general layout is governed by the position of the kitchen. A canopy along the fourth wall is built over the servery counter and banquette type seating. Other types of seating include tables for two down the centre of the room, with larger tables next to the windows and a counter for eight people opposite the servery. The terrace can be used in fine weather. The drawings on the underside of the canopy are by Oliver Cox; they

have been photographically enlarged, coloured and then treated so as to become an integral part of the plastic sheeting material. The servery counter, which is designed for self-service, features an automatically-raising dispenser for trays, keeping the level of the top tray constant and a refrigerated glass shelf at the cold counter. Colours and materials are as follows:—floor, white marbled linoleum; panelling, mahogany; curtains (to come), yellow; table-tops, grey-blue plastic; columns and chair legs, stove-enamelled black; upholstery, dark green, black and red tartan.

Above
Right,
the co
counte
and b
Oliver

Right, the snack counter, which seats eight people and has a screen of indoor plants.



KEY

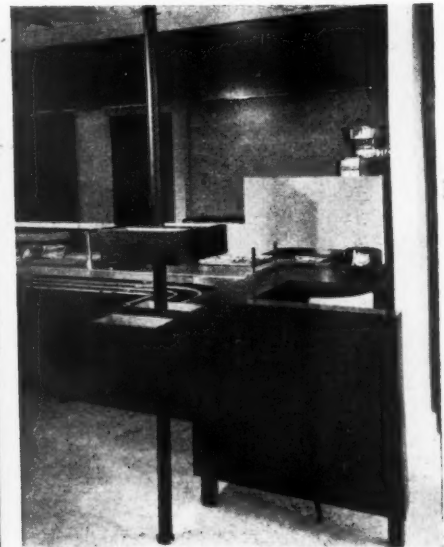
1. Cafeteria.
2. Spare room.
3. Rest rooms.
4. Ante room.
5. Executives' dining room.
6. Kitchen.

Sixth floor plan. [Scale: $\frac{1}{8}$ " = 1' 0"]



The drawing by Oliver Cox on the underside of the canopy directly over the entrance, pointing the way to the servery.

Above, a general view of the cafeteria. Right, the fixed seating. Extreme right, the cash desk at the end of the servery counter. The canopy over the counter and banquette seating has drawings by Oliver Cox on the underside.





Above, a general view of the executives' dining room. Right, part of the end wall backing the ante-room. The marble is green Connemara; the wood is yew.

Offices in New Bond Street, W.1.

EXECUTIVES' DINING ROOM AND ANTE-ROOM

designed by LEONARD MANASSEH and IAN BAKER
of LEONARD MANASSEH AND PARTNERS

The executives' dining room and ante-room on the sixth floor was designed by Leonard Manasseh and Ian Baker; Olive Sullivan acted as furnishing consultant. All furniture and fittings, light fittings and table lamps were purpose made: china, cutlery and soft furnishings were either designed or selected. The wood used for all panelling fittings and furniture

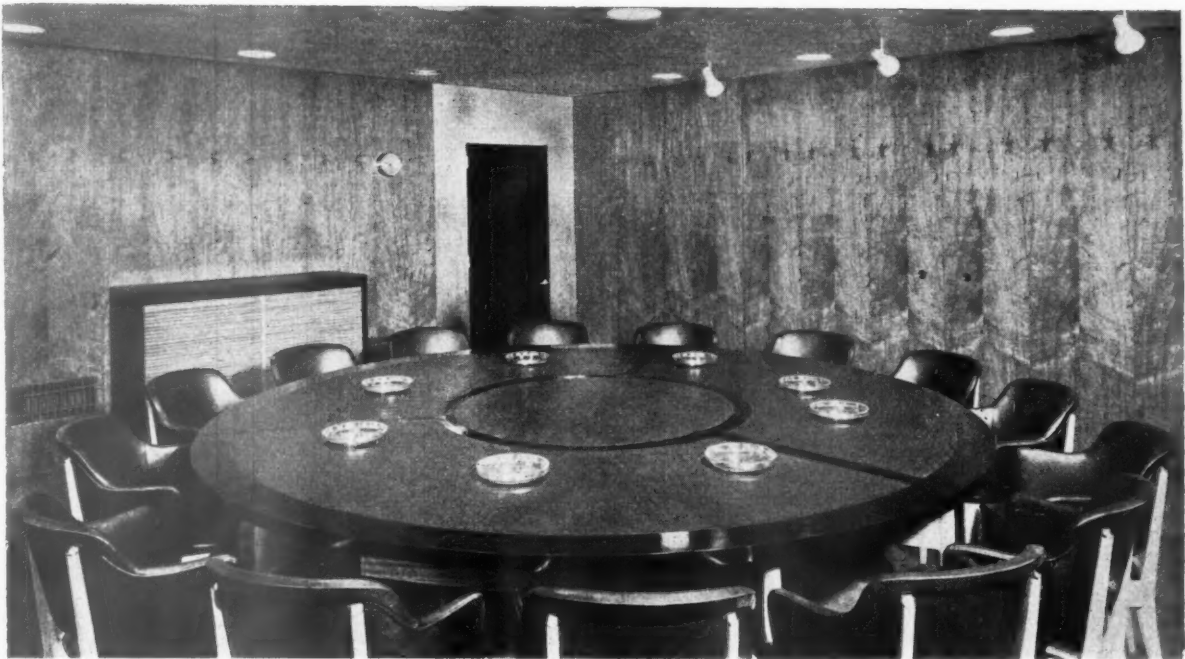


was yew: marbles used were green Connemara marble and white statuary in the dining room. Two sliding panels, on the wall facing the windows in the dining room, slide to each side to reveal an 11 ft. by 8 ft. wall space for temporary exhibitions. The communicating doors between the two rooms are covered with leather, which is also used for the upholstery.

The ante-room to the executives' dining room. The two clocks give London and New York time.

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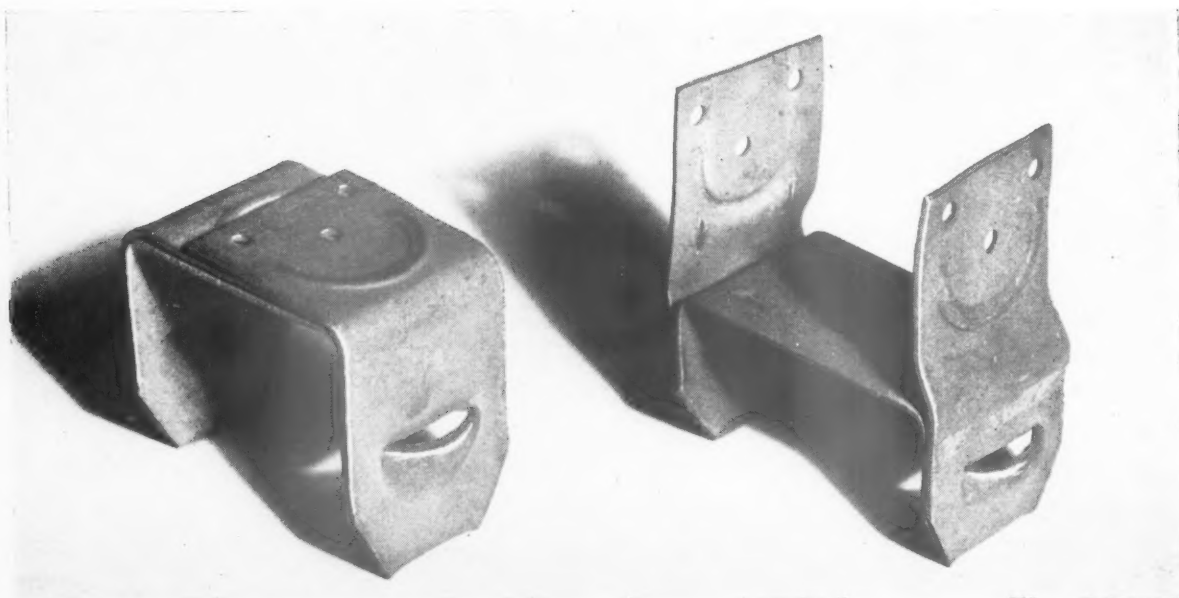
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TECHNICAL SECTION

To the technically-minded, the report of the Bailey Committee* will come as something of a disappointment. It "may be news to many people . . . that if 3 months are required to build the exterior of the typical council house, it may take a further 6 months to complete the interior although it requires only about a third of the man-hours of the whole house." But it should not be news to anyone who has studied the problem of building costs; nor should the "astonishing variation" in the number of man-hours taken for the completion of the whole house (between 1,565 and 4,645, according to a recent BRS survey) come as a surprise to anyone who read Dr. Bronowski's paper to the ECE (December, 1950) on Operational and Statistical Research in Building (reprinted in the JOURNAL for March 29, 1951).

It was Dr. Bronowski's opinion then that "if we could raise the output of the worst 25 per cent. of sites to the national *average*, this alone would add nearly 10 per cent. to the national total of houses built each year."

Most disappointing is the fact that the Committee did not have "time to make an extensive study of the evidence submitted" on "the possibilities of making the fullest use of factory production and assembly for house interiors." The "Schindler" system of house construction (prefabricated interiors, traditional exteriors), first described in the JOURNAL in 1951, has been a great success both here and on the continent. We can only hope that something will come of the committee's suggestion that "the whole subject should be examined in the same way as the MOE have examined prefabrication in relation to schools." (See also leader on page 299.)

* *Quicker Completion of House Interiors*. (HMSO, 1953, 3s. 6d.)

This week's
special feature

17 CONSTRUCTION : GENERAL fire resistance of concrete floors

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.

A report has recently been published which describes tests in America on monolithic concrete floors subjected to fire. It is reviewed below by Specialist Editor No. 14 (Structural Engineering), and the table summarizing the results of the tests is reproduced on page 320.*

American standards for fire tests require that a fire be applied to the underside of a test floor having an area of not less than 180 sq. ft. and no dimension less than 12 ft. The floor must carry a continuously applied load suffi-

cient to cause the maximum allowable working stresses in the structural members. The criterion of failure may be structural (load failure); it may be the passage of direct flame or hot gases through the slab; or it may be a rise in average temperature on the upper surface of the slab of 250° F. or at a single point on the upper surface of 350° F.

* *Fire Resistance of Concrete Floors*. Daniel S. Goalwin. US Dept. of Commerce, Building Materials and Structures Report 134. (US Govt. Printing Office, 1952, 15 cents.)

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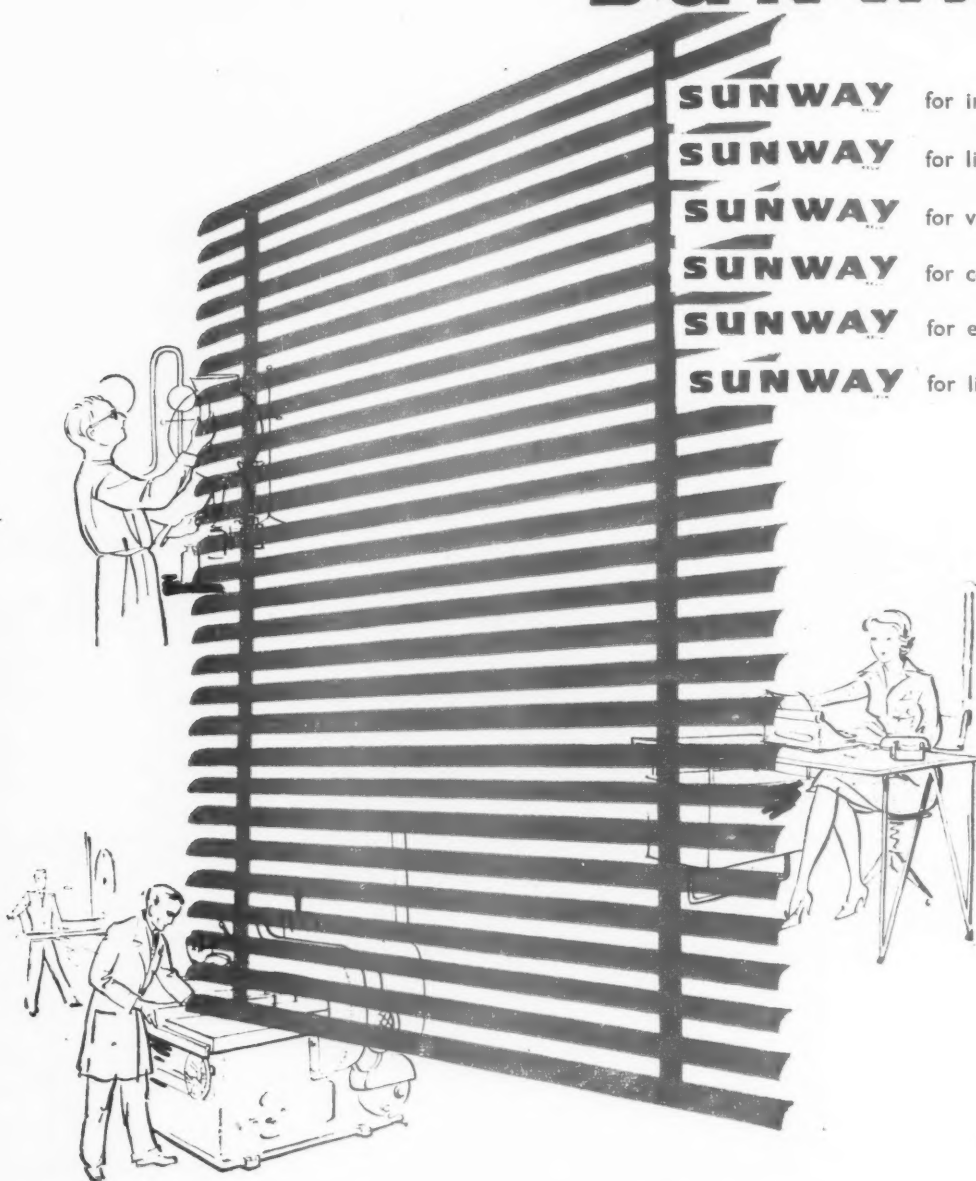
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The full-scale floors tested were 13 ft. 6 in. wide and 17 ft. long; the small-scale floors were 4½ ft. wide and 9 ft. long. They were tested in gas furnaces; high temperatures being achieved by the application of gas burners below the floor.

THE EFFECT OF THE AGGREGATE

Two main types of aggregate were used: calcareous (limestone or slag) and siliceous (gravel or quartz). The former have lower coefficients of expansion, and slabs made with them may be expected to have smaller deflections in the direction of the heated surface. The temperature rise will be smaller due to the lower thermal conductivity. Large changes in volume take place as the result of chemical changes in chert or quartz at relatively low temperatures, but the chemical changes in calcareous aggregate con-

crete are endothermic, thus tending to retard the temperature rise. The entrapment of water or water vapour in the more impervious concretes may cause expansion, and hence the flaking off of the concrete, although a higher moisture content will tend to retard the temperature rise.

THE EFFECT ON THE REINFORCEMENT

The effect on the reinforcement has not been investigated thoroughly, but it is obvious that, if the protection is inadequate, the temperature rise in the bars may be such as to cause failure due to a decrease in yield strength, even though the temperature on top of the floor has not risen the necessary amount to cause failure by temperature rise. An average rise of 1,000° F. in the reinforcing steel, or of 1,200° F. at a single point, is considered critical, as the yield strength of carbon steel at

1,000° F. is only about half its value at 75° F.

The effect of lateral restraint of the slabs is to set up stresses which may result in flaking of the concrete; in the un-restricted floors the only expansion stresses are due to the thermal gradients. Various thicknesses of slab were tested to determine the relationship between slab thickness and fire resistance. Fire endurance may be considered as varying as the slab thickness varies in the proportion of 1:7:1.

A complete summary of the tests is given in Table I (fire intensity is defined as the ratio of actual temperatures to standard temperatures, integrated over the period of the test).

The effect of a properly-designed ceiling, in increasing fire resistance, can be seen by comparing floors 27A and 29A, and floors 48 and 49.

TABLE I.—SUMMARY OF FIRE-ENDURANCE TESTS OF REINFORCED-CONCRETE FLOOR CONSTRUCTIONS¹

Floor or slab	Construction ²						Test data ³				
	Thickness	Type	Concrete			Reinforcement		Age	Fire intensity	Failure ⁴	
			Mix cement: sand: aggregate, by volume	Compressive strength	Thickness protecting reinforcement	Size	Spacing			Criterion	Time
	In.			Lb./sq. in.	In.	In.	In.	Days	Per cent.		Hr. min.
25A	4	Monolithic slab	1: 2: 4	2,370	½	¾	7	30	88	Steel temperature ..	1 27
										Surface temperature ..	1 34
										Load ..	1 46
26A	4	do.	1: 2½: 4½	3,000	1	¾	7	30	95	Temperature ..	1 13
										Load ..	1 15
27A	3½	Monolithic slab plus ½-in. gypsum plaster on lath on underface	1: 2: 4	2,810	½ (bars laid on lath)	¾	7	28	103	Steel temperature ..	1 10
										Surface temperature ..	1 21
										Load ..	1 41
29A	4	Monolithic slab	1: 2: 4	2,830	1 ¼	¾	7½	38	956	Temperature ..	1 25
										Load ..	1 28
										Steel temperature ..	1 44
30A	5	do.	1: 2: 4	1,790	1	¾	6	32	98	Load ..	1 52
										Surface temperature ..	2 00
31A	6	do.	1: 2: 4	2,020	1	¾	4½	39	103	Load ..	1 55
										Temperature ..	2 35
										Steel temperature ..	2 05
35A	6	do.	1: 2: 4	—	1	¾	5½	33	95	Load ..	2 07
										Surface temperature ..	2 47
38A	8	do.	1: 2: 4	—	1½	¾	4½	—	100	Steel temperature ..	2 30
										Load ..	3 38
70A	3	Slab on precast concrete joists; embedment 1 in., spacing 36 in. ⁵	1: 3½: 4½	2,500	½	(6 gauge wire fabric)	—	33	96	Surface temperature ..	4 40
										Temperature ..	0 38
71A	3	do.	1: 3½: 4½	2,500	½	do.	—	30	93	do.	1 00
								41	100	do.	0 43
72A	3	do.	1: 3½: 4½	2,500	½	do.	—	150	—	do.	0 50
										Steel temperature ..	2 38
										Surface temperature ..	3 08
37	6	Slab cast monolithic with beams and girders	—	2,100	1	¾	8	26	100	Average surface temperature ..	3 27
										Spalling ..	6 00 ⁶
47	2½ 3	Slab on precast concrete joists; thin portion, embedment ½ in., spacing 2 ft. 5 in.; thick portion, embedment 1 in., spacing 2 ft. 10 in. ⁵	1: 2½: 3½	4,750	½ (thin portion) 1 (thick portion)	¾	9	21	83	Spalling ..	0 34
48	3	Slab on precast concrete joists with ceiling of ½ in. gypsum wallboard; 1 in. embedment, spacing 3 ft. ⁵	1: 3½: 4	2,760	½	6-gauge wire fabric	—	28	93	Load ..	0 57 ⁸
49	3	Slab on precast concrete joists (same as 48 but no soffit protection and reinforcement placed higher in joists) ⁵	1: 3½: 4	2,740	½	do.	—	28	90	Steel temperature ..	0 44
										Surface temperature ..	0 48
										Load ..	0 57

¹ Floors 37, 47, 48 and 49 were 13½ ft. by 17 ft. in horizontal area; all the others were 4½ ft. by 9 ft.

² All slabs were of gravel aggregate. Potomac River gravel mineral content: vein quartz 21 per cent., mica 4 per cent., quartzite 38 per cent., sandstone 23 per cent., chert 12 per cent.

³ All floors, except 70A, 71A and 72A, were loaded to 20,000 lb./sq. in. nominal stress. These three were not loaded.

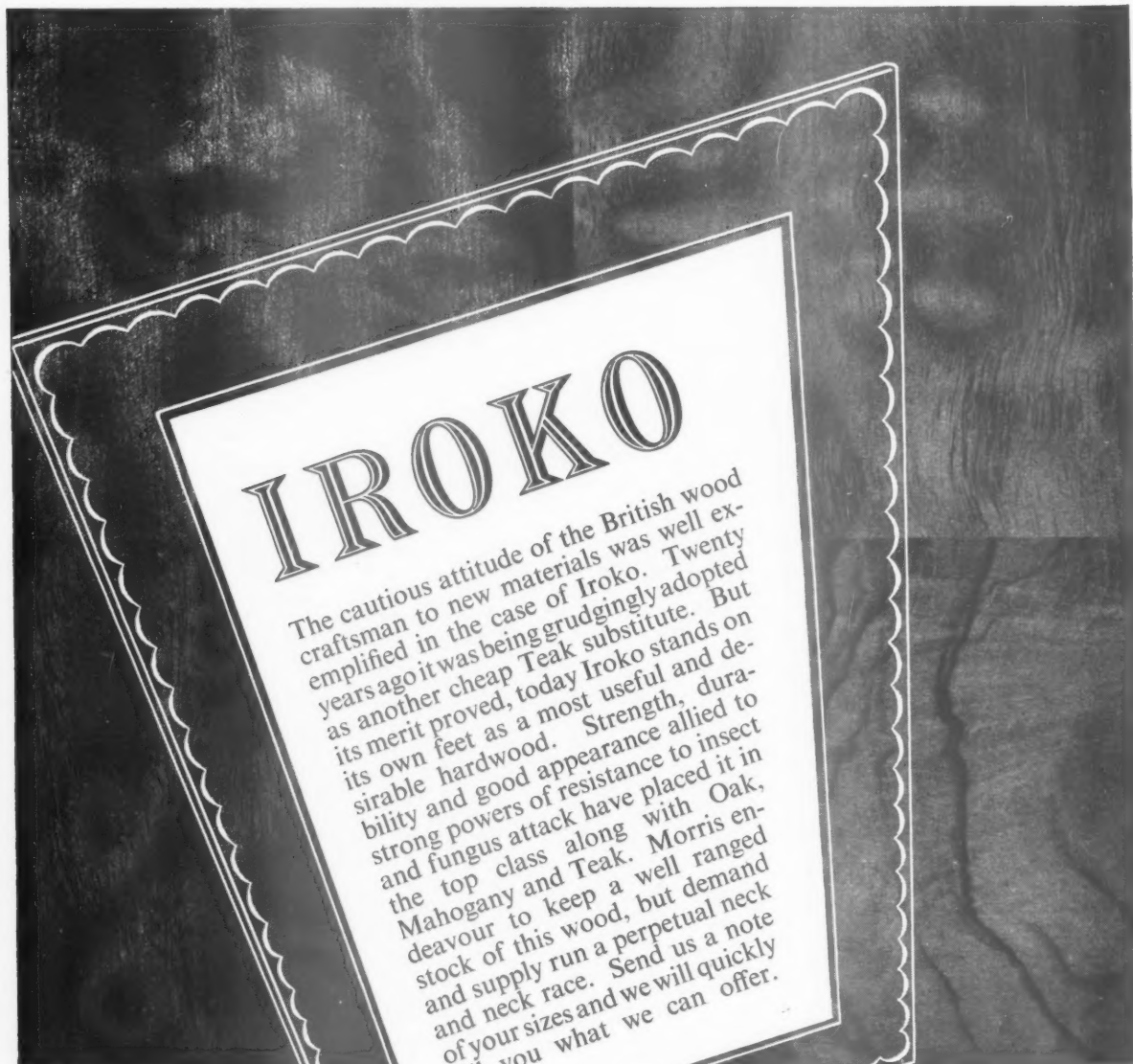
⁴ All failures by temperature rise were by average rise on unexposed surface, unless otherwise indicated.

⁵ The tensile reinforcement in the joists consisted of 0.5-in. diameter deformed bars, the compressive and web reinforcement of 0.265-in. diameter rods. The strength of concrete in joists was 2,290 lb./sq. in.; deflection 0.42 in. at 162 lb./linear ft.; yield load, 415 lb./linear ft.

⁶ At one point only.

⁷ No failure of beams at 6-0 hr.

⁸ Temperature rise limit not reached at 1 hr. 10 min.



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Regulations for the fire-protection of buildings, such as the recently published LCC and model byelaws, depend on reliable fire-grading of the materials, including non-traditional materials, used in building. Post-war Building Study No. 29 (reviewed below), together with its predecessor PWBS No. 20,† contains the necessary data, and was, in fact, largely used as a basis for the new byelaws.*

FIRE GRADING OF BUILDINGS

The publication of Post-War Building Study No. 29 completes the work of the Fire Grading of Buildings Committee, the first part of whose report (PWBS No. 20) was issued in 1947. The latest report is in three parts (numbered II-IV) dealing respectively with Fire Fighting and Detection Equipment, Personal Safety—largely “means of escape”—and Chimneys and Flues. The document is a technical report, and, with Part I, provides a comprehensive treatise on all aspects of structural fire protection in buildings. In the foreword to the report, the committee draws attention to the need for a code of practice, realizing that the report is not in a form suited for use in day-to-day work.

In Part II, after discussing forms of fire detection and fire fighting equipment to be installed in buildings, reference is made to requirements for access of the 50-ft. escape and turntable ladders—points of importance to architects in laying out buildings on the site. Diagrams illustrate the main features.

Part III, which occupies about two-thirds of the report, includes, in Section I, certain general structural precautions relating to personal safety that should be taken in the design of buildings. Some of these have the effect of modifying the recommendations in Part I and include certain size limitations relating to residential and other buildings in which considerations of personal safety necessitate reductions in the sizes recommended in Part I. But by far the greatest space is devoted to a detailed study of the problem of means of escape. It includes a critical review of existing practice in this country and abroad, and the recommendations will be of importance in re-

ducing the wide variations in practice throughout the country.

Part IV, dealing with chimneys and hearths, covers a field distinct from that in the other parts, but one that is of obvious importance. By continuous reference to American publications this part emphasizes the lack of precise data on the fire protection aspects of chimney construction in this country.

The addendum is of particular interest in that the question of wood shingles is once more discussed, but the committee does not depart from their earlier views. There is also a reference to the use of combustible transparent plastics for roof lights. The committee takes the view that they should not be used; but architects may find it necessary to take into account other aspects than those of fire protection and balance the risk against these other advantages.

Seven diagrams from PWBS No. 29 were reproduced in the Technical Section for Feb. 12, 1953.

INFORMATION CENTRE

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

14.57 materials: concrete BLAST-FURNACE SLAG

Air-cooled Blastfurnace Slag Coarse Aggregate for Concrete. BS 1047:1952. (British Standards Institution. 4s.)

Revision for War Emergency Standard. Now in line with other BS for concrete aggregates. Includes a type suitable for “no-fines” concrete.

16.96 materials: miscellaneous BRICKWORK

Modern Research in Load-Bearing Brickwork—2. Norman Davey. (The Brick Bulletin. Vol. 2. No. 4. 1952.)

Second part of general article on results of BRS research. (See Information Centre item 16.90:4.9.52 for first part.) Deals with loading on cavity walls and the effect of wall ties; walls under combined vertical and lateral load and walls under impact; the stiffening of frames by brickwork panels; and reinforced brickwork. The section on stiffening of frames is interesting but it seems that work on this subject is still in progress and that it is too early yet to give quantitative results, though it can be foreseen that ultimately the investigations are likely to lead to useful savings in the design of frame buildings. The work on reinforced

brickwork has helped in steel economy, but whether this will prove of general interest beyond the present period of serious steel shortage is questionable.

18.120 construction: theory FIRE PRECAUTIONS

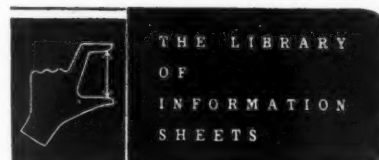
Fire Precautions in Small Halls used for Entertainment Purposes. (Fire Protection Association. 1952.)

11-pp. booklet giving simple and clear directions for fire precautions in halls for up to 200 people. Deals with heating, lighting, escapes and appliances, and a method of treating curtains and scenery for retarding flame spread. A useful little booklet. Architects would be doing a valuable service if they sent a copy to the authorities responsible for any halls with which they may be connected.

19.160 construction: details BRICKWORK

Load-Bearing Wall Construction. T. P. O'Sullivan. (RIBA Journal. Oct. 1952.)

An examination of the feasibility of using the method given in Code of Practice III of designing high buildings in load-bearing brickwork. The author concludes that for the cellular type of building 11-storeys in load-bearing brickwork are quite feasible and that, by using cross walls at 15-ft. centres, the brickwork could be as little as 11-in. cavity work. A number of interesting points on planning and use of materials are discussed.



33.Q3 and 44.D1 REFERENCE BACK
Readers are asked to note the following addenda and to include these on their copies of the Information Sheets in question:

33.Q3.—*The syphons fitted to the troughs may now be obtained with the piston chamber moulded in polythene to which the water acts as a natural lubricant. It is unaffected by corrosive acids and alkalis and is therefore suitable for use where these are present in the water.*

44.D1.—*Reverse of Sheet—Under the heading “Applications” and subheading “Plaster,” after the words “pressed steel channel strip” insert “($\frac{3}{8}$ in. by $\frac{7}{8}$ in. wide).” The steel channel strip referred to under “Specification: Material and Finishes” is perforated every 3 in. to take $\frac{7}{8}$ in. countersunk screws.*

SEQUENCE LIST

In the sequence list of the Library published in the ARCHITECTS' JOURNAL for January 1, 1953, Sheet 43.Z4 should be added.

* HMSO. 1952. 4s. 6d.
† HMSO. 1946. 1s. 6d.

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THE INDUSTRY

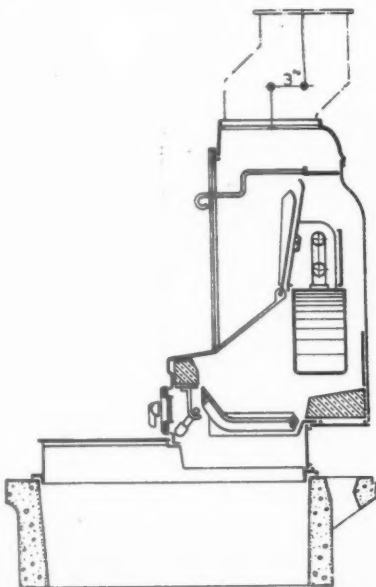
From the Industry this week, Brian Grant reports on the use of corrugated aluminium sheeting for roofing, a new type of roofing clip and two useful booklets on solid-fuel appliances.

ALUMINIUM FOR ROOFING

A new leaflet issued by ICI sets out some of the advantages of corrugated aluminium sheeting for roofing. One of the greatest advantages, of course, is that the material is readily obtainable, and in quantity, but maintenance costs are also low, particularly as painting is not, as a rule, necessary.

The sheets are produced in all the standard corrugations and in lengths of from 6 to 12 ft. Fixing is simple, and is made even easier by the fact that the sheets themselves are light in weight. Aluminium alloy fittings and accessories should be used if possible, but hot-dip galvanized or sherardized bolts and washers are also suitable—other metals should not be used unless adequately insulated with mastic or bituminous felt.

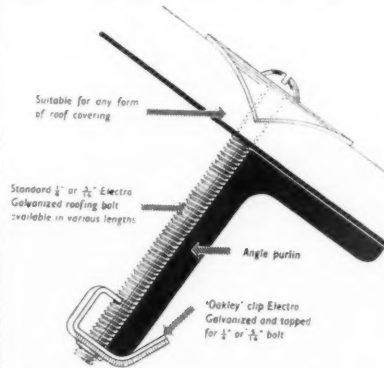
The alloys recommended by ICI are interesting: for normal work they suggest ordinary commercial purity ("Kynol" P10) or a 1½ per cent. manganese alloy (PA19), while for more arduous conditions, or where workmen may be walking on the sheets during erection, they suggest M35/1, an alloy containing 2 per cent. magnesium. The use of the commercially pure alloy (P10) is in line with the recommendations of the other aluminium producers, but the magnesium alloy should also be highly corrosion resistant. It would be interesting to see how the various alloys behave in comparable atmospheres. (ICI Ltd., Metals Division, Kynoch Works, Witton, Birmingham, 6.)



Cross section of Allied Ironfounders "New Marathon" fire—a sunk ashpit model with boiler.

ROOFING CLIPS

The normal hook-bolt has been used for so long that one tends to ignore the fact that the thread, where the rust-proofing is likely to be thinnest, is on the outside of the roof and exposed to the weather. Sundry alternatives are in production—the "Oakley" clip, shown below, having many advantages, as it is threaded internally and thus needs no separate fixing nut. Only the head of the screw is exposed to



the weather, and there is the additional advantage that the use of a slightly longer bolt allows an extra length of thread which will provide a very handy fixing for an internal lining of insulating board or for clips to hold electrical conduit or other comparatively light pipework. The clip is formed from steel strip and is electro-galvanized; it is made in two sizes, for ½-in. and ⅝-in. bolts. (The British Screw Co. Ltd., 153, Kirkstall Road, Leeds 4.)

SOLID FUEL APPLIANCES

Allied Ironfounders have recently issued two useful reference books. The first, *Cooking, Heating and Hot Water in Low Cost Houses*, takes a number of the plans in *Houses 1952* and discusses various pos-

Below, the recently-opened Gas Council exhibit at the Building Centre, designed by M. V. Reed. On the left is the information desk; on the right, the domestic kitchen section. See news item on page 303.



sible methods of providing the necessary heat. Three or four alternatives are generally given for each plan and the advantages of each are explained. Reference numbers give the key to the separate volume of *Information Sheets*, where the dimensions, performance and installation details of the various types of appliance can be found—two useful publications. (Allied Ironfounders, Ltd., 28, Brook Street, London, W.1.)

Buildings Illustrated

Offices for Time-Life International, 153-7, New Bond Street, London, W.1. (Pages 305-318.) Architect: Michael Rosenauer, F.R.I.B.A., A.I.A. Co-ordinating designer for interior, Sir Hugh Casson, R.D.I., M.A., F.R.I.B.A., F.S.I.A., in association with Misha Black, O.B.E., F.S.I.A. Ground floor: lift hall, designed by Michael Rosenauer. Ground floor: weather window, designed by James Cubitt & Partners; assistant in charge, Peter Gray, A.R.I.B.A.; typography, Clifford Hatts, A.R.C.A., M.S.I.A. Ground floor, entrance hall, first floor: reception room, designed by Sir Hugh Casson and Misha Black, in association with Michael Rosenauer, assistant designers, Ellis Miles, A.R.I.B.A., John Diamond, B.A.R.C.H., A.R.I.B.A. First, second, third floors, general areas and offices, designed by Misha Black and Alexander Gibson, A.R.I.B.A. First floor: conference room, designed by H. T. Cadbury-Brown, A.R.I.B.A.; assistant in charge, R. S. Finch, A.R.I.B.A. Second floor: office of the London Director, designed by Sir Hugh Casson and Misha Black; assistant designer, Robert Maxwell, A.R.I.B.A. Third floor: office of Editorial Bureau Chief, designed by Robin Day, A.R.C.A., F.S.I.A. Third floor: office of Deputy to Bureau Chief, designed by Neville Ward, B.A.R.C.H., A.R.I.B.A., F.S.I.A., Frank Austin, F.S.I.A., Mary Ward, A.R.I.B.A. Sixth floor: cafeteria, designed by Sir Hugh Casson, Neville Conder, A.R.I.B.A., M.S.I.A., and Patience Clifford, A.R.I.B.A.; assistant designer, Robin Dunn, A.R.I.B.A. Sixth floor: ante room and Executives' dining room, designed by Leonard Manasseh, A.R.I.B.A., of Leonard Manasseh & Partners, Ian Baker, A.R.I.B.A.; furnishing consultant, Olive Sullivan. Quantity Surveyor: Oswald E. Parratt, F.R.I.C.S. General Contractors: Holland & Hannen and Cubitts Ltd. Sub-contractors: structural steelwork, Dorman Long & Co. Ltd.; hollow tile floors and reinforced concrete, Diespeker & Co.

Ltd.; aluminium and metal windows, Williams & Williams Ltd.; passenger lifts, Waygood-Otis Ltd.; strong room door, Chubb & Sons Ltd.; heating, hot water and ventilation installation, Young, Austen & Young Ltd.; drainage and plumbing installation, Engineering Service Installations Ltd.; sprinkler, dry hydrant installation, rolling shutters, Mather & Platt Ltd.; facing bricks, R. Y. Ames Ltd.; gas installation, North Thames Gas Board; incinerators, William Sugg & Co. Ltd.; electrical installation, Engineering Service Installations Ltd.; sanitary fittings and accessories, Shanks & Co. Ltd.; stonework, The Wands-worth Stonemasonry Works; terrazzo, Die-speker & Co. Ltd.; door furniture and iron-mongery, Comyn Ching & Co. (London) Ltd., Alfred G. Roberts Ltd., Pryke & Palmer Ltd., and James Gibbons Ltd.; w.c. partitions, Holoplast Ltd.; cork tiles, E. J. Elgood Ltd.; handrails and cat ladder, F. A. Norris & Co. Ltd.; acoustic tiles, Horace W. Cullum & Co. Ltd.; interior and exterior decorative metal work, The Morris Singer Co. Ltd., Haskins Ltd.; marble work, Fenning & Co. Ltd.; flagstaffs, J. W. Gray & Son Ltd.; lighting fittings, Merchant Adventurers of London Ltd., Engineering Service Installations Ltd., Anthony Juer Lighting Ltd., Oswald Hollman; water coolers and condensing unit, The Lightfoot Refrigeration Co. Ltd., and R. E. A. Bott Ltd.; watchman's patrol system, Rentrix Ltd.; interior panelling and decoration, Harris & Sheldon Ltd.; kitchen equipment, Benham & Sons Ltd., W. M. Still & Sons; metal partitioning, Sankey Sheldon Ltd.; Venetian blinds, J. Avery & Co.; curtain tracks, W. J. Furst & Co. Ltd.; radio and television aerial installation, A. Imhof Ltd.; linoleum, John Lewis & Co. Ltd.; wood flooring, Wm. Mallinson & Sons. *Weather Window*: Main sub-contractor: F. W. Clifford Ltd.; suppliers of meteorological instruments, Negretti & Zambra Ltd.; suppliers of projector, Newton & Co. Ltd.;

lettering, The Lettering Centre. *Reception Area*: material for curtains, Tibor Ltd.; joinery and wood panelling, H. H. Martyn & Co. Ltd.; staircase hall entrance doors, staircase balustrade, sliding plant window, Morris Singer Co. Ltd.; marble, Fenning & Co. Ltd.; carpet, Wilton Carpet Factory Ltd.; chairs, Heal's Contracts Ltd.; magazine tables, Ernest Joyce; flowers, The West End Flower House Ltd.; communication map (Tooling), Sangorski & Sutcliffe; iron sculpture by Geoffrey Clark, Blacker Forge & Hammer Co., British Oxygen Co., Rock-weld Ltd., and Haskins Ltd.; lighting consultant, Anthony Juer Ltd. *Conference Room*: Main sub-contractor: Harris & Sheldon Ltd. Sub-contractors: Grecian Serpentine marble, Marble Decorations Ltd.; cast glass reflectors, Holophane Ltd.; Blackwood veneer panelling, Blackbean strip floor, Wm. Mallinson & Sons Ltd.; door sliding gear, Hill Alden Ltd.; furniture made by Heal's Contracts Ltd. *General Areas*: Movable steel partitioning, Sankey-Sheldon Ltd.; light fittings, Merchant Adventurers of London Ltd., Oswald Hollmann and Best & Lloyd Ltd.; cork flooring and pin-up boards, E. J. Elgood Ltd.; acoustic ceiling, H. W. Cullum & Co. Ltd.; dark room sinks, Sant Sturgess Ltd.; door furniture, fittings, etc., James Gibbons Ltd., and A. G. Roberts Ltd.; paint, Keystone Paint & Varnish Co. Ltd.; special joinery, Holland & Hannen and Cubitts Ltd., Westminster Joinery Ltd., and Frank W. Clifford Ltd.; steel desks and filing cabinets, Roneo Ltd.; "Randalrak" personal filing cabinets, cupboard and "Readyrak" steel shelving, Metal Shelving (Industrial) Ltd.; "Rolstore" mobile storage units, Acrow (Engineers) Ltd.; telephone directory holders and letter trays, Cowtan & Cox Ltd.; safe, Chubb & Sons Lock & Safe Co.; curtains, Maple & Co.; executive and typists' chairs, Leabank Chairs Ltd.; settee, S. Hille & Co.; easy and upright chairs, Ernest Race Ltd.; tables, Educational

Supply Association Ltd., and Ernest Race Ltd.; ashtrays, Primavera; direction boards, etc., The Lettering Centre; wastepaper baskets, Acorn & Lumium Sales Co.; warehousing and removal, Maple & Co. Ltd. *Office of Editorial Bureau Chief*: Purpose-made furniture, S. Hille & Co.; conference chairs, Kingfisher Ltd. *Office of Deputy Editorial Bureau Chief*: interior fittings and furniture: Harris & Sheldon Ltd.; settee, H. & A. G. Alexander & Co. Ltd.; curtains and settee cover, Tibor Ltd.; carpet, Hugh Mackay; curtains and carpet, Maple & Co. Ltd.; Venetian blinds, J. Avery & Co. Ltd.; light fittings, Merchant Adventurers of London Ltd. *Cafeteria*: Contractors for the interior: Harris & Sheldon Ltd.; contractors for kitchen equipment and servery counter, Benham & Sons Ltd.; special banquet seating and loose and fixed tables, Andrew Pegram Ltd.; standard loose chairs, Kingfisher Ltd.; special "Tygan" upholstery, Fothergill & Harvey Ltd.; canopy soffit panels, Waverite Ltd.; special wall bracket fittings, Oswald Hollmann; standard light fittings, Merchant Adventurers of London Ltd. *Executives' Dining Room and Ante Room*: General Contractors: Holland & Hannen and Cubitts; electrical contractors, Engineering Service Installations Ltd.; joinery contractors, Harris & Sheldon Ltd.; heating and ventilating, Young, Austen & Young Ltd.; loose furniture, Story & Co. Ltd.; leather, Handford Greatrex & Co.; china, Josiah Wedgwood & Sons (supplied by Liberty & Co.); ironmongery, James Gibbons Ltd., Comyn Ching & Co., and A. J. Binns Ltd.; electrical sub-contractors, Courtney Pope (Electrical) Ltd.; wireless and built-in refrigerator, A. Imhof Ltd.; timber suppliers, Wm. Mallinson & Sons; marble, J. Whitehead & Sons; special clocks, Baume & Co.; clock movements and wiring, Gent & Co.; soft furnishings contract, Maple & Co. Ltd.; Bedford cord for screens, Hunt & Winterbotham; cutlery, Waring & Gillow Ltd.

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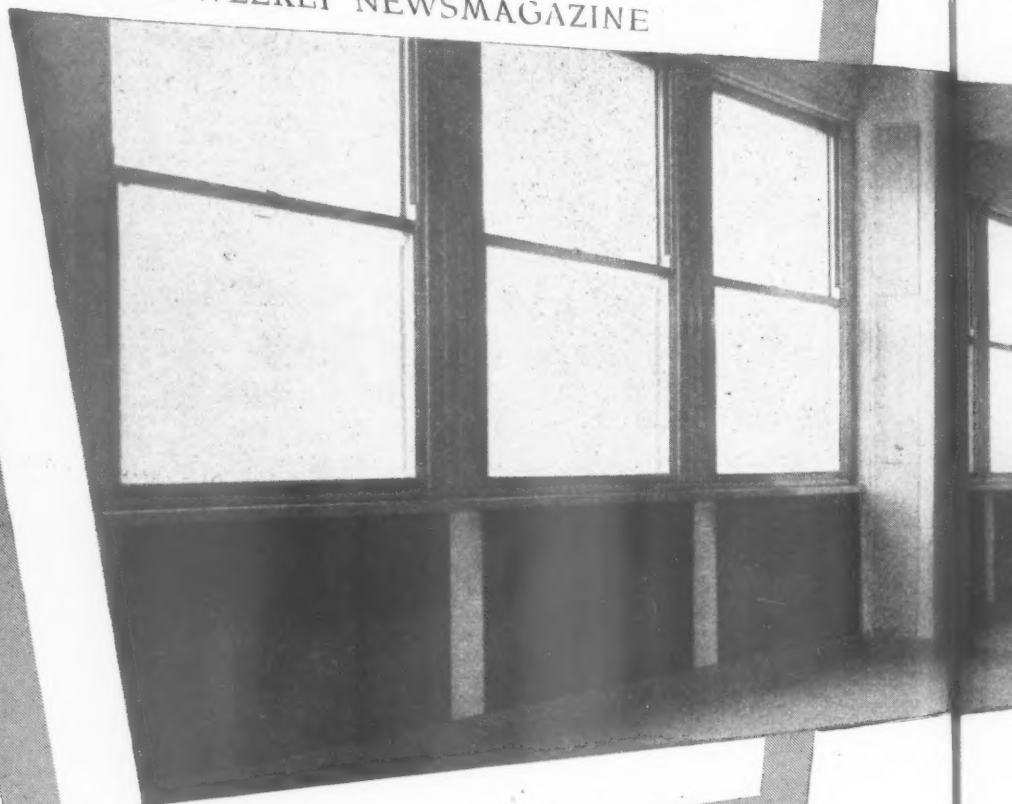


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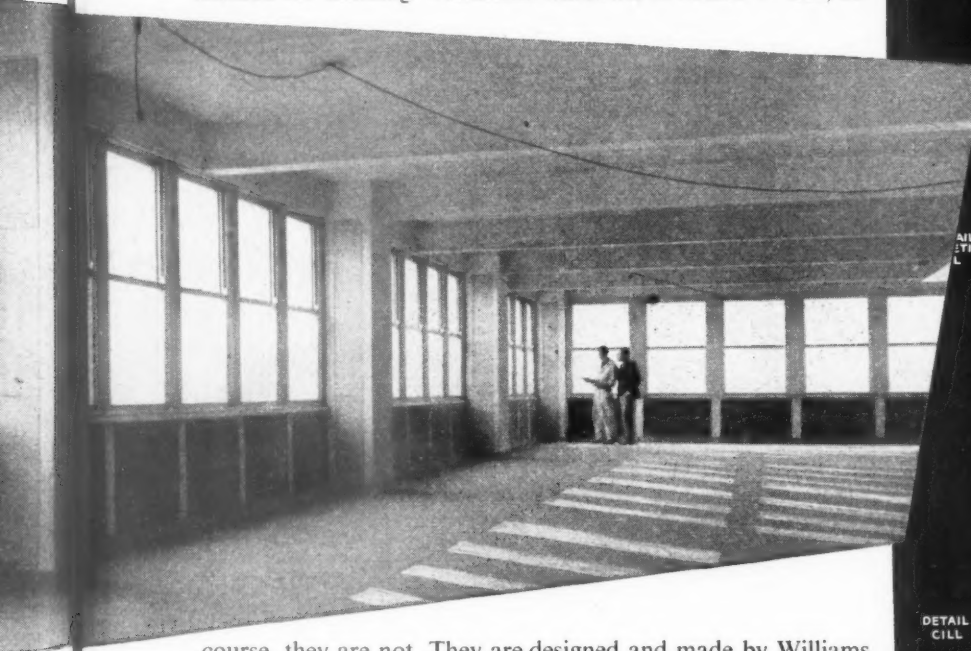


See Pages 305-318

type of window

BY WILLIAMS AND WILLIAMS

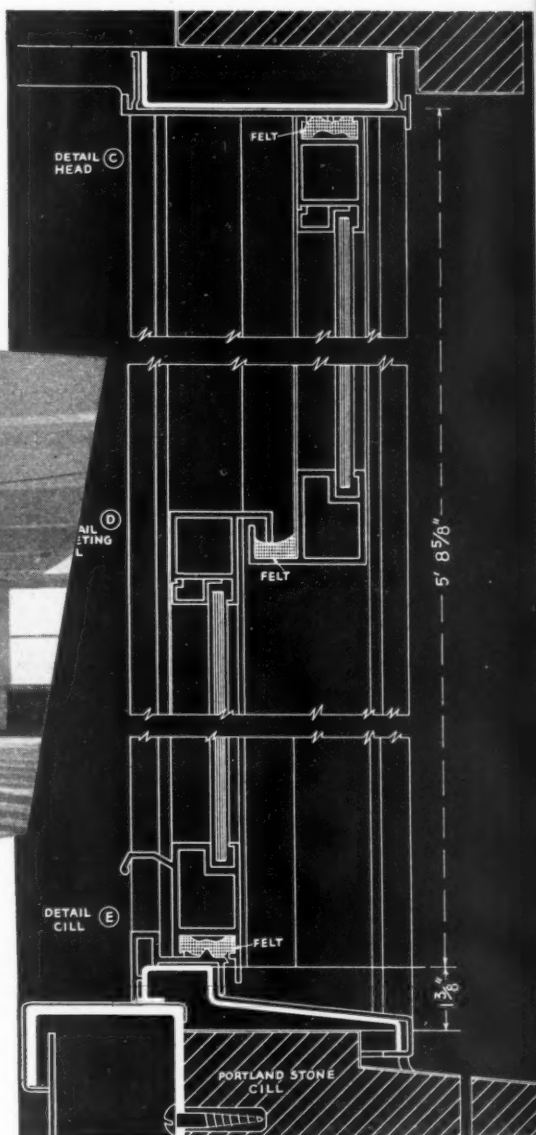
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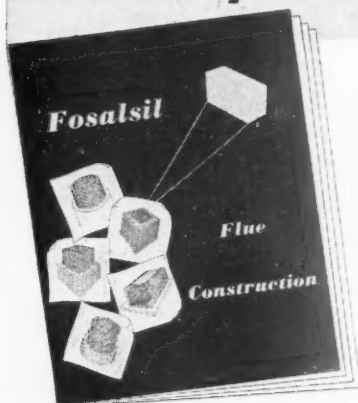
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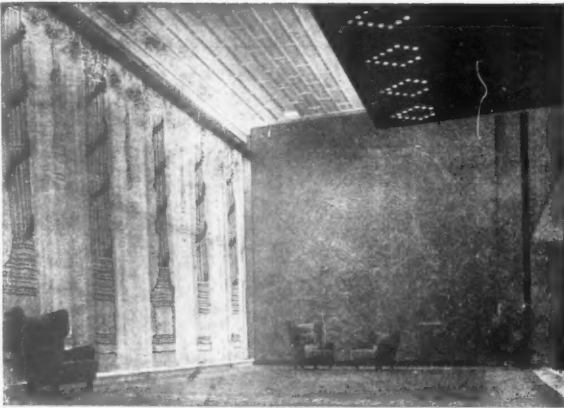
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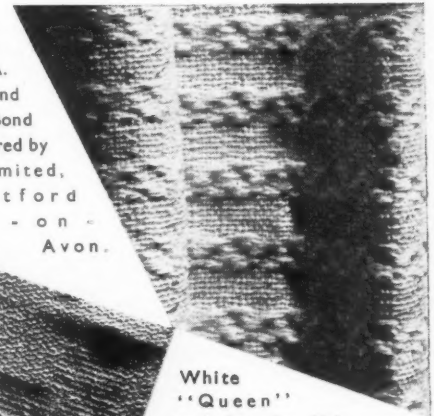
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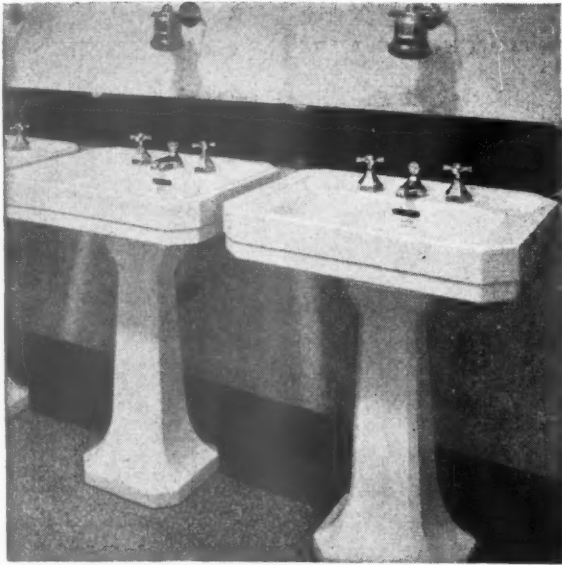
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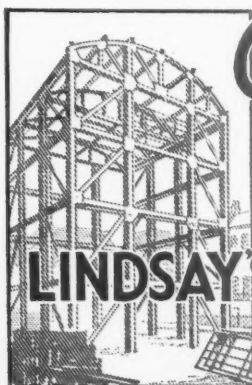
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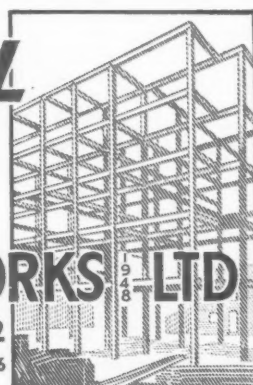


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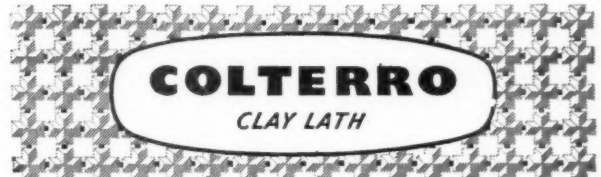
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CLASSIFIED ADVERTISEMENTS

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

UNIVERSITY OF NOTTINGHAM.
SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT. Salary: £475 to £575 per annum, according to qualifications and experience.

Form of application and conditions of appointment may be obtained from the undersigned.

H. PICKBOURNE,

Registrar.
8238

MINISTRY OF WORKS.

Vacancies exist in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS with recognised training and fair experience. Vacancies are mainly in London. Successful candidates will be employed on a variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges and Housing.

London Salary: Up to £628 per annum. Starting pay according to age, qualifications and experience. Rates outside London are slightly lower.

Although these are not established posts, many have long term possibilities and competitions are held periodically to fill established vacancies.

Apply in writing, stating age, nationality and full details of training and experience, to the Chief Architect, Ministry of Works, Abell House, John Islip Street, London, S.W.1, quoting reference W.G.10/C.A.1. 8047

COUNTY OF WARWICK.

ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ASSISTANT ARCHITECT (A.R.I.B.A.), Grade A.P.T., V. salary £595-£645, on the established staff.

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

Application forms can be obtained from G. B. Barnsley, A.R.I.B.A., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,

Clerk of the Council.
8312

CITY OF COVENTRY.

Applications invited from Registered ARCHITECTS for vacancies on Grades A.P.T., VII and VIII. Form of application from the City Architect and Planning Officer, which must be returned, completed, by 16th March, 1953, to the undersigned.

D. E. E. GIBSON,

City Architect and Planning Officer.

Bull Yard, off Warwick Row, Coventry.
26th February, 1953. 8305

UNIVERSITY OF CAMBRIDGE.

Applications are invited from suitably qualified persons for the post of University Demonstrator in the Department of Estate Management, to assist in teaching Construction of Buildings and Surveying in the courses leading to the B.A. degree.

Preference will be given to holders of a University degree.

Full particulars may be obtained from Secretary, Board of Estate Management, 74, Trumpington Street, Cambridge. 8304

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

Applications are invited for the appointment of SENIOR ARCHITECTURAL ASSISTANT. Salary: Grades A.P.T., VI to VII (£670-£785) per annum. Commencing salary will be in accordance with the qualifications and experience of the successful applicant.

Applicants should be suitably qualified and experienced in the design of houses, multi-storied buildings, schools, and other Municipal buildings.

The appointment is subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Act, 1937, the passing by the successful candidate of a medical examination, and to termination by one month's notice on either side.

Form of application may be obtained from the Borough Engineer and Surveyor, The Council House, Smethwick, 40, and should be returned suitably endorsed, together with copies of two recent testimonials, to reach him not later than 16th March, 1953.

E. L. TWYCCROSS,

Town Clerk.

26th February, 1953.

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

Applications invited for the Permanent Staff

Appointment, Grade VI (£670-£735 per annum):

SENIOR ASSISTANT ARCHITECT.

Applicants must be Associate Members of the R.I.B.A. or hold equivalent qualifications, and have had considerable experience in design, construction and contract administration, preferably with a large local authority. Appointment superannuable, subject to satisfactory medical examination and to one month's notice in writing on either side.

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

Applications, stating age, training, qualifications, experience, present appointment and salary, with names of two referees (including present employer), by Monday 16th March, to

J. NELSON MEREDITH, F.R.I.B.A.,

City Architect.

Council House, College Green, Bristol, 1. 8298

SCOTTISH GAS BOARD.

EDINBURGH DIVISION.

DRAUGHTSMAN/TECHNICAL ASSISTANT.

Applications are invited for the position of Draughtsman/Technical Assistant, at a salary scale £615, rising to £715 per annum.

Applicants, aged 25 to 35 years, should have good experience in surveying and in the layout and design of Buildings and Engineering structures, and should possess a Higher National Certificate of the Institution of Civil Engineers or a similar qualification.

A house is available at a reasonable rent.

Detailed applications, stating present appointment, together with names of three referees, should be addressed to the undersigned, to arrive not later than 28th March.

The successful candidate will be required to pass a medical examination, and will be subject to the provisions of the Board's Superannuation Scheme.

DAVID BEAVIS,

Divisional Controller.

15, Calton Hill, Edinburgh, 1. 8282

SINGAPORE IMPROVEMENT TRUST.

PLANNING OFFICER.

(1) An Improvement Planning Officer is required by the Singapore Improvement Trust, the appointment in the first instance being on a three-year agreement. Age preferably under 30 years.

(2) Applicants must hold a Civil or Municipal Engineering Qualification, and have had practical experience in Statutory Planning with a Local Planning Authority.

(3) Salary scale, \$630-\$1,200 per month, the point of entry depending on the age, qualifications and experience of the appointee. Expatriation allowance, \$205-\$275 per month, according to basic salary. Cost-of-living allowance up to maxima of (i) single officers \$170 p.m., (ii) married officers (no children) \$275 p.m., (iii) married officers (with children) \$400 p.m. An allowance will be paid to cover cost of duty transport. All allowances are subject to revision. \$1 (Malayan) = 2s. 4d.

(4) Strict medical examination.

(5) Provident Fund, to which the appointee must contribute 7½ per cent. of basic salary. The Trust contributes a minimum of 7½ per cent., rising by stages to 20 per cent., after 20 years' service.

(6) Leave and passages in accordance with Regulations.

(7) Quarters (with heavy furniture) are provided at a rental of 6 per cent. of salary, or a housing allowance (10 per cent. of salary) paid in lieu.

(8) Applications in duplicate, giving full personal and technical information, with duplicate copies of three recent testimonials, to Messrs. Allen & Williams (Agents to the Trust), 1, Victoria Street, London, S.W.1, before Thursday, 19th March, 1953. 8293

THURROCK URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S

DEPARTMENT.

ARCHITECTURAL ASSISTANT, GRADE VI.

Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grade VI of the A.P.T. Division of the National Scale of Salaries.

Candidates should be Associates of the Royal Institute of British Architects, and should be experienced in the preparation of drawings, specifications and estimates for building and architectural work undertaken by a Local Authority, particularly in connection with housing schemes on a large scale.

Housing accommodation, if necessary, will be provided for the successful candidate if he lives more than 20 miles from Thurrock, and a travelling allowance in accordance with the National Scale is payable in respect of an 8 h.p. car.

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

Applications, endorsed "Architectural Assistant, VI," stating age, qualifications and experience, and quoting three references, should reach the undersigned not later than the first post on Thursday, 12th March, 1953.

Canvassing will disqualify, and applicants must disclose in writing any relationship to any member or senior officer of the Council.

A. E. POOLE,

Clerk of the Council.

Council Offices, Whitehall Lane,

Grays, Essex.

8292

CITY OF LIVERPOOL.
ARCHITECTURAL AND HOUSING
DEPARTMENT.

Applications are invited for the under-mentioned appointments (temporary), viz.:-

HOUSING SECTION:

(1) FOUR ARCHITECTURAL ASSISTANTS. Salary: £555 or £625 p.a., according to qualifications and experience.

Persons appointed will be engaged on the design and layout of houses, flats and other buildings, and should preferably have previous experience of this type of work. Applicants of R.I.B.A. Final standard will be considered for appointment at £625 p.a., and applicants of R.I.B.A. Intermediate standard will be considered for appointment at £555 p.a.

REDEVELOPMENT SECTION:

(2) TWO ARCHITECTURAL ASSISTANTS.

Salary: £625 p.a.

Persons appointed will be required to assist in the detailed development of central areas, should possess planning experience, and must be of R.I.B.A. Final standard, preferably with planning qualifications.

(3) THREE TECHNICAL ASSISTANTS.

Salary: within the range £465-£540 p.a. (A.P.T., Grade I/II), according to experience.

Applicants must have architectural experience, be good draughtsmen, and capable of carrying out small surveys in connection with site clearance and redevelopment.

Application forms obtainable from the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Liverpool, 2, must be returned to him by 28th March, 1953.

The appointments will be for a period not exceeding two years, and are subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKEB,

Town Clerk.

Municipal Buildings, Liverpool, 2.
February, 1953. (JA3145) 8291

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies for ARCHITECTS, Grade III (£660 to £837 10s.), and TECHNICAL ASSISTANTS (up to £696), with experience in working drawings and specifications for alterations, adaptations and improvements.

Particulars and application form from Architect, AR/EA 1/2, County Hall, S.E.1. (191) 8313

LOCAL APPOINTMENTS COMMISSION—
POSITION VACANT.

Application forms and particulars from the Secretary, 45, Upper O'Connell Street, Dublin.

DEPUTY CITY ARCHITECT, Dublin Corporation. Salary: £1,050-£1,450, plus temporary bonus not exceeding £250 per annum, with entry above the minimum should qualifications and experience so warrant. Essential qualifications include (a) a degree in Architecture of A. or F.R.I.B.A. or a pass in the Institute's examination leading to M.I.R.A.I.; (b) considerable practical experience in the design and construction of large scale housing schemes; (c) a good knowledge of the design and construction of multiple flat dwellings and of the erection of dwellings by non-traditional methods. The person appointed will be engaged mainly on housing duties. Latest time for receiving completed application forms: 5 p.m. on 31st March, 1953. 8314

SOUTHAMPTON C.B.C.

Appointment of ASSISTANT ARCHITECT, Grade IV (£555-£600 p.a.). Application forms from Borough Architect, Civic Centre, Southampton, to be returned by 23rd March, 1953. 8316

COUNTY BOROUGH OF ROCHEDALE.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the under-mentioned appointments in the Borough Surveyor's Department:

(a) ASSISTANT ARCHITECT, Grade A.P.T., Va. Salary scale: £625-£685 per annum.

(b) ASSISTANT QUANTITY SURVEYOR, Grade A.P.T., V. Salary scale: £595-£645 per annum.

Applicants for (a) must be Registered Architects, and should be suitably qualified. Membership of the R.I.B.A. will be an advantage. They should have a thorough knowledge of architectural work, with practical experience in the design of public buildings of all types.

Applicants for (b) must have passed the Final Examination of the R.I.C.S. (Quantities Section), and should have had considerable experience in the preparation of Bills of Quantities, measurement of site works, and the preparation of Statements for Interim and Final Payments.

The appointments will be subject to the provision of the Local Government Superannuation Acts, and to the selected candidates passing a medical examination. Canvassing is prohibited, and candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating position applied for, age, qualifications, and full particulars of experience, together with the names and addresses of two persons to whom reference may be made, must be delivered to the Borough Surveyor, Town Hall, Rochdale, not later than Monday, the 30th March, 1953. Envelopes endorsed "Assistant Architect" or "Assistant Quantity Surveyor."

K. B. MOORE,

Town Clerk.

8315

**NORTHERN IRELAND HOUSING TRUST.
SENIOR ASSISTANT ARCHITECT.**

Applications are invited for the post of Senior Assistant Architect. Applicants must be Corporate Members of the R.I.B.A. and should have considerable experience of site planning, design of houses, flats and shops. They should be capable of supervising large contracts using either traditional or non-traditional construction. The successful candidate will be in charge of a section of the Architectural Staff and will be responsible to the Chief Technical Officer for a number of the Trust's projects.

The salary will be on the scale of £1,000-£30 (2) × £40-£1,100.

Preference will be given to ex-Service candidates.

The person appointed will be required to participate in the Northern Ireland Local Government Officers' Superannuation Scheme, which allows for reciprocal transfer of benefits in Local Government Superannuation Schemes in Northern Ireland and Great Britain.

Assistance in obtaining housing accommodation may be given in suitable circumstances to the successful candidate.

Forms may be obtained from the General Manager, Northern Ireland Housing Trust, 12, Hope Street, Belfast, with whom applications should be lodged before 31st March, 1953. 8289

TRACER with some experience required by STEVENAGE DEVELOPMENT CORPORATION (Chief Architect's Department). Salary according to age: male, £254 at 18, rising to £450 at 30; female, £206 at 18, rising to £360 at 30. Applications, with names of two referees, to Chief Administrative Officer, Aston House, near Stevenage, Herts., by 9th March, 1953. 8287

Tenders for Contracts

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

COUNTY BOROUGH OF BURNLEY.
ALTERATIONS AND ADDITIONS TO HOLY TRINITY C. OF E. SCHOOL, BURNLEY.

Tenders are invited on behalf of the Managers of the Holy Trinity C. of E. School for certain alterations and additions, comprising mainly improved lavatory accommodation, new kitchen arrangements, accommodation for Headmaster and Staff, and new windows, drains, etc.

Forms of Tender, together with Bills of Quantities, may be obtained on application to the Architects, Messrs. Leach, Rhodes and Walker, 90, Deansgate, Manchester, 3, on payment of a deposit of two guineas, which will be returned on receipt of a bona fide tender and the return of all documents.

Drawings and conditions of contract may be inspected during normal office hours, either at the office of the Architects, or at the Borough Surveyor's office, Nicholas Street, Burnley.

Tender documents will be despatched on or about Wednesday, 4th March, and should be returned to the Town Clerk, Burnley, in the envelope

provided, not later than noon on Tuesday, the 17th March.

C. V. THORNLEY.

Town Clerk.

Town Hall, Burnley.

February, 1953.

8290

Architectural Appointments Vacant

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

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

BOX 8110.—The Advertisers wish to thank all those applicants who replied to their advertisement under the above Box number, and wish to say that the vacancies have now been filled. 8302

ARCHITECTURAL ASSISTANT, with experience, required for general practice. Reply, stating experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 8299

ARCHITECTURAL ASSISTANT, London, fully experienced in design and construction. Applicant should have passed his Associateship examination, preferably hold honours or other diplomas, age about 35/40, experience 7/10 years. Pension, etc.; benefits for permanent man. Progressive post. Apply Box 8213. 8302

QUALIFIED ARCHITECT or BUILDING SURVEYOR wanted by firm of Chartered Land Agents and Surveyors in the South-West. Must be experienced and capable of assuming responsibility for preparation of plans and specifications of new cottages, farmhouses and buildings, reconditioning, water supplies, and measurement of dilapidations. Own car essential. Applicants should state salary wanted and whether married or single. Box 8268. 8302

ARCHITECTURAL ASSISTANT, competent, required in office, West End of London. Not less than Intermediate standard. Experienced in commercial work. Neat and quick draughtsman essential. Salary according to ability. Box 8270. 8302

JUNIOR ARCHITECTURAL ASSISTANT required for conversion work; experience of traditional detailing an advantage. Salary: £250/£350 p.a. Apply, giving usual particulars, to Box 8269. 8302

ASSISTANT required in London office for the preparation of Working Drawings for schemes abroad. Good draughtsmanship and experience essential. Salary: £10-£12. Box 8307. 8302

REQUIRED, for interesting practice in London, keen, final standard ASSISTANT, with office experience. Box 8296. 8302

TWO ARCHITECTURAL ASSISTANTS required, about R.I.B.A. Inter. standard, for small Birmingham office. Must be good draughtsmen and capable of preparing sketches and working drawings. Write, giving details of experience, age, and salary required. Box 8242. 8302

B.C. requires following staff for Building Department, London:—

(a) **SENIOR ASSISTANT (ARCHITECTURAL)**. Must be Registered Architect, considerably experienced in general planning, and preparation of detailed drawings and specifications for office-type buildings, able to take charge of several contracts; age 30/45. Salary £1,125 (possibly higher if qualifications exceptional) to £1,480 max.

(b) **TWO ARCHITECTURAL ASSISTANTS (Grade I)**. Must be Registered Architects, experienced in building surveys, general planning and preparation of detail drawings and specifications for office-type buildings; age 30/45. Salary £795 (possibly higher if qualifications exceptional) to £1,065 max. Promotion prospects.

(c) **THREE ARCHITECTURAL ASSISTANTS (Grade III)**. Must be Registered Architects up to Final R.I.B.A. standard, with several years' office experience. Salary £590 (possibly higher if qualifications exceptional) to £800 max. Promotion prospects.

(d) **THREE ARCHITECTURAL ASSISTANTS (Grade IV)**. Must have passed Intermediate R.I.B.A., have at least two years' office experience. Salary £500 (possibly higher if qualifications exceptional) to £685 max. Promotion prospects. Applications to Engineering Establishment Officer, B.R.C., London, W.1, within 7 days. 8308

ASSISTANT ARCHITECT, of R.I.B.A. Intermediate standard, with at least two years' office experience, for Architects' office, with interesting general practice. Apply in writing to C. J. Epril, F.R.I.B.A., and Associates, 55, Pall Mall, London, S.W.1. 8306

ARCHITECTURAL ASSISTANT required for senior position immediately. Must have good experience, and capable of taking charge of contracts throughout. Salary according to qualifications and experience. Excellent prospects for suitable man. Messrs. Beard, Bennett & Wilkins, WELbeck 2858. 8303

ARCHITECTURAL ASSISTANT required for Architect's Department of large Maidstone Brewery. Applicants, who should be aged 30-40, must be good draughtsmen, with a sound knowledge of construction. Previous experience in the Licensed Trade not essential. The appointment is pensionable, and salary will be according to qualifications and experience. Reply with full details to Box 8248. 8303

ARCHITECTURAL ASSISTANT, R.I.B.A. Final standard, and **ARCHITECTURAL ASSISTANT**, R.I.B.A. Intermediate standard, required. Write, giving particulars, including salary required and position in respect of National Service, to Gutteridge & Gutteridge, 45, Westwood Road, Southampton. 8301

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ARCHITECTURAL ASSISTANT, fully qualified and capable of taking charge of Plymouth drawing office and outside supervision. Car driver preferred. Reply, stating details of experience and salary required. Box 8300.

ARCHITECTURAL ASSISTANT required by large Industrial Organisation, preferably qualified up to Intermediate standard, and with some experience in planning design and construction of factory buildings. The appointment is permanent and pensionable. Applicants should be between 24/30. Please reply giving details of age, experience, to Box No. 13991, A.K. Advgt., 212a, Shaftesbury Avenue, London, W.C.2. 8294

ARCHITECTURAL ASSISTANT required. Capable of handling working drawings from sketch stage. Good draughtsman and fully conversant with building subjects generally. Office experience essential. Salary £10 per week. Apply Bernard Gold & Partners, 1/11, Hay Hill, W.I. Telephone No.: MAYfair 3811. 8286

JUNIOR ARCHITECTURAL ASSISTANT required immediately. All types of interesting work in and near London. Must be capable of quick working drawings and details. Apply by letter stating age, experience and salary, Meredith & Partners, 6, Victoria House, Goodmayes. 8288

ARCHITECTURAL ASSISTANTS, with experience of design and working drawings, required in private practitioner's office, Glasgow. Good salary and conditions to suitable applicant. Box 8318.

ARCHITECT (North Country office) has vacancy for first-class fully qualified ASSISTANT. Must be capable designer and have good experience in preparation of working drawings and details. Applicant should state age, experience and salary required, and give copies of two testimonials. Box 8317.

Architectural Appointments Wanted

FELLOW R.I.B.A., with wide experience, available as SENIOR ASSISTANT or JUNIOR PARTNER in London or district office. Capital available. Box 657.

JUNIOR ARCHITECTURAL ASSISTANT: 25, R.I.B.A. Inter. standard; school trained; 12 months' office experience; requires post immediately. Box 660.

ARCHITECTURAL ASSISTANT, school trained. Final standard. Experience desired in private practice, London area. Moderate salary. Box 670.

ARCHITECTURAL ASSISTANT (25). Final standard, 5½ years' varied office experience, seeks position in London office. Box 658.

Other Appointments Vacant

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

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

OLD-ESTABLISHED Mutual Life Assurance House wants a few men of initiative and integrity to act as AGENTS. Architects and Surveyors have the necessary knowledge and contracts to make business most profitable to us and them. Further details from Box 8283.

DRAUGHTSMAN required by West End firm of Chartered Surveyors and Land Agents, experienced in cartographical work, preparation of plans for Town Planning enquiries, and constructional details from sketches. Age 25 to 30. Salary according to experience. Box 8284.

PART TIME experienced ARCHITECT'S SECRETARY AND SHORTHAND-TYPIST required, five half days or three full days, in small Chancery Lane office. Please apply, stating full particulars. Box 8295.

ASSISTANT QUANTITY SURVEYOR required by large Industrial Organisation, preferably qualified. The appointment is permanent and pensionable, and the salary will be in accordance with qualifications, age, and experience. Applicants should be between 23/30. Please reply giving full details of age, experience, etc., to Box N.1541, A.K. Advgt., 212a, Shaftesbury Avenue, London, W.C.2. 8299

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FOR SALE—Architect's Planning Cabinet; inlaid walnut, sycamore planning drawers, 3 ft. high, 3 ft. across, 2 ft. deep, with drawing board, £40. 'Phone Park 8875. 8311

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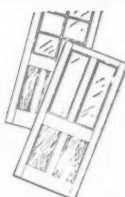


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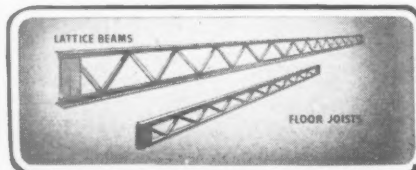
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Alphabetical Index to Advertisers

Acrow (Engineers), Ltd.	PAGE vi, xli
Adamite Co., Ltd., The	lxvi
Allweather Paints	i
Anglo-Scottish Construction Co., Ltd.	xlviii
Architectural Press, Ltd., The	lxxviii, lxxix, lxxxii
Armstrong Cork Co., Ltd.	lxxi
Ascot Gas Water Heaters, Ltd.	lxxi
Associated Lead Manufacturers, Ltd.	lxxi
Atlas Stone Co.	lxxi
Avery, J., & Co.	lx
Ayco, Ltd.	xxvi
Banister, Walton & Co., Ltd.	lxxviii
Beckett, Laycock & Watkinson, Ltd.	xvi
Benjamin Electric Co., Ltd., The	lxxv
Berry, Z. D., & Sons, Ltd.	lxxv
Bigwood Bros. (Birmingham), Ltd.	lxxv
Bigwood, Joshua, & Son, Ltd.	lxxv
Booth, John, & Sons (Bolton), Ltd.	lx
Boulton & Paul, Ltd.	lxxviii
Briggs, Wm., & Sons, Ltd.	lxxv
British Mouldex Rubber Co., Ltd.	lxxiv
Brittmae Electrical Co., Ltd.	lxxv
Broad & Co., Ltd.	xl
Brown, Donald (Brownall), Ltd.	lxxv
Bryce, White & Co., Ltd.	lxxv
Cafferata & Co., Ltd.	li
Calder & Keppich, Ltd.	lxxviii
Cargo Fleet Iron Co., Ltd.	lxxviii
Carter & Co., Ltd.	lxxv
Cement Marketing Co., Ltd.	lxxv
Chance Brothers, Ltd.	lxix
Clark, James, & Eaton, Ltd.	xlv
Clarke Ellard Engineering Co., Ltd.	xlvii
Colt Ventilation, Ltd.	lxxix
Colt, W. H. (London), Ltd.	lxxix
Concrete, Ltd.	lxxix
Constructors' Group	lxxix
Coverite (Asphaltes), Ltd.	lxxviii
Crane, Ltd.	xviii
Cullum, Horace W., & Co., Ltd.	xxii
Destrol Sales, Ltd.	lxxviii
Doulton & Co.	lxxvii
Econco Products, Ltd.	lxxiv
Econa Modern Products, Ltd.	xxx
Ellis School of Architecture, The	lxxviii
Eyode, Ltd.	lxxv
Farniloe, T. & W., Ltd.	xv
Penning & Co.	xlv
Fibreglass, Ltd.	lxxv

Findlay, Alex., & Co., Ltd.	PAGE li
Fisher & Ludlow, Ltd.	xx
Fordham Pressings, Ltd.	xi
Fothergill & Harvey, Ltd.	xxv
French, Thos., & Sons, Ltd.	lxxviii
Gas Council, The	lxxviii
Gent & Co., Ltd.	lxxviii
Gimson & Co. (Leicester), Ltd.	lxxviii
Girling's Ferro-Concrete Co., Ltd.	lxxviii
Grangemouth Iron Co., Ltd.	xxiv
Greenwood's & Alrvac Ventilating Co., Ltd.	lii
Gyproc Products, Ltd.	x
Hall, Robt. H., & Co. (Kent), Ltd.	iv
Hammond & Champness, Ltd.	lii
Harvey, G. A., & Co. (London), Ltd.	lii
Hickson's Thermo Impregnation Co. (G.B.), Ltd.	xxx
Hills (West Bromwich), Ltd.	xxx
Holophane, Ltd.	xxx
Holoplast, Ltd.	xix
Hope, Henry, & Sons, Ltd.	lxiv
Imperial Chemical Industries, Ltd.	viii, li
Insulite Products Corporation, Ltd.	lx
International Correspondence Schools	lxxviii
Jenollite, Ltd.	lvi
Johnson & Phillips, Ltd.	xlii
Johnston Bros. (Contractors), Ltd.	lxxv
Juer, Anthony, Lighting, Ltd.	lxxv
Kinnell, Chas. P., & Co., Ltd.	lxxviii
Laing, John, & Son, Ltd.	xl
Lamont, James H., & Co., Ltd.	lxx
Lead Industries Development Council	lxx
Leaderflush, Ltd.	lxxviii
Leatherflor, Ltd.	lxxviii
Lindsay's Paddington Ironworks (1948), Ltd.	lxxviii
Loft Ladders, Ltd.	lx
London Brick Co., Ltd.	lx
Lovell & Hanson, Ltd.	xli
Macandrews & Forbes, Ltd.	lxxv
McCarthy, M., & Sons, Ltd.	lxxviii
Magnet Timber, Ltd.	xiv
Mallinson, W.M., & Sons, Ltd.	lxv
Maple & Co., Ltd.	lx
Maple Tile Co., Ltd., The	xli
Matthews & Yates, Ltd.	lii
Meta Mica, Ltd.	lxxviii
Metropolitan-Vickers Electrical Co., Ltd.	lxxv

Midland Electric Mfg. Co., Ltd.	PAGE xxi
Midland Woodworking Co., Ltd.	xxi
Mills Scaffold Co., Ltd.	lxxvii
Moler Products, Ltd.	lxxv
Morris, M. A., Ltd.	lxxviii
Moulded Components (Jablo), Ltd.	lxxviii
Mumford, Bailey & Preston, Ltd.	lxxviii
National Federation of Clay Industries	lxxv
Ozallid Co., Ltd.	lxxv
Paragon Glazing Co., Ltd.	lxxv
Paul, W. H., Ltd.	lxxv
Philips Electrical, Ltd.	lxxv
Phoenix Rubber Co., Ltd.	lxxv
Pickerings, Ltd.	lxxv
Prodorite, Ltd.	lxxv
Radiation Group Sales, Ltd.	lxxv
Rawlings Bros., Ltd.	lxxv
Remploy, Ltd.	lxxv
Riley Stoker Co., Ltd.	lxxv
Roffe, Ltd.	lxxv
Ruberoid Co., Ltd., The	lxxv
Rubery, Owen & Co., Ltd.	lxxv
Salter, T. E., Ltd.	lxxv
Secomastic, Ltd.	lxxv
Semtex, Ltd.	lxxv
Sharp Brothers & Knight, Ltd.	lxxv
Sign Service	lxxv
Sissons, W. & G., Ltd.	lxxv
Smith & Pearson, Ltd.	lxxv
Sommerfeld's, Ltd.	lxxv
Standard & Pochin Bros., Ltd., The	lxxv
Steel Radiators, Ltd.	lxxv
Storry Smithson, Ltd.	lxxv
Structural & Mechanical Dev. Engrs., Ltd.	lxxv
Tarmac, Ltd.	lxxv
Thornton, A. G., Ltd.	lxxv
Tibor, Ltd.	lxxv
Trussed Concrete Steel Co., Ltd.	lxxv
United Paint Co., Ltd., The	lxxv
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Ward, Thos. W., Ltd.	lxxv
Warerite, Ltd.	lxxv
Waring & Gillow, Ltd.	lxxv
Westminster Joinery, Ltd.	lxxv
Wheatly & Co., Ltd.	lxxv
Wholesale Fittings Co., Ltd., The	lxxv
Williams & Williams, Ltd.	lxxv
Zinc Development Association	lxxv

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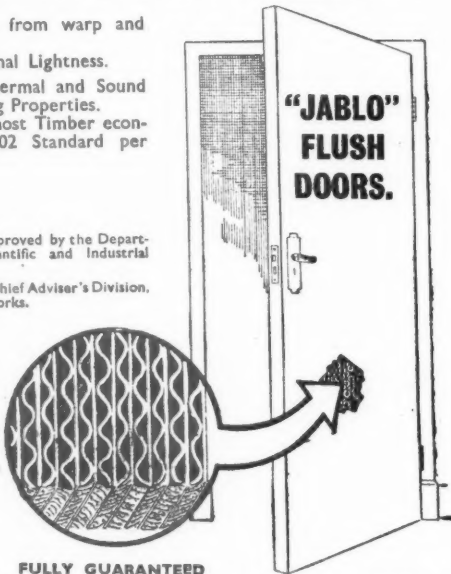
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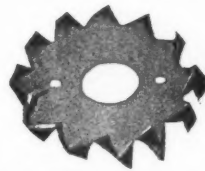
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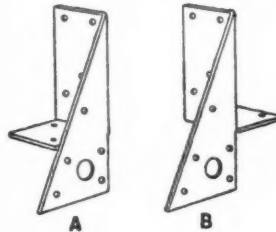
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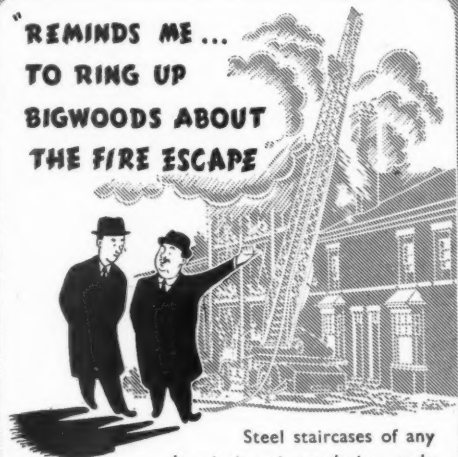
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