

# THE ARCHITECTS' JOURNAL



## Standard contents

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

## NEWS and COMMENT

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Stragals' Notes and Topics  
Letters  
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Information Centre  
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Prices  
The Industry

## CURRENT BUILDING

Major Buildings described:  
Details of Planning, Construction, Finishes and Costs  
Buildings in the News  
Building Costs Analysed

Architectural Appointments  
Wanted and Vacant

No. 3203] [Vol. 124  
THE ARCHITECTURAL PRESS

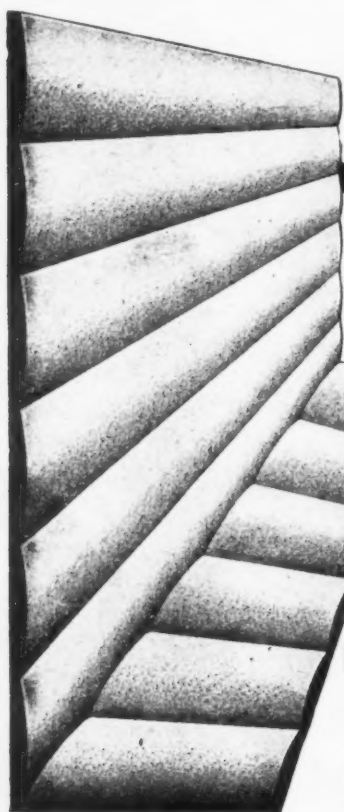
11 and 13, Queen Anne's Gate, Westminster,  
W.1. 'Phone: Whitehall 0611

Price 1s. 0d.

Registered as a Newspaper.

★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ig one week, Ih to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 1, 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
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 8738
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1.	Museum 5400
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5.	Ealing 9621
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Fremantle 8494
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
BRS	Building Research Station. Bucknalls Lane, Watford	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. British Standards House, 2, Park St., W.1.	Mayfair 9000
BTE	Building Trades Exhibition. 32, Millbank, S.W.1.	Tate Gallery 8134
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Civic Centre, Newport, Mon.	Newport 65491
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 Ext. 1284
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. 28, Haymarket, S.W.1.	Trafalgar 8000
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.1.	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. 68, Gloucester Place, W.1.	Welbeck 9966
FASS	Federation of Association of Specialists and Sub-Contractors, Artillery House, Artillery Row, S.W.1.	Abbey 7232
FBBDO	Fibre Building Board Development Organization, Ltd. (FIDOR) 47, Princes Gate, Kensington, S.W.7.	Kensington 4577
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	Regent 0221
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 4341
GBPA	Gypsum Building Products Association, 11, Ironmonger Lane, E.C.2.	Monarch 8888
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
GG	Georgian Group. 16, Hanover Square, W.1.	Mayfair 5454
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 29, Belgrave Square, S.W.1.	Belgravia 3755
ICA	Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1.	Grosvenor 6186
ICE	Institution of Civil Engineers. 1, Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, Victoria Embankment, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266



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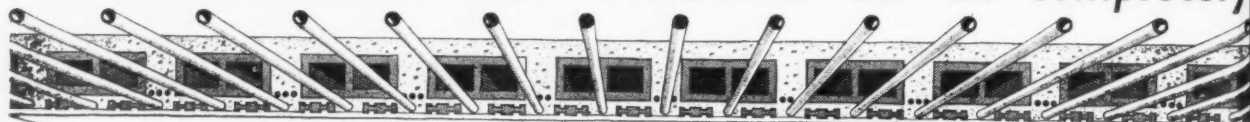
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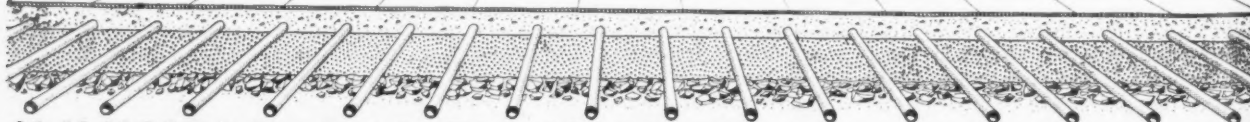
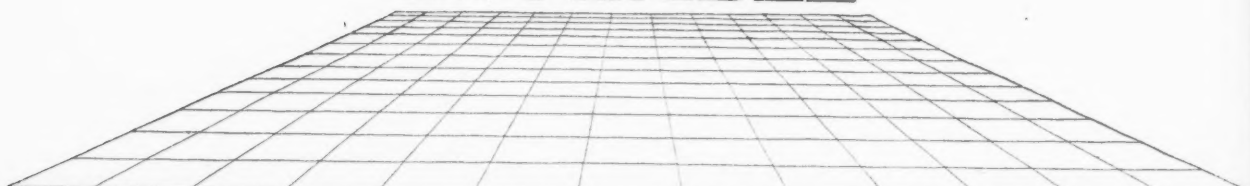
28 BISHOPSGATE, LONDON, E.C.2.  
LONDON WALL 6656

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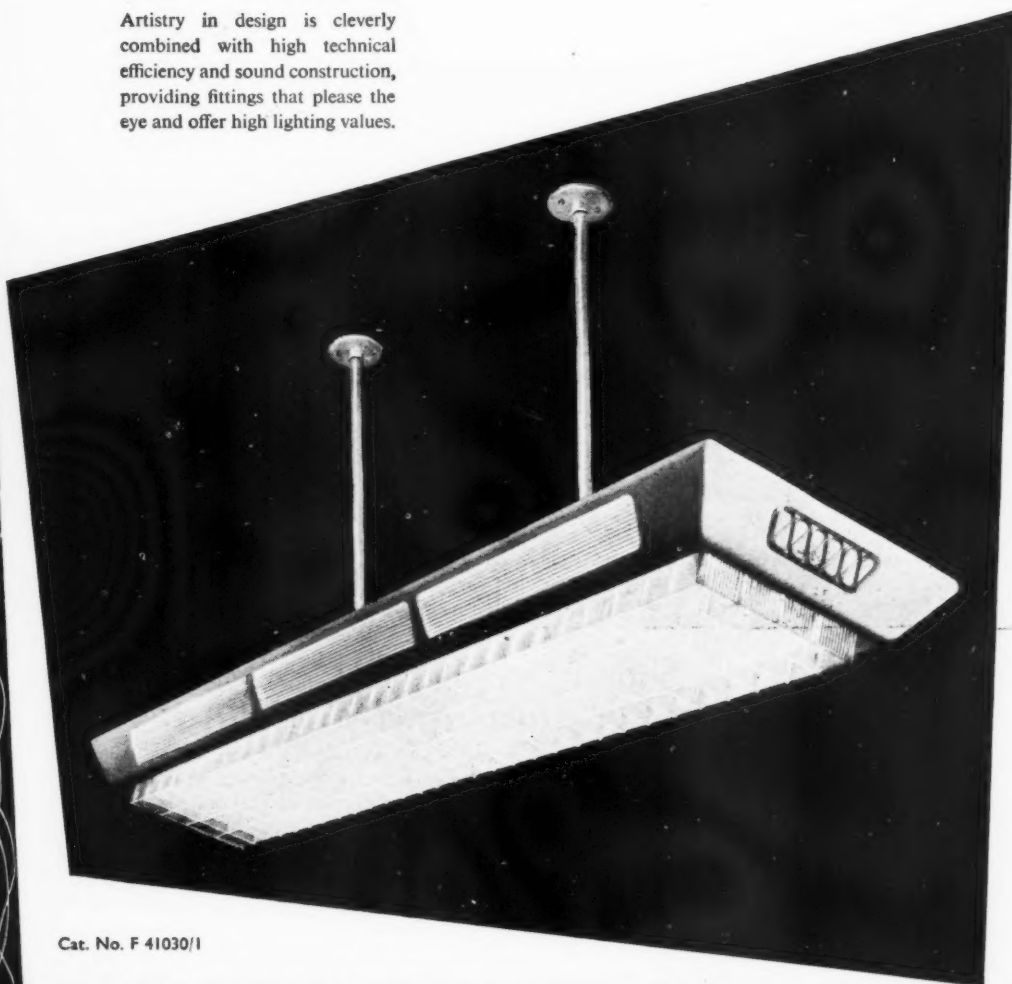
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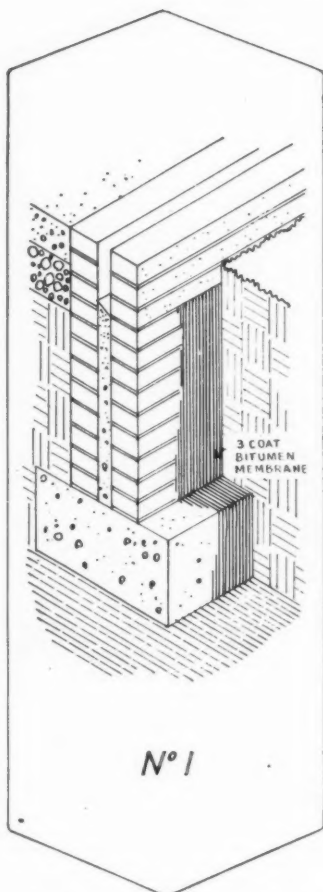
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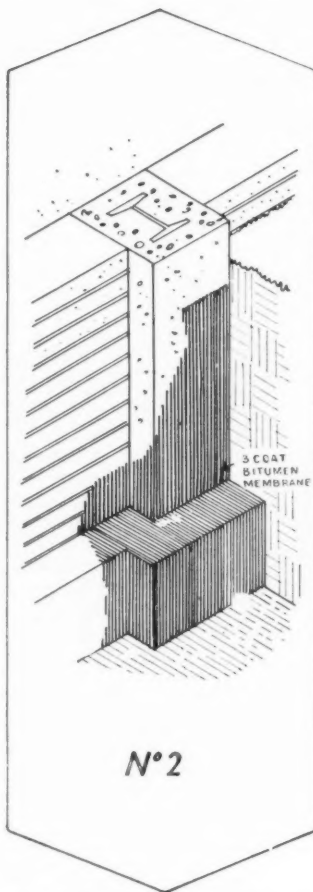
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# PROTECTION OF BUILDING SURFACES BELOW GROUND LEVEL



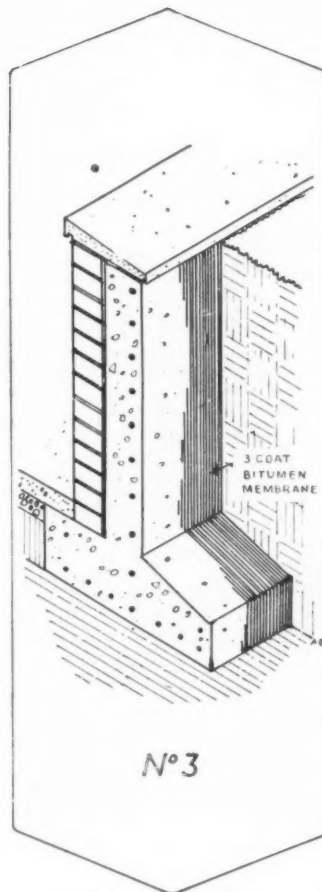
N°1

Protection to foundations of brick built structures in sulphate bearing soils.



N°2

Protection of concrete encased steel-work against chemical corrosion in polluted soils.



N°3

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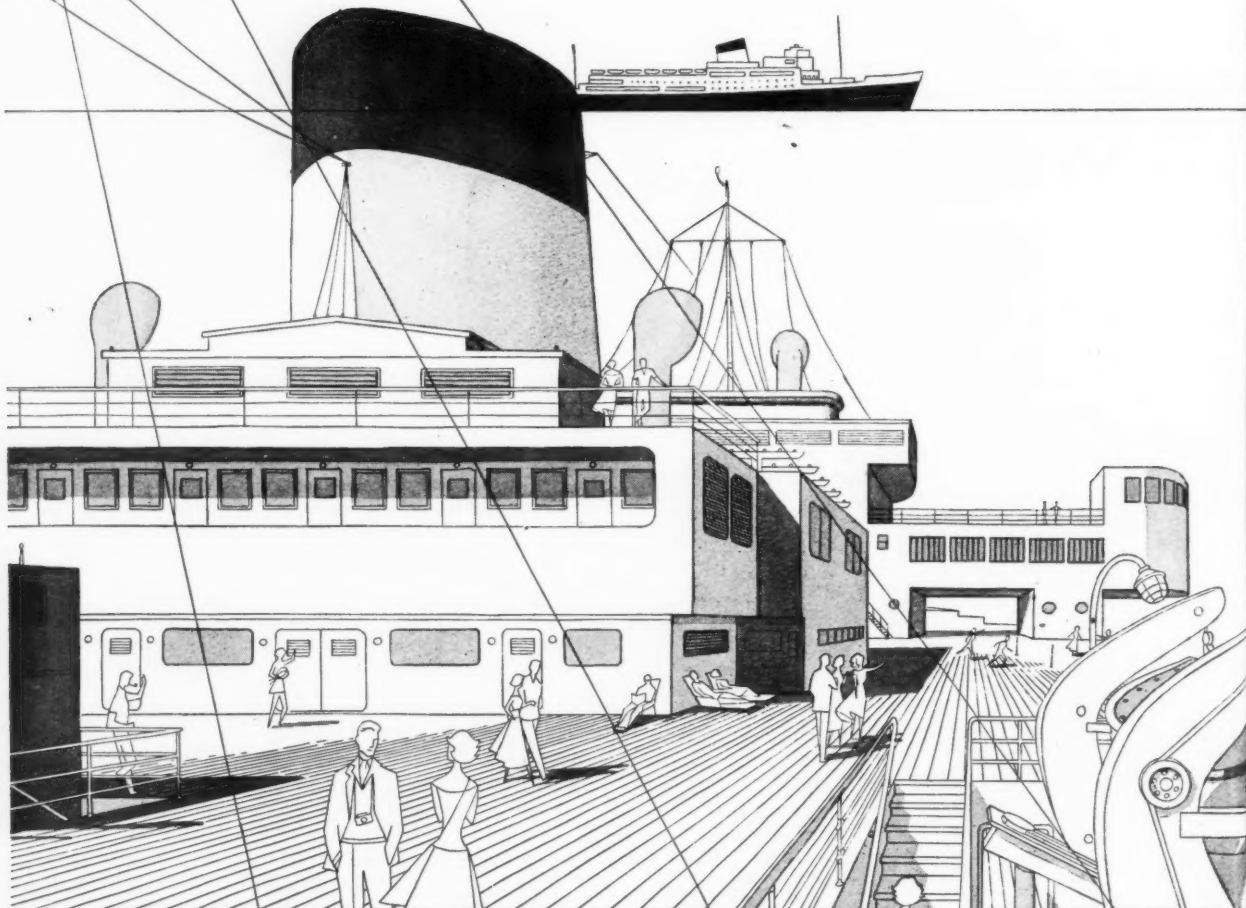
TRETOL HOUSE, THE HYDE, LONDON, N.W.9. Phone: Colindale 7223 (10 lines)

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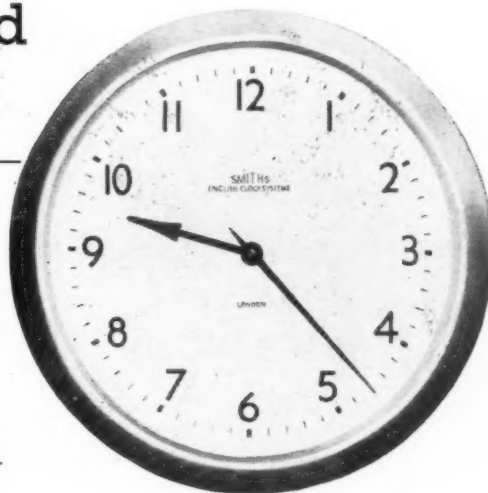
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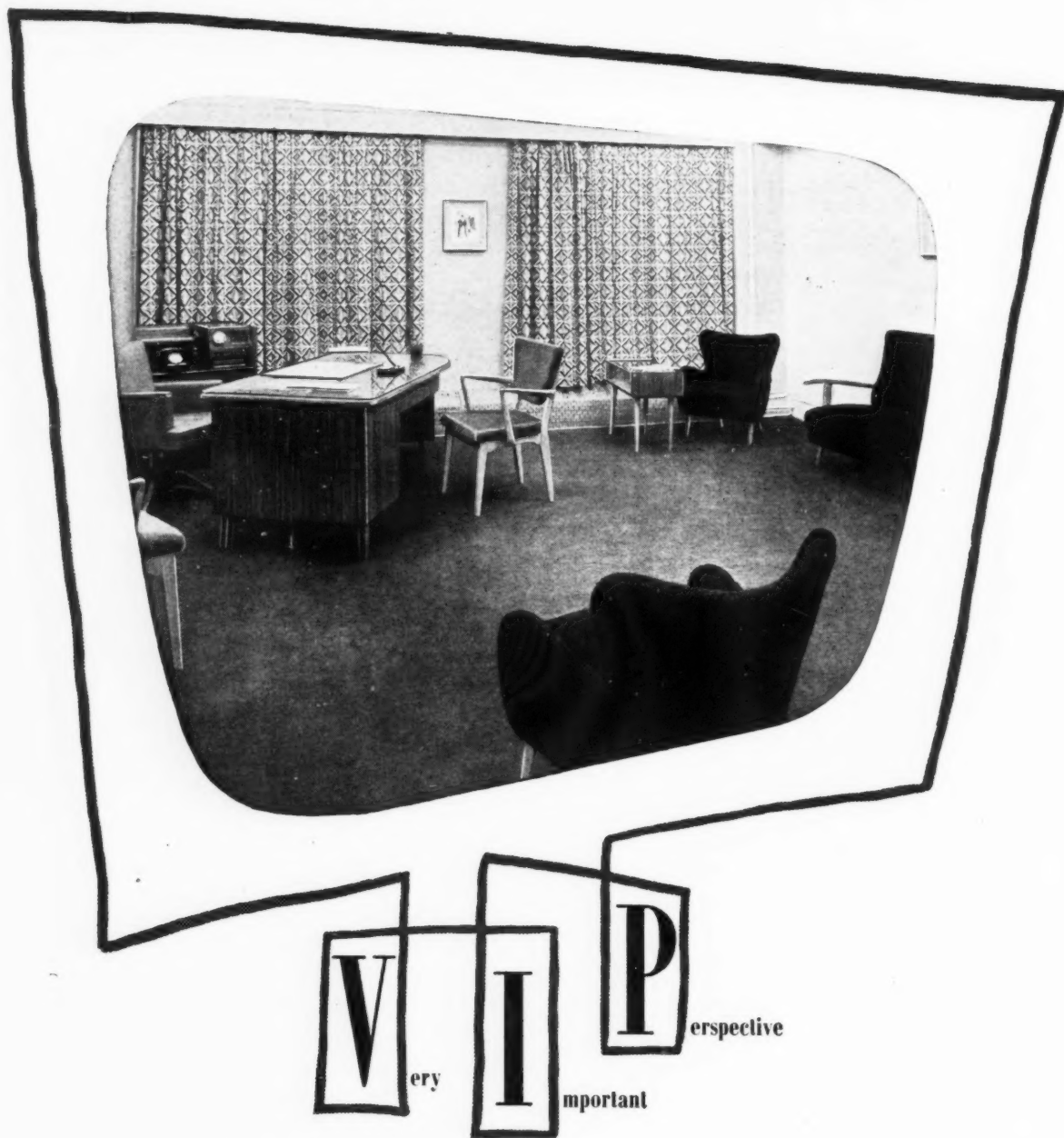
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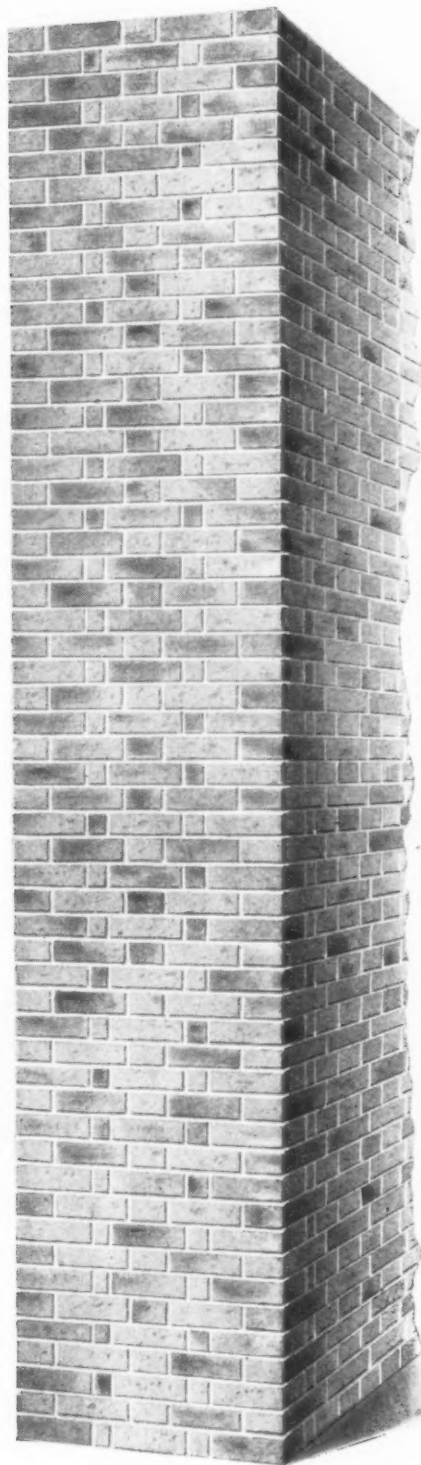
One inch of

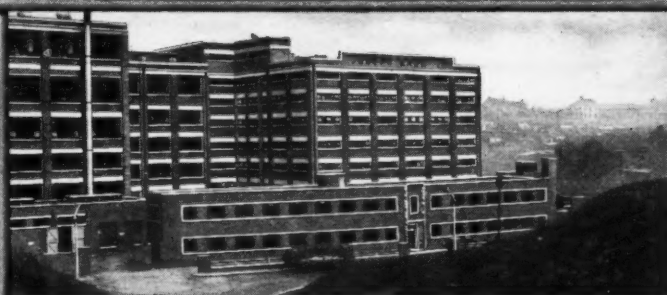
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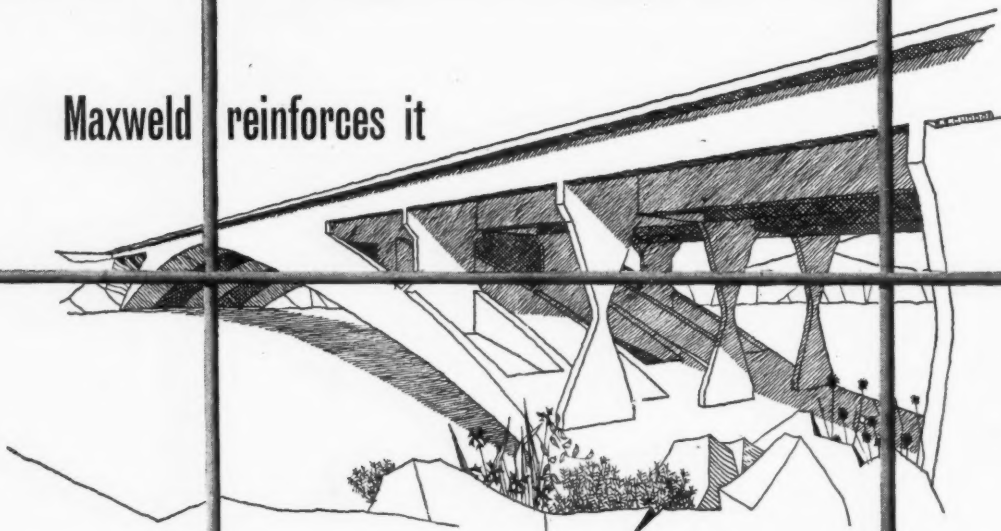
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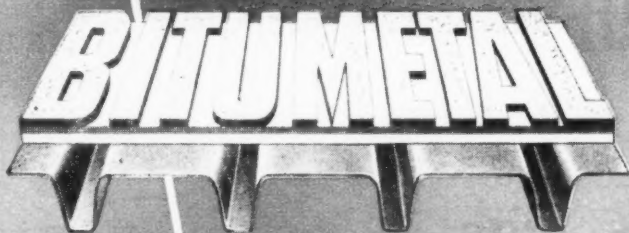
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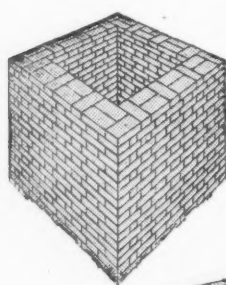
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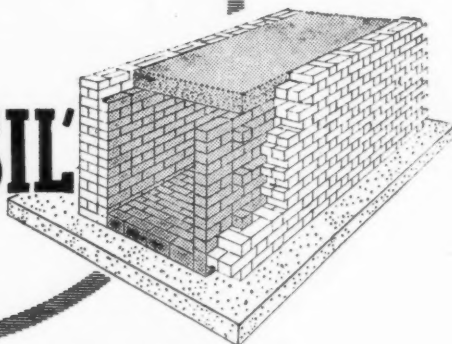
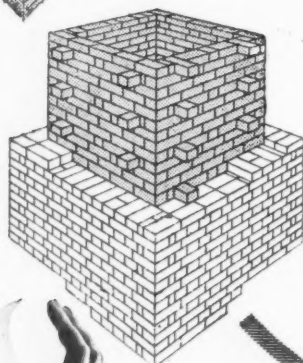
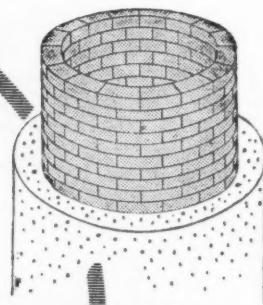
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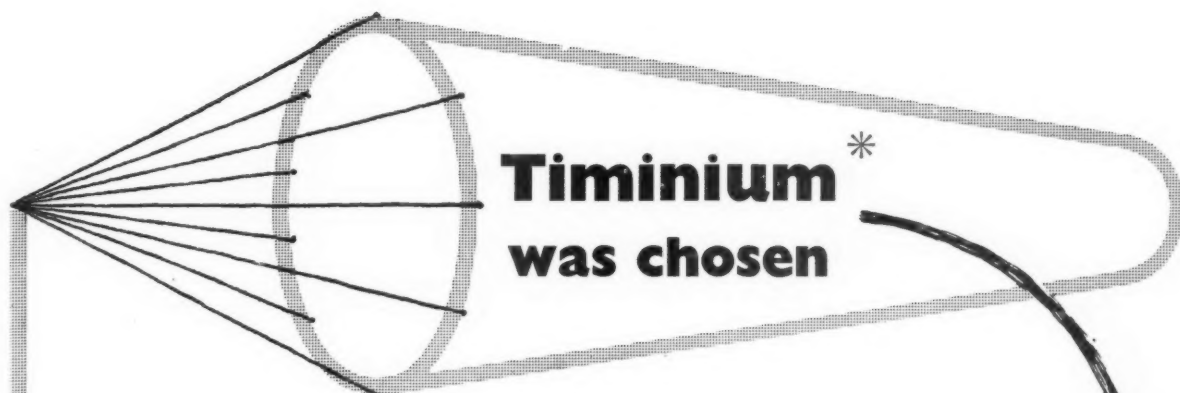
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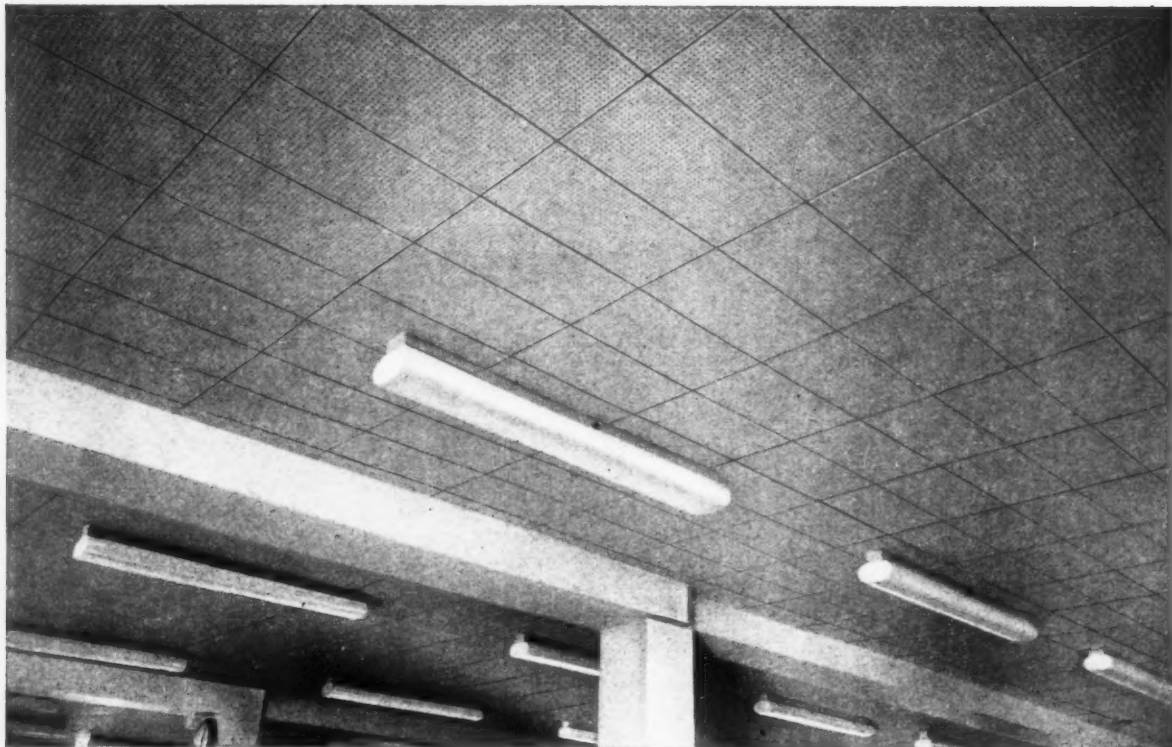
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Architect: Frederick Gibberd

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Photo: Courtesy of Messrs. Ganton & Ganton, Architects, St. Martins le Grand, E.C.1

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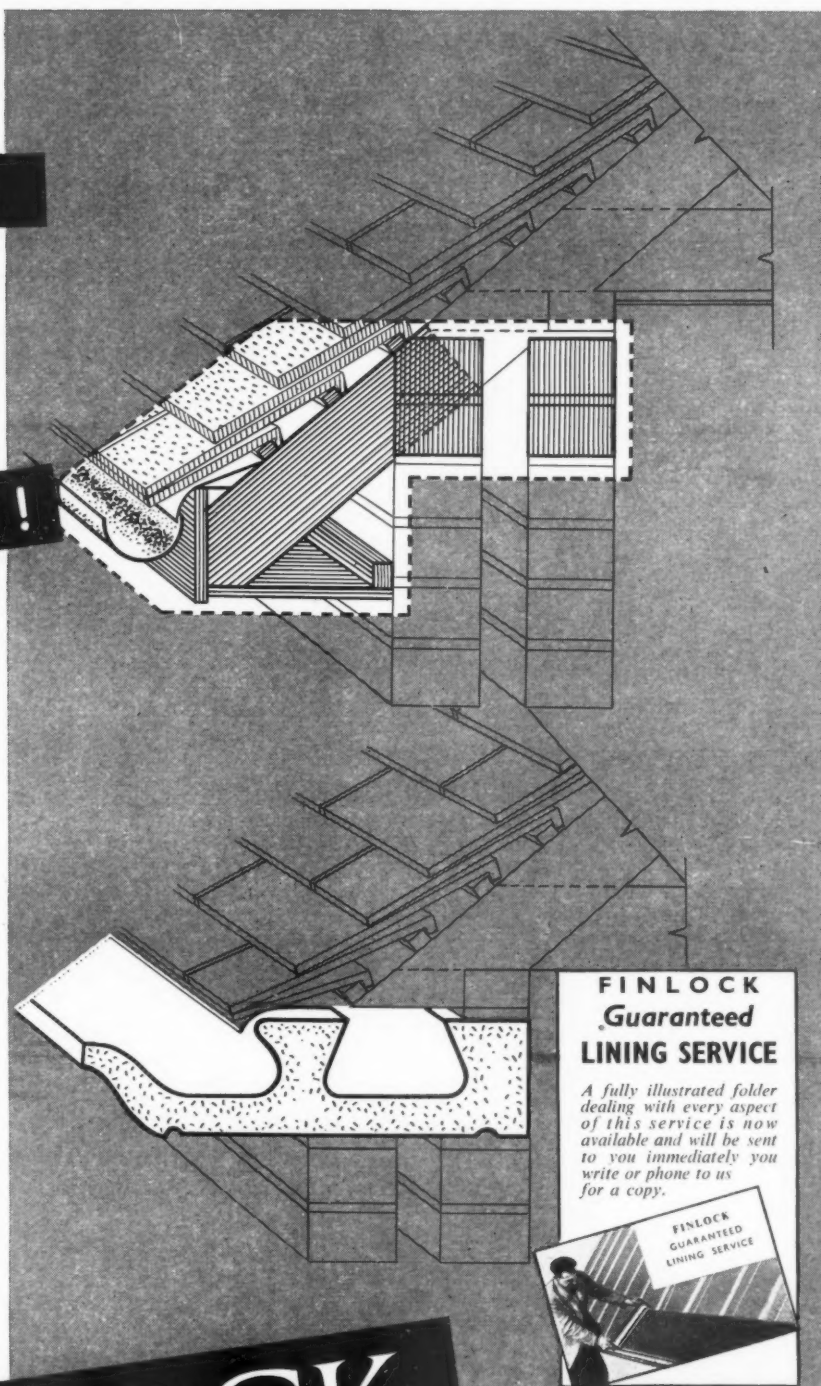
Can you afford to waste money by using outdated construction methods? Take a look at the illustration on the right. All the costly shaded items are replaced by the one simple Finlock Gutter Unit shown below, with lintel cast in situ in the patent rear trough. Maintenance costs? There are *none*.

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DRB 2070

Bracket Clock with striking movement and repeating and alarm mechanism by George Etherington, London, Master of the Clockmakers Company in 1709. The case is of oak, cypress wood veneered.

Reproduced by permission of Camerer Cass, New Oxford Street, London, W.C.1.



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## CLAY ROOFING TILES

Issued by the National Federation of Clay Industries, Drayton House, London, W.C.1.

'The Clay Tile Bulletin,' post free on request



The illustration depicts a child's playroom with a unique glass-paneled roof. Two boys are shown: one is kneeling on the floor, focused on a model train set, while the other stands behind him, holding a large model airplane. Several other model airplanes are suspended in the air, appearing to fly through the roof's glass panels. The room contains various toys, including a ball and a small stool. A framed picture of a classical head hangs on the wall. The overall scene is a black and white illustration with a detailed, artistic style.



**Roof lighting made easy**

Let in daylight through Pilkington's Glass Slates or tiles. They are made in patterns to match all standard sizes of slates and tiles. (Details on request).

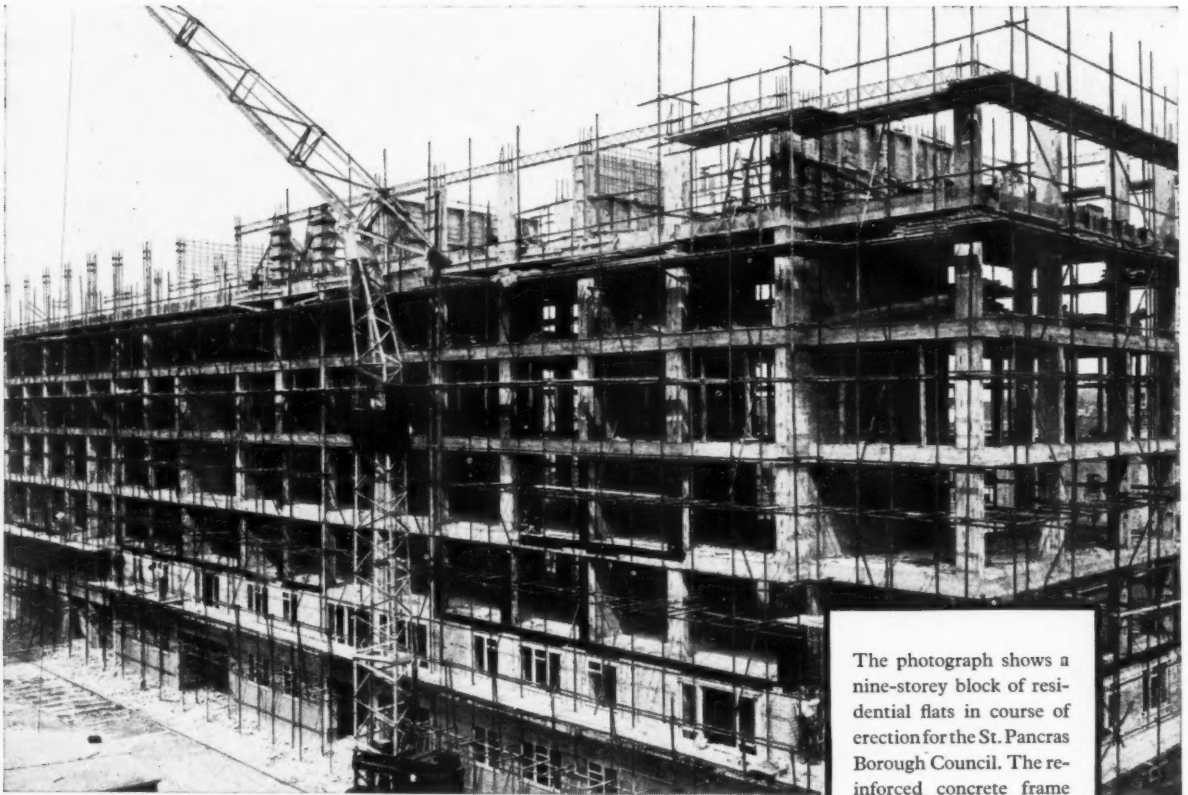
PILKINGTON'S  
**GLASS SLATES AND TILES**  
PILKINGTON BROTHERS LIMITED

FOR FURTHER INFORMATION ON THE USE OF GLASS IN BUILDING CONSULT THE TECHNICAL SALES AND SERVICE DEPT., ST. HELENS, LANCs. (TELEPHONE: ST. HELENS 4001) OR SELWYN HOUSE, CLEVELAND ROW, ST. JAMES'S, LONDON, S.W.1 (TELEPHONE: WHITEHALL 5672-6). SUPPLIES ARE AVAILABLE THROUGH THE USUAL TRADE CHANNELS.

GST B



## FOR CONCRETE REINFORCEMENT



The photograph shows a nine-storey block of residential flats in course of erection for the St. Pancras Borough Council. The reinforced concrete frame was carried out in our patent FRAMEWELD system.

*Architects : Norman & Dawbarn. Contractors : St. Pancras Borough Council, Building Department.*

# FRAMEWELD

TRADE MARK

PATENT No. 589066

**A real time and money saver**

A copy of the FRAMEWELD handbook describing the system will be sent on request.

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REINFORCEMENT ENGINEERS

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Telephone: SHEpherds Bush 2020

SOUTH WALES OFFICE : BUTE STREET, CARDIFF

Telephone: Cardiff 28786

REINFORCEMENT DEPARTMENT:

17 BUCKINGHAM PALACE GARDENS, LONDON, S.W.1

Telephone: SLOane 5271

WORKS: Shepherds Bush, London

Neasden, Middx.

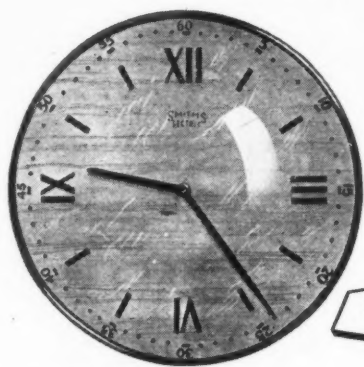
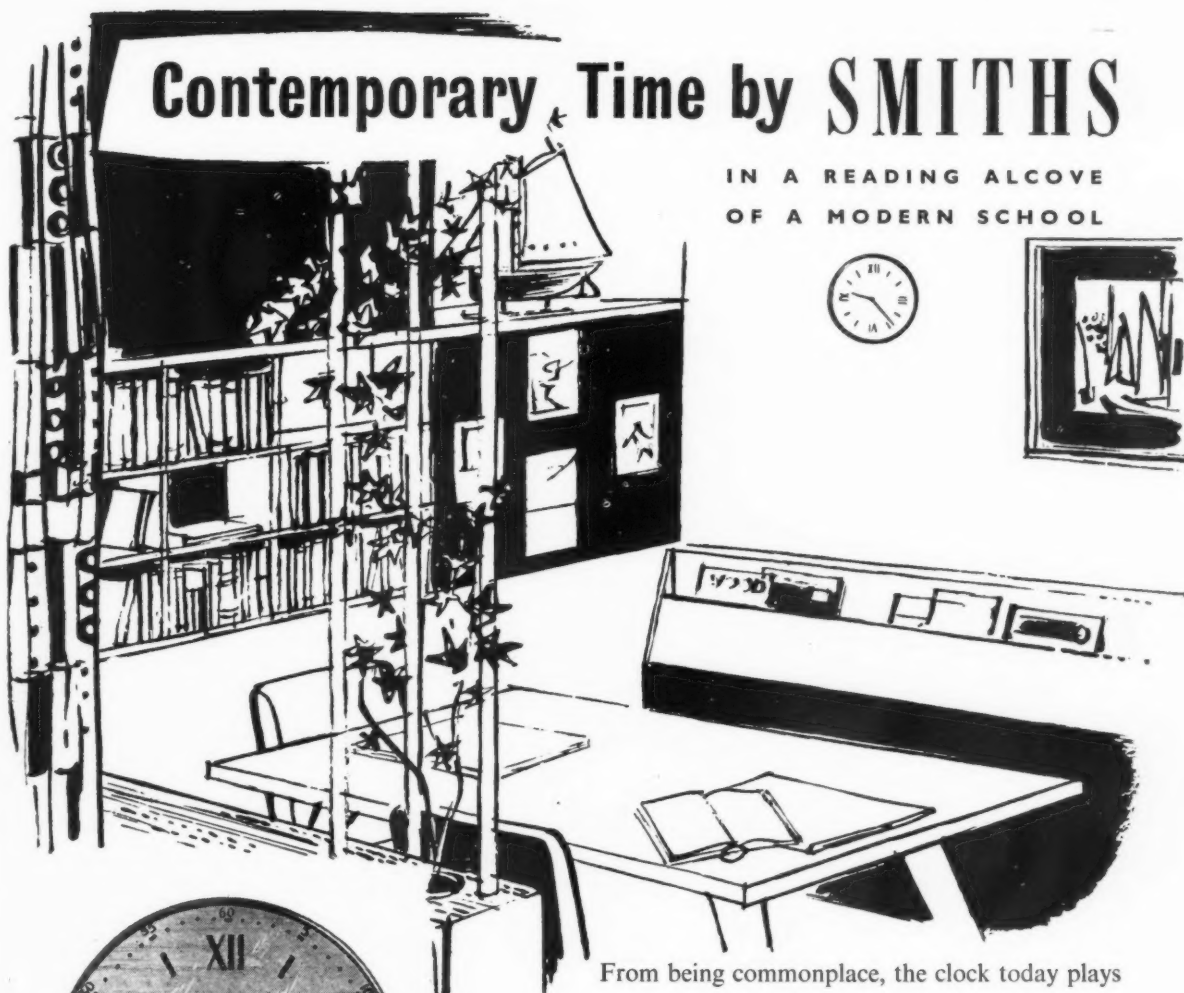
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*All reinforcement enquiries please, to: 17 Buckingham Palace Gardens, London, S.W.1*

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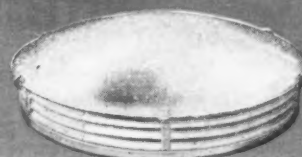


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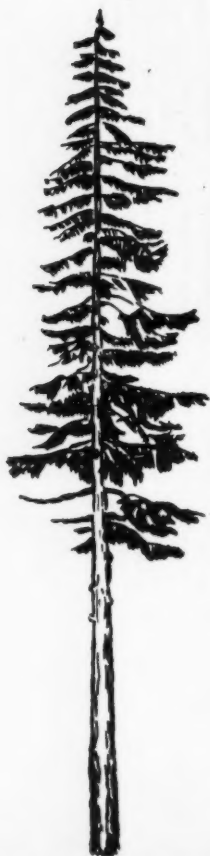
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- cabinets and cupboards
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- ladder stock
- shiplap
- gymnasium floors
- ballroom floors

FOR FURTHER INFORMATION concerning Canadian woods contact The Commercial Counsellor (Timber), Canada House, Trafalgar Sq., London, S.W.1.

*Reproduced here is figure of Pacific Coast Hemlock*

*This advertisement is one of a series featuring Canadian Douglas Fir, Spruce, White Pine, Red Pine and Western Red Cedar.*

TIM I



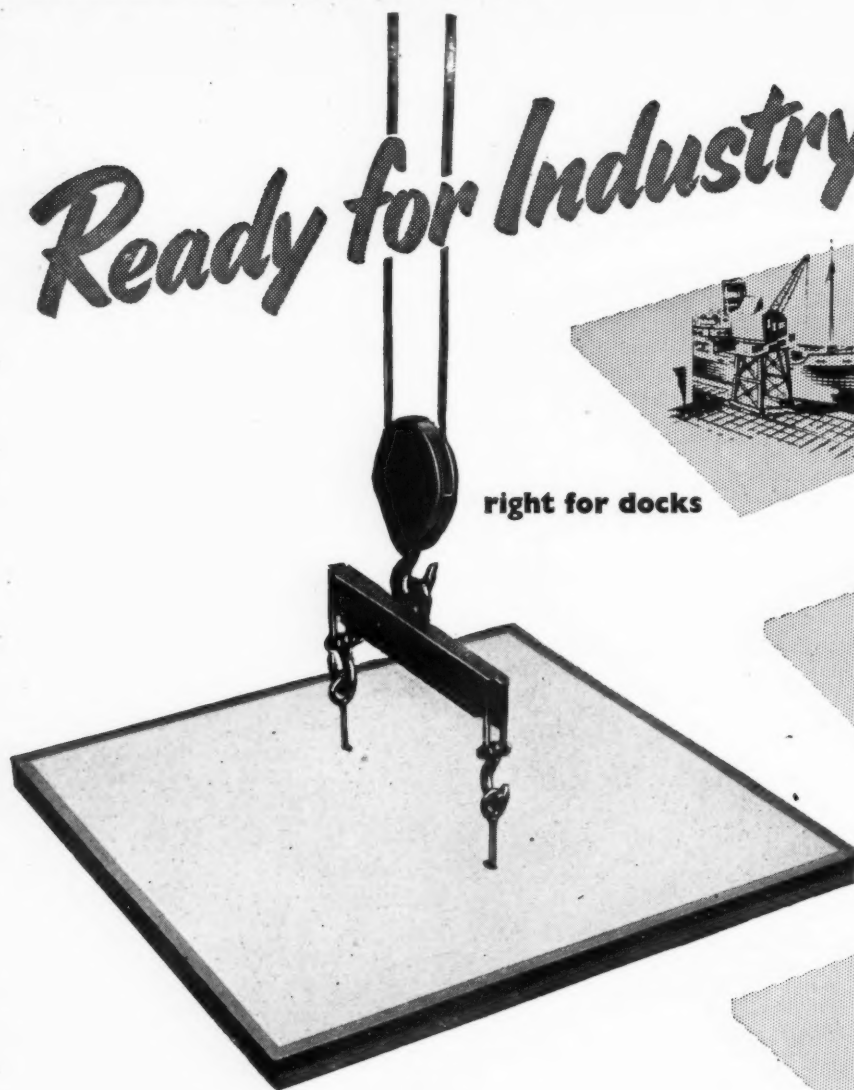


*Acoustics by* **BURGESS**

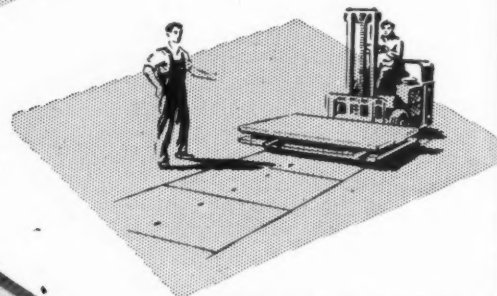
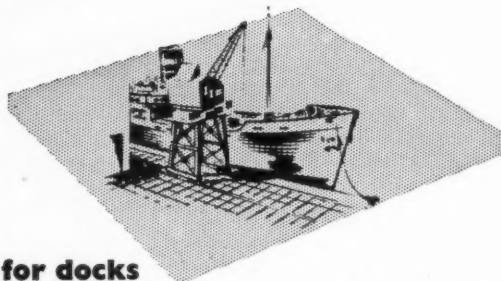
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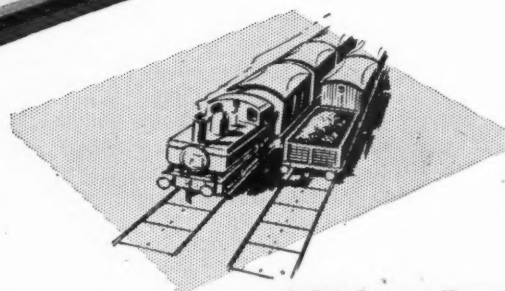
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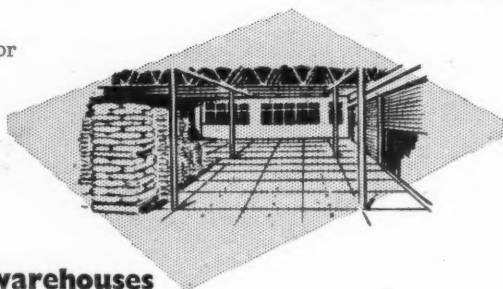
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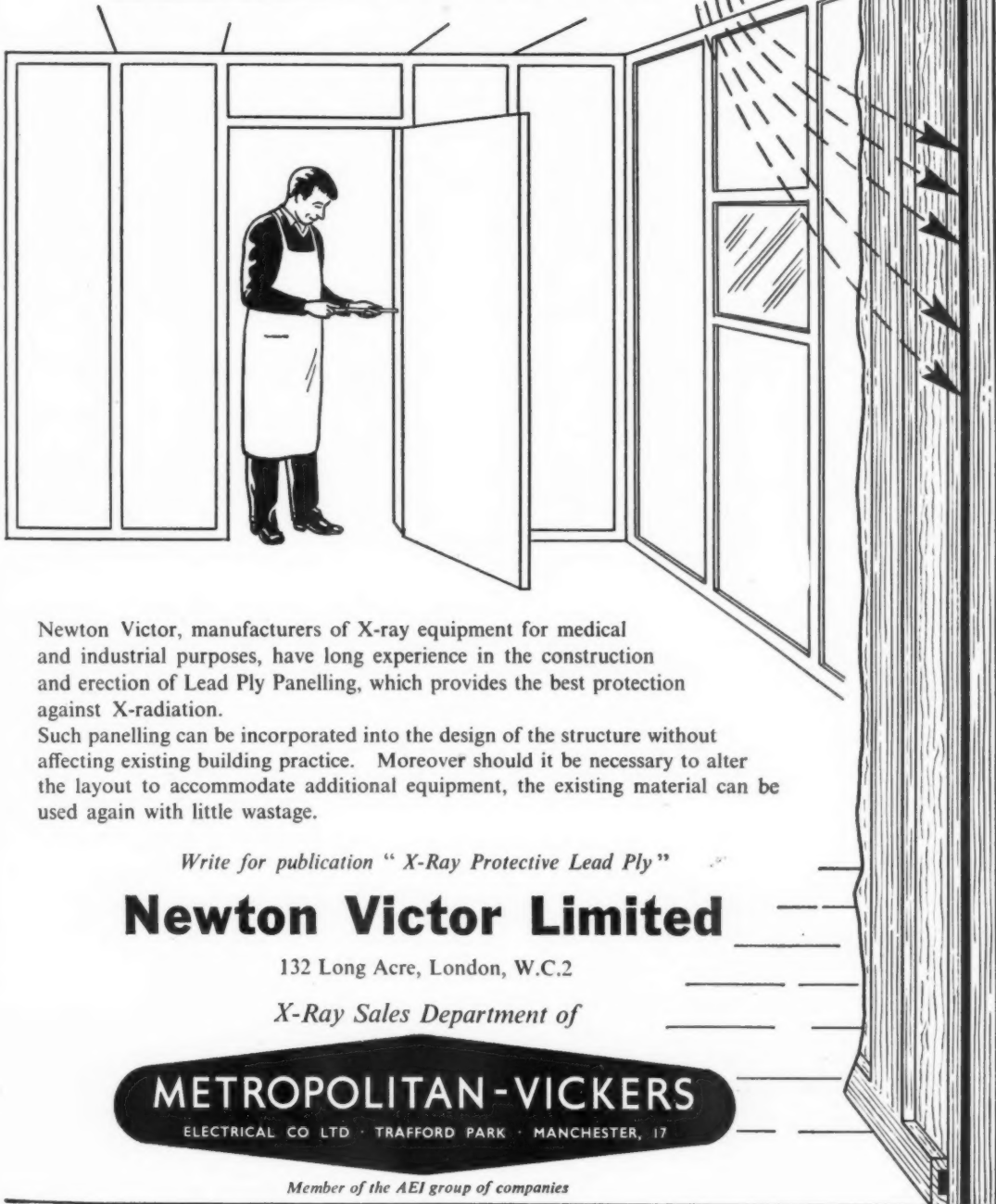
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**strong — mobile — adaptable**

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*X-Ray Sales Department of*

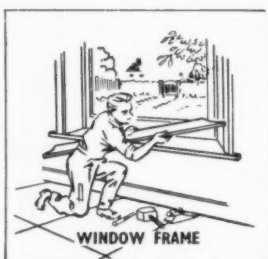
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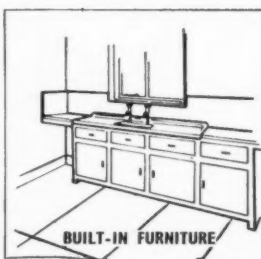
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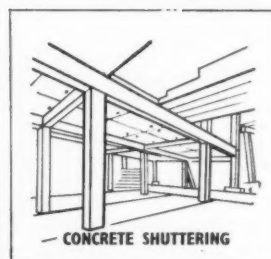
SARKING



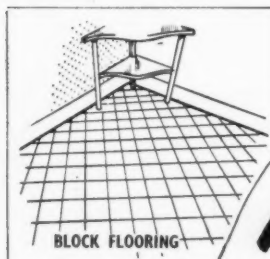
WINDOW FRAME



BUILT-IN FURNITURE



CONCRETE SHUTTERING

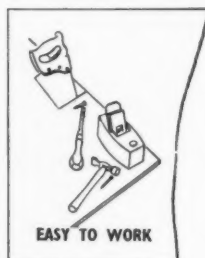


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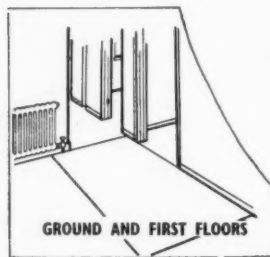
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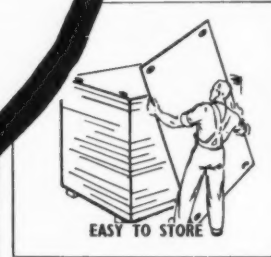
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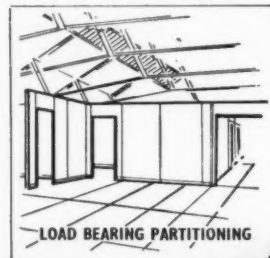
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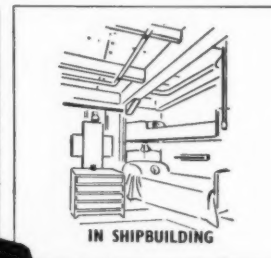
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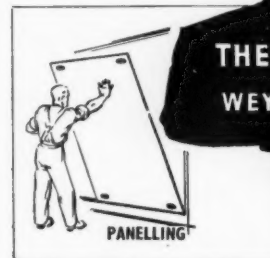
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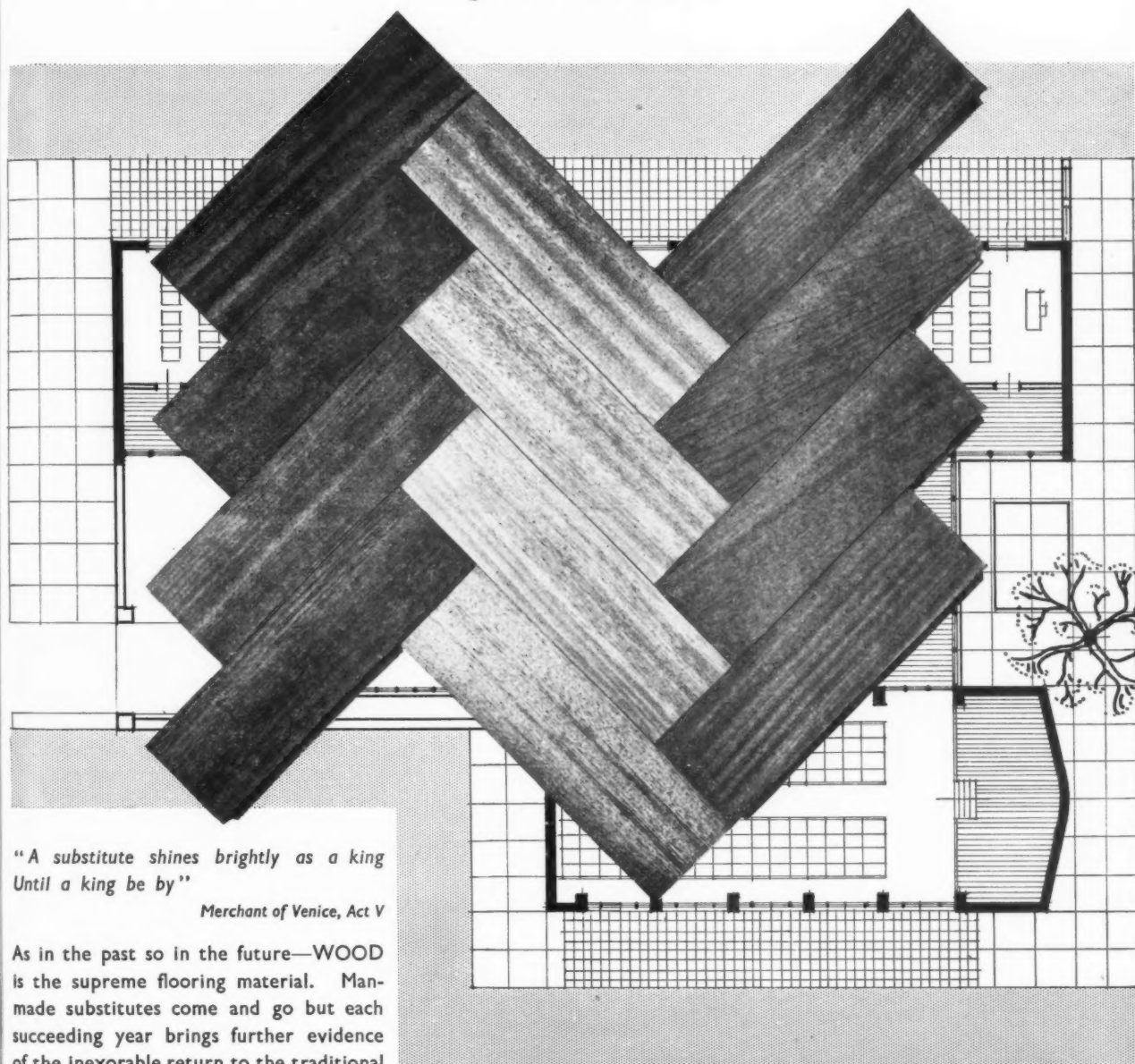


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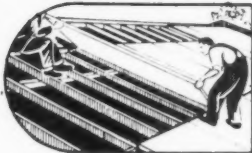
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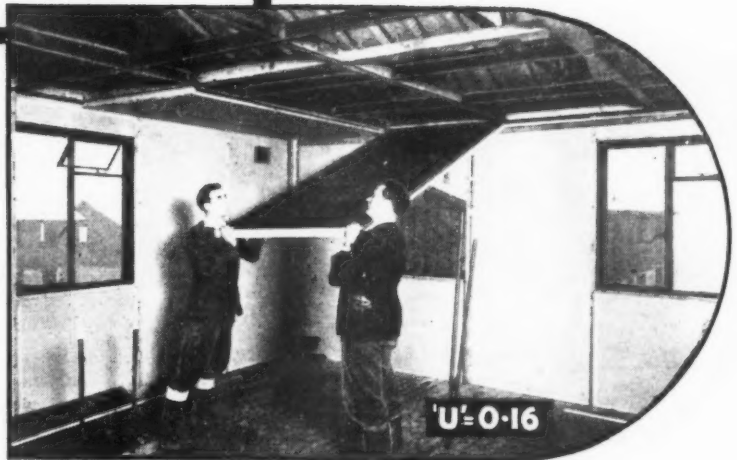
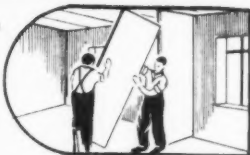


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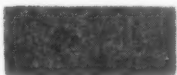
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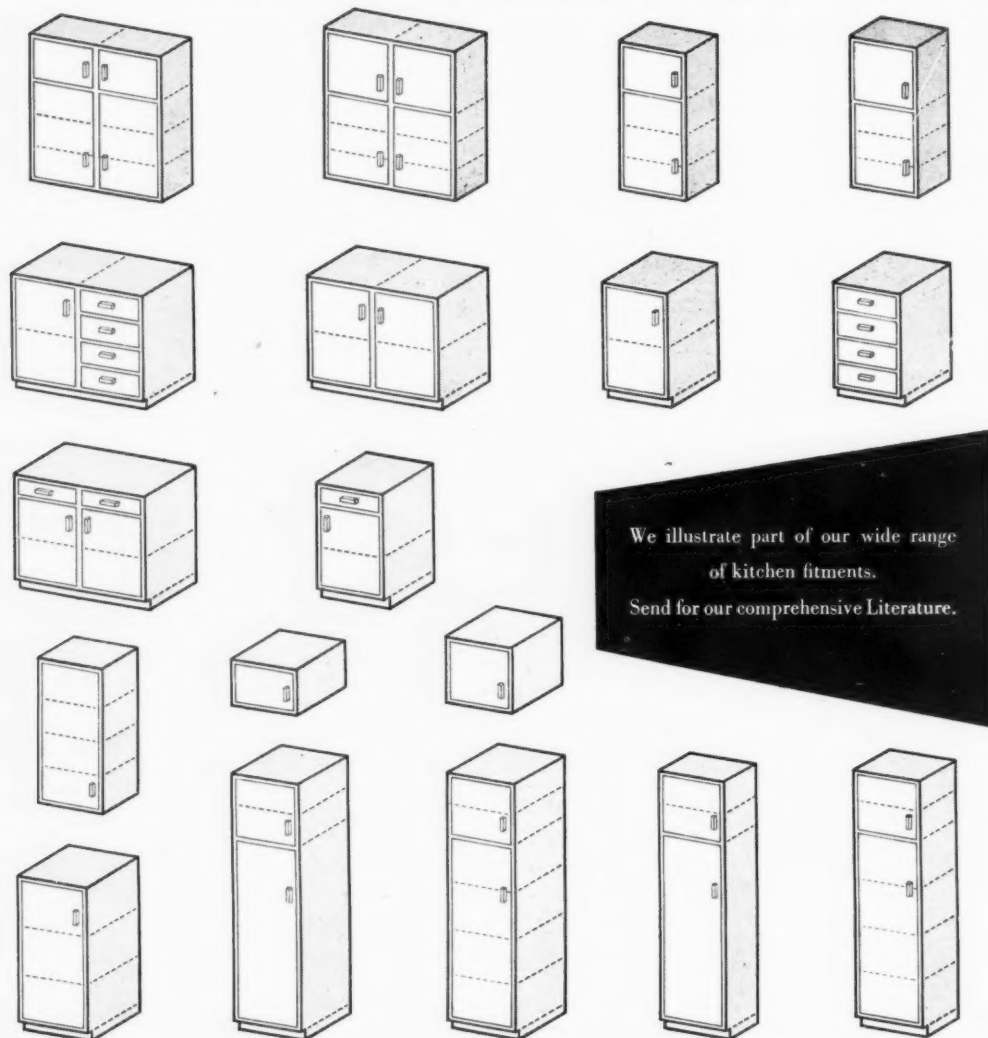
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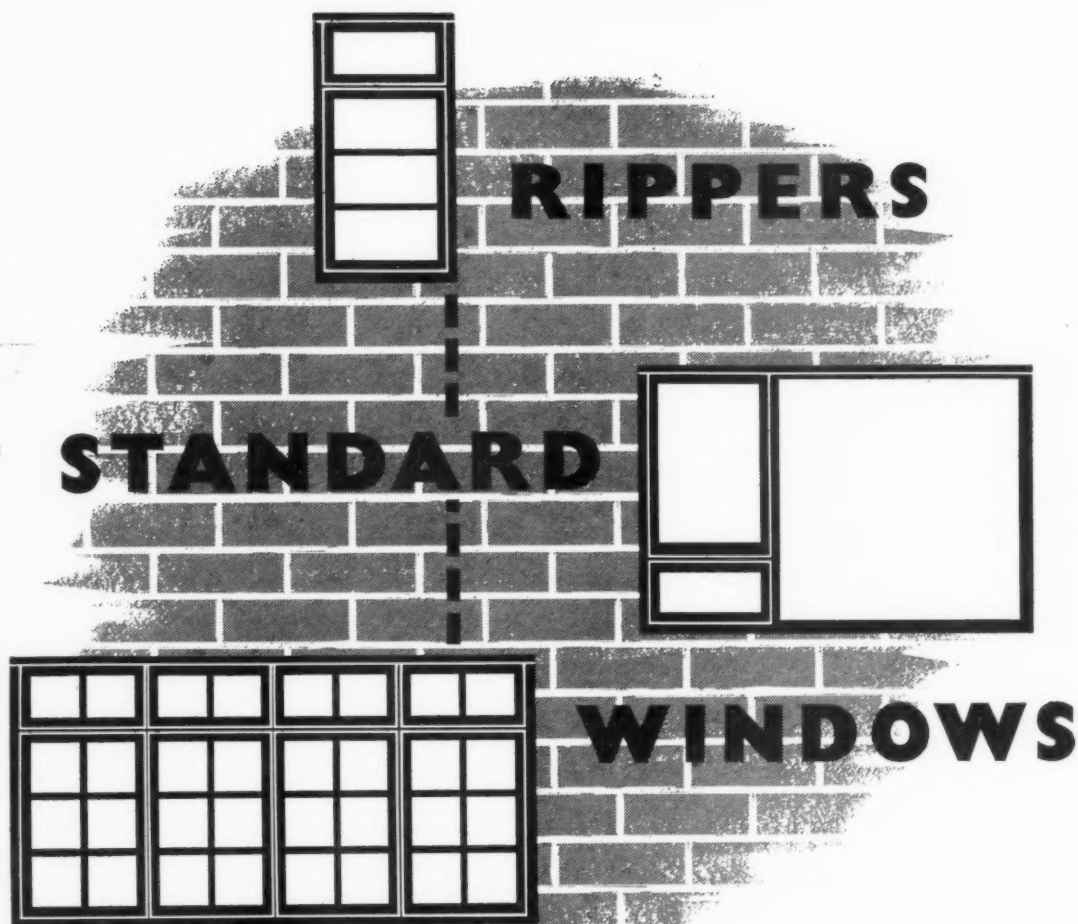
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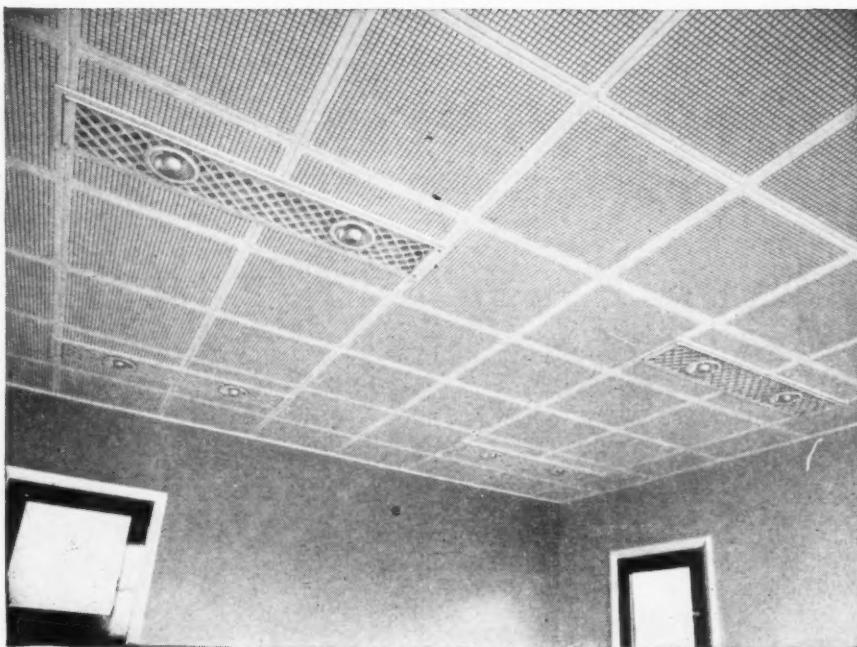
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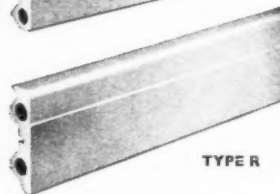
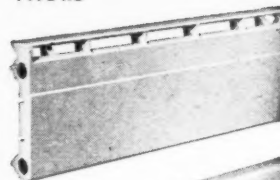
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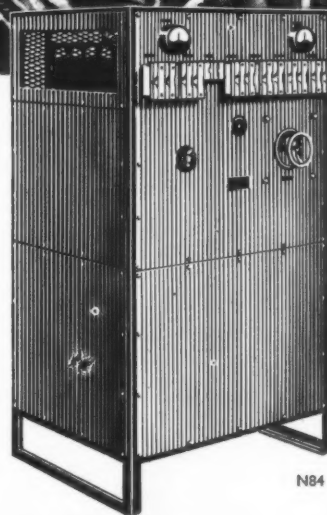


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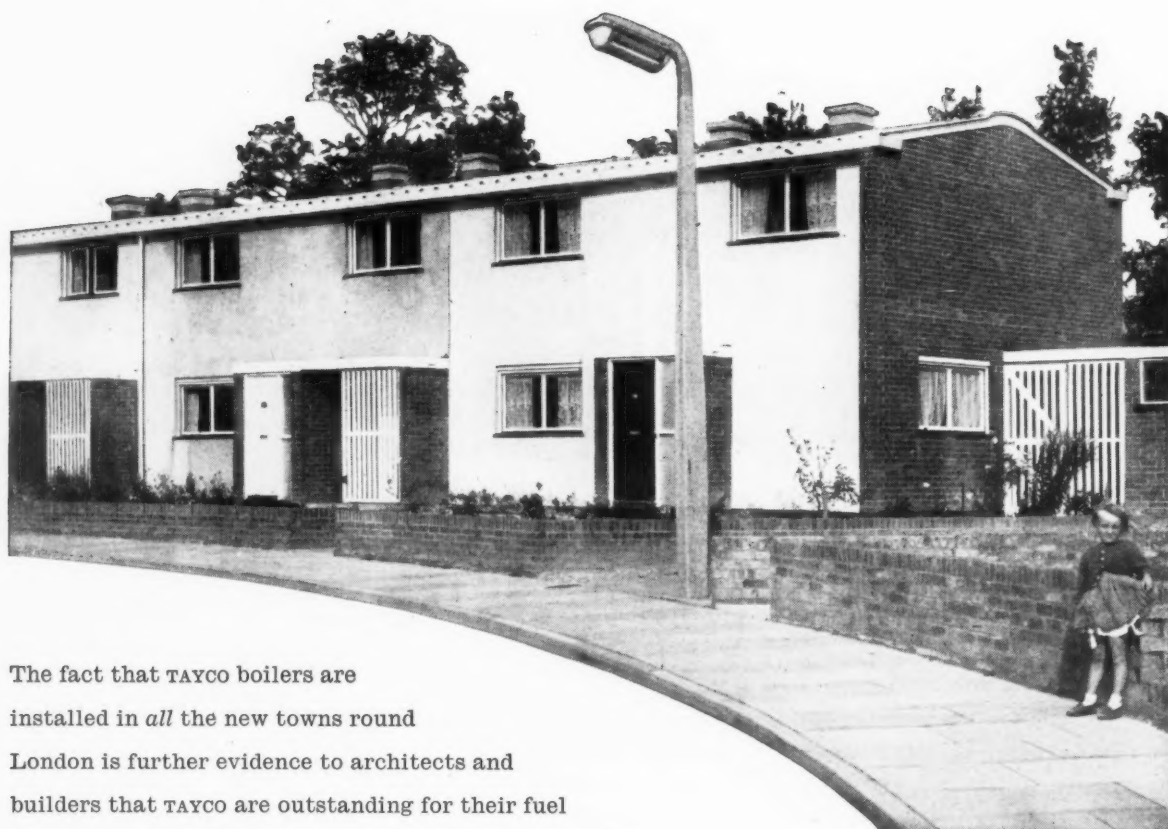
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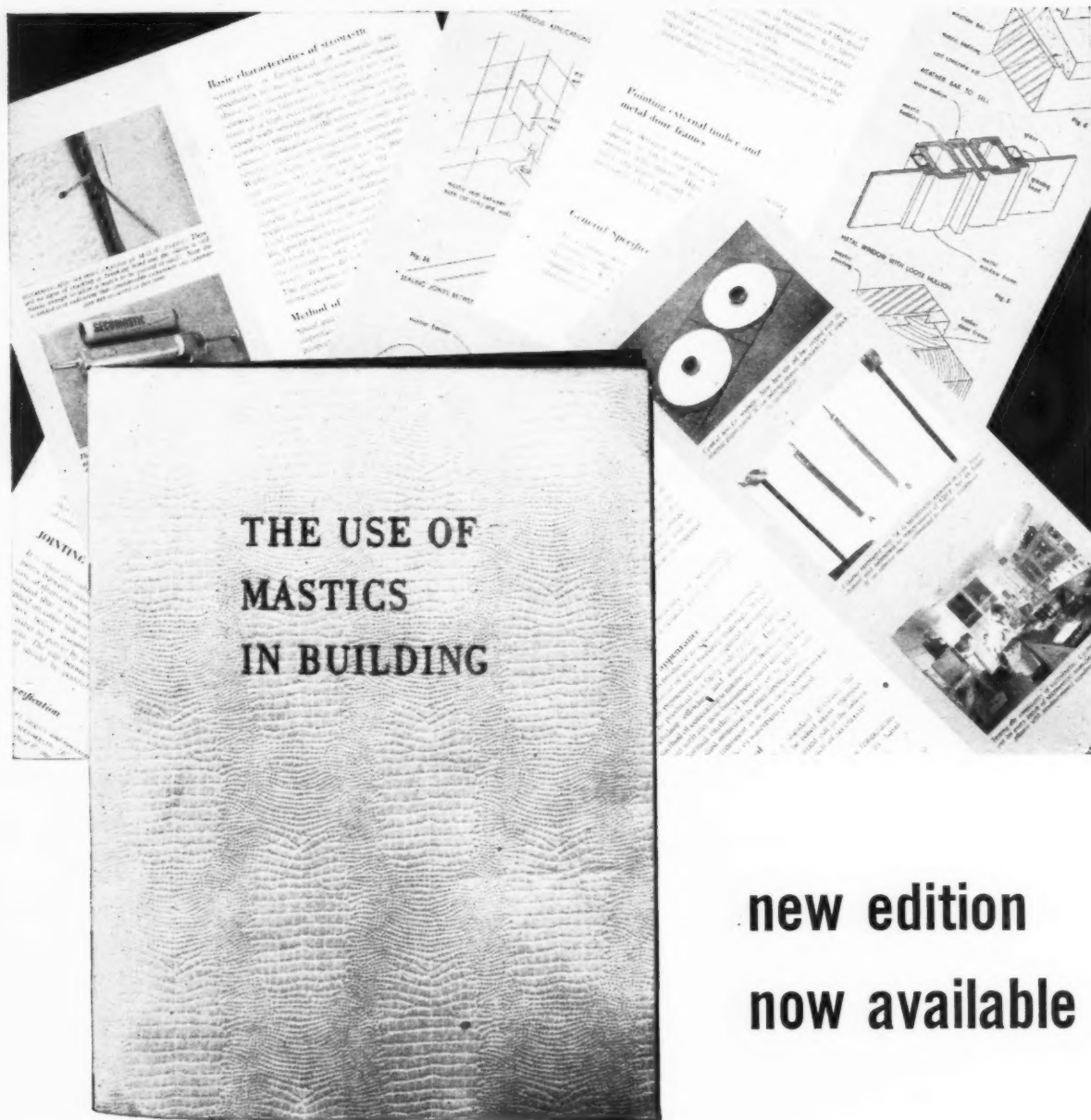
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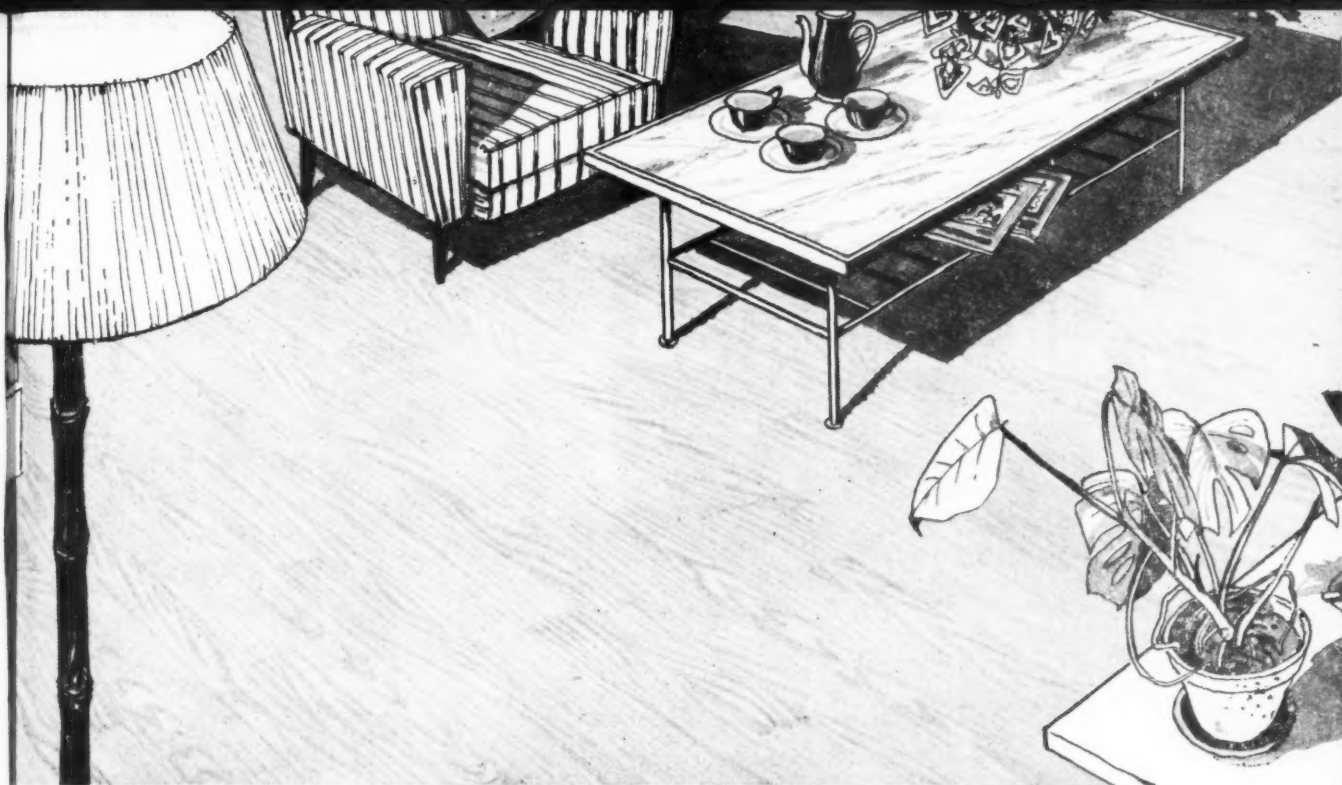
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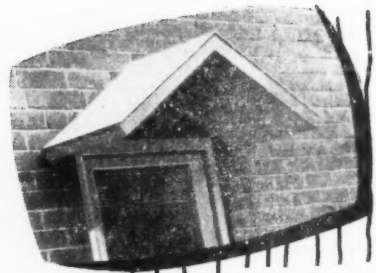
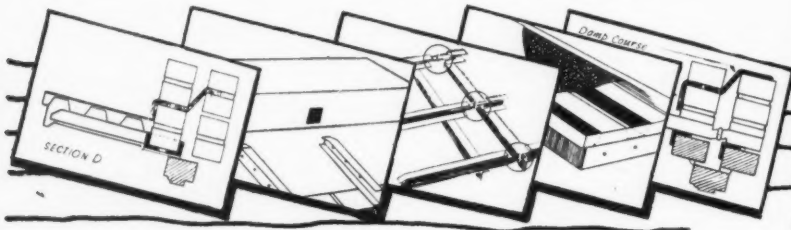
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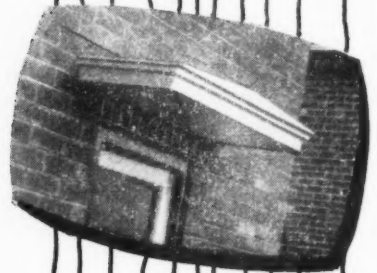
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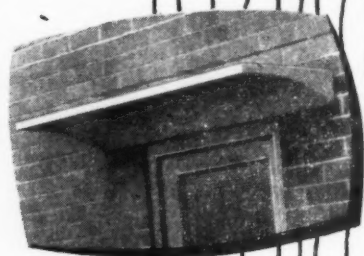
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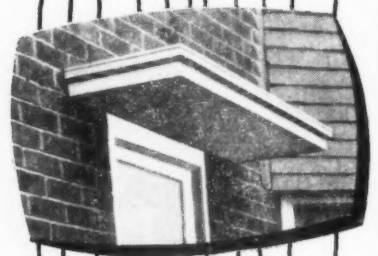
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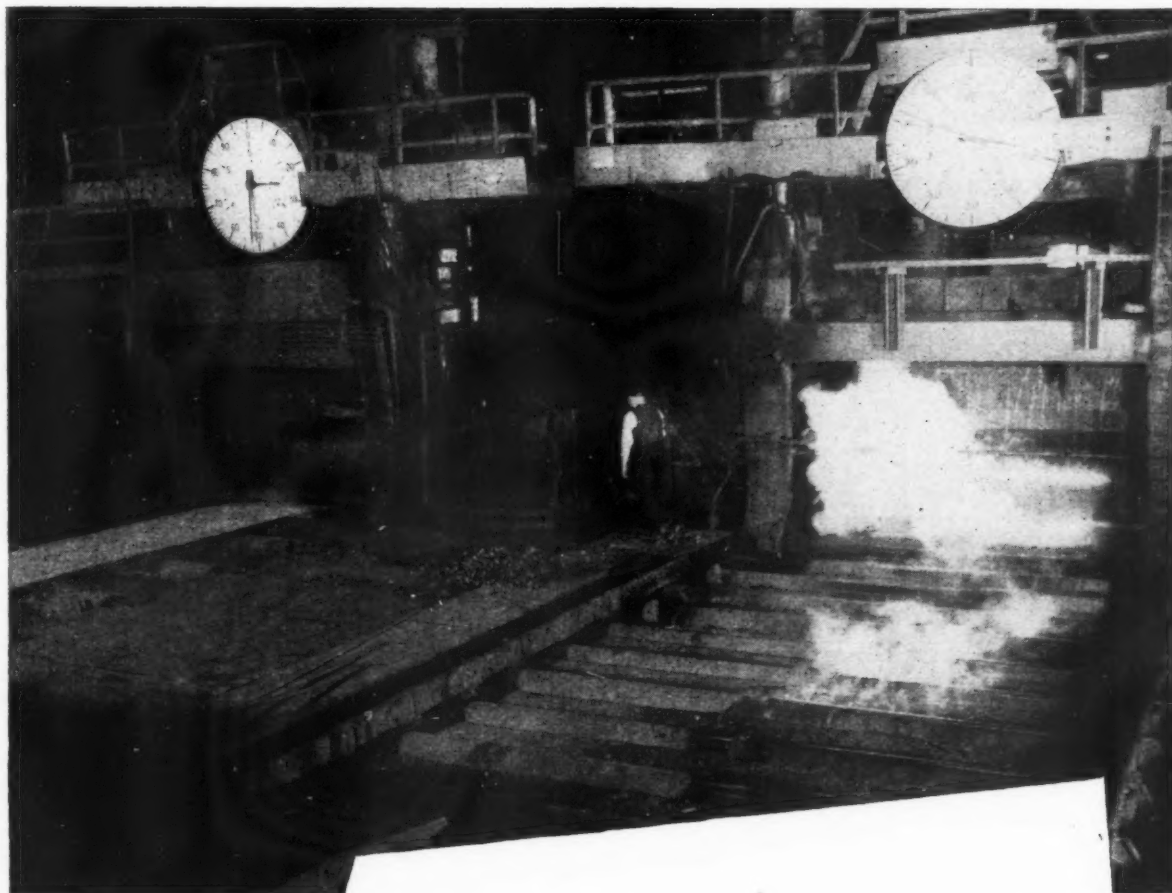


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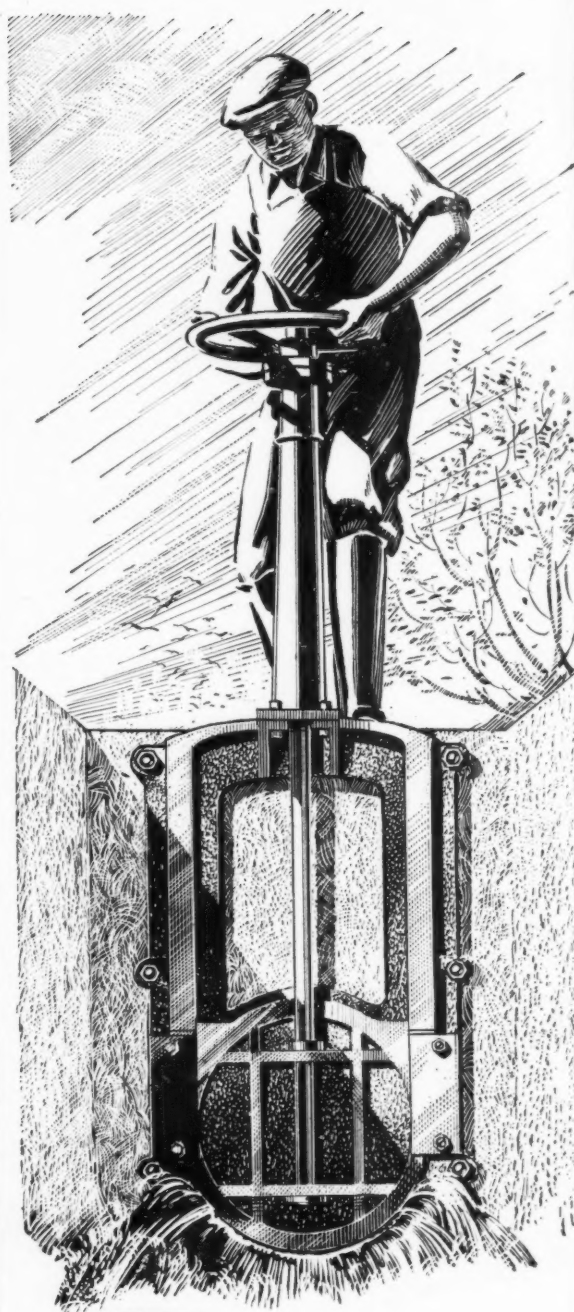
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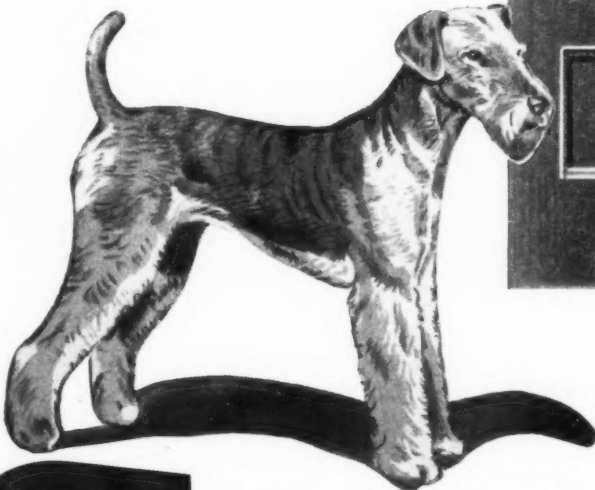
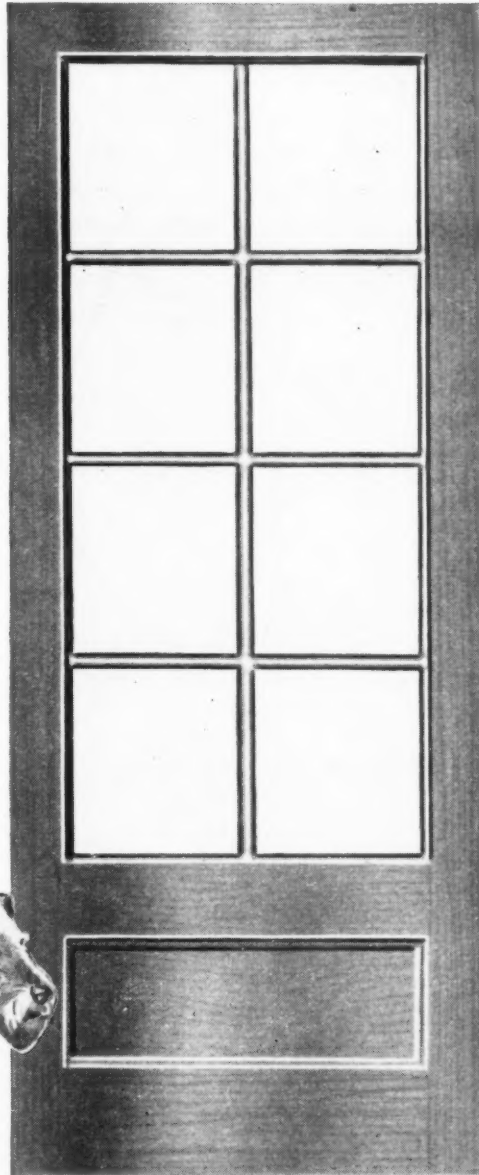
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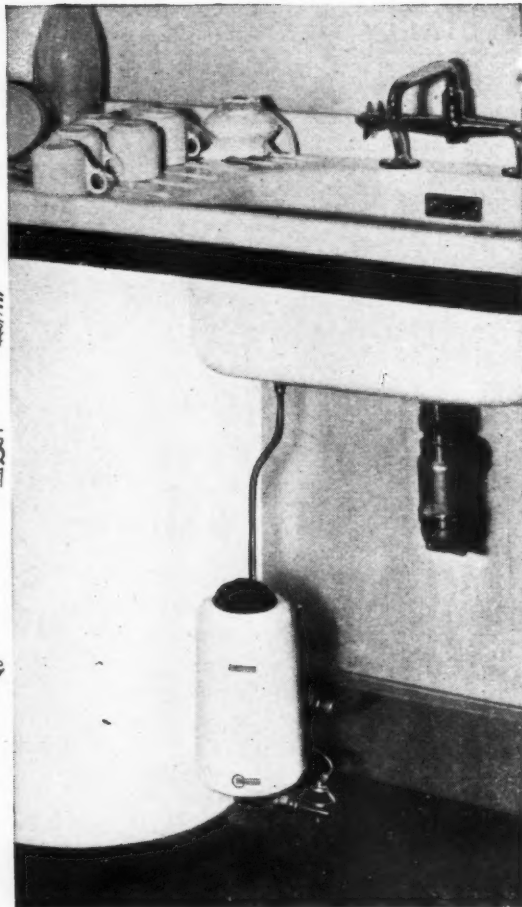
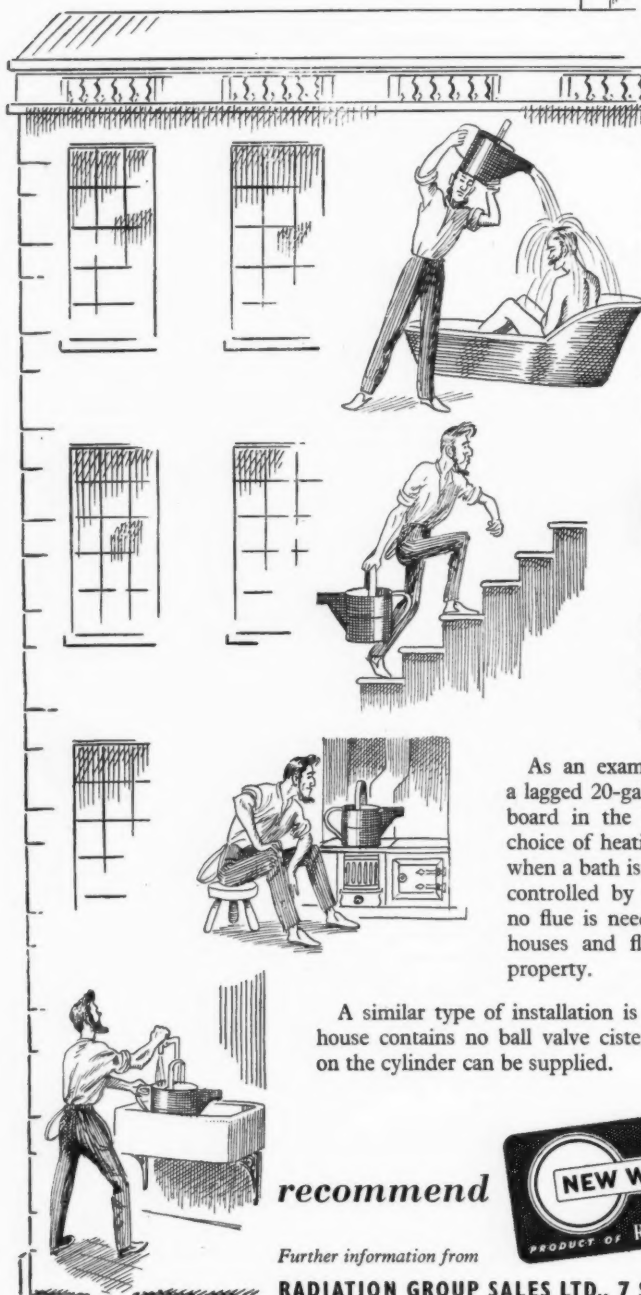
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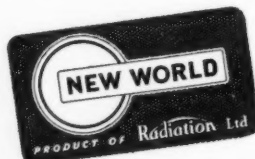


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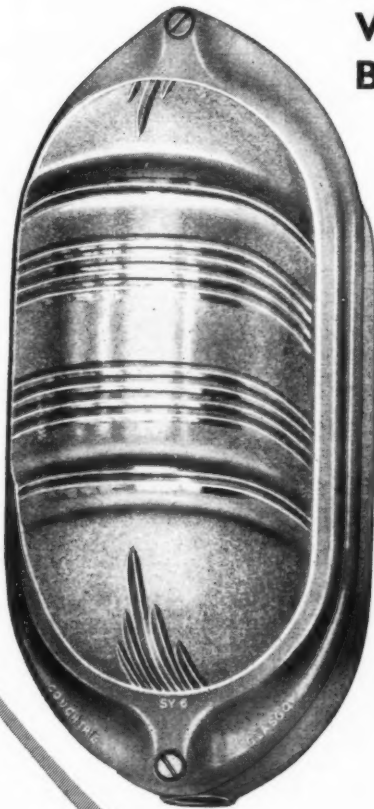


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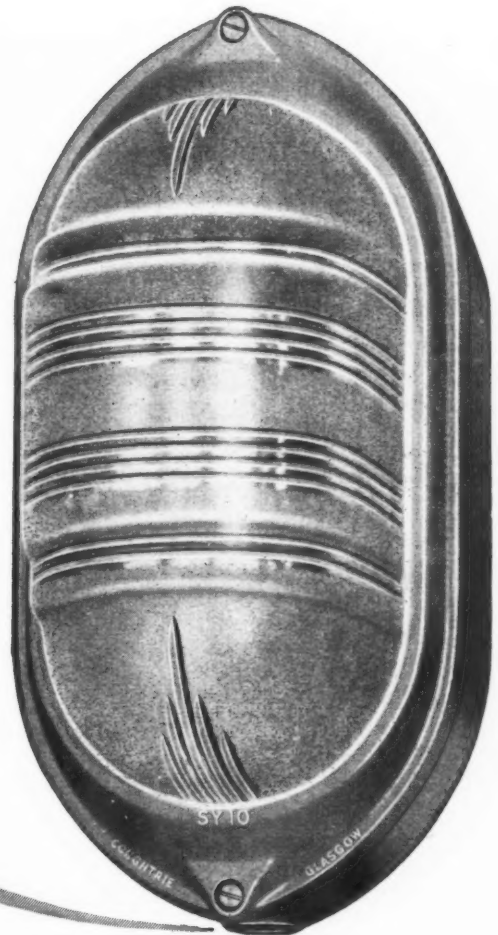
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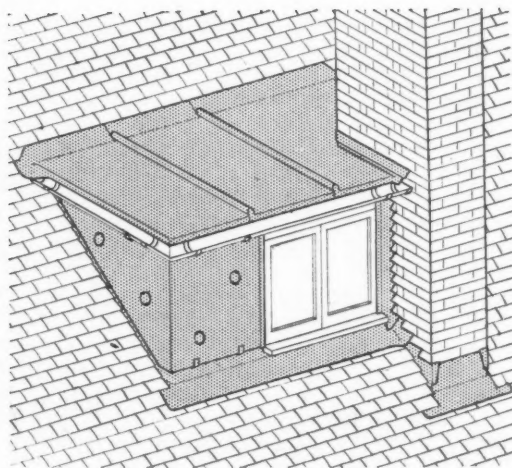
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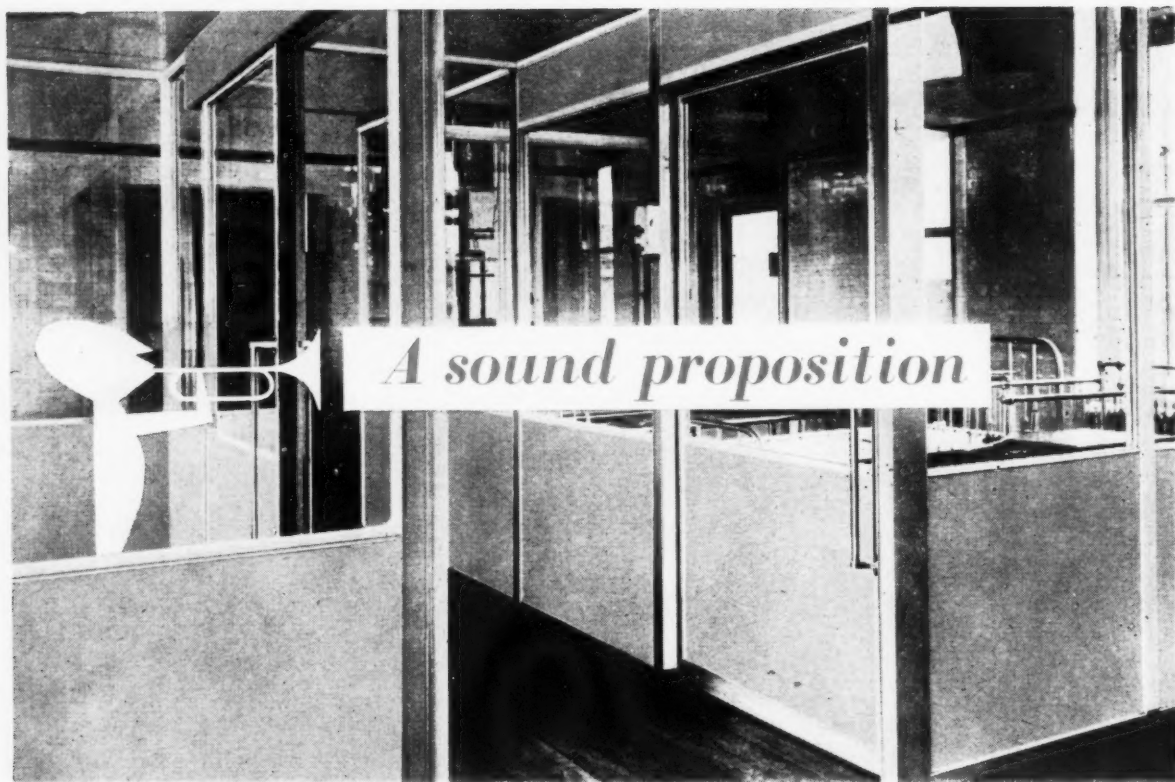
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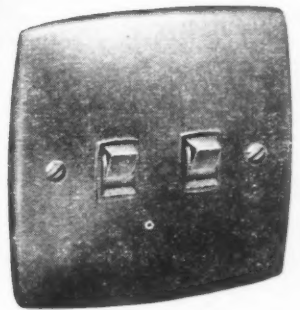




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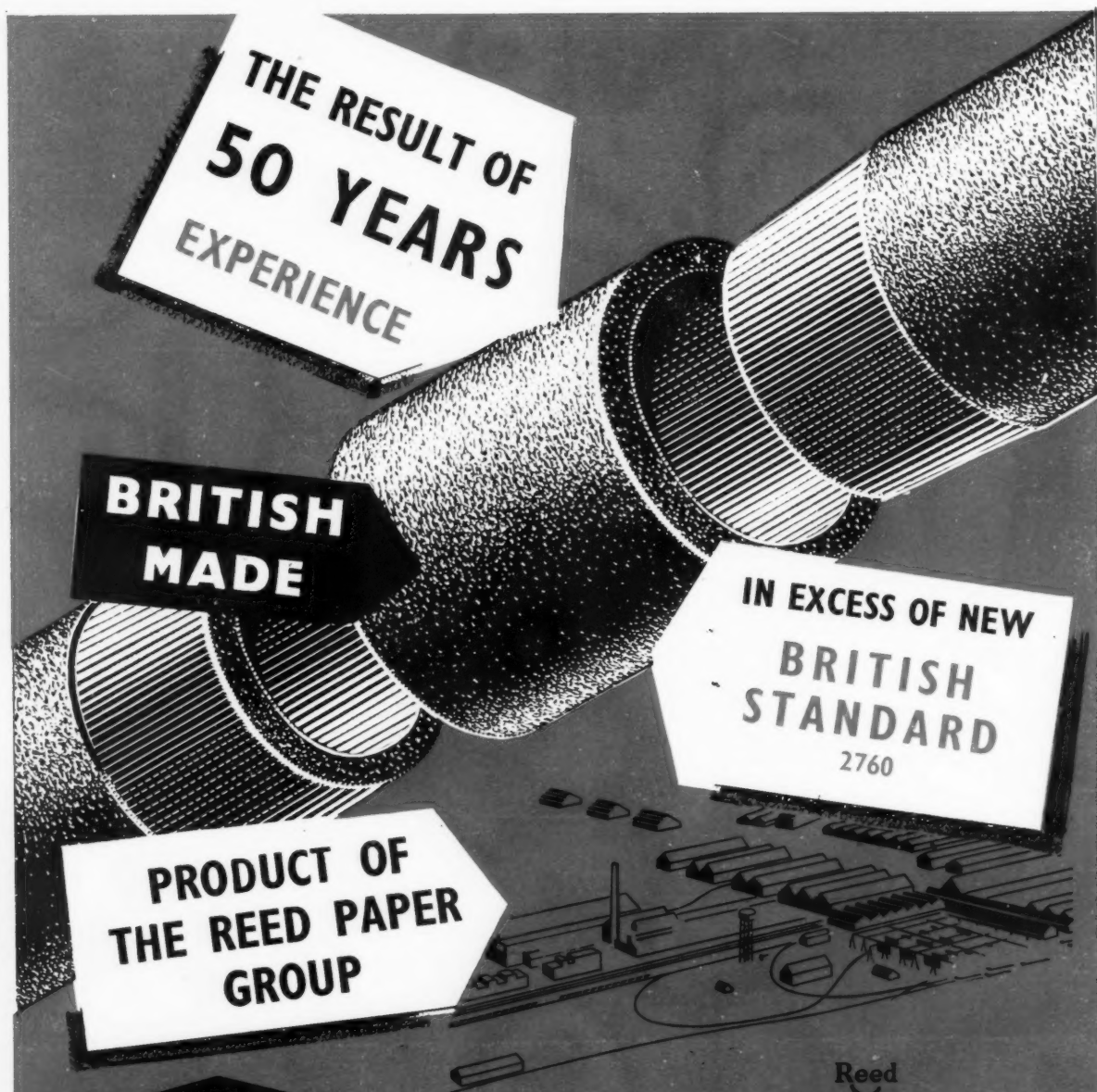


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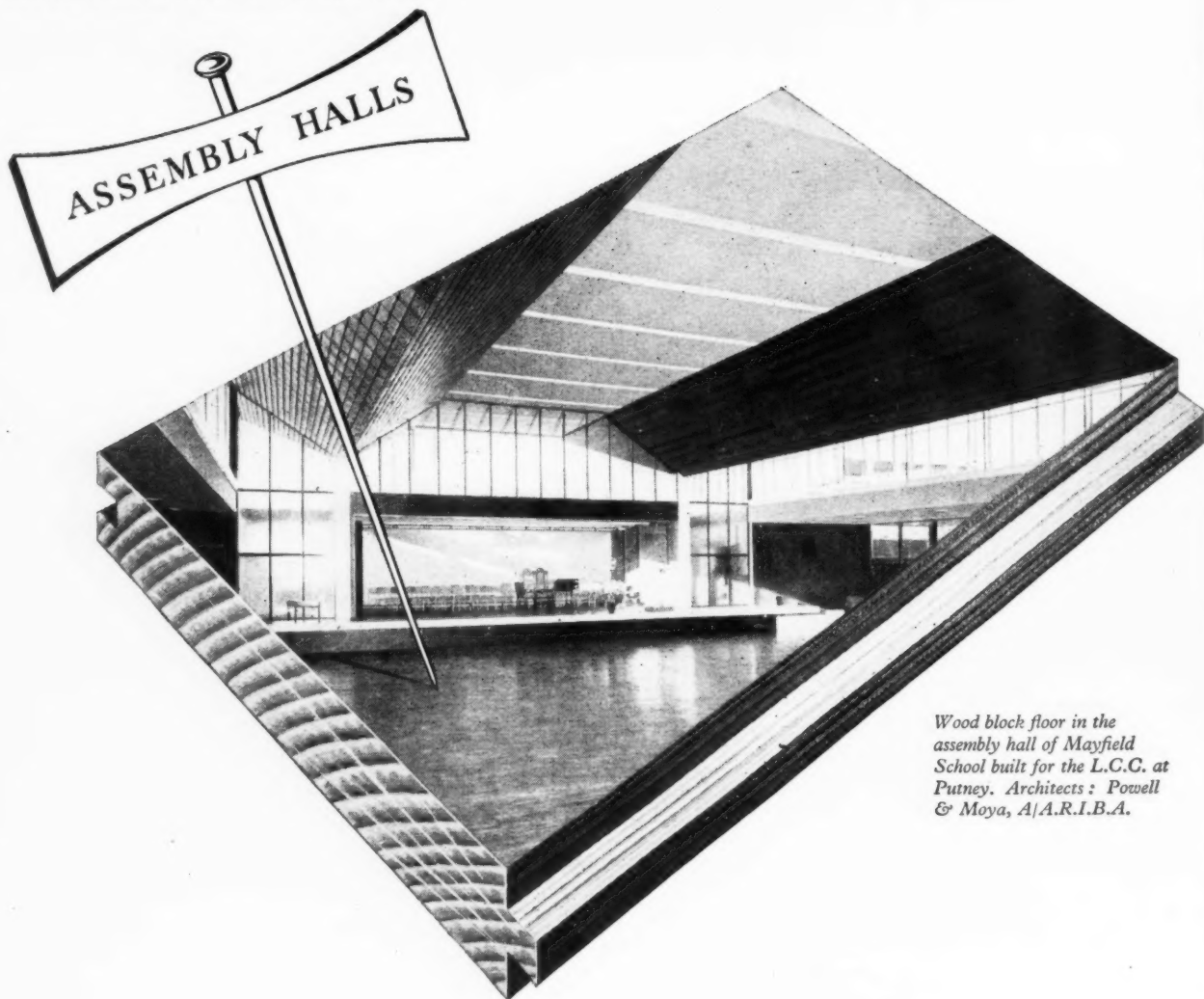
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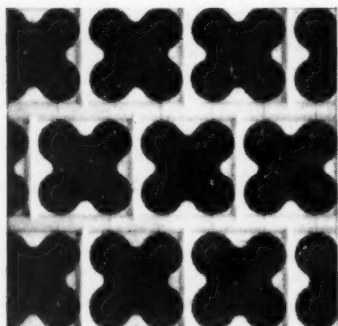
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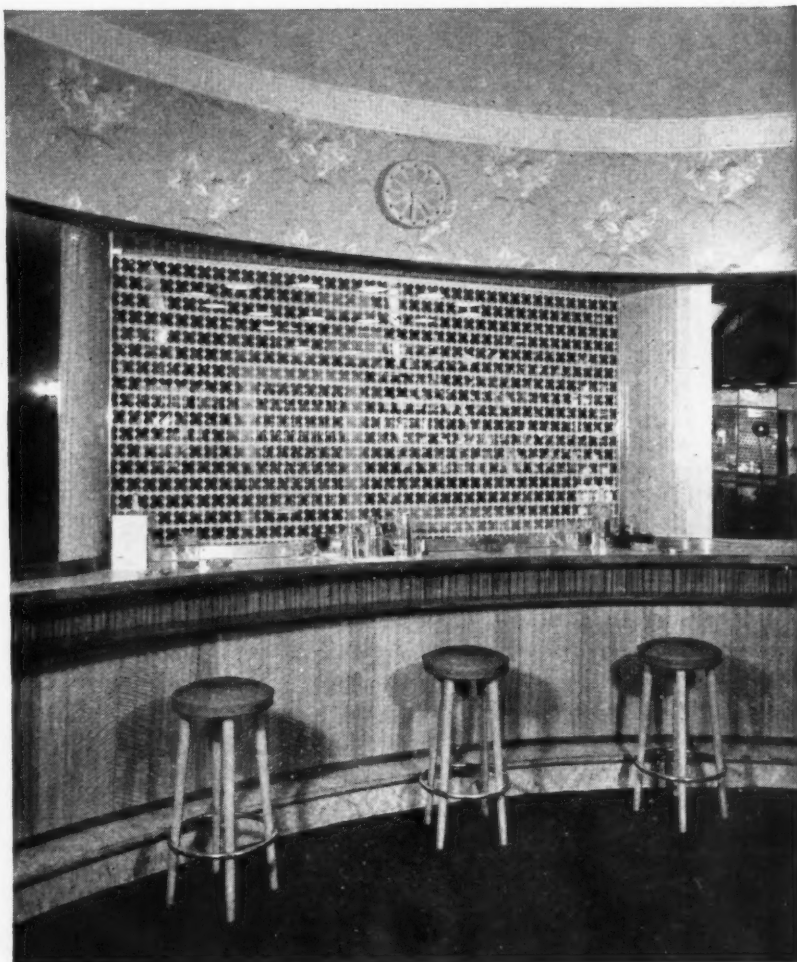
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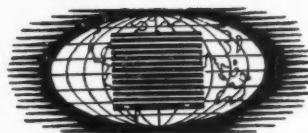


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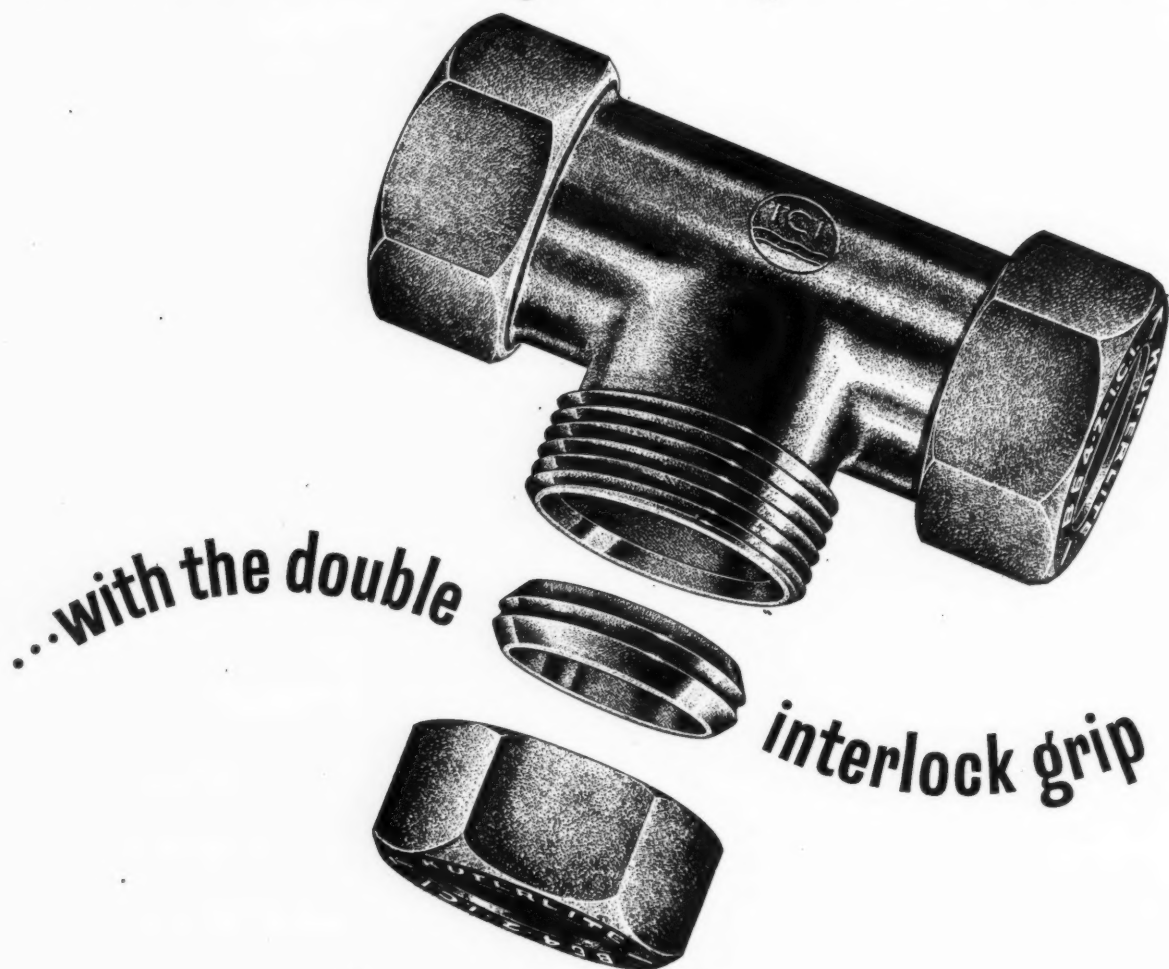
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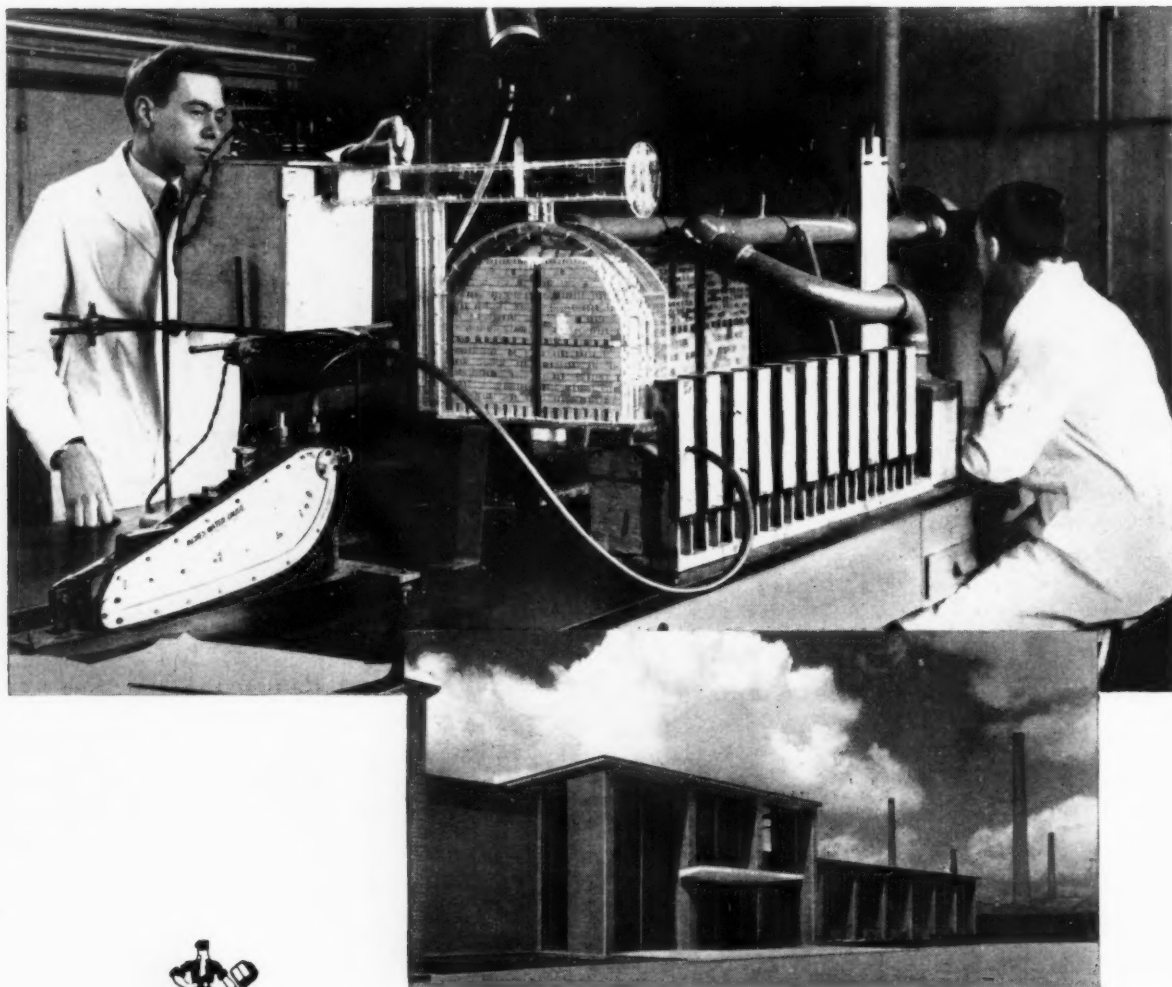
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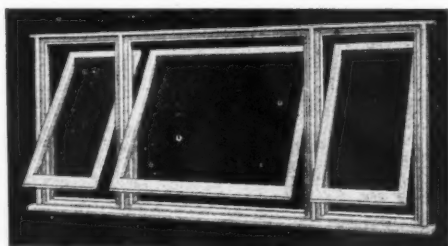
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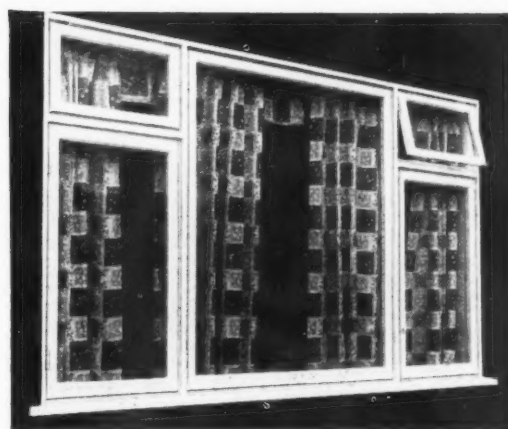


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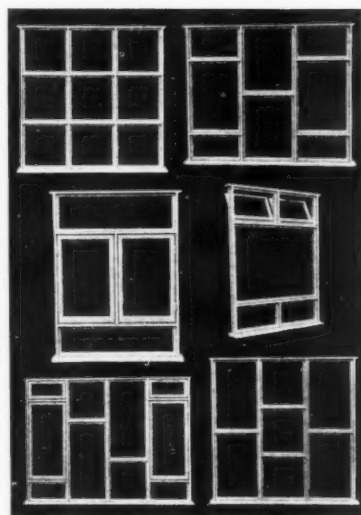


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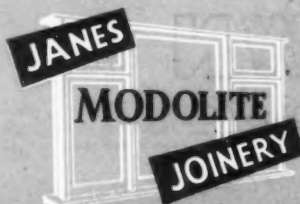
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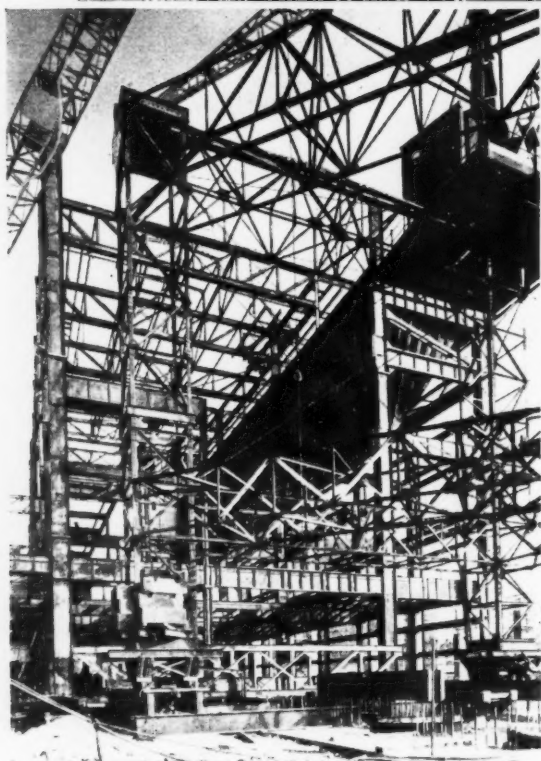
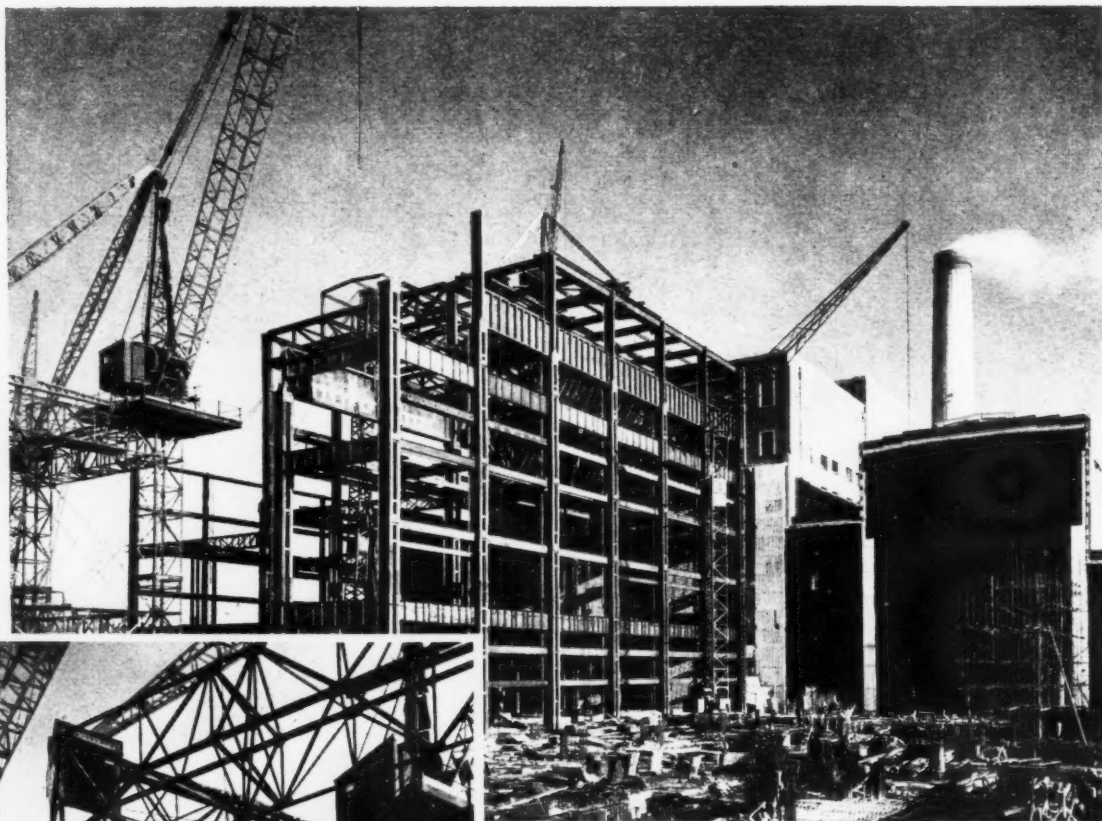


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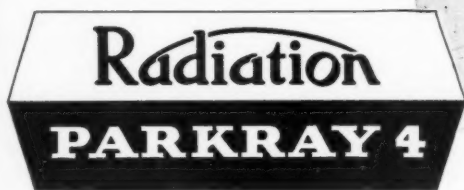
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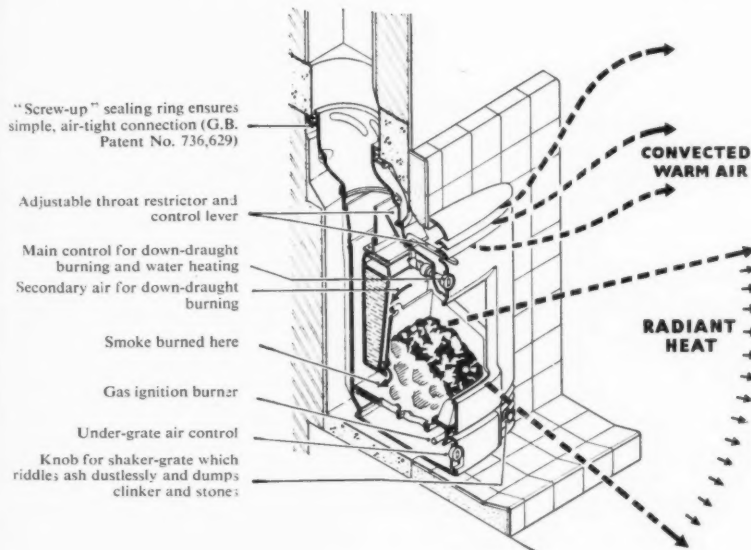
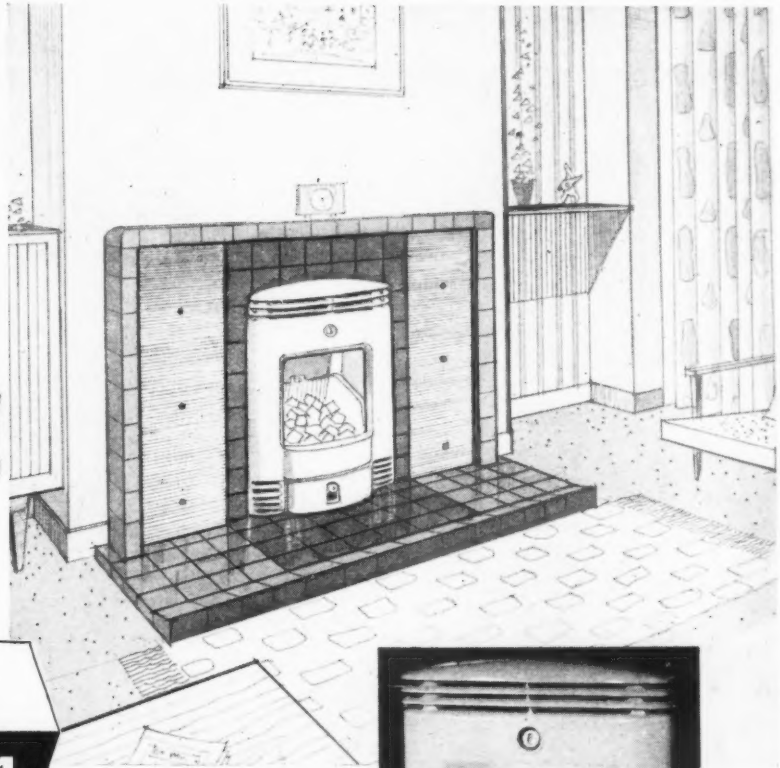


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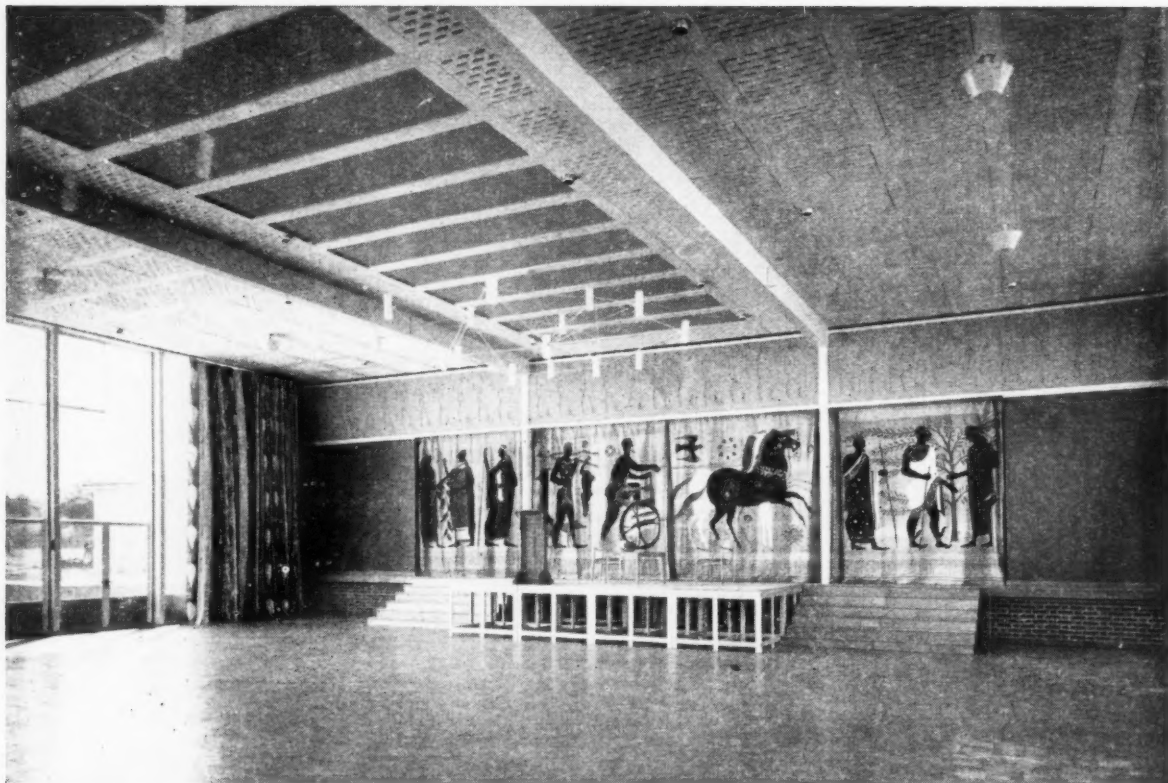


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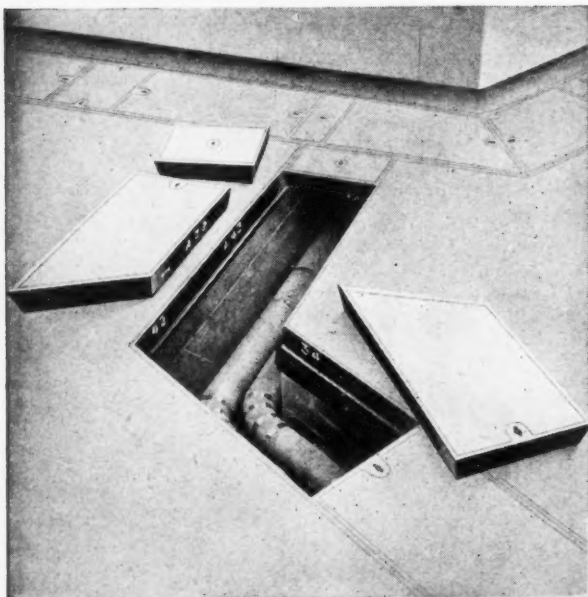
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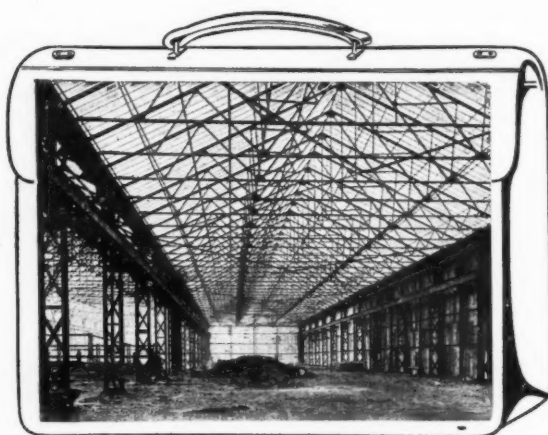
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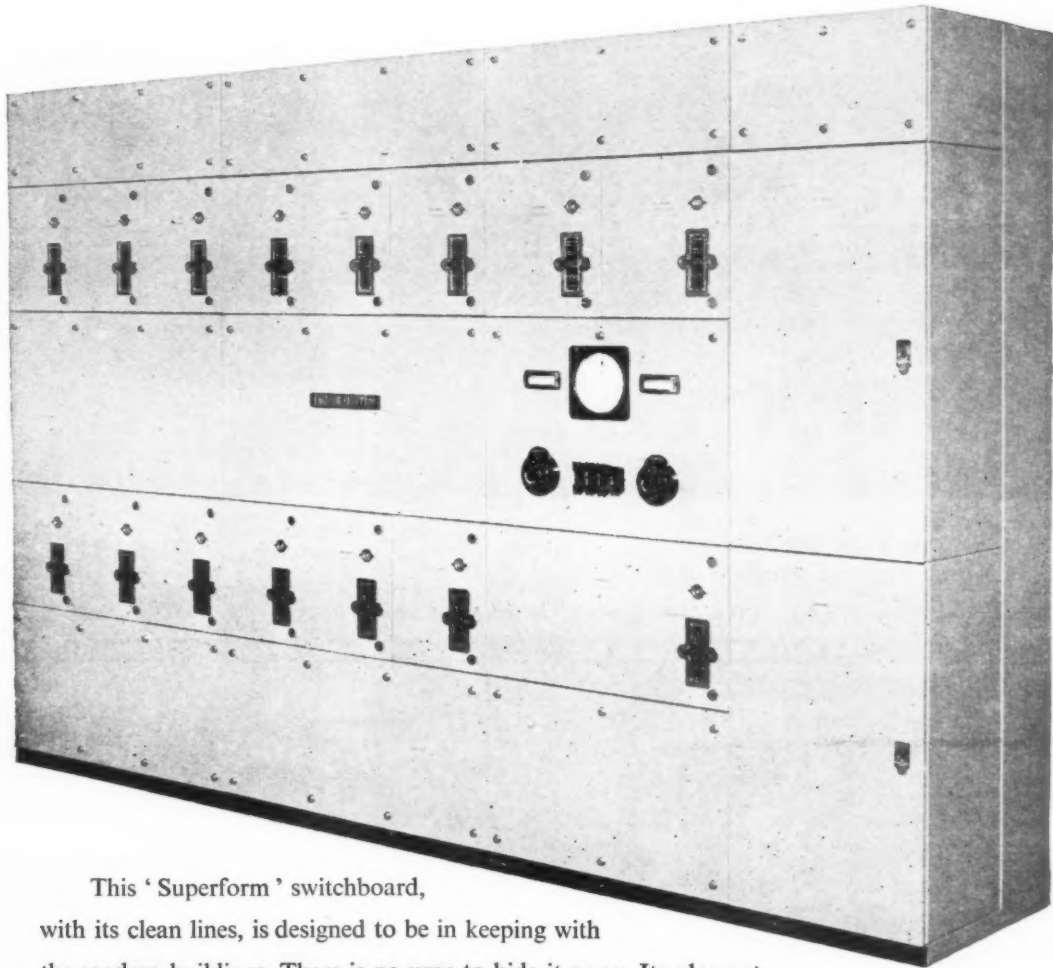
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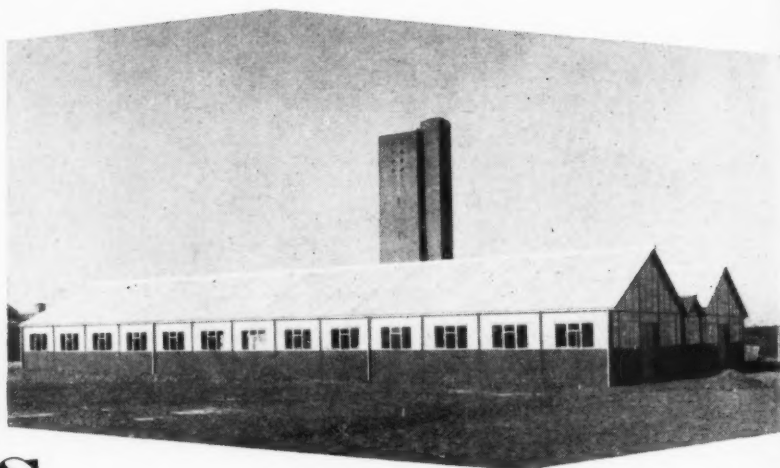
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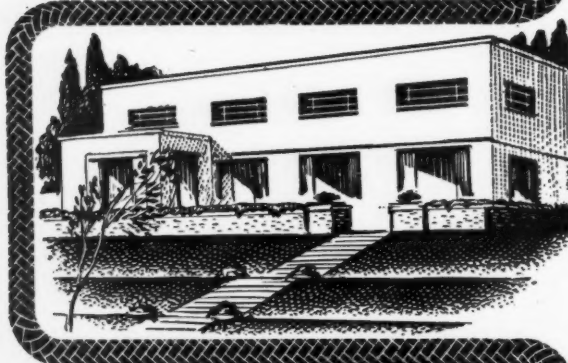
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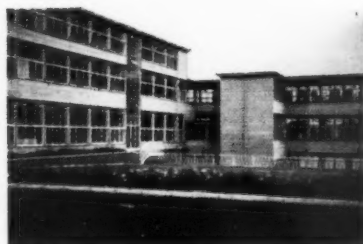
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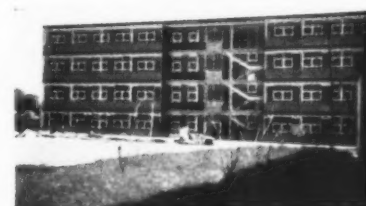
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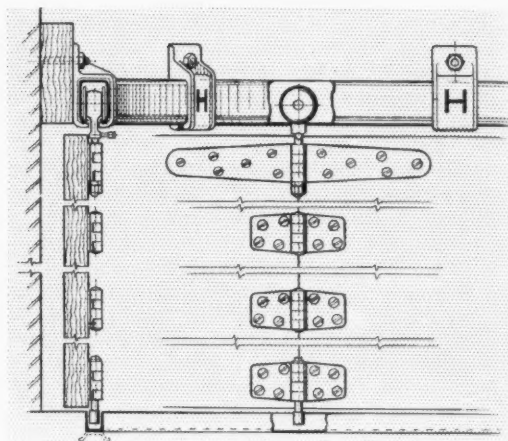
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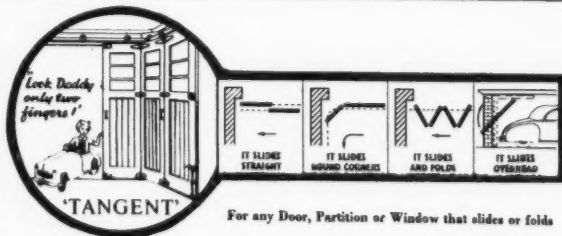
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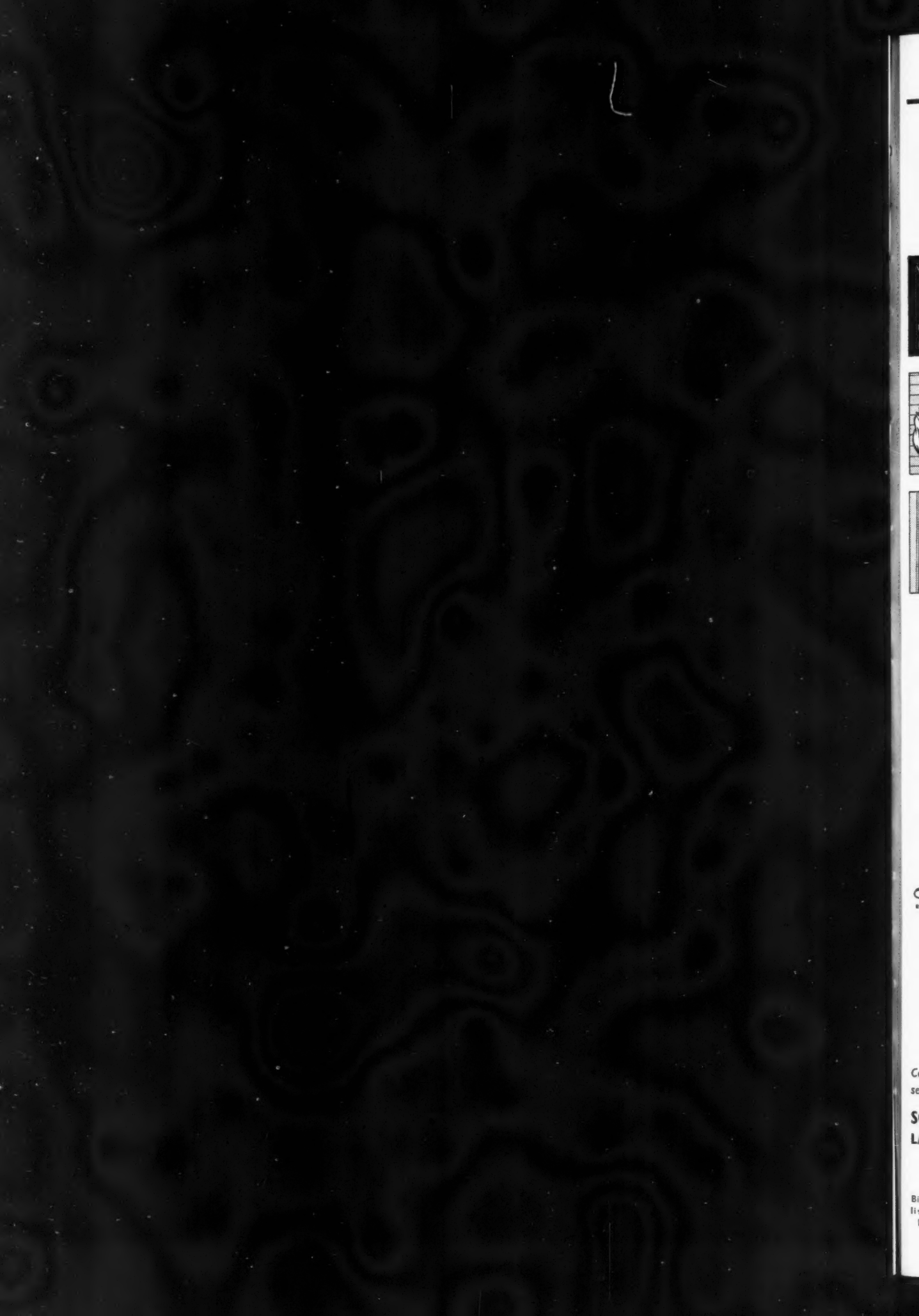
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D. Boswell	b. Bird	3
J. G. Batty	b. F. J. Munnion	0
A. Boyd	b. Blake	10
R. H. F. Hill	ct. Morton b. Bird	6
Self	b. H. J. Munnion	1
J. Kennedy-Hawkes	b. F. J. Munnion	10
R. C. Hart	not out	38
R. Dowson	b. Bird	0
I. M. Leslie	ct. F. J. Munnion	
	b. Bird	0
R. Binfield	b. F. J. Munnion	0
W. A. K. Faldo	run out	2
	Extras	6
	TOTAL	76

Bowling: F. J. Munnion 12.5—3—21—3,  
Bird 13—4—33—4,  
H. J. Munnion 4—3—1—1,  
Blake 5—3—5—1

## NFBTE

V. R. Blake	ct. Boswell	
	b. Dowson	8
T. Martin Hart	lbw b. Dowson	3
B. W. Gregory	b. Batty	29
R. W. Triggs	ct. Leslie b. Self	2
V. Leader	not out	16
B. J. Garrett	not out	6
H. J. Munnion	} did not bat	
F. Morton		
F. J. Munnion		
C. F. Kidman		
J. A. Bird		
	Extras	13
	TOTAL (for 4 wks.)	77

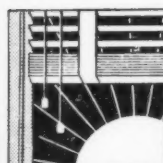
Bowling: Dowson 5—1—19—2,  
Self 6—0—19—1,  
Batty 1—0—11—1

# knowing architects specify . . .

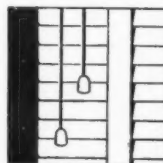


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### *A New Urban Vernacular?*

Modern architecture has been crying out for an urban vernacular for thirty years. Is the envelope of curtain walling the answer? At last week's ICA discussion on *Electrin House* (above) one of the architects of the building—Edmund Ward, of Gollins, Melvin and Ward—spoke of the anonymous and off-the-peg qualities of the curtain wall as almost a drawback. But are these not qualities which make the curtain wall very important? If it was developed to a stage at which it was not only weather-proof, heat-proof and fire-proof and capable of a variety of colours, but also cheaper than other forms of construction, it could be a suitable system for the bulk of the profession to adopt for urban areas. It could well be the twentieth-century equivalent of the Georgian facade—an ideal means of creating or preserving unity in the street scene. (The most surprising effect of the office block shown here, in New Cavendish Street, is the way it maintains the

scale and character of the surrounding streets while remaining the perfect foil to brick and stucco.) And, of course, when it is properly developed it will be used by the discerning architect for run-of-the-mill jobs, for he will realize that he could never hope to develop a "one-off" curtain wall as economically and efficiently. Many architects are now realizing that the Victorian idea that every building should be a masterpiece in itself, unrelated, to its neighbours, is antagonistic to urban unity. Provided that art work is kept at bay we may yet see tremendous improvements in the Hounslows and the Rugeleys—in fact, in all our dreary and dowdy high streets. And if, by the way, you are dubious about the appearance of curtain wall streets you will soon have a chance of testing your doubts; Gollins, Melvin and Ward are designing a similar block to the one shown here which will be built facing it on the other side of New Cavendish Street.

There isn't much more to say. We Vitruvians didn't deserve our free lunch and tea, never mind the printed cards and all the photography. As for the Jeanne Hardey Challenge Cup, it will be on show for the next twelve months in various builders' offices up and down the country. We were the first holders on its presentation last year, so that this year Ian Leslie was able to congratulate Joe Bird on winning the Cup for the first time. A comforting quip. But if only we could have got them really worried. If only one could lead off, dramatically: **TOTAL CRICKET: THE FIGHT FOR THE CUP: CLOSE FINISH AT OLD DEER PARK** and build up the tension to a grand climax.

\*

But one can't. To be quite honest, it wasn't a fight at all. Our strength was all on paper. Joe Bird and the Munnions destroyed our batting, most of it before lunch and on a perfect wicket. Why? F. J. Munnion swings into you fast, but that is all, and Joe Bird looks a straight up-and-down medium-pacer and no more, so why do they have us all in trouble year after year? They won't tell us and on current form only Roy Hart on our side is qualified to answer. He batted splendidly. He would have made a hundred if Joe had been kind enough to offer the rest of us another innings or two each.

\*

Afterwards, in the field, we did a little better. 11 for 1, 12 for 2, 21 for 3. That made Joe Bird think. But then in came Gregory, with a batting average for this fixture of 129. Get him quick and anything might happen. We might grow into Tysons and Stathams and run through the side—**TOTAL CRICKET—VITRUVIANS THRASH NATIONAL FEDERATION**. At one time it seemed at least not impossible because Greg was slow getting into his stride, but a couple of long-hops in a loose over from Dowson and a not so very overpitched ball in Self's next over that the giant sent towering over sight-screen and tennis courts and almost into Kew Gardens, and that was pretty well that.

\*

A pleasant social occasion anyway, what with piano music at tea played by the elderly lady who brewed it and who was mistaken for ASTRAGAL; and the cynics looking out for the arrival of the roofing tycoon's advertising aeroplane that would scatter leaflets over the ground or write vaporous adjurations in the sky; and of course the now traditional opening—the president of the National Federation bowling the first ball.

ROBIN MUDIE

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\* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

## The Editors

### AND THEN THERE WERE . . .

**T**HE best post-war buildings have been produced by the local authority building programmes and largely through the efforts of public architects. The most significant example of the work of private architects during the same period was the South Bank Exhibition, and, even then the organization which produced this more closely resembled an official body than a private enterprise one.

The growing recognition of the importance of the public architect after the war resulted in interest being taken in local government administration, and in the training and organization of architects for public office. As a result of considerable agitation within the profession, the number of public architects on the RIBA Council (chiefs of departments only, it is to be regretted, not assistants) has considerably increased.

But, as surely as the impetus in the building world is transferring from official building to private-enterprise building, so certain architects are transferring from public offices to private practices. A few years ago four very senior and eminent public architects kindly consented to spend much of their spare time discussing, through the *media* of articles in the JOURNAL, the best methods of getting architecture, quickly and economically, from the local government machine. Of those four senior architects, only one now remains in public office, Donald Gibson (now County Architect of Nottinghamshire). Of the others, Robert Gardner-Medwin—once chief architect of the Scottish Department of Health—runs the Liverpool School and a small private practice. Robert Matthew, once architect to the LCC, is now Professor of the Edinburgh school and runs a large practice, into which, it is rumoured, he is taking into partnership the fourth of the JOURNAL's Guest Editors, S. A. W. Johnson-Marshall, who, as announced in last week's JOURNAL, is leaving the post of chief architect, MOE.

That, however, is not the end to it. Robert Matthew's successor at the LCC, Dr. J. L. Martin, is also going into private practice, as well as taking on the task of running the Cambridge School. Here is yet another public architect, of great ability, leaving the security and guaranteed building programmes of local government for the hazards of private practice. Admittedly, in all but one of these instances the architects have obtained teaching posts, the supply of which will no doubt eventually cease, but such a steady movement

by the country's best official architects to private practice must cause general unease in the large proportion of the profession in public offices.

There would seem to be two main causes: insufficient remuneration and local and central government mal-organisation. Without doubt the increases in pay of senior positions in public offices have not kept pace with increases in junior and intermediate grades, and, while a chief architect may not earn so very much less than the average principal in private practice, he has not got the advantage of a relatively lavish expense account. It is inevitable, therefore, that the able public architect who rapidly reaches the top of the stunted local authority financial tree feels that he is not doing justice either to himself or his family if he rests there, and if he has initiative he moves into the fields where initiative is rewarded. The lack of financial award, however, is only one symptom of the major disadvantage of public office. The interminable inter-departmental jealousies and the stultifying and pettifogging administration which seems incapable of building-in to its organization incentives for efficiency—these are the factors which often persuade a man that in leaving public office he is finding freedom again. The great tragedy is that the departure of these senior, competent and responsible men removes yet further the day when the practice of architecture by public offices is reformed.



#### AP TRILOGY COMPLETE

ASTRAGAL, who has suffered much in his day from books of building construction prepared for earlier generations and served up again and again with meagre revisions, was much inter-

ested to get a preview of Richard Llewelyn Davies' and D. J. Petty's *Building Elements*\*, due to be published next week. This is the third and last volume of the trilogy which the Architectural Press has been hatching for the RIBA's Text and Reference Book Committee, of which the first two were Handisyde's *Building Materials* and Cassie and Napper's *Structure in Building*.

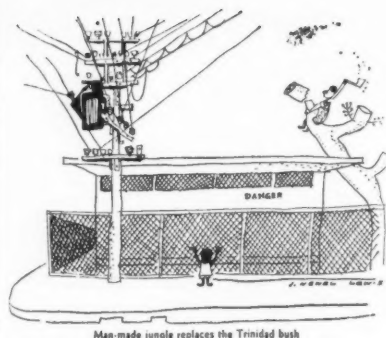
\*

What is the real difference between this flight of textbooks and the last? The old books used to "show you how to do it" in no uncertain manner: the new ones tell you what you have got to do, give you some tables and a few friendly notes, and leave you to use your nous. This is a healthy way of going about things, for the architect needs a much more developed nous than his Neo-Georgian fore-runner, who did not have to worry greatly about escaping heat, penetrating sound, or imminent fire risk.

\*

This book, like the other two, is really meant for students: but students are not the only people who will find

\**Building Elements*, Richard Llewelyn Davies, M.A., A.R.I.B.A., and D. J. Petty, M.B.E., A.R.I.B.A. Architectural Press, 37s. 6d. (Ready July 25.)



Man-made jungle replaces the Trinidad bush

*The influence of the ARCHITECTURAL REVIEW's Outrage campaign is rapidly spreading further afield. This cartoon, from a Trinidad paper, was drawn by J. Newel Lewis, an architect who works in the Port of Spain offices of Mence and Moore.*

it handy to have the wisdom of the Post-War Building Studies, the Codes of Practice and the BRS Digests boiled down to about 400 pages.

#### PRIZES FOR STUDENTS

The AA School's Principal, Michael Patrick, made an excellent speech at the School's prize-giving last week. He announced that an exhibition of photographs of student work, accompanied by programme notes, which showed in effect the AA curriculum, was on view; and that this exhibition would in due course be sent to Norway, Germany, Russia, Natal, Nigeria, Argentine, the USA—and so on. He also pointed out that the AA has been discussing training builders in building management—as far as ASTRAGAL can recall the first public statement to this effect.

\*

Sir Patrick Abercrombie, who gave away the prizes, had only one theme in his address, which he thought would assure indignation. This was that architecture was the only *necessary* art, the only art which *had* to be practised, and therefore one wanted inspired architecture when one could get it, but "required" architecture continually. "We can't have a new conception for every building," he said, although patently every student in the audience tried for it, to judge from their exhibition. A great deal of architecture, he thought, must be standardised—produced to a formula. He described this, rather unexpectedly, as *pompier* architecture. Satisfying, dull, pump water,

in contrast with sparkling spring water, but very necessary for water life.

\*

The last to speak at the prize-giving was the chairman of the Students' Committee, Robert Howard. He thought the past term was important for two reasons: the students had got part of the student vote back, and, second, they had arranged the exhibition. "We have not put up things we thought you would like," he emphasised, "They are a pointer to the future, to twenty years' time . . . if you don't understand it, don't take it as an insult." Suitably braced and assured ASTRAGAL wandered through the exhibition. His reaction was one of pleasure. With few funds but plenty of ingenuity the students had arranged their designs in a provocatively unorthodox way. The usual grouping of designs by years, so logical, but often so boring, had been changed to grouping under three headings: expression, structure and housing.

\*

Complaints made in this column in the past that the exhibits were inadequately captioned were no longer valid, save in one instance. For the first time in the last few years the exhibition really stimulated—as the furious criticisms of hard-arteried visitors proved. Much of the work ASTRAGAL saw he found unduly derivative from those well-thumbed sources Corb and Wright (of whom more next week, by the way. The great man was at Bangor University the other day receiving an honorary degree) or from memories of a Mediterranean holiday. But the tyranny of the flat roof has been well and truly broken—to be replaced by the one-way pitch—and great efforts are being made to obtain interesting variations of floor levels and roof lines—to mention but two of many interesting themes developed.

#### THE NATIONAL FEDERATION

The public relations office of the NFBTE, which has, apparently, been carefully excluding representatives of the JOURNAL from the Federation's social occasions (do they think, perhaps, that an *architects'* newspaper hardly counts, and that the much-vaunted architect-builder team-work should exist only in working hours?) graciously permitted a colleague of

ASTRAGAL's to attend the Federation's half-yearly general meeting one morning last week. Indeed, going the whole hog, they even invited him to an excellent lunch in the Royal Festival Hall restaurant (which, if one dare say it, needs, together with the remainder of the hall, better maintenance). They took care, however, to exclude him, together with the rest of the Press, from the afternoon session. This was the occasion when D. N. Chester, Warden of Nuffield College, reported on a national examination he is making of the industry's wage structure. The main object of the enquiry, to quote from the Federation's interim report, was "to ascertain how far the development of modern technique and practice may render desirable some adjustments of the basic principles embodied in the present Working Rates."

\*

To instigate such an objective appraisal shows considerable initiative on the NFBTE's part. It is a pity that the results cannot generally be made known—presumably because it might provide ammunition for the NFBTO. The comments on the interim report, which followed an excellent speech by President Nigel Hannen, were lively, pertinent, occasionally droll and altogether more forthright than those at the RIBA AGM.

#### JAM TODAY AND TOMORROW

The LMBA, to whose unfailing generosity half the JOURNAL's staff owe a stone in weight and two inches round the lower chest, excelled themselves as hosts of the NFBTE for the summer meeting and gave two evenings of exceptional hospitality—last week. First, on Tuesday, they gave a reception at the Guildhall, a simple affair, with several hundred guests, including the Lord Mayor, the crypt knee-deep in whitebait, ham, chicken, fruit and wine, an orchestra of the Royal Engineers playing Mozart and Rodgers, students of the Guildhall School of Music singing duets from Mozart and Novello, and generally a cheerful hubbub. ASTRAGAL, overawed by the company, reinforced as it was by colossal statues to both Pitts, Wellington and Nelson, retired to the oddly tawdry stairs and ancillary rooms of the Guildhall. When, one wonders, is the City going to complete the rebuilding of the Guildhall by giving it a better entrance? Nevertheless the

entrance room had the compensation of a delightful exhibition of William (Canaletto) Marlow's work, including a view of the old Adelphi Terrace. A very different prospect at supper-time from that ASTRAGAL had enjoyed from the Festival Hall at lunch time on the same day.

\*

On the following evening the LMBA gave a dinner and dance at Grosvenor House. Excellent food again, short speeches, a lively band and an excellent cabaret.

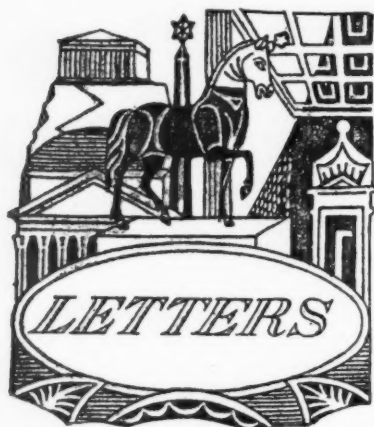
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During the evening Kenneth Foster, the President of the LMBA, gave Nigel Hannen, the President of the NFBTE, two excellent silver George III tankards—an indication of the very high esteem with which the builders regard Hannen. Certainly Hannen's friendly, sincere manner, coupled with sensible speeches, makes him an admirable president. It is perhaps a pointer to the way things are going that when Kenneth Foster referred to the President of the RIBA, in toasting the guests, he added to the usual compliment of the architect being the captain of the building team the hope that "we are both agreed on the need for closer co-operation, starting possibly in the training period." So perhaps a combined course—the beginnings of a faculty of building—is closer than we think.

#### MORE STAINED GLASS

After the considerable impact from the sheer size and strong colour of the Coventry windows on view at the V and A, the exhibition of the British Society of Master Glass-Painters at the Building Centre was bound to suffer by comparison. In fact, the latter show tends to destroy any confidence which one may have gained from the V and A exhibition that the art of stained glass is reviving. And this, notwithstanding that two of the Coventry designers, Laurence Lee and Keith New, have examples of their work on view. Their work, together with a quaintly modern "Ascending Spirit," by Miss N. Yoxall, shows an attempt to handle religious themes in contemporary terms, but they are all lost amongst platoons of knights in armour, flights of robed, pseudo-saintly figures, and heraldry by the square yard.

ASTRAGAL



*S. Barron Fraser, A.R.I.B.A.*

*Keith Seabrook, Student, Kingston School of Art*

*David Smith, Lecturer in Fine Art, Regent Street Polytechnic*

*Frank Strahan, F.R.I.B.A.*

*Eric de Maré, A.R.I.B.A.*

*Sidney Gabrel, A.R.I.B.A.*

## Replies To Sir Howard Robertson

SIR,—I am with Sir Howard Robertson (AJ: July 5) so far as he goes. He is right to point out the difficulties inherent in the use of the curtain wall. He is right to draw attention to the defects of internal columns and the difficulties of planning behind a 100 per cent. glass wall. He is more than right to praise the Rockefeller Centre Building and who is to say that he is wrong to choose Portland Stone as a facing material for the new Shell Building? Certainly those most likely to criticise this decision have yet to attack the design for the new Embassy for the United States of America in Grosvenor Square.

He scores an easy point by attacking the dead doctrine of total honesty, since everyone cheats a little bit and forces their design to achieve the expression they require. He scores another point over a journalist's loose use of words . . . "skyscrapers . . . new materials . . . floating away." Of course no one wants skyscrapers to fly away, any more than they want seaside pavilions to sail away.

But Sir Howard stops here. His design has turned towards the Renaissance. Its height seems to be about two and a half times its length, and its relation of height to base course is most unusual. Surely the classical style, with its careful proportion of its parts to man and to the whole, to which nothing may be added, is hardly adaptable to the building of skyscrapers, which are really endless vertical architecture.

Sir Howard invites comparison with the Rockefeller Centre, but it is, I think, precisely in the detail of the massing, the proportion of solid to void and the surface modelling of his tower that he fails to come near to the very high standard set by this building. Furthermore the Rockefeller Centre is a classic building of its kind, but it is not classical. If anything, in its vertical emphasis it is gothic, and I suggest that we should look in this direction when using stone in connection with skyscrapers.

If columns are "a terrible obstruction" internally they can be put outside, as on the proposed Chase Manhattan Bank building in New York or on the buildings forming the forecourt to St. Paul's Cathedral on Sir William Holford's latest model. Then the building would stand, not rooted, or booted, not only on the ground, but lightly on its own feet. By paradox it would then appear—in the only word applicable to gothic—to soar upwards. The real importance of Sir Gerald Barry's remark was that "the skyscrapers of New York . . . are able to use height . . . lightly."

Against this conception of "the higher the lighter," the vertical effect of layered horizontal repose weighs very heavily. I am sure that the topmost storey of the Rockefeller Centre glories in its position, while the top of the Shell Building tower clearly cries out to be allowed to get down. I cannot help feeling that when we honour our forebears it is important that we choose the right ones.

S. BARRON FRASER.

London.

SIR,—As a younger member of the profession for whose benefit Sir Howard Robertson kindly writes, I would like to comment upon his reply to criticism of the design for the Shell Building, South Bank. He attempts to refute the criticism by deliberate misunderstanding of statements and evasion of critical points.

The comments on the quotation by Sir Gerald Barry, "The skyscrapers in New York . . . seem to be floating away, because they've got wonderful new materials, glass and aluminium, and they're able to use height and use it lightly," are his first attempts to belittle the criticism. The remark implies "contemporary" skyscrapers, about which it is true, and architecturally distinguished or not, to my mind they are far more pleasing than the design for the Shell Building. The words "wonderful" and "new" are not meant literally, the meaning is clear to me; as Sir Howard later suggests "in large scale application."

Despite disadvantages of curtain walling with regard to free partition placing and use of solid upstands for fire protection, I fail to see how Sir Howard can complain of it being a "not true expression" when he is busily engaged in trying to bury his stanchions in the thickness of the masonry clad wall. Stone as a load bearing material used in office buildings will only support three or four floors, and the invisibility of the inserted steel frame will not make a stone clad building of twenty to thirty storeys any the more convincing.

Window areas in curtain walls are, I agree, generally excessive, but this can easily be remedied by substitution of infilling for some of the glazing. Use of small individual windows has been partly exploited in the storey height aluminium panels of the Alcoa building.

The few years of life of various curtain wall types has shown many defects in detailing, but these defects are always apparent when new techniques are first used. Surely the architect should welcome these new techniques and try, by his knowledge of traditional construction and points of failure of the new details, to overcome these defects, and not bury himself blindly in tradition and ignore them.

Stone and brick do undoubtedly improve with age in most atmospheric conditions. However, deposition of acidic soot occurring in the London area, and the necessity of drastic methods of cleansing are so harmful to these materials, physically and aesthetically, that their use becomes almost unreasonable. If cleansing has to be resorted to, and in London it must, it is better to accept this and provide easily cleaned materials and suitable equipment for their maintenance.

The flippant dismissal of the open ground

floor is surprising and rather childish. Buildings of great height cannot have load-bearing walls, so what is more reasonable than to expose the load-bearing elements and provide an open ground plane giving possibilities of interesting visual relationships.

So the American architect, whose name appears to have been omitted, would use stone if he had the choice. Presumably he doesn't get the choice; for economic reasons?

Since the letter was addressed to the younger members of the profession, am I to assume that Sir Howard suggests that today's design-aesthetic should be replaced by the aesthetic that produced such buildings as Shell-Mex House?

KEITH SEABROOK.

Surrey

SIR,—Sir Howard Robertson's letter begs the question.

The issue is not of the young generation of architects who don't know, against the old who do. Good architecture has been produced by both, young and old, and irrespective of the materials used.

Technical skill does not of itself produce good architecture. As a criterion of judgment of a work of art, the visual aspect remains of great importance.

DAVID SMITH.

London.

## Boxgrove House

SIR,—My reactions were so violent after reading your article, "Clay Feet on Modern Gods," that I restrained myself from replying on the spur of the moment, but now that my pulse has resumed its normal rate, I feel that I must voice some protest.

The question that first arose in my mind was, "Why do these eminent gentlemen aid and abet plan facades?" It was interesting to read Mr. Jeffery Webb's reply in your issue of July 5 when he described his Sunday Zephyr ride in the country and his description will, I hope, reduce this whole instance to one of the usual but unfortunately there is a much more serious aspect to this state of affairs which has arisen in the profession and which might ultimately lead to the dissolution of the smaller architects' practice far more effectively than any "credit squeeze."

RIBA—please take action before more ambitious bodies commence the standardisation of the larger types of buildings, and completely exploit the architects' capabilities for a mere pittance.

FRANK STRAHAN.

London.

## Money Again!

SIR,—It was good to see so many angry letters in your issue for May 29, for where there is anger there is life. The Boxgrove Houses scheme seems to me to be quite a reasonable, compromising attempt, under prevailing conditions, to rationalise private, middle-class housing of the traditional sort. Of course this is not the ideal solution but at least architects are being employed and, apart from gaining other advantages, the client saves some money. If architects don't like the idea they must blame the cause and not the symptom. Boxgrove Houses are just another symptom—and one of the less destructive ones—of a society which is obsessed and dominated by a pure abstraction called money.

As for Helen Challen's criticism of the critics of No. 1, St. Paul's, for their "chorus of polite praise": Is she fair? As these buildings go, No. 1 is to my eye just slightly above mediocrity and that is the impression the critics gave. But is that the point? How can we lay down viable architectural stan-

dards when we have no clear picture of the sort of civilization we want? We all get sickened as "each new mammoth block rises out of the city," but that is what our blind society produces and that is what it seems to want. These vast, inhuman, crazy blocks are temples to the most dreary religion ever conceived—the religion of toil-through-debt. They are merely further symptoms of the social disease and to talk about the aesthetic virtues or failings of an outcrop of enormous poxy boils shows that architects are as blind as most other people. But then they have to earn their livings like other people and that consideration has to come first. Money again.

However, the bug is destroying itself. A most encouraging sign of this appeared in a letter in *The Times* (July 4) from the Chairman and Managing Director of the City of London Real Property Co., the largest property owning company in the City. Quotes: "While so much interest is being shown in the redevelopment of the St. Paul's area, I would like to draw your attention to the question of building costs, which may become a vital factor no matter what style of architecture is adopted. . . . It is my opinion that the cost of building has now become so unreasonable that private investors may not be prepared to undertake ambitious development schemes in an area like St. Paul's."

Perhaps rebuilding in the City will be held back now and by the time, if it comes, when rebuilding can continue, we may neither want nor need these huge hives of fatuous industry. Automation applies to offices as well as factories.

In conclusion, a significant quotation from a local paper: "On March 8, Blyth Borough Council approved a proposal to ask the Government to set up a Royal Commission to probe into 'persistent inflation' and suggest remedies. Proposing the motion, Alderman R. C. Proctor said that common sense suggested that a nation which could build houses should be able to buy them. But, no, the country chose to borrow from institutions which it permitted to create and destroy money according to rules made by themselves and not by the nation. The result of this stupidity was the 'cancerous growths of cumulative and irrepayable debts'—the national and municipal debts. . . . 'Under this system your Council has to pay £3,000 for a £1,000 house.'" Money again.

ERIC DE MARE.

London.

## Most Architects Die Young

SIR.—Morbid curiosity, or maybe a feeling of grave apprehension, caused me to make an analysis of the deaths recorded in the obituary notices in ten recent copies of the RIBA JOURNAL.

It is with some concern that I realized from these figures the rather small chances of living to become an old venerable architect.

It would appear that 15 per cent. of RIBA members will not live beyond the age of 50, while 20 per cent. of such members will not survive 60 years of age and 30 per cent. more than 65 years.

Quite a number of architects have survived to a grand old age, but I wonder if these worked all the time until their retirement in an architectural practice.

The early death rate appears alarmingly high and it would be interesting to learn how these premature deaths among architects compare with other professions.

Essex.

SIDNEY GABREL.



LCC

## "High Appreciation" of Dr. J. L. Martin

A recent report of the LCC's General Purposes Committee includes an appreciation of the services of Dr. J. L. Martin, the architect to the Council, who is leaving on October 1 to become the first occupant of the newly-created Chair of Architecture at the University of Cambridge. "Every department of the Council's post-war building effort has benefited from the stimulus of his leadership, which has served to raise municipal architecture, especially in London, to the foremost place in professional and public esteem."

"Another practical application of his talents has been his initiation of a new approach to the planning of development schemes. This approach, which involves closer and earlier consultations between the contractor and the professional advisers of the building owner, is still experimental but is already showing promise of success. . . . Dr. Martin's tenure of his present office has

confirmed, and indeed enhanced, his reputation as one of Britain's leading architects. His keen mind, high professional qualifications, co-operativeness and approachability have combined to secure for him not only the respect but also the affection both of members of the Council and of his colleagues. His work in London will be a lasting monument to his abilities for many years to come. We regret his departure from the London scene but we recognize the contribution he has to make to the future of architecture in his new sphere of work, and we wish him all success."

## CARDIFF

### City Architect Wanted

Cardiff Corporation is to appoint a city architect at a salary of £2,630 per annum. He will work under the city surveyor's supervision.

AA

### Annual Prizegiving

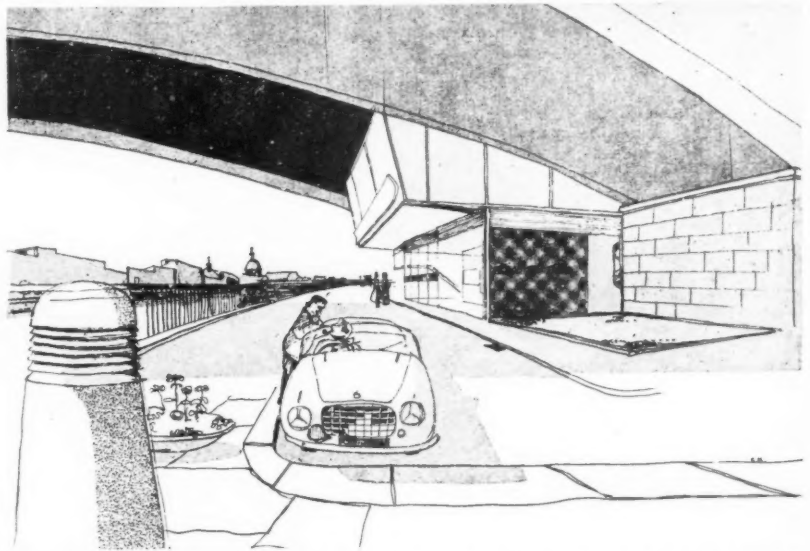
Professor Sir Patrick Abercrombie distributed prizes at the AA School of Architecture's annual prizegiving last Friday. The following are details of awards:—

First year: Howard Colls Travel Scholarship, value £40, M. Higgs. Year prizes, value £1 1s. each, R. Boot, J. Terry, A. Matthew, A. Tinker, A. W. Anderson.

Second year: AA Travel Scholarship, value £40, B. Nicholls. Year prizes, value £1 1s. each, B. Nicholls, W. Siddons, G. Wang, J. Bartlett, Miss C. Fairfax Jones, E. Adeolu, W. Tam.

Third year: Holloway Scholarship (for study in some form of building practice), value £180, J. Chisholm. AA Travel Scholarship, value £40, R. Knott. Year prizes, value £1 1s. each, R. Knott, R. Halter, J. Dalton, A. Eardley, I. Fraser, C. Bruges, B. Knutsen.

Fourth year: Roland Wilmot Paul Travel Scholarship, value £40, V. Chen. RIBA Henry Jarvis Scholarship for Construction.



The National Film Theatre which the LCC architects' department has designed to replace the temporary theatre built on the South Bank site in 1951, will be situated under the southern arch abutment of Waterloo Bridge. The Thameside Restaurant will be removed to make way for it. This sketch shows the entrance, which faces the river. Above it is a screen on which publicity pictures will be thrown from the projection room. More details are given on page 81. Architect to the Council, Dr. J. L. Martin; deputy architect, F. G. West; senior architect, general division, D. C. M. Jenkin; architect in charge, N. W. Engleback.

value £50, D. P. Cole. Year prizes, value £1 1s. each, G. Bawa, D. Blatnord, E. M. Hull, M. Doongaji, Miss J. Bridgwater, V. Chen, Sylvester Bone.

*Fifth year:* Henry Florence Travel Scholarship, value £50, P. Ahrends. Year prizes, value £1 1s. each, J. W. Toovey, B. Dewhurst, P. Ahrends, R. Burton, P. Bond, Miss J. Tyler.

*Scholarship awarded by Imperial Chemical Industries Ltd.* to a student in the 5th Year for travel and study of decorative arts to an approved programme, value £250, P. Koralek. *Scholarship awarded by the Building Centre* to a student in the 4th or 5th Year for research into use of building materials, value £100, E. Le Fevre. *Scholarship awarded by the National Federation of Clay Industries* to a student who has completed his 3rd Year for a study of clay roof tiling in any part of Great Britain, value £50, C. P. Smart. *Prize for good colour work* awarded by the Walpamur Company, value £20, R. Halter. *Section AA Prize*, for architectural design connected with drama, value £10, not awarded. *AA Essay prize*, value £21, Sylvester Bone. *AA Measured Drawing prize*, value £20, not awarded. *Alec Stanhope Forbes Colour Prize* for the best colour work during the session, value £5 books, I. Fraser. *Medal presented annually by the Société des Architectes Diplomes par le Gouvernement, Paris*, to the best diploma student of the session, B. Dewhurst. *Prize in Design* presented by the AA to a student of the Royal West of England Academy School of Architecture, Bristol, value £5 5s., T. G. Swales. *AA Diplomas* awarded annually to students nominated by the Société des Architectes Diplomes par le Gouvernement, Paris, Jean-Andre Dorel, Parvis Moahedahd.

*Leverhulme Scholarship*, value £2,000 over five years, A. J. Frost. *Allied Ironfounders Scholarship*, presented by Allied Ironfounders Ltd., value £75 p.a., R. Beaty-Pownall. *Metal Window Scholarship*, presented by the British Metal Window Manufacturers' Association Ltd., value £75 p.a., R. Tuck. *Patent Glazing Scholarship*, presented by the Patent Glazing Conference, value £50 p.a., to be announced later. *"The Builder" Scholarship*, presented by The Builder Ltd., value £75 p.a., D. P. Amies. *The Hadley Scholarship*, presented by past students of the school, value £75 p.a., D. Williams. *The Thomas Wallis Memorial Scholarship*, value £75 p.a., M. E. Weaver. *Metal Window Senior Scholarship*, presented by the British Metal Window Manufacturers' Association Ltd., value £50 p.a., not awarded.

## NFBTE

### President Hannen speaks his Mind

"At their recent Annual Conference the Building Operatives decided to press for a 40-hour instead of a 44-hour week in our industry, without loss of pay. This is equivalent to seeking an increase of over fivepence in the hourly rate. It would be interesting to know whether the operatives have it in mind to make up for this extra cost by harder work or whether they are concerned merely with increasing the opportunities to work at overtime rates," said Nigel Hannen, President of the NFBTE at the Federation's Half-yearly General Meeting last week in London. He went on to point out that builders always do their best to reduce costs. "I don't agree with critics that our costs are unreasonably high," he said, "or the Government would not have to try to reduce the amount of building." He concluded by referring to the importance of the research being carried out by BRS which was vital to the industry.

The first item of the interim report to be discussed was education. F. M. Sleeman, chairman of the Education and Training

Committee, pointed out that about 100,000 boys (the post-war "bulge") would soon be leaving school, and the building industry should get its share. In other countries, he said, employers have been willing to pay for their apprentices' education. In the building industry 45 per cent. attended day release classes, but in ship-building 90 per cent. attended. Harvey Frost stated that the greatest possible attention should be paid to recruitment. The most important recent event was the setting up of the Board of Education. They were trying to make a factual survey of the managerial positions the industry had to offer. The industry, he said, was short of management, the ladder of advance was not sufficiently clear. The industry should say, he continued, what it wants in terms of education. Too often it is the other way round and employers and operatives are outweighed by professional educationists who talk a language the builders find difficult to follow.

In the discussion which followed, Colonel Pearce said that he thought only 13 per cent. were employing apprentices. "We want," he said, "to reorganize the question of craft training and apprenticeship." He thought that the cost of training should be borne by the whole industry through a levy basis on a percentage of the wages paid. He thought that day release of apprentices should be cancelled, and block release substituted, and residential centres established for training. Another speaker pointed out that the only way the Board of Education could fail was through lack of funds. The NFBTE should budget for £10,000 for the Board. A complaint was made not that they were making too many foremen, but that they were losing them. "The little man," a passionate voice, declaimed, "trains all the apprentices and the big man takes them."

## SUBTOPIA

### County Architect's Address

The following is a short paper prepared by F. Pooley, county architect of Buckinghamshire, to be read at the National Housing and Planning Council's Conference at Southport this week:—

Recent criticism in the Press of the apparent inability of planning and the planners to arrest the sprawl of building across the countryside and to attain a reasonable standard of design in new development highlights the contempt which the ordinary citizen is beginning to feel towards planning.

These valid criticisms come at a time when planning is at a low ebb; it lacks any form of inspiration and its once promising works have become "gummed up" with paper until the whole business is reduced to a routine job on a par with the inspection of drains.

It is easy to see how the lack of inspired policy has facilitated uncontrolled urban sprawl. We all know that every town map shows a little "extra piece of land" on the outskirts for development and we all know that when that little extra piece of land is eaten up, another will be added to it. By this technique planning has failed to prevent the growth of any town in the country. London still increases, all the big cities grow and merge together, whilst villages sprawl over once virgin fields.

If it is decided that sprawl is a bad thing—and there always seem to be some people who say that it is wrong to control the natural growth of any town or village—then a positive way must be produced to prevent it.

Surely the thing to do is to produce, in collaboration with the local inhabitants, a realistic optimum size for each town and village and then make it virtually legally impossible to develop beyond that limit. What is needed is a new administrative technique for securing green belts around every town and village. Town maps showing the

optimum size of each area should also include a green belt; the approval of the Minister to these maps with their green belts should automatically impose restrictive covenants on the green belt land against any form of building development. The green belt would remain in private ownership and normally restrictive covenant could be imposed with little, if any, compensation. Once, however, the green belt has been subjected to the restrictive covenant procedure it should be proof against any form of compulsory purchase without the specific consent of Parliament. In this way the planners would have to give far more serious consideration, at the outset, to the question of fixing realistic optimum sizes for each village and town, but having done so the public could have confidence that sprawl could be prevented.

Having stopped sprawl we must have a positive planning policy to provide the extra housing and other accommodation which are always required. I suggest that it should be provided either in new towns to be built on the coast line or in the expansion and re-vivifying of our existing seaside towns. The sea is an undisputed amenity to the Britisher. We have mile upon mile of untouched coast line bordered in many places by land of inferior agricultural value. This is the place for our new towns where people could enjoy living with natural amenities and where it would be unnecessary to take good land out of agriculture. The expansion of many of our existing seaside towns embracing housing and industries would also help to solve what will soon become a national problem. As one visits the holiday towns on the coast one has the impression of a faded glory and the need for a good blood transfusion. The rows of Victorian hotels and boarding houses which face the sea are fast becoming obsolete, and with so many of our holiday makers going abroad each year or to holiday camps at home, in a few years time our existing seaside towns will become increasingly dreary and a national maintenance problem.

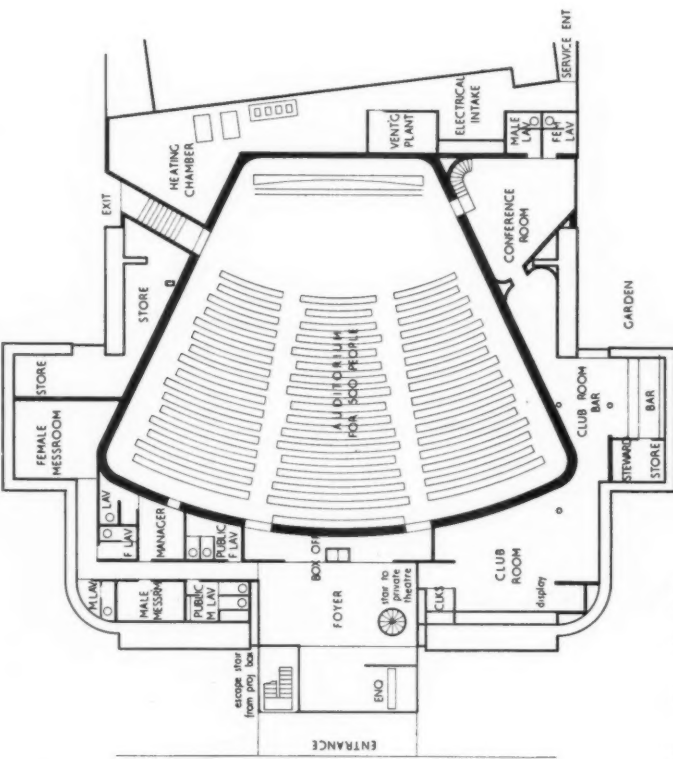
Planning has been especially unsuccessful in its attempt to produce decent-looking development and a reasonable standard of architectural design. This is due to its very timid approach to the problem. The only type of building for which a developer is certain to get planning permission is one with no imagination and with an imitation Georgian facade cluttered up with meaningless ornament.

More imaginative contemporary architecture is always in trouble with the planners—largely because they are unable to appreciate the difference between good contemporary design and bogus copy work. This is particularly unfortunate at the present time because planning should give a lead to the country and the world on civic design for the new age. Architects will learn that new planning techniques have eliminated waste circulation space and with new building methods are bringing about a new architecture; planning must understand it if it is to understand its potential civic qualities.

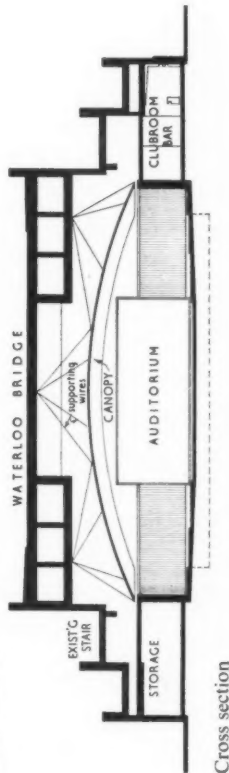
So many of the nasty bits and pieces which litter our streets are purely a matter of bad taste. Planning authorities would do well to establish small committees of specially chosen members to decide on these matters of taste and design. At the same time a Select Government Commission with a duty to visit, inspect and report frankly to Parliament on what it finds in each area and with power to recommend changes in local planning administration if their findings are unsatisfactory, would do much to ensure a more thoughtful control of design and to rid our streets of many eyesores.

These new ideas would need new laws: but that should provide an opportunity of pruning the failing empire of planning legislation and re-directing it towards the job of creating a better-looking and more convenient Britain—a sure way to regain the confidence of the public.

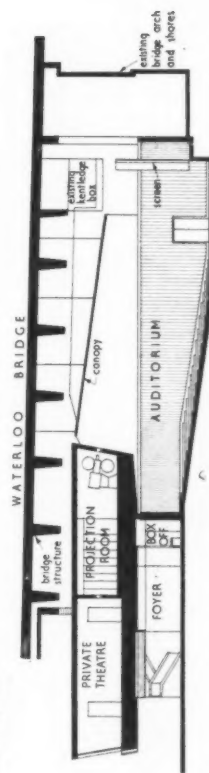
The LCC Architects' Department, working in association with the British Film Institute, decided that the proposed National Film Theatre\* (to replace the temporary one built on the South Bank in 1951) must be flexible enough to cope with "any future evolutions of the cinema industry" and that the screen must be capable of receiving various sizes of projection. A separate small theatre (with back projection) for editing and compiling of programmes was also considered necessary. It is proposed that the theatre shall be placed under the southern arch abutment of Waterloo Bridge, and the position of the screen and projection box were predetermined by the limitations of height and access imposed by the site. The entrance, beneath the projection box, is from the Thames side of the vault. This means not only that



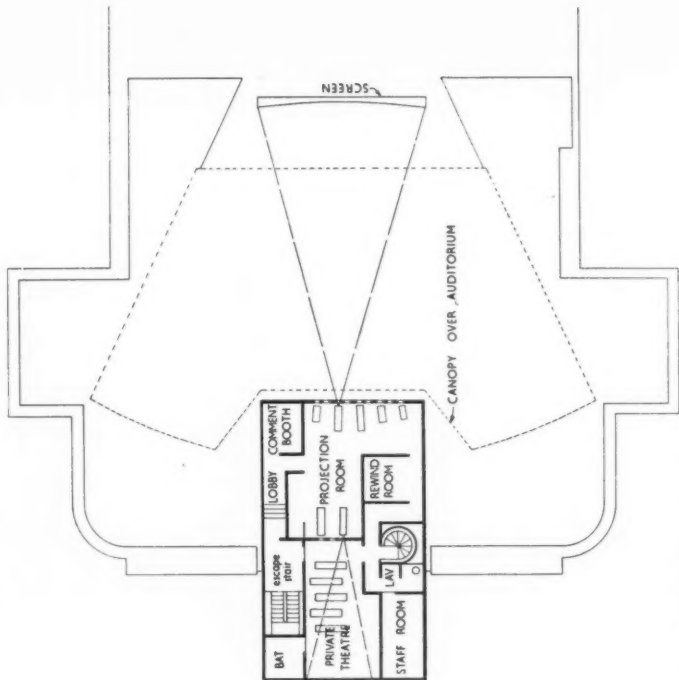
Plan [Scale: 1/4" = 1' 0"]



Cross section

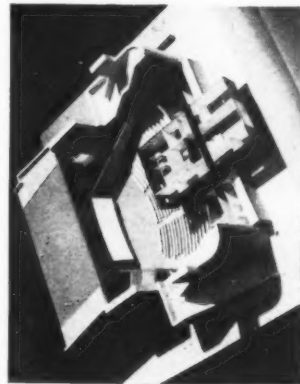


Longitudinal section

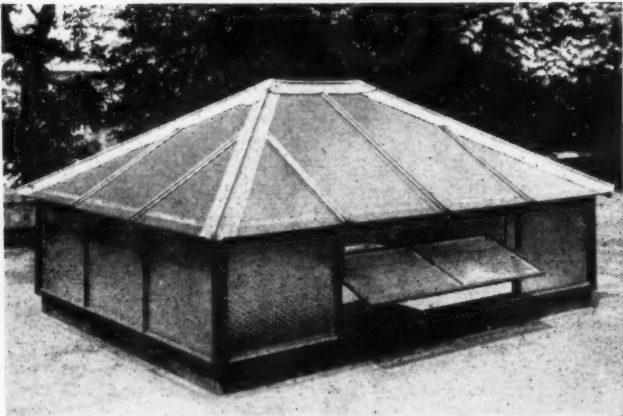



Plan at projection room level

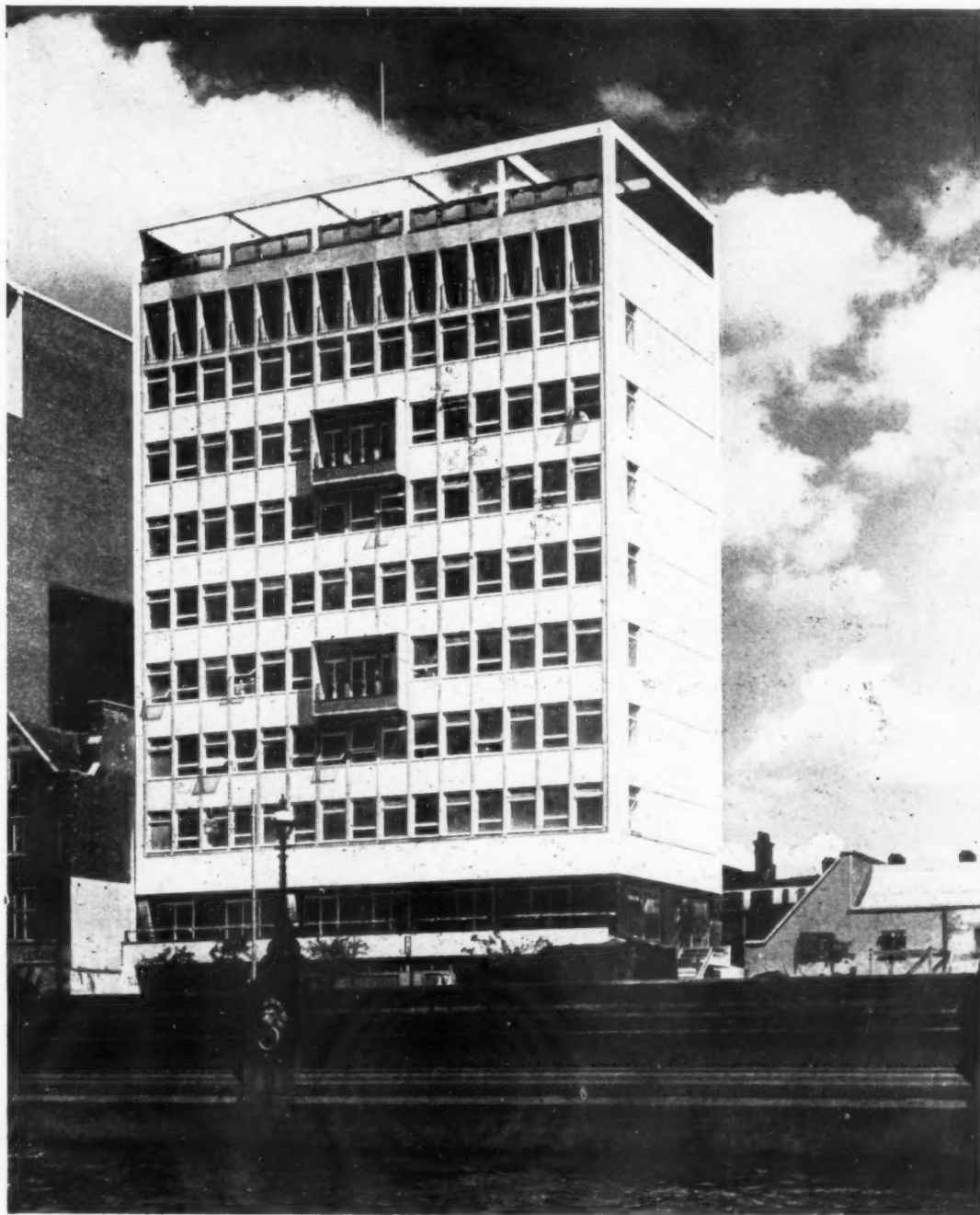
the bridge will act as a shelter during bad weather but also that audiences will be conditioned to the dark auditorium by the relatively dark area under the bridge. The auditorium for 500 people is defined by a continuous wall above which is suspended a canopy formed from a segment of a truncated cone. The screen is free standing within the wall but outside the canopy. The seating is concentric following the limiting angles of wide screen projection.



\* See also page 79

	January		February		March		April	
1 1956	<h1>HOPE'S</h1> <h2><i>Standard Lanterns</i></h2> <p><i>for lower cost and quicker delivery</i></p>  <p><i>4 weeks delivery in standard sizes</i></p> <p><i>See Catalogue 197</i></p> <h3>HENRY HOPE &amp; SONS LTD</h3> <p><i>Smethwick, Birmingham &amp; 17 Berners St., London W.1</i></p> <p>MEMBER OF THE METAL  WINDOW ASSOCIATION</p>							7 1956
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								10 1956
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								12 1956
4 1956								
5 1956								
6 1956								
	May		June		July		August	

DOCK LABOUR BOARD HEADQUARTERS, ALBERT EMBANKMENT



*Today the Duke of Edinburgh opens the London head-quarter offices of the National Dock Labour Board on the Albert Embankment, designed by Frederick Gibberd. This tall narrow building faces the river with splendid views, which have influenced the design. There is a first floor terrace balcony to two of the more important offices, and a roof garden. Communal rooms such as the*

*canteen, dining rooms and the board room have been placed on the upper floors where the views are best. The building is of reinforced concrete, largely of precast units, and was designed to a module of 4 ft. 5 in. These offices will be illustrated fully in a later issue of the JOURNAL. The structural engineer is F. J. Samuely.*

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## PROPOSED TOWN CENTRE, STEVENAGE



*This is the first pedestrian centre of its size in Europe. It will be remembered that there was some controversy about the pedestrian precinct a year or so ago, but public opinion (plus local official approval) had its way over the segregation of traffic from the main commercial and business centre of the town. The scheme has been designed on a 3-ft. 4-in. module, with 20 ft. as the standard shop unit width. The buildings*

*surrounding the main pedestrian ways and the square are three storeys high and will be framed in pre-cast concrete, based on a square structural grid of 20 ft. This will enable various shop widths to be taken as desired. The rest of the shops will be in cross-wall construction, with maisonettes and flats above them. A timber-clad canopy projecting from shops will form a continuous line, with cross canopies along the pedestrian way.*



*The close-up view of the model, left, shows the main square from the east. This square will be surrounded on three sides by shops and contain an open concrete-framed clock tower rising from a pool. There are some fine mature trees at present growing on the site, and these will be preserved. On the west side of the square there will be a raised platform for an open-air cafe and for placing of sculpture. A plan of the scheme appears on page 84. The town centre has been designed by the Development Corporation, Architects' Department, Leonard G. Vincent, Chief Architect.*

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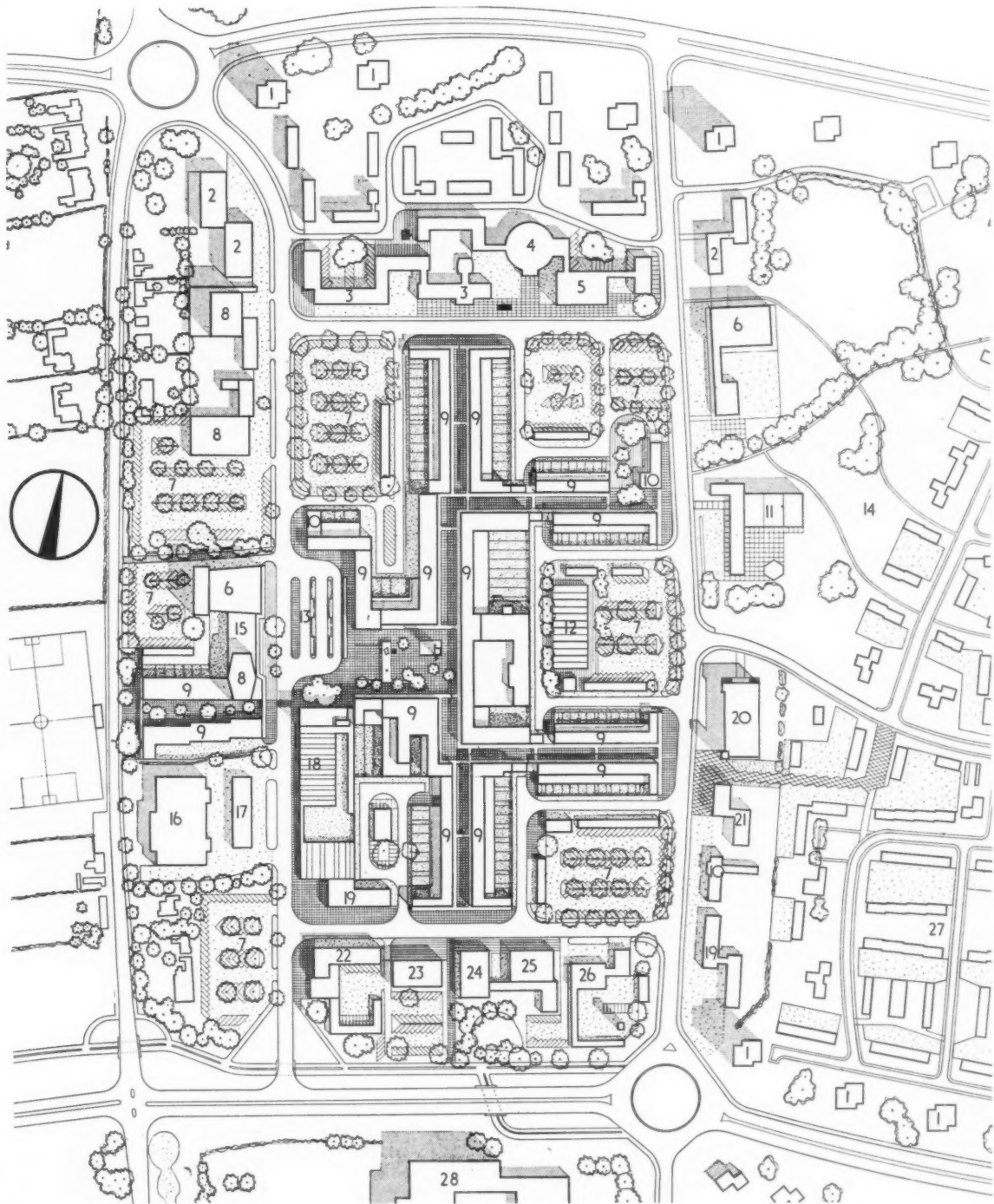


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PROPOSED TOWN CENTRE, STEVENAGE continued



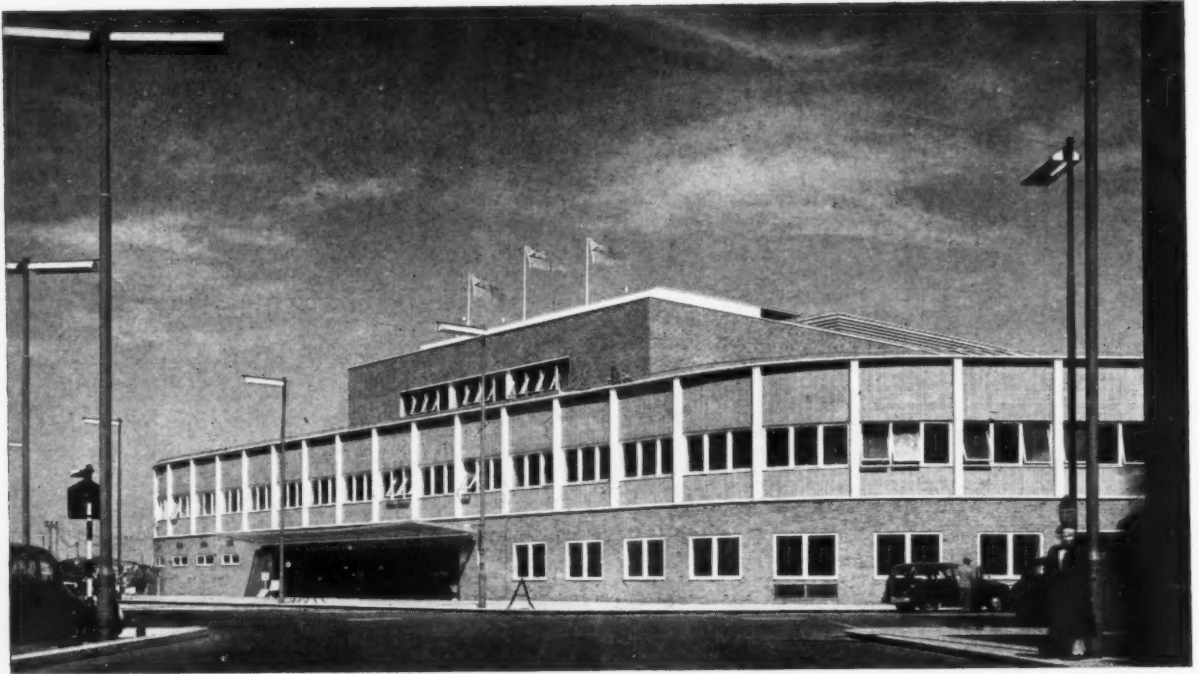
KEY

- 1. Flats, point block
- 2. Hotel
- 3. Town Hall
- 4. Museum
- 5. Art gallery
- 6. Cinema
- 7. Car park

- 8. Offices
- 9. Shops
- 10. Public house
- 11. Swimming pool
- 12. Market
- 13. Bus terminal
- 14. Town park

- 15. Dance hall
- 16. L.T.E. garages
- 17. L.T.E. offices
- 18. G.P.O. headquarters
- 19. Petrol station
- 20. St. George's Church
- 21. Crown offices

- 22. Police station
- 23. Police court
- 24. Health centre
- 25. Library
- 26. Fire station
- 27. Housing
- 28. County college



Queen's Building, London Airport

Architect : Frederick Gibberd, F.R.I.B.A. Contractors : Taylor Woodrow Construction Ltd.  
Consulting Engineers : Sir William Halcrow & Partners

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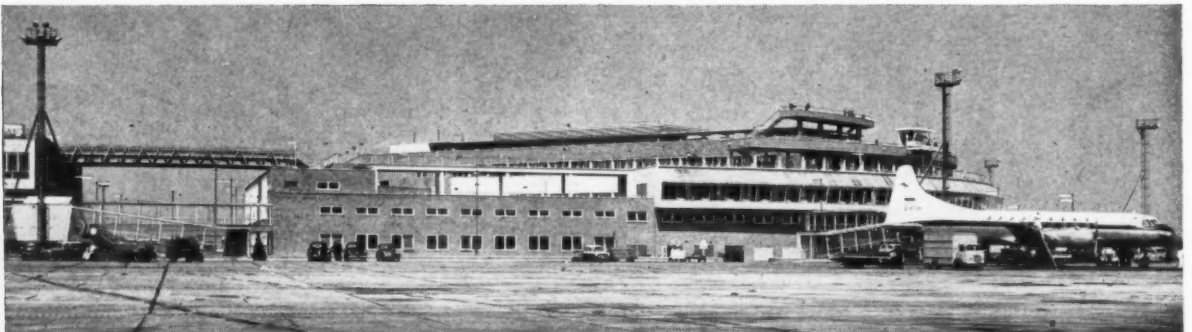
**LEEDS** Stourton, Leeds, 10. Leeds 75421

**LICHFIELD** Dovehouse Fields, Lichfield, Staffs. Lichfield 2404

**FALKIRK** Etna Road, Falkirk. Falkirk 1930

Photographs : 'Architect & Building News'

CON 69



## THE INDUSTRY

*From the industry this week, Brian Grant reviews a booklet on insulation with aluminium foil, and describes an oil-filled electric radiator, an electric cooker and built-in-kitchen furniture.*

**INSULATION WITH ALUMINIUM FOIL**  
Venesta Ltd., have just issued a new booklet on the production and uses of aluminium foil, which is now very widely used for all forms of packaging and has for many years replaced what used to be called "silver paper." So far as the building industry is concerned the foil is very useful as a thermal insulation material, as it reflects 95 per cent. of the radiant heat which falls on it.

Several years before the war it was used for the insulation of boilers, and, in corrugated form, for the insulation of roofs, while in America corrugated foil has been used for many years for insulating the walls of timber framed houses, being applied in vertical strips between the studding. In this country, insulating plaster-board was produced four or five years ago with a thin layer of aluminium foil on one face for reflective purposes and it may also be glued to Kraft paper or cardboard. Reinforced in this way, foil as thin as .007 mm. may be used, and its high reflecting value means that it may also be used for keeping buildings cool in hot climates. (*Venesta Ltd., Vintry House, Queen Street Place, London, E.C.4.*)

**ELECTRIC RADIATORS**

The photograph on the right shows the new Hursel J.10 oil filled electric radiator, which has a loading of 1 kW. and a total height of only 17 in. so that it is suitable for installation underneath windows. The radiator has an overall length of 38 in., and radiating surface of 18½ sq. ft.; various colour finishes are available, and the price,



*Fixing corrugated sheets of Venesta aluminium foil in position.*

including purchase tax, is £22 19s. 8d. A set of four castor wheels is available as an extra.

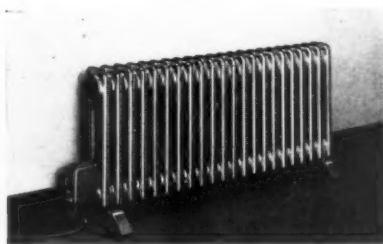
Another new fitting is a towel-rail attachment, which can be supplied to fit any

length of radiator. Price, stove enamelled, is £1 19s. 10d. or a £1 more in chrome, including purchase tax. (*Hursel Ltd., 229, Regent Street, London, W.1.*)

**NEW ELECTRIC COOKER**

The latest Revomatic automatic cooker is designed for time-controlled cooking, and has a tall splash-back which carries the Simmerstat control switches for all the hob equipment, the time-control and the light for the hob. The drawer at the base of the cooker is not heated, and is intended only for utensils storage, and the large oven has a removable three-piece interior for easy cleaning. A three-pin socket to supply such things as kettles or toasters is built into the side of the hot cupboard, and this can also be controlled by the

*The Hursel J.10 radiator.*





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## technical section

automatic timer, as can the grill and the two boiling plates. (Revo Electric Co. Ltd., Tipton, Staffs.)



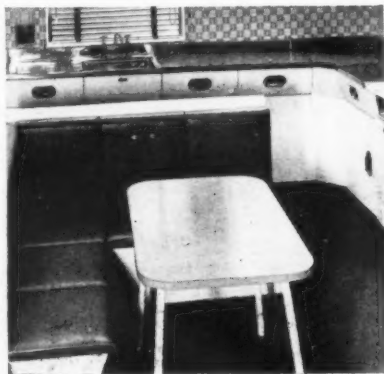
The Revomatic automatic cooker.

## BUILT-IN FURNITURE

C.S.A. Industries, whose English Rose kitchen equipment has been on the market for a good many years, are now producing small seating units for use in dining recesses. The units are upholstered in leather cloth which is available in the same colours as the Formica work tops of the kitchen fittings, and are 18-in. wide 20-in. deep and 38-in. high. The backs of the seats are easily detachable so that they can be fixed to the walls, and the seats themselves can either be fixed or arranged to lift up and provide storage space below. An 18-in. by 18-in. corner unit with a fixed seat is also available so that continuous seating can be arranged round corners. The price of the standard unit with fixed seat is £9 6s. the corner unit costing £12 16s.

Another recent introduction is a counter top with a single supporting leg, the top measuring 42-in. by 15-in. and being faced with Formica in colours which match the other fittings. The price is £9 7s. 6d. (C.S.A. Industries Ltd. Warwick.)

The C.S.A. Industries seating unit.



## 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.*

10.149 design: building types  
MOH CIRCULAR

National Health Service. Hospital Fire Precaution.

Designed primarily for hospital management and staff, this memorandum is nevertheless of interest to architects concerned with hospital design and maintenance.

It deals in some detail with fire fighting and equipment as well as means of escape, and notes on structural measures, and has a special section dealing with mental hospitals. A very useful series of appendices deal with statutes concerning fire prevention, storage of X-ray films, departments of high fire risk, common causes of fire and advice on their prevention, and a list of references and details of extinguishing apparatus. So far as planning requirements are concerned, it is not specific, but the architects can use the bibliography for reference to more detailed recommendations.

## 18.179 construction: theory

## TRANSPORT ENGINEERING

Fundamentals of transportation engineering. R. G. Hennes and M. I. Ekse. (McGraw-Hill Publishing Ltd. 64s.)

This book is a survey of the function of the civil engineer in the field of transportation. The primary object of the authors was to help graduating engineers to choose a specialized career, but they have presented in one volume such a wealth of useful information that the book will have a much wider appeal. The authors have not delved deeply into theory or design techniques, they have rather tried to give the background against which the detailed planning and design of different types of projects are carried out, and the standard of construction which is required for different purposes.

The book is divided into four main sections dealing with roads, airfields, railways and river and coastal engineering, and there are two short sections on pipelines and belt-conveyors. All these subjects are of obvious interest to engineers and the first two may prove of special interest to architects. In the section on roads the various tests which

are used to classify soils according to their engineering properties are described together with the methods of design which are available for deciding the type and thickness of pavement which must be used at a given site. Descriptions are given of all types of road structures ranging from low-cost roads made with local materials and stabilized soil to the high-type bituminous and concrete pavements used on the heaviest-trafficked routes; it should be noted, however, that it is American practice which is described here and not the practice in this country.

In the airfields section the requirements of different types and intensities of air traffic are discussed together with the factors affecting the siting and layout of runways, and some typical layouts of terminal buildings and aircraft-handling facilities are included.

This book is not a design manual but the designer will find it contains a lot of useful information, and the constructor will find it will help him to appreciate what lies behind the designs he is executing.

## 22.82 sound insulation and acoustics

## FUNCTIONAL SOUND ABSORBERS

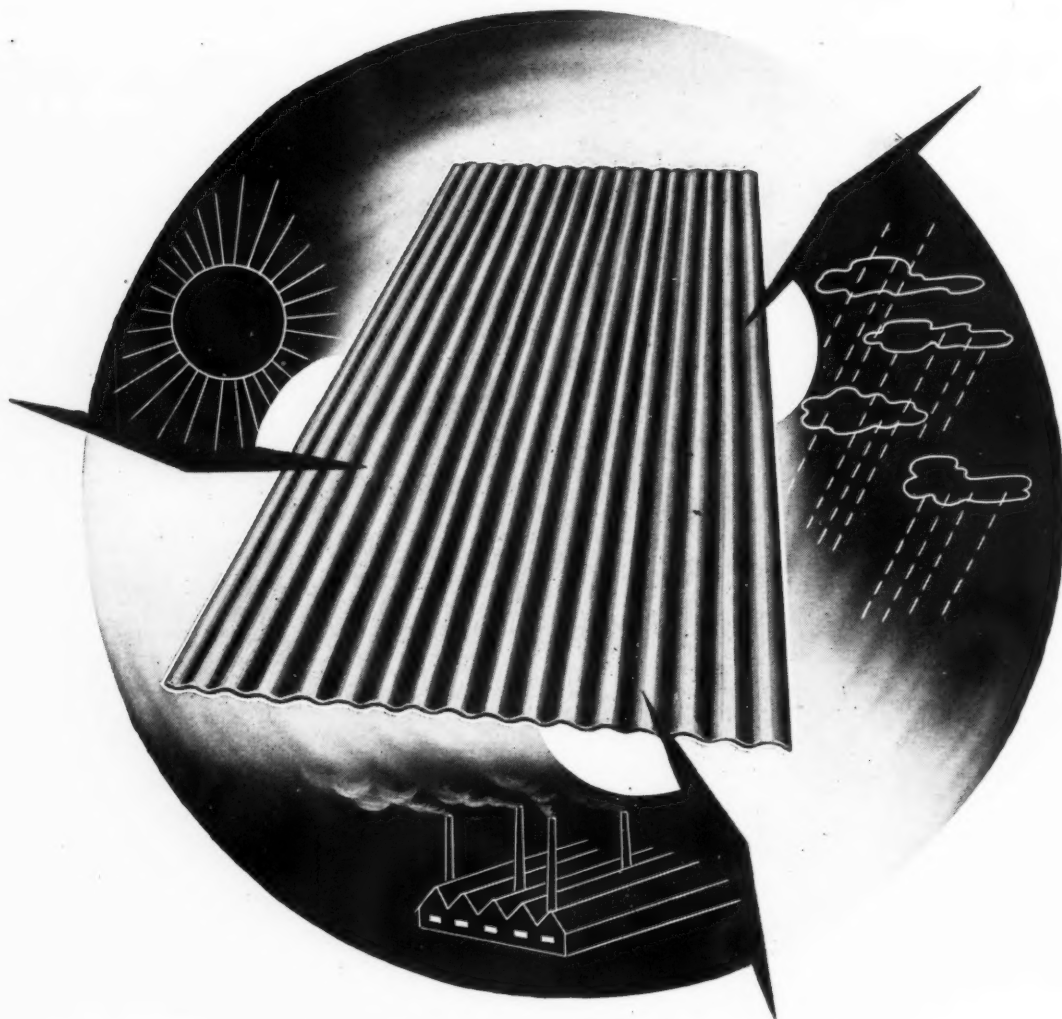
Results of Functional Sound Absorber Installations. H. A. Gould and L. F. Yerges. Noise Control (Publication of the Acoustical Society of America) Vol. 2 No. 2. March 1956.

A fully documented report on the use of "functional" sound absorbers in two factories. This is a good instance of work in U.S.A. where, to quote the journal in which this article appears, "they are doing something about noise."

The theory of "functional" sound absorbers predicts that high efficiencies in sound absorption can be obtained if the absorbing material is shaped into a solid body, such as a cube, cylinder or solid pyramid which is fixed freely in the field of the noise. This type of absorber can be used where there are no extended surfaces available for the application of more normal acoustic tiles, or where pipes, sprinklers or other obstructions occur. Moreover if the noise source is moved to another location the entire functional sound absorber installation can readily be moved to the new location with a minimum of expense. It must be appreciated that the installation of these or any absorbers will make little or no difference to the sound levels in the immediate vicinity of the noisy machine (although the directional properties of the noise may be changed in a desirable manner) but will reduce the spread of noise and hence the noise levels at all points more than a certain distance from the noise source. For example a level of 95 db at a distance of 30 feet from the noise source was reduced to 85 db after the installation of about 150 functional sound absorbers hanging above the noise producing machine. Even greater noise reduction can be obtained by the use of barriers which need not constitute full height division walls, round the noisy machine in association with a "ceiling" of functional absorbers.

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## technical section

## 9 DESIGN: GENERAL

## flat and house costs

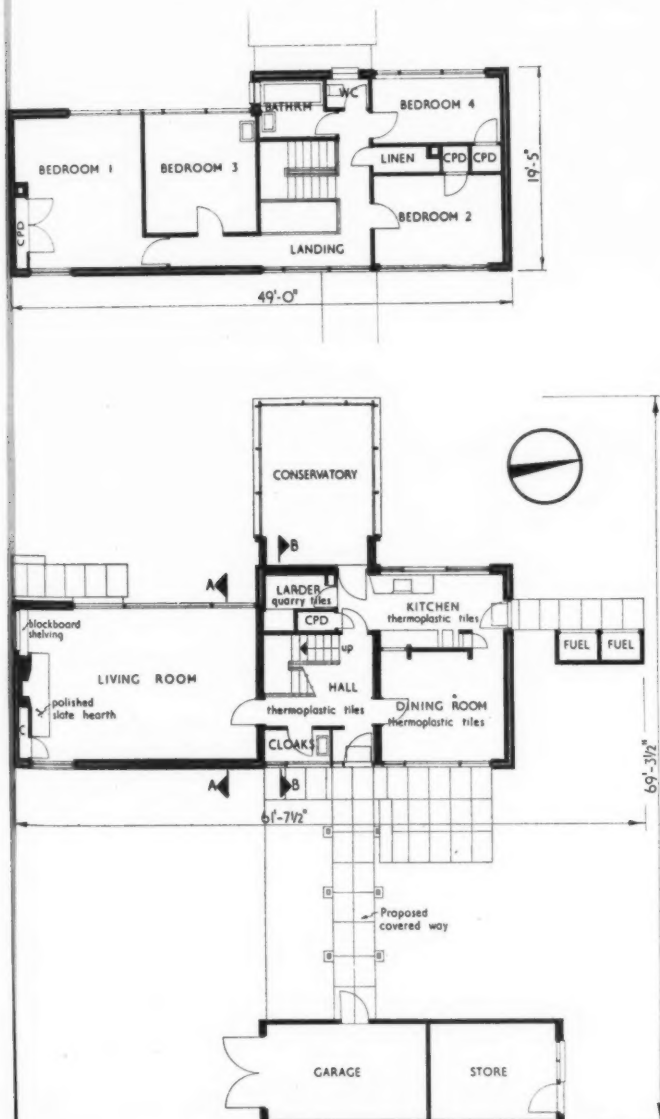
Mr. Duncan Sandys, the Minister of Housing, recently challenged chartered quantity surveyors to investigate the problem of the difference in cost between houses and flats. Architects and quantity surveyors may feel that this is a problem which only BRS could look at. But in the study printed below, James Nisbet—one of last year's AJ Guest Editors—shows that the method of cost analysis suggested by them (AJ, February 24, 1955) can be used to indicate

where investigation could begin. Published information is still very scanty, but the analyses of an eleven-storey block of flats and a private house (see AJ for April 28 and June 30, 1955) here put side by side, show how any architect or quantity surveyor with the correct analyses can determine which elements cost more and are the significant causes of high cost in flats.

The cost analyses shown on page 90 allow comparison to be made between the cost of an eleven-storey block of local authority flats (published in the JOURNAL for April 28, 1955) and a two-storey detached house built for a private client (published in the JOURNAL for June 30, 1955). The house (Fig. 1) is detached and has an area of 1,500 square feet. The block of flats (Fig. 2) contained 30 three-bedroom, 10 two-bedroom, 1 four-room and 1 one-room flats, and was one of several in a large contract. The cost analysis for the flats was originally published in the form of percentages and to obtain a comparison of element costs it was necessary to assume a cost per square foot of floor area (excluding public space, e.g. landings). A cost of 66s. 6d. was chosen as representing the average between the limits of 55s. and 80s. quoted by Dr. J. C. Weston in his paper at the RIBA Symposium on High Flats on February 15, 1955, and it should be noted that it may not be related to the actual cost. While interest will generally centre on the difference in cost between local authority flats and houses, an examination of the cost analyses will give some indication of which elements are responsible for the substantial difference in cost between multi-storey flats and two-storey houses. Unfortunately, due to the assumption made for the cost per square foot of the eleven-storey flats and the use of a cost analysis for a private house no firm conclusions should be drawn.

The analyses show that the flats cost 20s. 9d. per square foot more than the house, or 21s. 9d. more, if the allowance for contingencies is omitted from the analysis of the house. None is shown in the analysis of the flats. The following table shows the groups

Fig. 1. Left, ground and first floor plans of the house at West Mersea, designed by Richard Finch. Below, the house from the south-west.



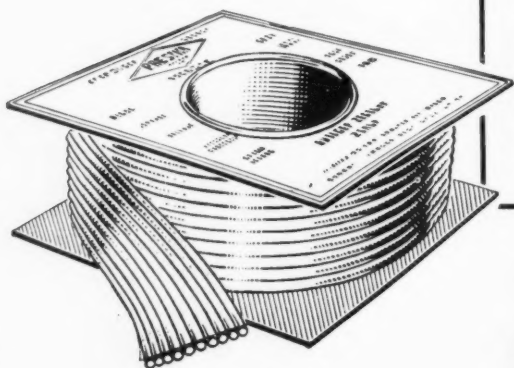
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### technical section

of elements which are responsible for this extra cost:

	s.	d.
Preliminaries	0	8-8
Sub-structure	0	5-8
Structure	3	1-1
Finishes	2	1-2
Services	15	8-3
	22	1-2

These figures exclude minor differences.

From this it will be seen that the services account for some 70 per cent. of the extra expenditure and somewhat surprisingly, considering the relatively high standard of finishings in the house, the finishes account for another 10 per cent. The preliminaries, sub-structure and structure therefore, and rather unexpectedly account for only 20 per cent. of the differences.

### Services

Examination of the extra expenditure due to the services reveals that the flats provide four services, mechanical ventilation, dry fire main, lifts and refuse chutes which are not provided in the house. These account for 7s. 3d. which still leaves 8s. 5d. to be accounted for. Clearly the bulk of this residue is due to the central heating system and the plumbing installation.

The sanitary fittings in the flats account for twice as much per square foot but this would probably be due to the house having about double the floor area of the flats while the number of fittings provided would probably be much the same.

The electrical installation is also double the amount spent on the house. In this case the house is likely to have more light and power points than the flats but the extra expenditure may be due to the latter

carrying an "overhead" for switch-gear serving all flats. It will be obvious that the smaller rooms and compact planning of the flats will tend to increase the cost per square foot of the services generally but to what extent would require a closer examination than is possible from the information in the published analyses.

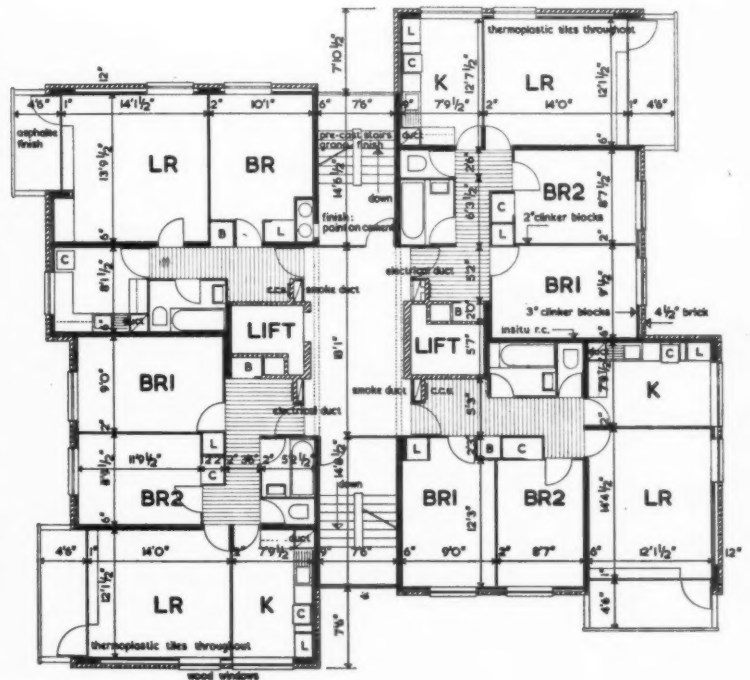
### Finishes

At first glance it is surprising to find that finishes cost more in the flats than in the house. In the flats, the wall and ceiling finishes will also carry the costs of these finishes to the public spaces and the floor finishes will be complete on each floor. In the house the upper floor was 1 in. boarding and in the lounge a substantial area was screeded, thus requiring the owner to provide carpets or other floor finishings, the cost of which would not be shown in the analysis. Even so a 30 per cent. increase on the cost of the house finishes suggests that flats require a much higher standard of finish than is found sufficient for local authority houses.

A cost analysis of a local authority two-storey house has yet to be published but if houses of approx. 910 square feet are being built for 30s. 3d. square foot\* (i.e. a difference between houses and flats of 36s. 3d. instead of 21s. 9d. per square foot) where does the other 14s. 6d. lie? Or to put it another way—on what elements of the private house can a saving of 14s. 6d. be found? For the present the answer can only be

\*Taken from Table E appendix I of the Report of the MOHLG for 1951/54. HMSO.

Fig. 2. Below left, eleven-storey point block on the LCC Alton Estate, Roehampton (Architect to the Council, Dr. J. L. Martin). Below, typical floor plan.



## technical section

PRIVATE HOUSE AT WEST MERSEA,  
COLCHESTER

Architect: Richard Finch

	Cost per square foot
	s. d.
Preliminaries	—
Contingencies	1 0
Sub-structure	3 2-1

	s. d.
Structure	4 3-7
Roof	3 6-1
Upper floor	6 10-4
External weather boarding and facings	5 0
Windows and doors (external)	0 7-5
Internal partitions	1 2-1
Internal loadbearing partitions	0 9-9
Glazing	22 3-7

	s. d.
Finishes	1 8
Wall finishes	1 3-5
Floor finishes	3 4-6
Decorations	6 4-1

	s. d.
Fittings	1 3-2
Doors (internal)	0 10-1
Ironmongery	3 11-5
Built-in fittings	6 0-8

	s. d.
Services	3 2-1
Heating	1 2-1
Electrical	0 9-7
Sanitary fittings	0 1-6
Plumbing (external)	1 2-7
Plumbing (internal)	6 6-2

Drainage	0 4-3
----------	-------

Laundry	—
---------	---

Total cost per square foot of floor area (1,500 sq. ft.)

45 9-2

ELEVEN STOREY "SQUARE" POINT BLOCK OF  
FLATS ON LCC ESTATES AT ROEHAMPTON  
AND WANDSWORTH

Architect to the Council: Dr. J. L. Martin

	Cost per square foot
	s. d.
Preliminaries	0 8-8
Contingencies	—
Sub-structure	3 7-9

	s. d.
Structure	12 2-8
R.c. frame, walls, floors, roof	3 7-9
Walls and facings	1 5-5
Precast stairs and landings	1 3-2
Wood windows	0 10-4
Internal partitions	0 8-8
Metal window to stair	0 5-6
Glazed screen to stair	2 9-5
Balconies	0 8-0
Sound insulation to floors	0 2-4
Bitumen felt roofing	0 2-4
Asphalt to balconies	0 10-4
Glazing	25 4-9

	s. d.
Finishes	2 4-7
Wall and ceiling finishes	2 0-7
Screeds (floor)	1 9-5
Floor finishes	2 2-3
Painting	8 5-2

	s. d.
Fittings	1 8-7
Doors and frames	0 7-2
Ironmongery	1 6-3
Skirtings, cupboards, shelving, picture rails	1 3-2
Kitchen fittings	5 1-4

	s. d.
Services	9 7-7
Central heating, hot water, cold water	2 7-9
Electrical	1 7-9
Sanitary fittings	0 8-8
Plumbing and rwp's	0 8-0
Mechanical ventilation	0 4-0
Dry fire main	0 3-2
Gas	6 0-6
Lifts	0 2-4
Refuse chutes	22 2-5

Drainage	—
----------	---

Laundry	0 11-2
---------	--------

Total cost per sq. ft. of floor area (674 sq. ft. av. excluding staircase, landing, lifts) Note: this figure is assumed as an average between the extremes of 55 shillings and 80 shillings per sq. ft. given by Dr. J. C. Weston of BRS

66 6-0

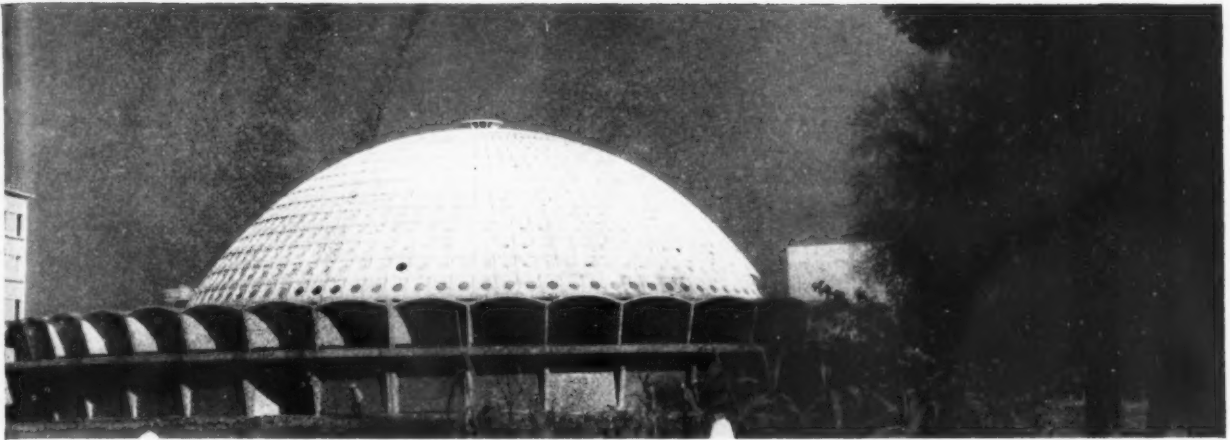
surmised, but it will be apparent that the following elements can all yield useful amounts.

External weather boarding and facings; window and doors (external); decorations; built in fittings; and heating. To this may be added savings due to local authority houses being semi-detached or built in terraces and let in contracts frequently for large

numbers.

This brief and superficial study, using information which may not be representative of local authority flats and houses, does, in spite of its limitations, indicate which elements may be responsible for the extra cost of flats, and the extent to which each of these elements may be responsible.

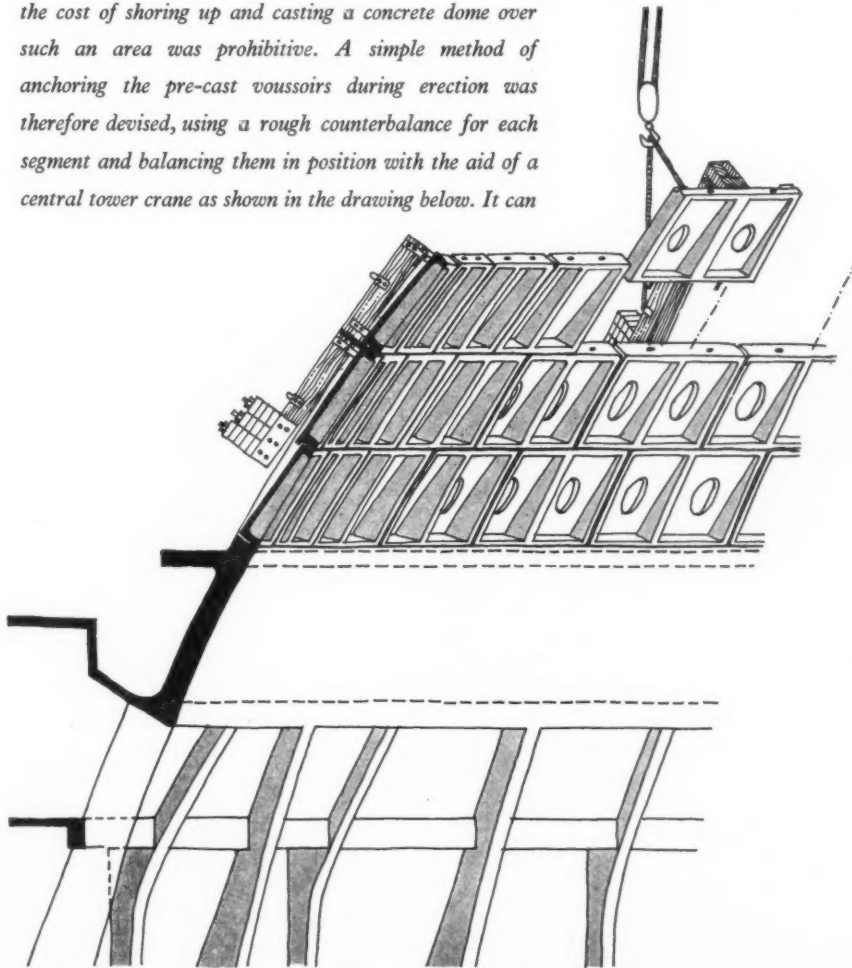
technical section



### MARKET HALL AT SIDI-BEL-ABBES, ORAN, N. AFRICA

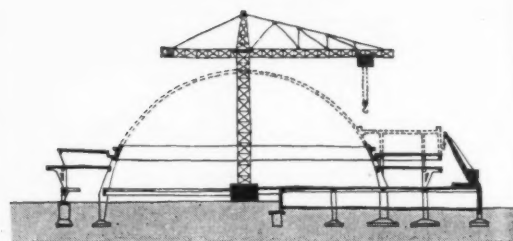
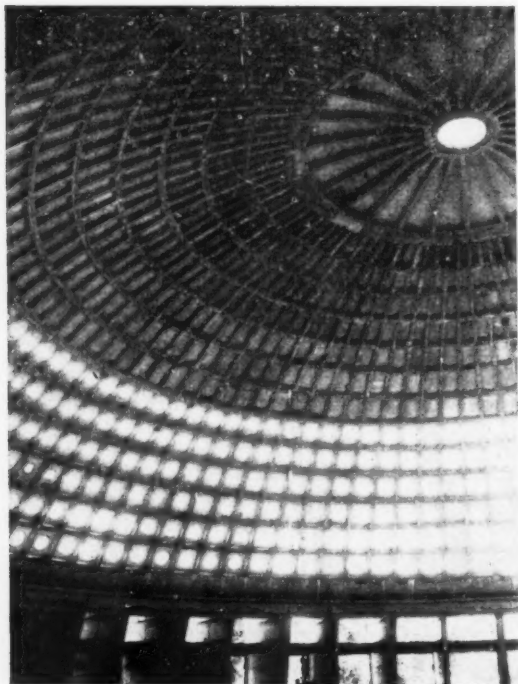
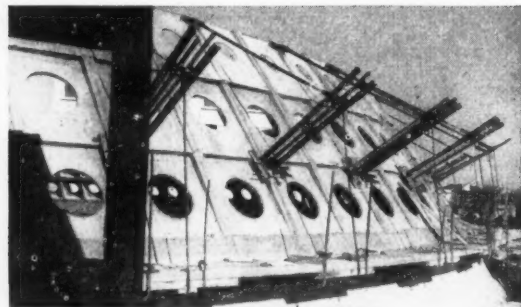
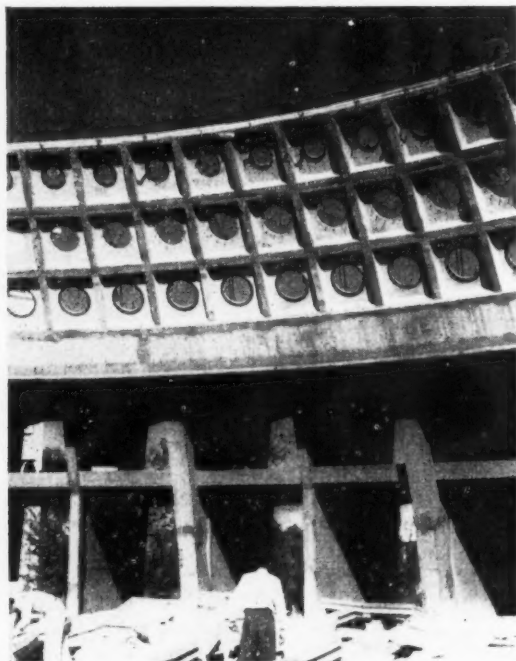
When faced with the task of designing a 41-metre (138-ft.) dome for the covered wholesale market at Sidi-Bel-Abbes the architect, M. J. Mauri, found that the cost of shoring up and casting a concrete dome over such an area was prohibitive. A simple method of anchoring the pre-cast voussoirs during erection was therefore devised, using a rough counterbalance for each segment and balancing them in position with the aid of a central tower crane as shown in the drawing below. It can

be seen that each voussoir has two coffers and the joints are staggered from course to course. The finished dome, above (seen from the west), is surrounded by 40 shops,



**ERECTION TECHNIQUE** \* each of the 648 voussoirs were counter-balanced and needed no shores whilst being fixed.

## technical section



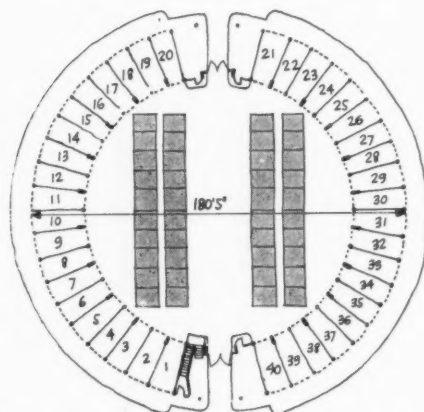
SECTION of market under construction

Pre-cast concrete elements of dome are cast on floor of the fish-market and raised into position by the two cranes.

MARKET HALL AT  
SIDI-BEL ABBES, ORAN

continued

each with its own storeroom, and the whole market houses another 40 stalls. Each voussoir is held pending the completion of the ring by a steel guy suspended from a 'mast' (centre left). As each row of voussoirs was laid in position the counter-weights were removed for use in the next row and the strain taken up by a circle of steel angle restraining members, joints being grouted up with a bitumen mastic. Every second row of joints contains rod reinforcement and the casting box for these encircling "chains" can be seen being placed in position in the photograph, top left. The tolerance for each voussoir was limited to 2 mm. and any errors were largely overcome by tracing the line of each row from the preceding one: in all, there are 14 courses and a central glazed and ventilated lantern. The segments were pre-cast on the floor of the market itself and lifted into position by the central tower crane, as shown in the drawing above. The total cost of the building was nearly 60,000,000 francs (about £62,500). The effect of the completed interior can be seen in the bottom photograph.



■ - 40 stall spaces

Nos 1-40 - shops

building illustrated

## HOUSE

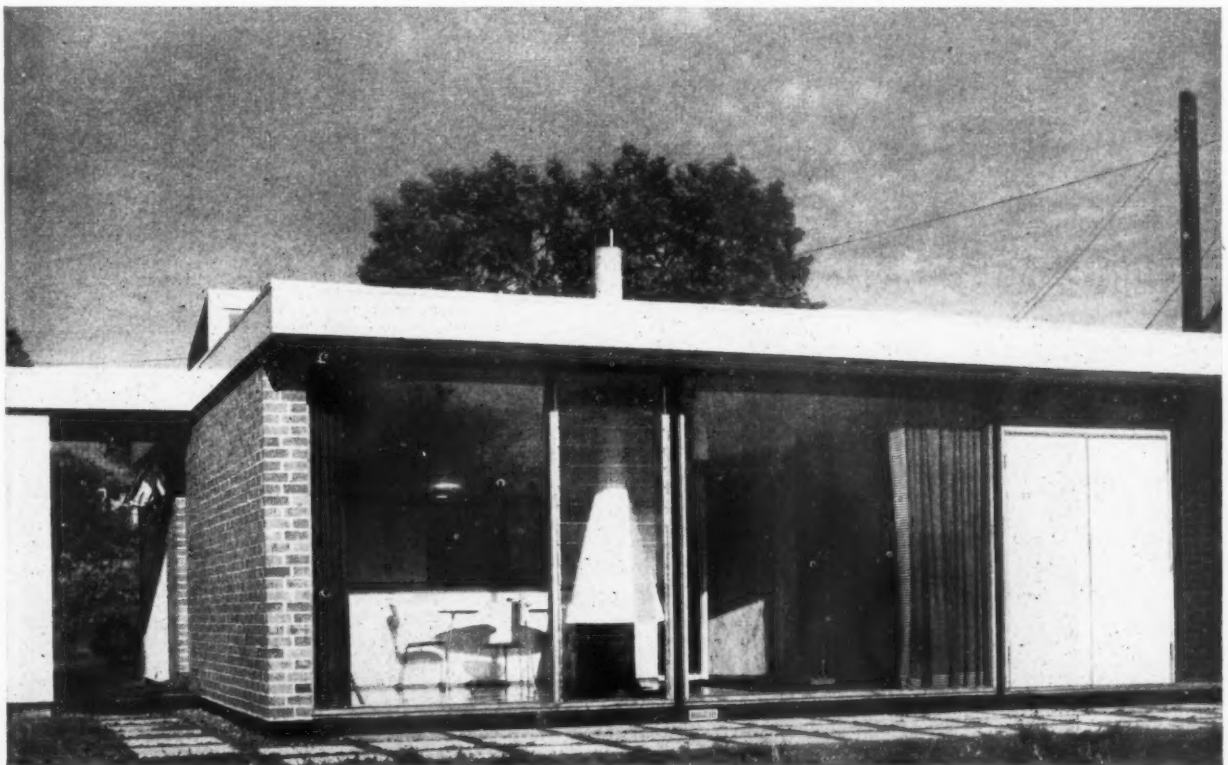
at OULTON BROAD, LOWESTOFT, SUFFOLK

designed by JOHN and SYLVIA REID

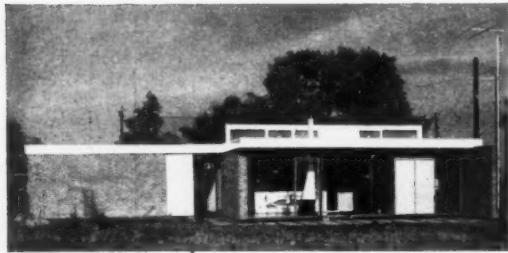
heating consultant, H. J. KNOX, quantity surveyors, DAVIS, BELFIELD and EVEREST

The clients of this single-storey house at Lowestoft required a small, compact dwelling for a price limit of £3,000, including the cost of site, garage and all built-in furniture. The architects have achieved a very compact plan, of approximately 750 sq. ft. for the house itself, by placing the service core, consisting of kitchen and bathroom-w.c. in the centre of the building, lit by clerestory windows. The house is under-floor heated throughout.

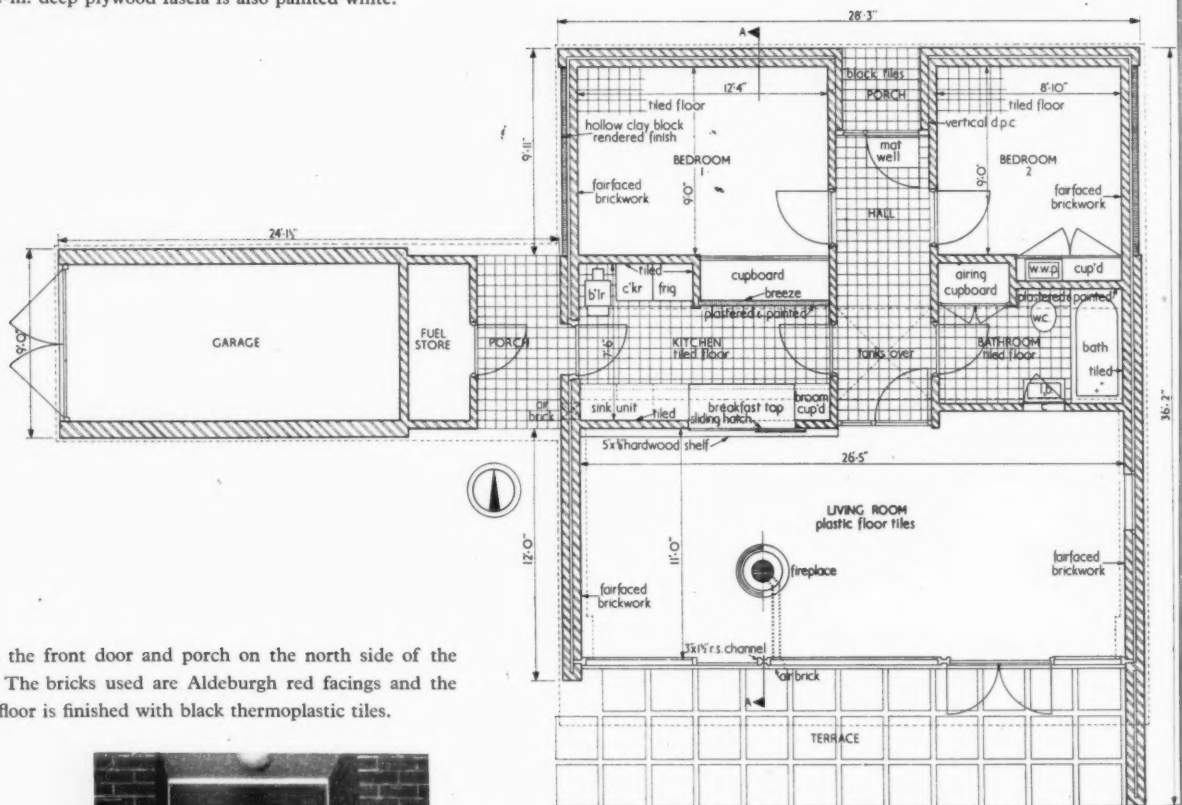
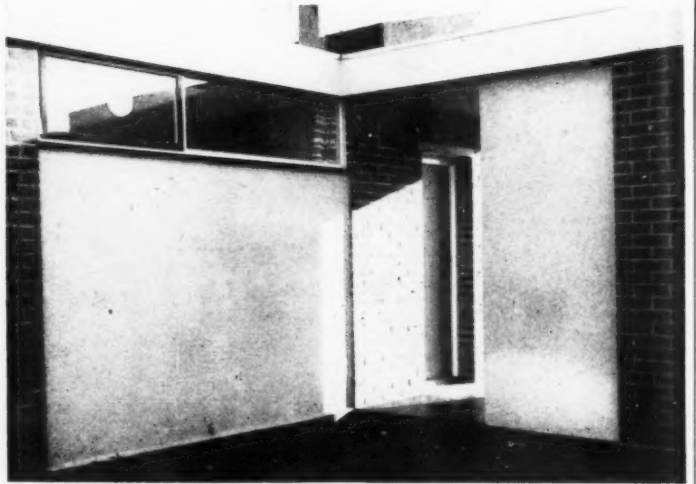
The house from the south-west.



## building illustrated



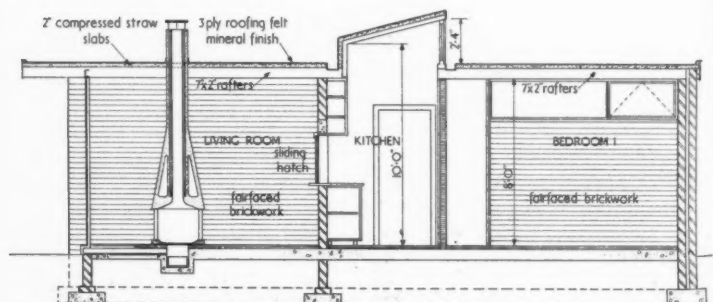
The house, which stands on a site of just under an acre, is seen above from the south. The living room windows form the entire south facade, with the clerestory lighting to kitchen and bathroom showing above the fascia, and the south wall of the garage on the left. Right, the kitchen entrance under a covered way between house and garage. On the left are high-level windows to the main bedroom above a panel of hollow-clay blocks finished with white Tyrolean rendering. The 12-in. deep plywood fascia is also painted white.



Below, the front door and porch on the north side of the house. The bricks used are Aldeburgh red facings and the porch floor is finished with black thermoplastic tiles.



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



Section A-A

## building illustrated



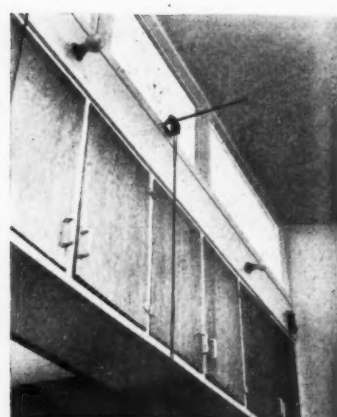
Above, the dining area on the west side of the living room. Finishes include fair-faced brickwork for the far wall, 12-in. sq. thermoplastic floor tiles in two shades of grey and a ceiling of skim-coated plasterboard, distempered. The roof is constructed of 2-in. timber joists, compressed straw slabs and a covering of mineral-finish three-ply felt. The roof is supported on the south side by a RSJ and RS channel stanchions. Elsewhere there are 11-in. cavity load bearing external walls; both skins are of brick, except for panels of hollow clay blocks, rendered, on the east and west facades. Internal partitions are of 4½-in. brickwork, plastered. Windows have oiled teak frames on the south elevation and have purpose-

made softwood frames, painted white, elsewhere. Glazing is in ¼-in. polished plate glass. Part of the glazed south wall of the living room, opposite the fireplace, consists of adjustable glass louvres in a stainless steel frame for ventilation.

## HOUSE

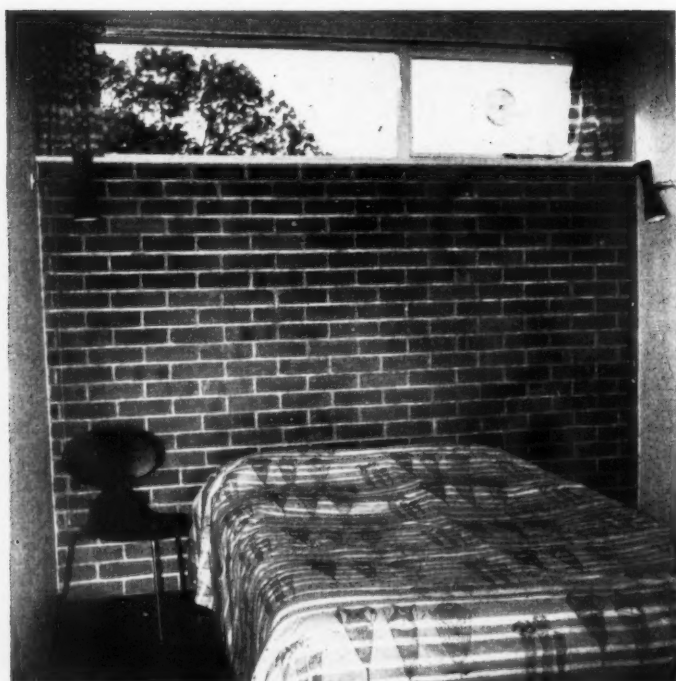
at OULTON BROAD, LOWESTOFT  
designed by JOHN and SYLVIA REID

building illustrated



Top left, at the south-west corner of the house, the dining area of the living room. Behind the dining table is seen the kitchen hatch and on the left the free-standing fireplace, which was illustrated as a Working Detail in the JOURNAL for

March 22, 1956. The concrete hood is painted white and the base and fireback, black. Centre top, a view from the dining area showing the door to the hall on the left and built-in bookshelves against a dark green distempered wall. Top right, the bathroom. The fittings, paintwork and tiled wall are white and the wall on the right is distempered khaki. Above left and left, the owner's bedroom at the north-west corner of the house. The dressing table is of teak and has a black laminated plastic top and three drawers. The built-in clothes cupboard has sliding doors, one painted white and the other black. The walls are distempered white facing the cupboards and yellow behind the dressing table. Above centre, a general view of the kitchen and above right, the high-level built-in cupboards under the clerestory lighting. The garden can be seen from the kitchen through the wide hatch to the living room, on the left in both photographs. The working top beside the hatch is used for quick meals when required and is finished with black plastic. The boiler, cooker and refrigerator are in a recess near the back door.



## building illustrated

The small floor area and compact plan of this house are well suited to the use of under-floor heating panels; the heating layout is shown on the following page. Below, part of the floor slab of 4-in. site concrete with the copper heating pipes shown before the final 2-in. of fine concrete and 1-in. screed were laid. Under the 4-in. concrete is a hot pitch-mastic d.p.m. The thermostatically controlled solid fuel boiler gives 42,800 B.T.U./hr. and supplies domestic hot water as well as floor heating. All tanks, and the majority of pipe runs are in the clerestory, leaving walls free for storage units, etc. Above the boiler there is a circulating pump which delivers  $2\frac{1}{2}$  gall./min. at 2,600 r.p.m. and is operated by a 55-watt totally-enclosed electric motor with a button starter. The unit is silent in operation. The boiler, when the heating system is in use, operates at  $180^{\circ}$  F., giving a temperature of  $120^{\circ}$  F. on the panel flow thermometer. At night the fire is banked up, the main damper closed and the pump switched off. There is an electric immersion heater for domestic hot water in the summer. The thermoplastic floor tiles used throughout the house were chosen because they are unaffected by changes of temperature. Top right, the w.c. fitting, which has a concealed cistern.

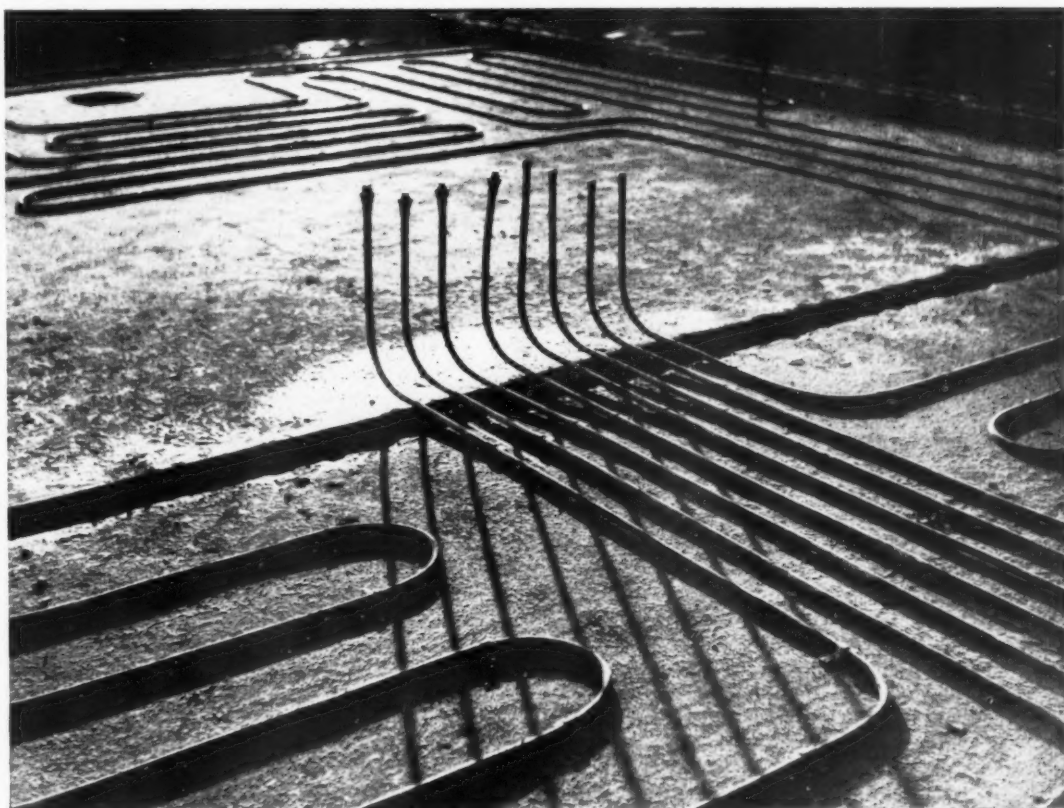


## HOUSE

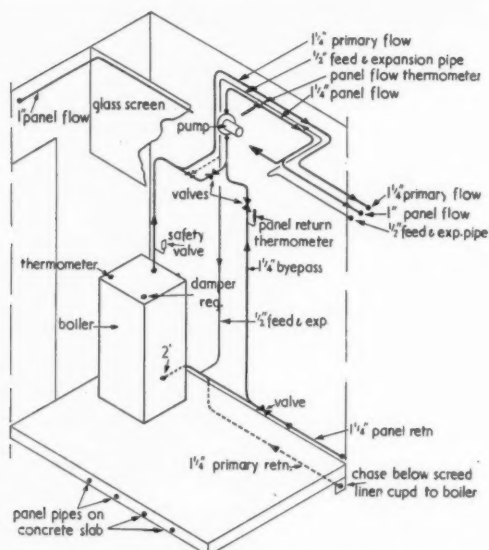
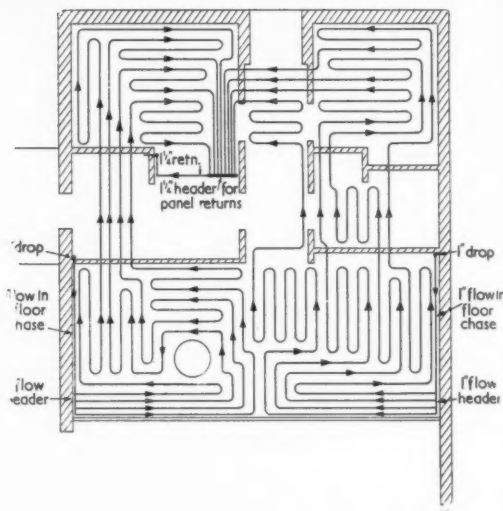
at OULTON BROAD, LOWESTOFT

designed by

JOHN and SYLVIA REID



## building illustrated

Diagram showing boiler connections [Scale:  $\frac{1}{4}'' = 1' 0''$ ]Ground floor plan showing layout of floor panels [Scale:  $\frac{1}{16}'' = 1' 0''$ ]

## HOUSE

at OULTON BROAD, LOWESTOFT  
designed by JOHN and SYLVIA REID

## SUMMARY OF COSTS

	£
Site	350
House	2,305
Garage and fuel store	270
Site works (fences, paths, drive and terrace)	48
<b>Total cost (excluding loose furniture, light fittings and curtain tracks)</b>	<b>2,973</b>

## COST DETAILS

	£	s.	d.
Heating and hot water supply, floor panels, valves, lagging pump, "Crane" new Carlton boiler, Satchwell automatic regulator, indirect cylinder tanks and H.W.S. piping in copper	350	0	0
Sanitary fittings	50	17	1
Fittings: double fitted wardrobe in main bedroom	22	0	0
Wardrobe in guest bedroom	18	0	0
Two dining table units	46	0	0
Kitchen units	50	0	0
Bathroom cupboard	7	10	0
Living room bookcase	18	6	0
Floor finishes: thermoplastic tiles throughout	72	3	3
Fireplace: free standing fireplace and flue, air duct, etc.	41	17	9
Electrical installation: (sub-contract price)	75	0	0
Lighting fittings and curtain tracks	25	0	0
Floor area of house 750 sq. ft.			
Cost per sq. ft. of floor area (£2,241) =	2	19	9
Cost of heating and hot water supply installation, per sq. ft.	0	9	4

## CONTRACTORS

Main contractor: Harvey & Leech Ltd. Sub-contractors—Plumbing and floor heating: R. J. Pryce & Co. Boiler: Crane Ltd. Circulating pump: Sigmund Pumps Ltd. Copper pipes: Yorkshire Copper Tubes Ltd. Roofing: William Briggs & Sons Ltd. Roofing felt: Stramit Boards Ltd. Thermoplastic floor tiles: Armstrong Cork Co. Ltd. Stainless steel louvres: Williams & Williams Ltd. Ironmongery and door furniture: A. J. Binns Ltd. Plastic kitchen worktop: Thomas de la Rue & Co. Ltd. Electrical switches: M.K. Electric Ltd. Sanitary fittings: Adamsez, Ltd.

building illustrated

## HOUSE

in ST. MARY'S LANE, HERTINGFORDBURY, HERTS

designed by GEOFFREY WOODWARD

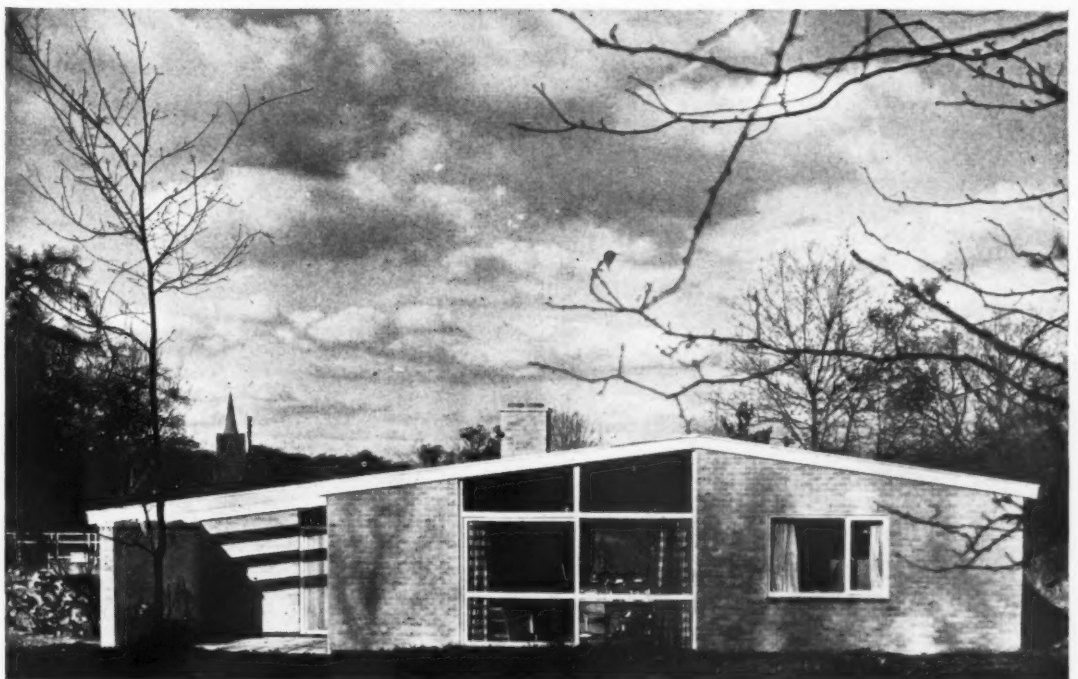
electrical consultant, F. HITCHING



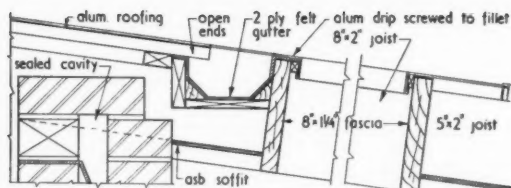
The kitchen entrance.

This single-storey house on a large site at Hertingfordbury, a few miles west of the County Town, is the first private house to be fully cost analysed in the JOURNAL. The cost figures have been compiled by the architect in collaboration with the builder, as there was no bill of quantities. The house is also one of the first to be roofed in aluminium sheeting; the client did not want a flat roof and a copper roof, the original choice, was found to be too expensive.

From the south.



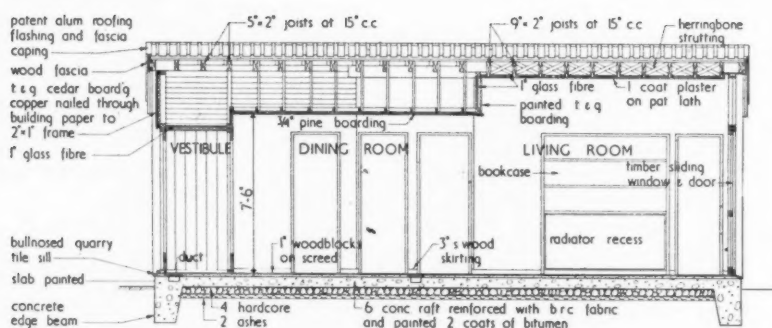
building illustrated



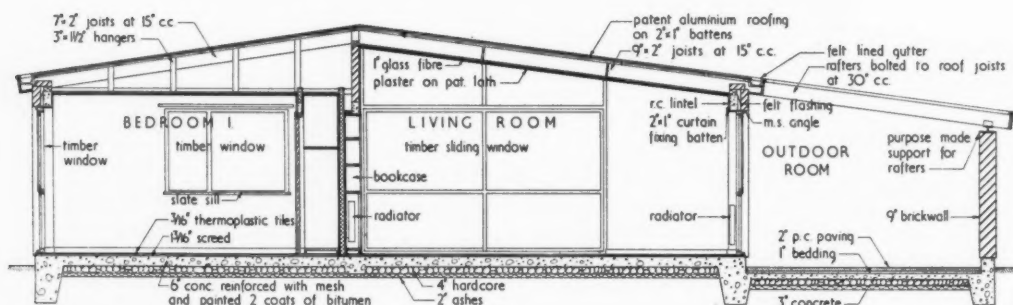
Detailed section, concealed gutter [Scale: 1" = 1' 0"]

# HOUSE

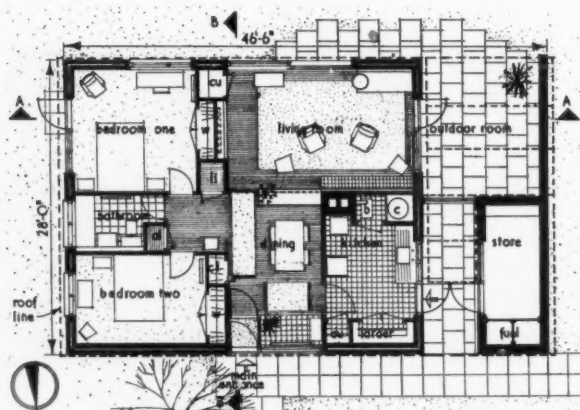
at HERTINGFORDBURY, HERTS  
designed by GEOFFREY WOODWARD



Section B-B



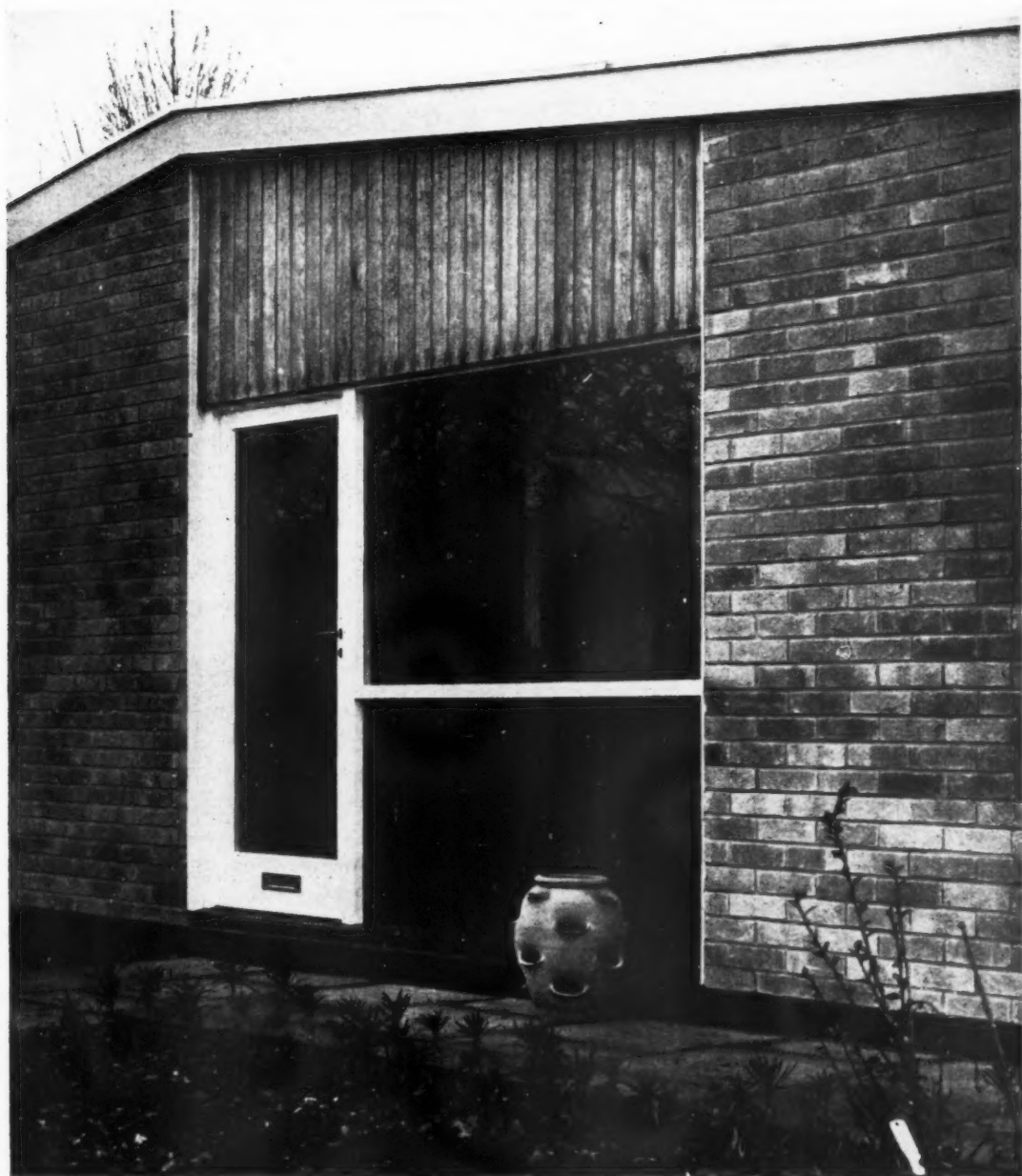
Section A-A [Scale: 1/4" = 1' 0"]

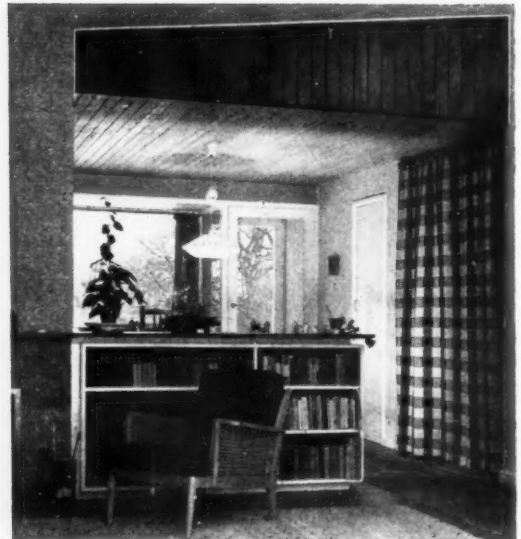


Ground floor plan [Scale: 1/16" = 1' 0"]

Top left, gutter detail, south-west corner of house. Top, opposite page, the north facade of the house with the main entrance in the centre and the covered way leading to the kitchen entrance and store on the right. Bottom, opposite page, a close-up of the front door. The hardwood timber framing is painted glossy white and the high-level vertical boarding is left natural. To the right of the door is a fixed-light window and below it a composite panel consisting of two thicknesses of glass, painted venetian red between the two sheets, and a hardboard internal lining.

building illustrated





Two views of the main living area.

### analysis

#### CLIENT'S BRIEF: his stated requirements

The clients required an inexpensive two-bedroom house, contemporary in character and allowing the maximum enjoyment of the site for living and, when possible, sleeping in the open air, and having ample built-in storage for books and clothing and space for furniture already in their possession, particularly dining room furniture and a spinnet. The kitchen was to be large enough for breakfasts and to be well heated. Aesthetic limitation—a flat roof would not be acceptable.

#### SITE: topography, surroundings, access, planting

Disused gravel pit about two acres in extent, narrowing to the north where it had been filled

about 45 years ago with gravelly sub-soil which formed the site for the house with a slope down to the north and a view to the church across fields. To the south the site is heavily wooded, some large trees but mostly scrub. The road from Hertingfordbury to Essendon runs along the western site boundary close to the house site. The Planning Authority laid down that access was to be from the northern tip of the site and advantage was taken of a small existing pit to form the site of a future car-port and workshop with the access drive cut through to it at road level. The house is built at a higher level on the only suitable part of the site.

#### PLAN: general appreciation and relation of units

Single storey gives light loading and a horizontal line contrasting with the trees on the site. House approach from north gives maximum

privacy to the out-door living areas to the south. Unbroken wall on west shields house from sight and sound from the road but allows a view from the kitchen along the road and to the church from the dining room, but the minimum number of opening lights and windows to the north protect the house from northerly winds. Bedrooms to east are private and get morning sun. Main bedroom, living room and outdoor room get maximum sun and privacy. Living room window slides half open to increase the sense of outdoor living and minimise the diversion between garden and house.

#### MAIN CONSTRUCTION general appreciation

Traditional. Load bearing walls east and west, with cross walls, give large spans over north and south windows without large lintols and enable slope of roof to continue over store and outdoor room, thus tying the buildings under a simple rectangular eaves line.

cost per sq. ft.	s	d
preliminaries and insurance	3	2
contingencies		5

### STRUCTURAL ELEMENTS

Work below ground floor level: foundation type	Location	Materials	Finish	Reasons and comments		
Reinforced raft	Under house, store, out-door-room	Reinforced concrete 1:2:4	Plinth face painted black	Old gravel pit. Foundation on fill	work below ground floor level	4 5½
External walls and facings	Location	Materials	Finish	Reasons and comments		
11-in. cavity construction	Perimeter, except where glazed door and window units occur	2½-in. sand faced hand-made facings	Recessed pointing to match facings	Good thermal insulation. Colour contrast with trees on site	external walls and facings	5 6
Load bearing inner leaf		2-in. sealed cavity				
Frame or load bearing element	Location	Materials	Beam spans	Column grid	Reasons and comments	
Load bearing partitions including chimney stack	East and west external walls and spine wall	4½-in. keyed flettons	Roof spans 16 ft. and 12 ft.	Generally	Point loads not desirable on this site	internal load bearing partitions 1 4½

## analysis

<i>Roof construction</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Patented aluminium decking (p.c.: £260, supplied and fixed) on softwood framing. Low pitch	Throughout	Softwood beams and aluminium decking, concealed gutters	Natural aluminium	Speedy erection. Ease of maintenance. Light weight economics on roof timbers	<b>roof construction</b>	<b>9 1</b>
<i>Windows and doors</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Fixed and opening lights, sliding frame, all in softwood	Throughout	Oregon pine	Gloss oil	Special sizes and large sliding window move more easily and quickly available	<b>external windows and doors</b>	<b>2 8½</b>
Fully glazed doors						
<i>Glazing</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Windows, doors and pre-cast panels	Throughout	Below sill level 1-in. plate and composite coloured panels, otherwise 32 oz. and 24 oz. 2 panels waterproof plywood	Plywood twice oiled	Easily maintained colouring externally	<b>glazing</b>	<b>1 8</b>

## PARTITIONING

<i>Internal partitions</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Non load-bearing	On east-west axis	3-in. breeze	¾-in. plastered both sides. Painted	Good sound insulation. Easy fixing for shelves, lavatory basins, etc.	<b>internal partitions</b>	<b>8½</b>
<i>Internal doors</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
All flush	Generally	Hardboard faced semi-solid core	Gloss oil paint		<b>internal doors</b>	<b>9½</b>
<i>Ironmongery</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Mortice locks, latches, bales, catches on cupboards, door handles	Throughout	Alby	D.N.P.	Swedish manufacture	<b>ironmongery to internal doors</b>	<b>5</b>

## FINISHINGS

<i>Floor finishes</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Cost per sq. yd. of each type s. d.</i>		
	Entrance lobby and kitchen	Quarry tile	Wax		<b>floor finishes</b>	<b>3 5½</b>
	Living area	Hardwood block	Wax	34		
	Bedrooms and bathroom	Thermoplastic tiles	Plastic polish	20		
<i>Wall finishes</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Softwood skirtings and architraves	Generally	Plaster boarding	For painting	Washable paintwork	<b>wall finishes</b>	<b>4 0</b>
	Vestibule	Pine	Untreated			
	Fireplace	Facings				
	Bathroom and kitchen	Glazed tiles				
<i>Ceiling finishes</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Plastic	Generally	Gypsum	Water paint		<b>ceiling finishes</b>	<b>1 0½</b>
Timber	Dining space	Pine	Untreated			
<i>Decorations</i>	<i>Location</i>	<i>Materials</i>	<i>Munsell or other reference</i>	<i>Reasons and comments</i>		
Externally and internal trim	Throughout	Hard gloss	White CN8	Light colours used throughout with accents of wallpaper in dining area and bedrooms	<b>decorations</b>	<b>3 3½</b>
Walls exception	Throughout	Water paint	Archrome range			
Bathroom and kitchen	Throughout	Semi-gloss oil				

## FITTINGS

<i>Built-in fittings</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Bookshelves	Living areas	Softwood and hardwood	Hard gloss	Division between living and dining spaces	<b>built in fittings</b>	<b>11½</b>
Larder shelving	Kitchen	Softwood	Hard gloss			
Kitchen sink unit	Kitchen	Softwood	Hard gloss			

## analysis

## SERVICES

<i>Plumbing: external</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Rain water disposal from secret gutters and $\frac{3}{4}$ in. copper c.w. service and connection to main	Throughout	Aluminium fittings	Hard gloss	Neat appearance including copper water services		
				<b>plumbing, external</b>	<b>1</b>	<b>2½</b>
<i>Plumbing: internal waste disposal</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
One pipe drainage system with anti-siphonage	Kitchen	Copper piping		Prefabricated traps and stack for speed and accessibility		
	Bathroom	Copper piping, stack steel				
<i>Cold water storage</i>	<i>Location</i>	<i>Materials</i>	<i>Capacity</i>	<i>Reasons and comments</i>		
Off main except for hot-water system storage	Roof space	Galvanised tank, galvanised pipes				
				<b>internal plumbing including sanitary fittings</b>	<b>2</b>	<b>3½</b>
<i>Hot water and heating installation</i>	<i>Location</i>	<i>Criteria temperature</i>	<i>Air change rate</i>	<i>Reasons and comments</i>		
Low-pressure hot water. Radiators	Generally					
Domestic solid fuel boiler	Kitchen					
				<b>heating installation</b>	<b>5</b>	<b>1</b>
<i>Electrical installation: source and fitting type</i>	<i>Location</i>	<i>Illumination level</i>	<i>Quality</i>	<i>Reasons and comments</i>		
Conduit. Ring main to 13-amp. sockets. Ceiling pendants only in kitchen, bathroom and dining room	Generally					
				<b>electrical installation</b>	<b>2</b>	<b>0½</b>

## THERMAL INSULATION

<i>Type</i>	<i>Location</i>	<i>U-value</i>	<i>Reasons and comments</i>		
Glass wool quilt	Over ceilings. Throughout		Ceilings insulated to allow free ventilation of roof space		
			<b>thermal insulation</b>		<b>9½</b>
			<b>total net cost per sq. ft.</b>	<b>54</b>	<b>5½</b>
			<b>external works (including drainage)</b>	<b>7</b>	<b>2</b>
			<b>total gross cost per sq. ft.</b>	<b>61</b>	<b>7½</b>

## TIME SCHEDULE

<i>Drawings</i>	<i>Tender date</i>	<i>Contract signed</i>	<i>Work commenced</i>	<i>Work completed</i>	<i>Type of contract</i>
6 months	March 1, 1955	March 12, 1955	March 14, 1955	September 1, 1955	RIBA without quantities

## RATIOS

Area of enclosing walls	1.66	Area of windows (incl. ext. doors)	0.62
Total floor area	1	Total floor area	1
Area of solid wall	1.04	Total roof area	1.22
Total floor area	1	Total floor area	1

Note: floor area includes store but not outdoor room.

## COST ANALYSIS

Total ground floor area of superstructure	sq. ft. 960	Net cost	£2,612
Total floor area of house	858	External works (incl. drainage)	£344
Total floor area of stone	102	Gross cost	£2,956
Total floor area of outdoor room	200	Cost per sq. ft. (floor area)	£2 14s. 5½d.

## COST COMMENTS

The reader should note that for the purpose of this analysis the area has been taken exclusive of the open air room and rear entrance covered porch but that the net cost includes the value of the roof, enclosing walls, foundations and pavings on concrete sub-floor of these portions amounting to say £120 to £150 or some 2s. 6d. per sq. ft. of floor area.

The external plumbing covers the incoming water service and connection worth probably 1s. 0d. per sq. ft. and not usually included in the net cost.

Such adjustments as these must be made if one wishes to compare this bungalow with the only other house analysis so far published (House at

West Mersea, AJ, June 30, 1955), i.e., 54s. 5½d. less 3s. 6d. giving approximately 51s. against 45s. 9d. for the other contract placed one year earlier.

Roof element: if it had been necessary, savings could perhaps have been made in the structure. The aluminium roofing was chosen partly for economy on roof timbers. The architect's details do not appear to bear this out, nor does the cost of the carpenters' work obtained from the analysis. Total roof element cost of 9s. 1d. per sq. ft. multiplied by 960 equals £436, less the specialist's work at £260, equals £176 for the roof structure.

The design and cost of the structure generally however, even allowing for the necessity of reinforcing the foundation raft has enabled the

architect to give a relatively high quality of finish and comfort.

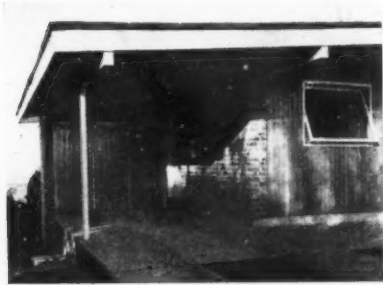
## CONTRACTORS

General contractors: George Mott & Son. Sub-contractors—Windows and external doors: Ware Joinery Works. Internal doors and sink unit: Jayanbec Joinery Ltd. Sanitary fittings: Stitson Sanitary Fittings Ltd. Fural aluminium roof (including all work above joists): Whittaker & Co. (London) Ltd. Thermoplastic and wood block floors: Hollis Bros. Ltd. Heating and hot water: E. Bentley & Co. Ironmongery: Nettlefold & Moser Ltd. Electrical services: Bland & Co. Ltd. Paints, internal: Docker Bros. Ltd. Paints, external: I.C.I. Ltd.

building illustrated

## HOUSE

in HIGH ROAD, HOCKLEY, ESSEX  
designed by STUART C. READMAN



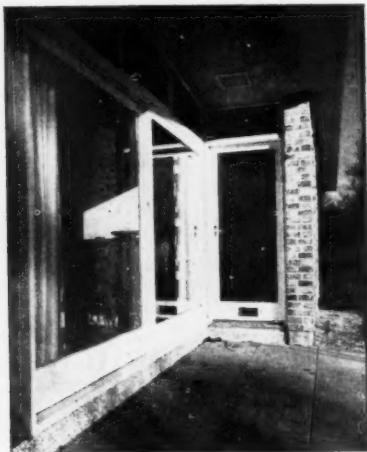
Car port, kitchen entrance and stores.

This single-storey house at Hockley is built on a site which has a main road on the south side and slopes steeply to the north. Although there is an extensive view over the River Crouch to the north, there are no opening windows on this side of the house due to the strong north winds which blow across the valley. The house was built for a contract price of £2,850.

From the south.



## building illustrated

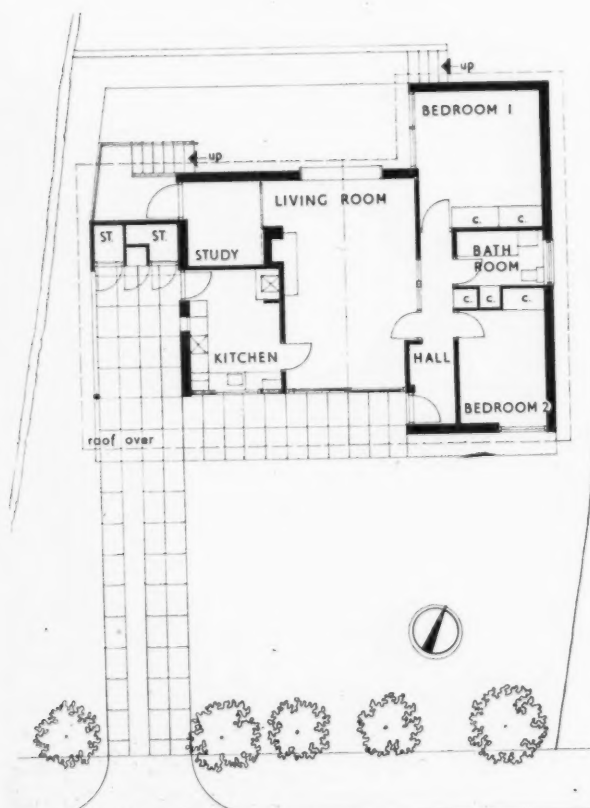


This house was designed for a family of three and was planned to gain the maximum benefit from the south and west sun. The sliding living room windows on the south side are seen above and above right. The car port at the south west corner of the house serves also as a covered way to the kitchen and fuel stores. The 6° pitch roof is finished with 3-ply bituminous felt on 2-in. compressed straw slabs,

## HOUSE

at HOCKLEY, ESSEX

designed by STUART C. READMAN



Ground floor plan [Scale:  $\frac{1}{16}'' = 1' 0''$ ]

supported by 7-in. by 2-in. joists at 2 ft. centres. Floor to ceiling heights vary from 9 ft. in the living room to 7 ft. minimum in bedrooms and bathroom. External walls are of 10½ in. cavity construction with an outer skin of stock bricks and inner skin of lightweight concrete blocks, and timber studding with 1-in. ship lap cedar boarding on bituminous felt externally and insulation board internally. Floors consist of 4-in. r.c. slab and 2-in. foamed slag concrete insulating screed, finished with thermoplastic tiles. The glazed screen, between living room and kitchen, seen below, contains built-in convactor heaters, and there is another convactor in the hall. Despite the large glazed areas and the exposed site it has not been found necessary to augment this heating by using the open fireplace in the living room. This central heating is served by a 50,000 B.T.U. anthracite-burning boiler with circulating pump; pipe runs are in ducts in the floor screed. There is an immersion heater in the water storage tank over the boiler. The heating cost averages 10s. per week. Contract price, £2,800. Cost per sq. ft. 60s., including £100 for septic tank, £200 for central heating and £100 for car port and balcony. Cost per cub. ft., 3s. 6d.



## CONTRACTORS

General contractors: Arthur J. Arnold Ltd.  
Sub-contractors—Thermoplastic flooring: Essex  
Tiling Co. Electrical: Estuary Electrics. Plastering: J. E. Ryman & Co. Felt roofing: Eastwood Ltd.

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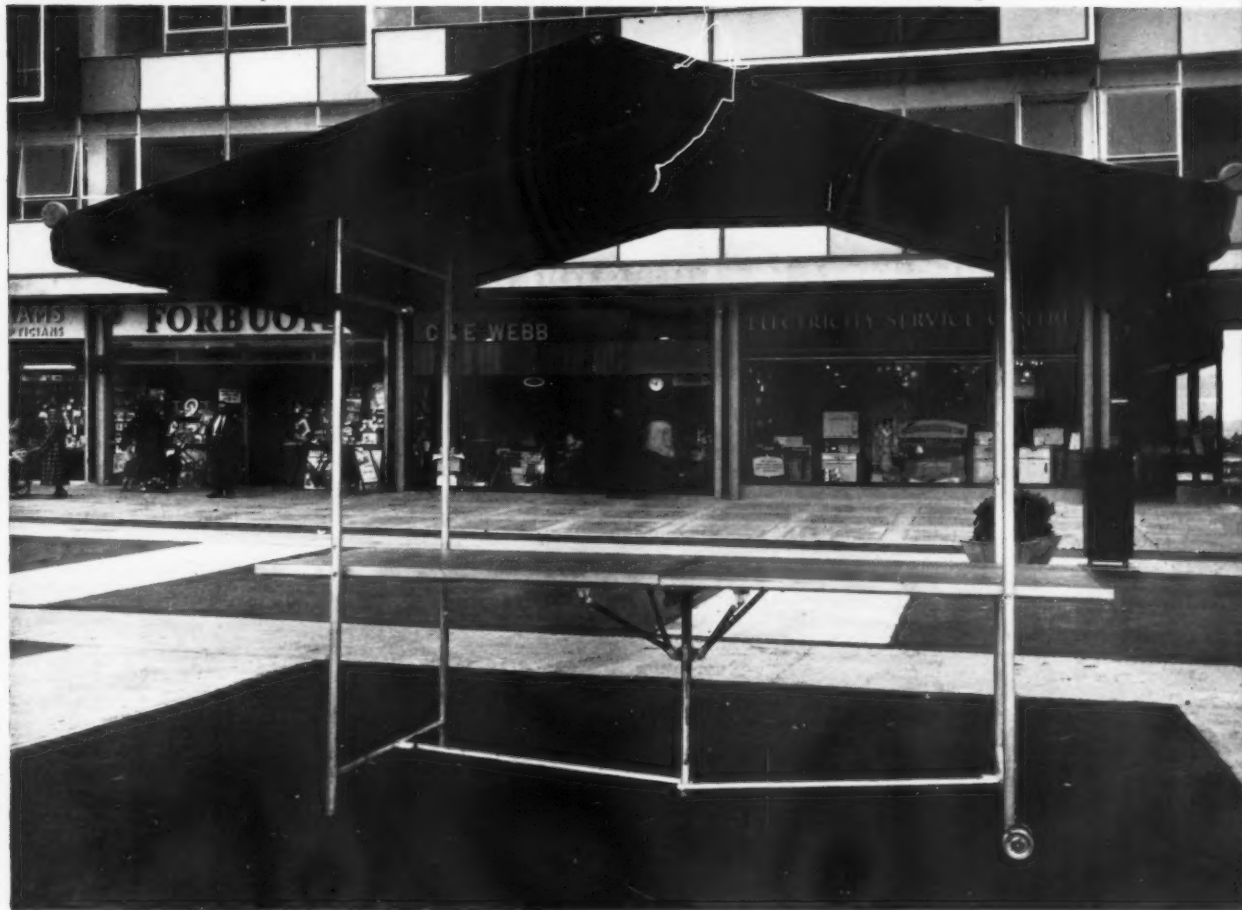


## working detail

## MISCELLANEOUS: 12

## PORTABLE MARKET STALL: HARLOW NEW TOWN

*Frederick Gibberd, architect-planner; Victor Hamnett, executive architect; Harold Titkin, architect-in-charge*



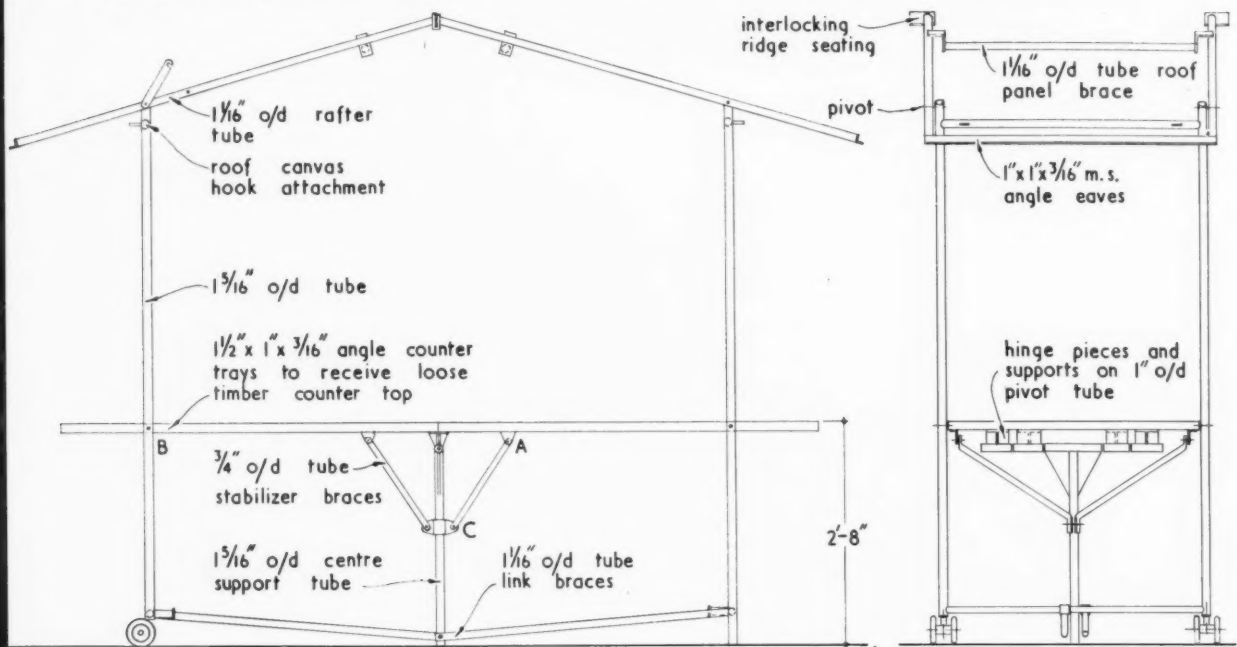
As a result of research the architects found that the market stalls previously available, being made in a dozen or more pieces, required a lorry and six men and took an average of 30 minutes each to erect. The design illustrated here, which they developed with the manufacturer, can be wheeled out of its store and takes two men an average of 2½ minutes to erect. For an order of 50 stalls the cost per stall (excluding the name board) was £55, to which must be added an average figure of £7 for the canvas which, being of different colours, varies in price. It is calculated that the saving in labour will offset the extra cost in about one year. The structure of the stand is m.s. tube primed, rust-proofed and painted with aluminium paint; the three steel tubes which hold the canvas are galvanised. The counter is made of ¾-in. resin-bonded waterproofed ply framed in hardwood and screwed to the structure.

working detail

MISCELLANEOUS: 12

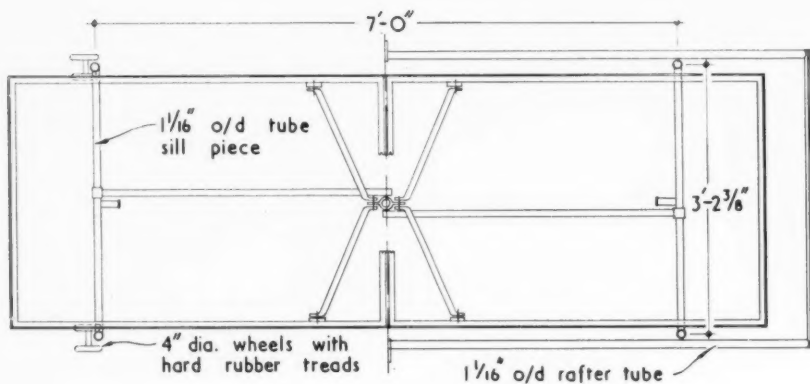
PORTABLE MARKET STALL: HARLOW NEW TOWN

Frederick Gibberd, architect-planner ; Victor Hamnett, executive architect ; Harold Titkin, architect-in-charge

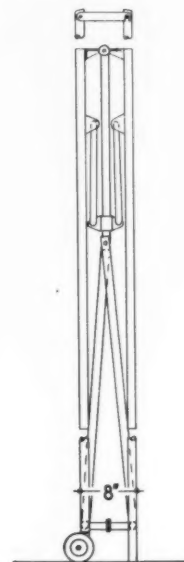


FRONT ELEVATION.  
stall open

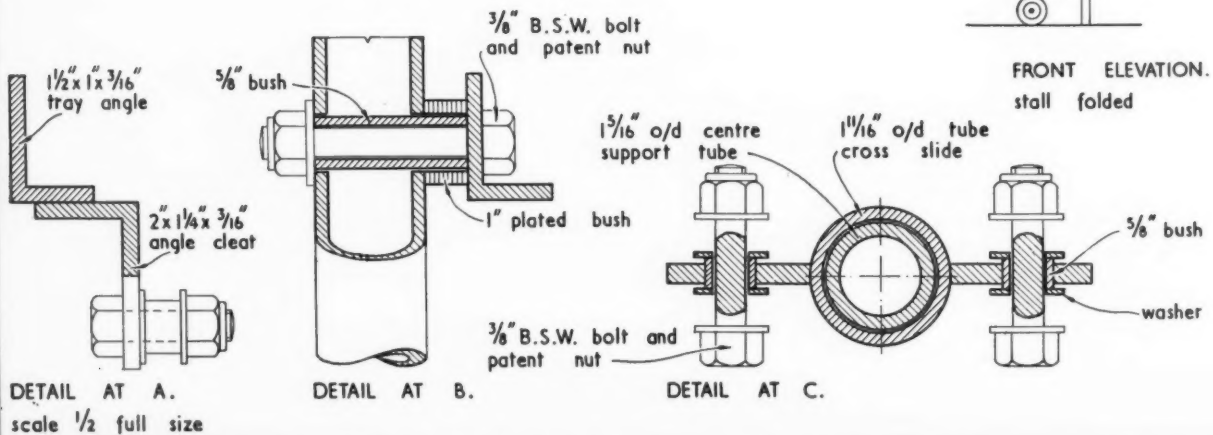
END ELEVATION.



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



FRONT ELEVATION.  
stall folded



**working detail**

**FURNITURE AND FITTINGS: 58**

POST OFFICE COUNTER: LONDON AIRPORT

*Frederick Gibberd, architect*



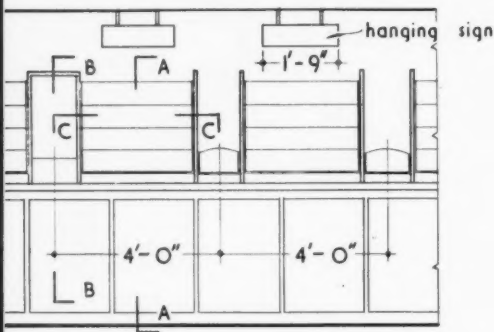
*The use of glass louvers in place of the more usual grilles was by agreement with the Post Office authorities. The plastic-sheathed rods which support the counter signs pass through the suspended ceiling and are secured to joists above.*

working detail

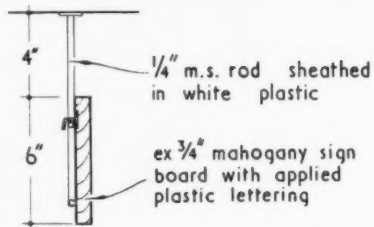
FURNITURE AND FITTINGS: 58

POST OFFICE COUNTER: LONDON AIRPORT

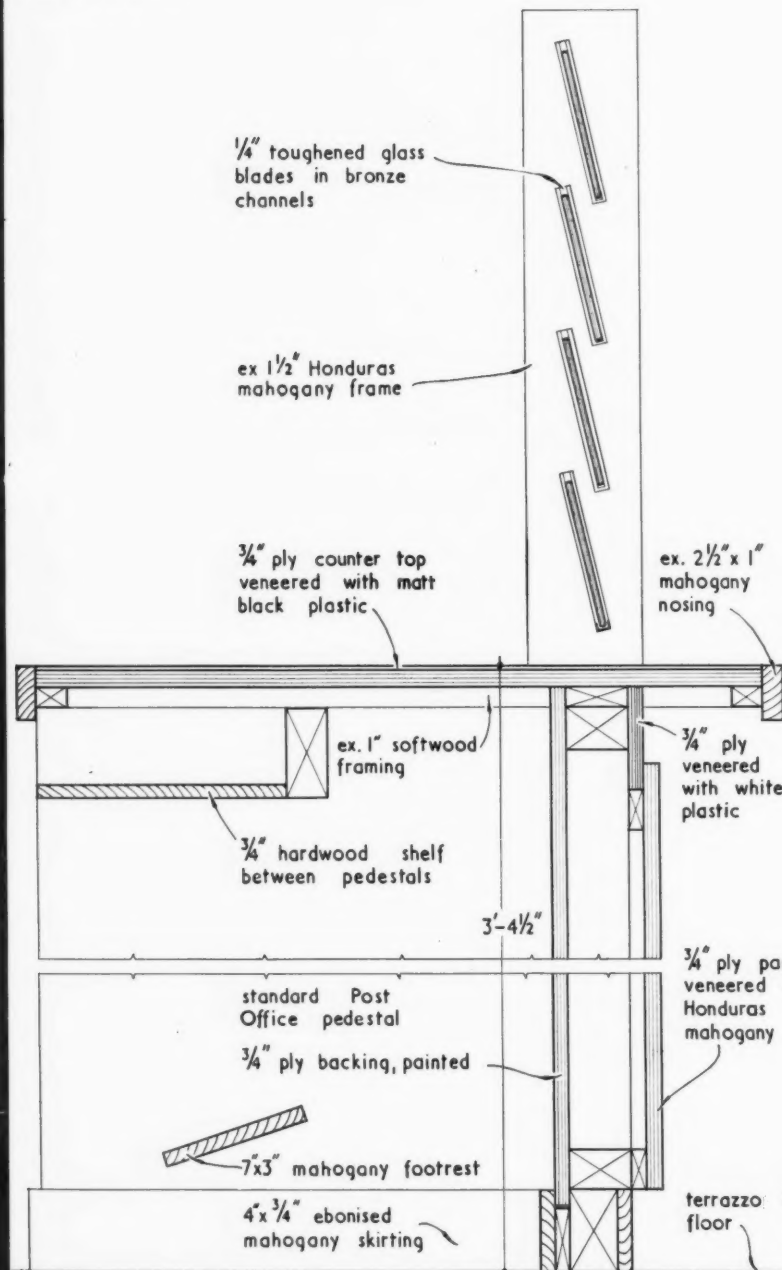
Frederick Gibberd, architect



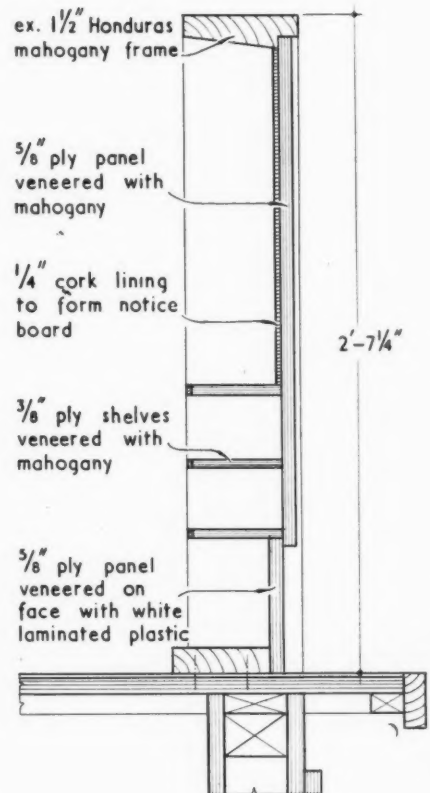
FRONT ELEVATION OF COUNTER.  
scale  $\frac{1}{4}" = 1'-0"$



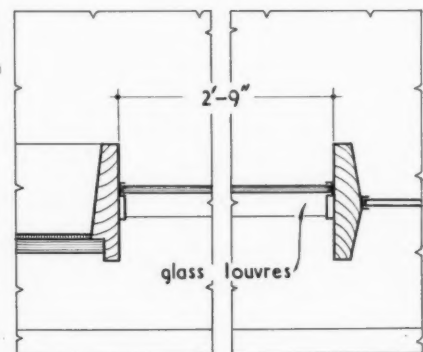
SECTION THRO' HANGING SIGN.  
scale  $\frac{1}{2}" = 1'-0"$



SECTION A-A.  
scale  $\frac{1}{2}" = 1'-0"$



SECTION B-B.  
scale  $\frac{1}{2}" = 1'-0"$



PLAN AT C-C.  
scale  $\frac{1}{2}" = 1'-0"$







St. Joseph's R.C. One Form Entry and Junior School,  
Southdene, Kirkby, Liverpool  
Architects: L. A. G. Proulx & Son, A.R.C.A.  
Contractors: Frederick Clark & Son, Liverpool

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## NEWS IN BRIEF

The firm of Raglan Squire and Partners has been awarded the Deuxième Médaille for its model of the assembly hall of the new university at Rangoon, which was exhibited in the Festival International d'Architecture et d'Art Monumental of the Société des Artistes Français, at the Paris Salon.

While 68, Portland Place, is being rebuilt the address of the Architects' Registration Council will be at 78, Wimpole Street, W.1. (Tel.: Welbeck 2915/6.)

It was announced recently in Parliament that the Ministry of Housing and Local Government wanted to discuss with local authority associations the possibility of providing properly-serviced caravan sites in areas where there was still a severe housing shortage.

When Sir Thomas Bennett spoke recently to the TPI he criticised the inference in the New Towns Act of 1946 that the towns would eventually be controlled by the local authority. "There are many signs," he said, "that this suggestion has many disabilities. It is clearly undesirable for people governed by party politics to have control of the rents of practically every inhabitant. It is undesirable for those who wish to obtain votes to be subjected to the temptation of offering special concessions to the industrial group or any group and it is extremely doubtful whether any local authority governing a town of 55,000 people can be expected to have officers of a sufficient calibre to manage property worth £30 m. or £40 m., and to deal with all the complicated questions of ownership and

management which property on this scale necessarily involves.

"It becomes more and more clear that whatever may be the future method of ownership and control, it must be of an independent character, must be able to command a high standard of management and it must have due regard to both the magnitude of the investment and the importance of good management on the lives of the population. There is no other instance in this country where the Government has owned so high a proportion of the property, and, of necessity, the problems bring to light many new factors which will require considerable knowledge and judgment before it will be possible to find a balanced and satisfactory answer!"

## LAW REPORT

The Courts have invariably regarded with disfavour the method of determining remuneration on a percentage basis. On the other hand it was recognised by the Court of Appeal in the recent case of *Duke of Grafton v. S.S. for Air*, that the practice of remunerating surveyors on a percentage basis, where there was an award or a settlement of a claim, had become well settled and established.

The question that arose in this case was as to the basis of remuneration of surveyors who had been employed to make a valuation and prepare a claim for an owner whose lands were being compulsorily acquired. All the work had been done, and the case had been prepared for arbitration. When the acquiring authority withdrew its notice to treat and abandoned its proposal to acquire the property.

In those circumstances the claimant be-

came entitled to recover their loss and expenses occasioned by the giving of notice to treat and its withdrawal. In assessing the item for surveyor's fees the Lands Tribunal had proceeded in effect on the basis that not only had the claim been determined but that the just amount of the compensation claimed had been awarded. The Tribunal accordingly assessed the surveyor's fees on that basis and awarded fees on the appropriate scale, which was scale 5.

The Court of Appeal, however, pointed out that scale could only apply where the matter was concluded, by an award or a settlement, which was not the case here. Moreover, the probabilities were that had this case gone to arbitration the full amount claimed as compensation may not have been allowed.

The Lands Tribunal had erred accordingly in regarding the Scale as decisive in fixing the surveyor's remuneration. At the same time, it was permissible in such circumstances to have regard to the Scale, as a guide, but only as a guide. The Court of Appeal accordingly ordered the remittal of the case to the Lands Tribunal for reconsideration of the amount to be allowed as reasonable remuneration for the surveyor.

It is perhaps not to be overlooked that in this case there had been no agreement as between the claimants and their surveyors as to the amount of the latter's remuneration. Had there been such an agreement, the problem would have assumed an entirely different character, and this factor may have influenced the Court in arriving at a different decision.

Research students will now be excused from paying national insurance contributions. The Minister of Pensions and National Insurance, Mr. Boyd-Carpenter, has decided that they shall be treated as being in full-time education.



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The Plywood Manufacturers Association of British Columbia announces the opening of a technical information office in London.

MR. A. C. KENNY professional engineer from Canada is in charge. He will supply, on request, engineering data and technical assistance to architects, engineers and to the building and construction industries.

Address: Plywood Manufacturers Association of British Columbia, Office of the Canadian Commercial Counsellor (Timber) Canada House, London S.W. 1.

News in Brief *continued*

The Institute of Industrial Administration Council (British Institute of Management) have unanimously agreed that the James Bowie Medal for 1955 be awarded to E. F. L. Brech, who was one of last year's A.J. Guest Editors. Mr. Brech is at present a member of the council and a past-chairman of the London Branch. He has written a number of books and papers including "Management: Its Nature and Significance," "The Principles and Practice of Management," and is joint author of "The Making of Scientific Management" and "An introduction to Foremanship." He has given numerous lectures on aspects of management, was the founder-chairman of the Association of Supervisors' Discussion Groups, and was made a corporate member of the Institute of Personnel Management in reward for his contributions to development in that field. The James Bowie Medal is periodically awarded for meritorious services in the advancement of management education and professional management standards.

The competition for the National Federation Trophy organised by the LMBA Golfing Society in connection with the summer meeting was held at the Royal Mid-Surrey Golf Club, Richmond. The winner was F. N. Carmody, of London, with a gross score of 91, less handicap 23, net 68. Mr. Carmody also received the special prize awarded to the winner of the Trophy by the LMBA, a silver cigarette box, and a silver spoon presented by the LMBA Golfing Society as a reminder of the fact that the 1956 meeting took place in London. There was a tie for the second place, three players, J. E. Black (Midland), C. G. Drewitt (Southern) and J. H. Storey (South Western), returning net scores of 70. Mr. Storey was

declared the runner-up as his card showed the best score for the last six holes. He received the second prize, a silver entrée dish, again with a silver spoon presented by the LMBA Golfing Society. The winner of the president's prize for the best scratch score was Sir Richard Costain, with a score of 76. He received a set of silver condiment dishes and the LMBA Golfing Society's silver spoon. The putting competition was won by F. A. Kelly (Northern), with a score of 30. The prizes were presented by the president of the National Federation at the LMBA dinner in Grosvenor House.

Estimates have already been approved by the LCC for a total of £17,000 for demolition and restoration work at Holland House, Kensington. Additional works to foundations and for underpinning the arcades, etc., have been found necessary as the work has progressed. Additional costs have also been incurred due to an increase in wages and other unforeseen causes. The total amount approved has been spent and there remains some work to complete before the retained portions of Holland House can be regarded as safe and suitable for public enjoyment. It is estimated that an additional £3,220 will be required for the restoration of the building, and the Committee submit a supplemental estimate accordingly.

## Announcements

### PROFESSIONAL

Hugh McMaster, A.R.I.B.A., has been appointed Regional Architect to the Manchester Regional Hospital Board, as from October, 1956. For the past three years he has been Deputy Regional Architect with the Newcastle Regional Hospital Board.

The Georgian Group's new address is: 2, Chester Street, London, S.W.1.

Duncan Thomson, L.R.I.B.A., announces his change of address to Midland Bank Chambers, 20a, Hill Road, Wimbledon, S.W.19, telephone Wimbledon 3437, and will be pleased to receive trade catalogues, etc.

C. M. H. Lea, A.R.I.B.A., 134, High Street, Brierley Hill, Staffs., will be pleased to receive trade catalogues, etc.

H. J. Brown and L. C. Moulin, DIPLARCH., A/A.R.I.B.A. (in association with A. Heslop Antrum, DIPLARCH., A.R.I.B.A.), have moved to: 42, Russell Square, W.C.1. Telephone Langham 7065/6.

### TRADE

Goodenough Pumps Ltd. are opening a new depot at 129a, Guide Lane, Audenshaw, Lancs., telephone Ashton 3875. This will serve North Western England, and is to open on August 1.

Lumenated Ceilings Ltd. have acquired larger Scottish sales offices at 10, Bothwell Street, Glasgow, C.2, telephone Glasgow Central 6571-2.

Aero Research Ltd., Duxford, Cambridge, have changed their telephone No. to Sawston 2121—Telex No. 10—101.

Northern Aluminium Co. Ltd. announce that Mr. A. K. Jordan, Assistant General Sales Manager, has left the company to take up the post of General Sales Manager with Aluminium Co. of Canada Ltd. (Alcan). He is succeeded by Mr. J. H. Mayes, who since 1946 has been responsible for Northern's Sales Development, Castings and Forgings Sales and, latterly, Export Sales departments.

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support you may well miss . . .  
Yours faithfully.

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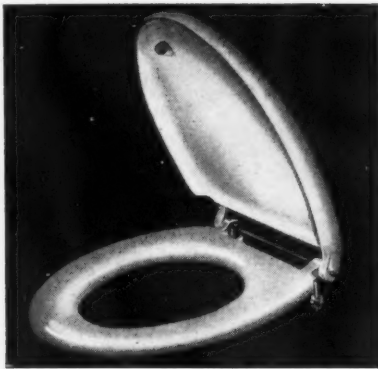


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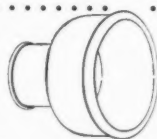
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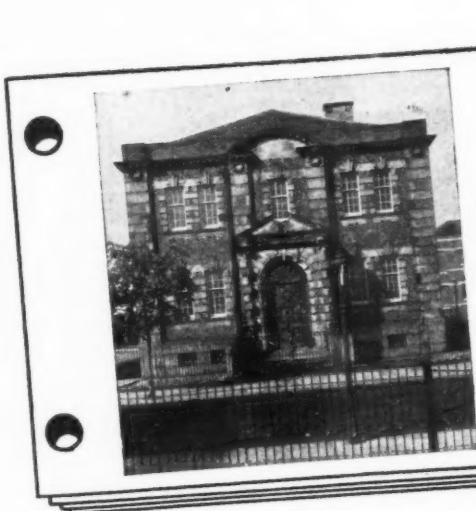
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Siscomatte has been formulated to produce a velvet-smooth surface which is simple to keep clean, tough enough to be scrubbed and to give maximum resistance to detergents.

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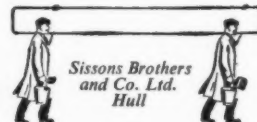
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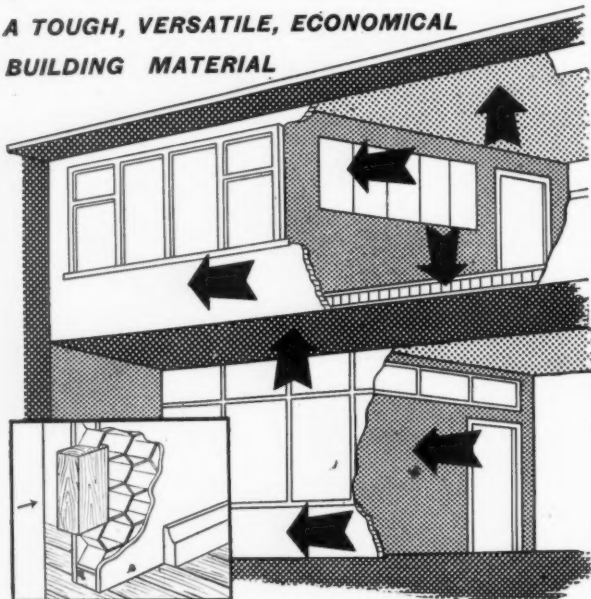
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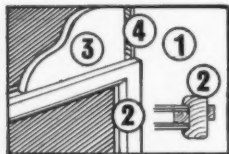
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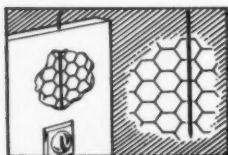
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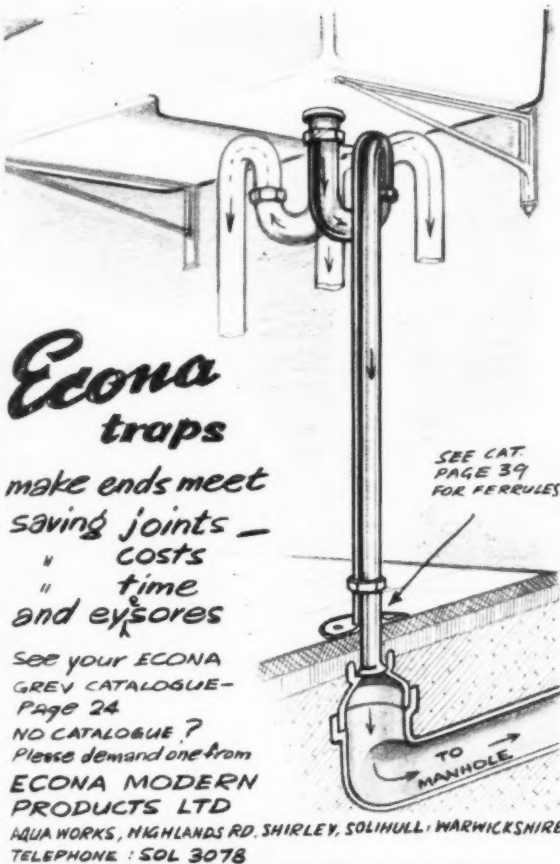
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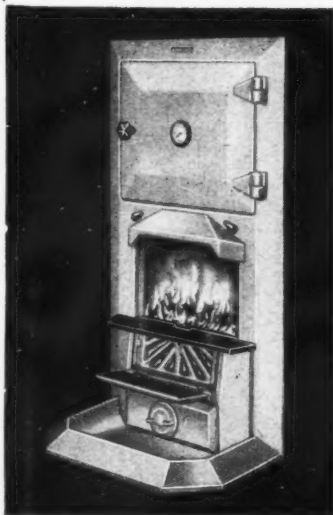
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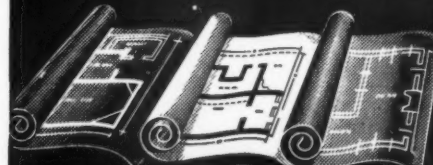
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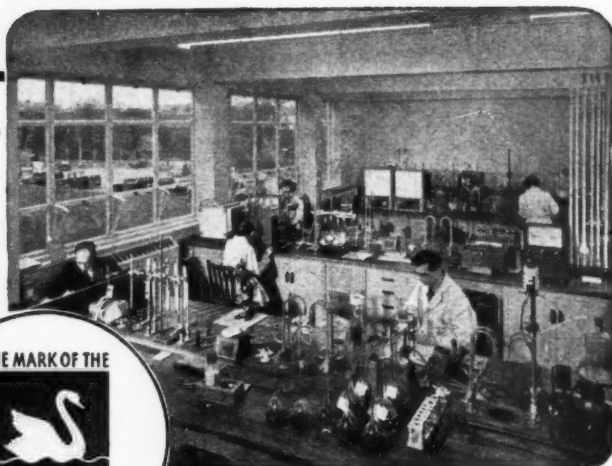
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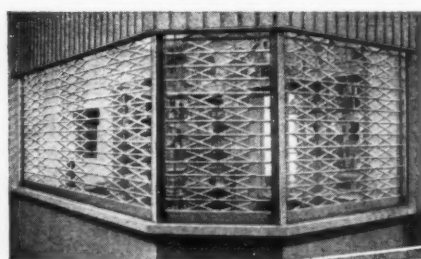
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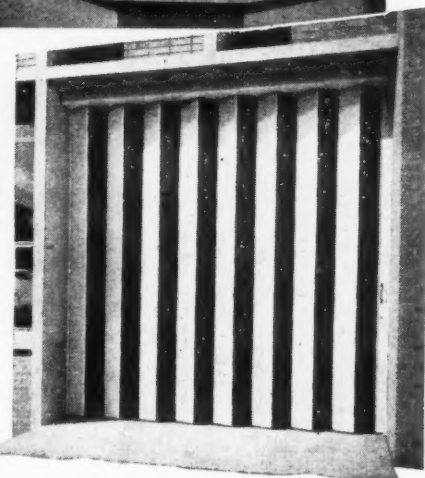
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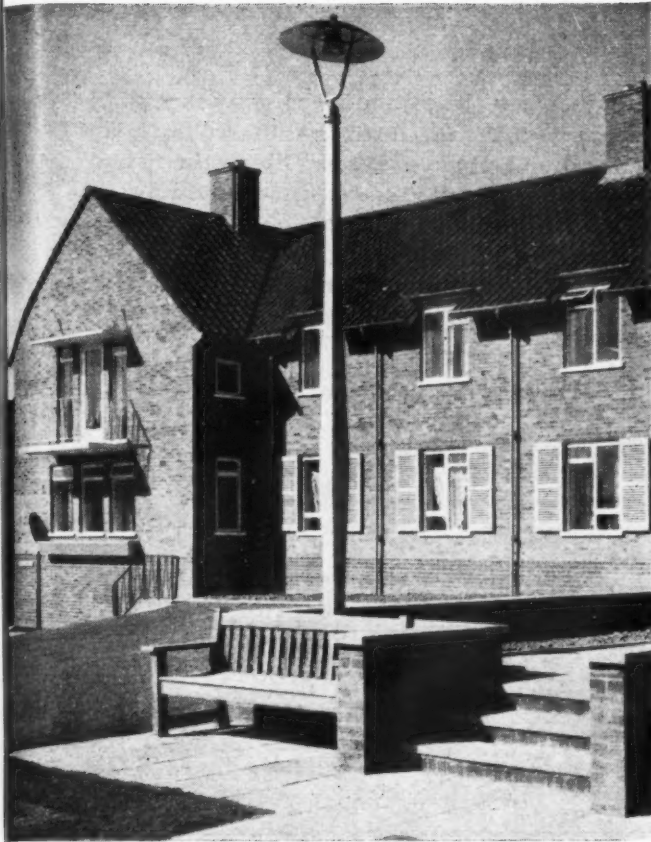
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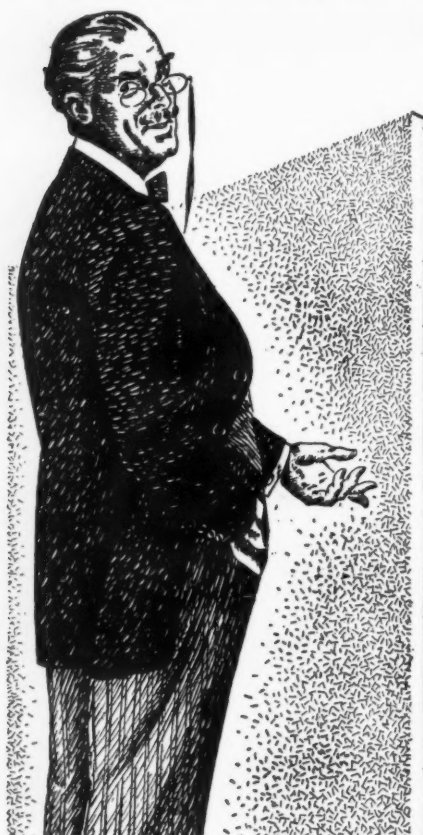
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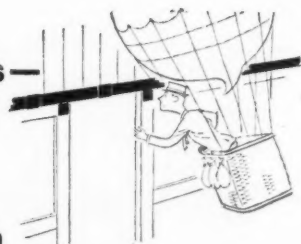
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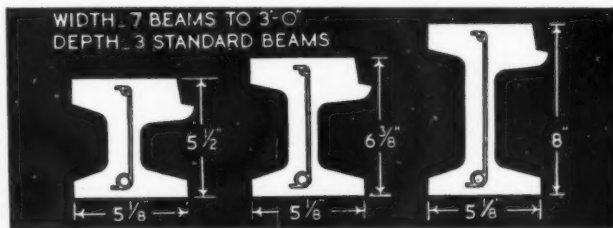
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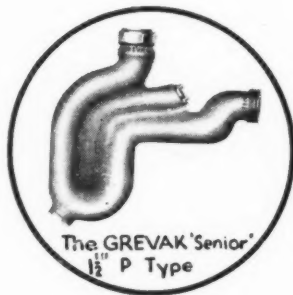


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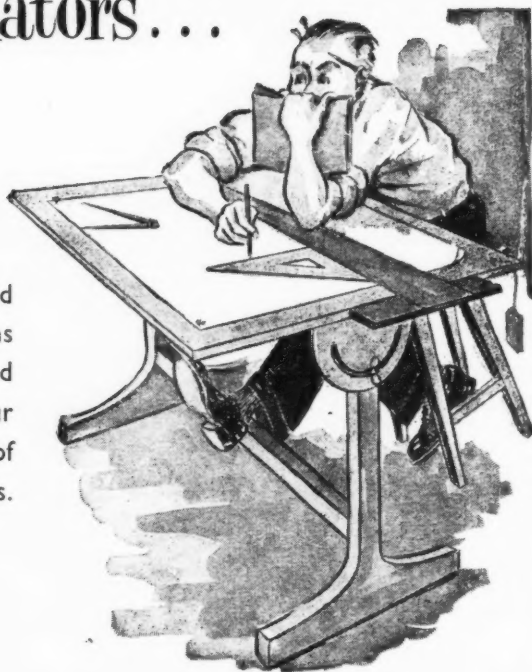
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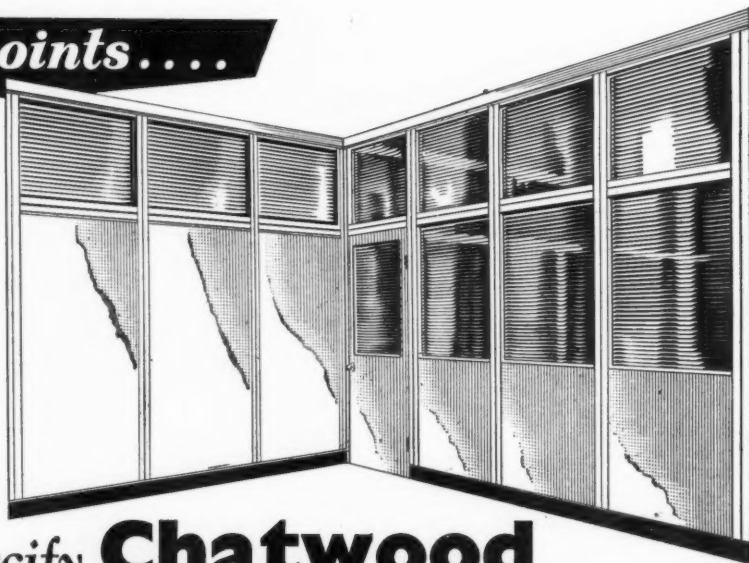
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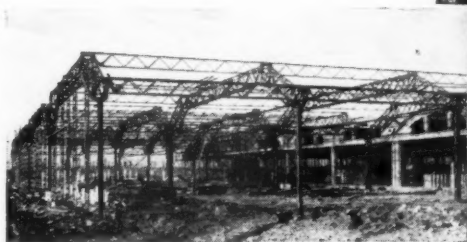
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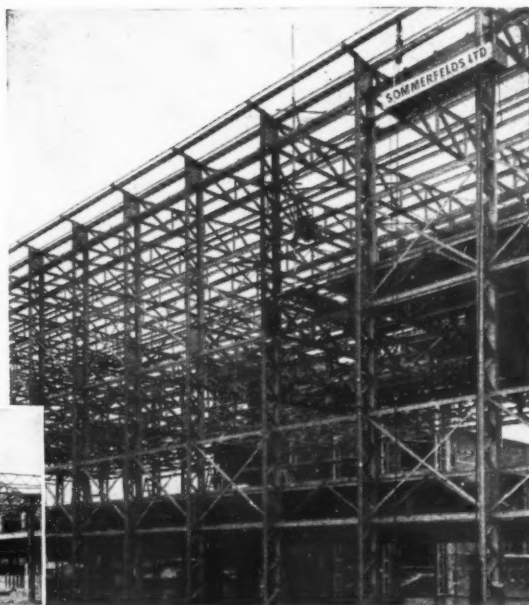
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Architect-Planner: Frederick Gibberd, F.R.I.B.A.,  
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B.Sc., A.R.I.B.A.



Architect: Messrs. J. Douglas Mathews & Partners.

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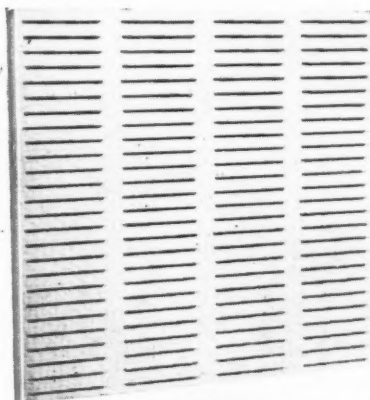
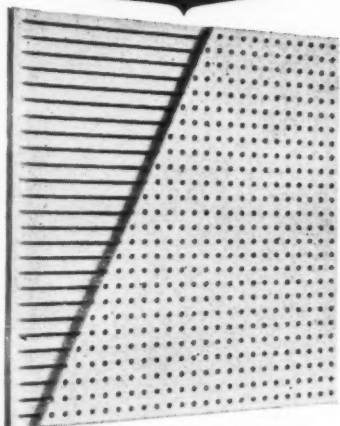
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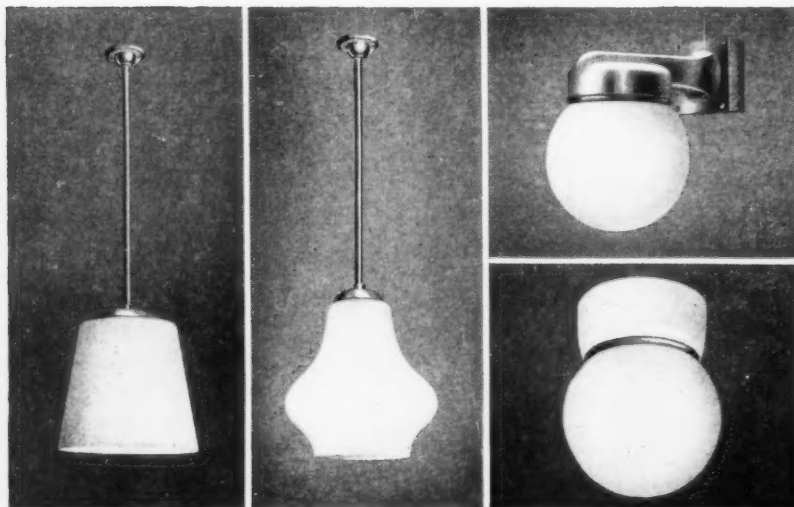
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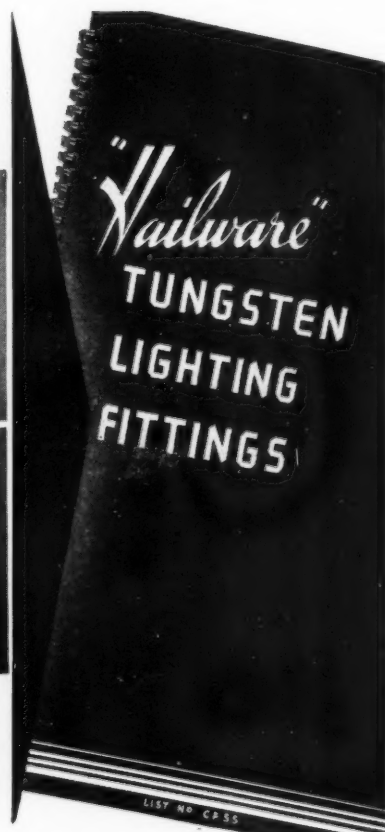
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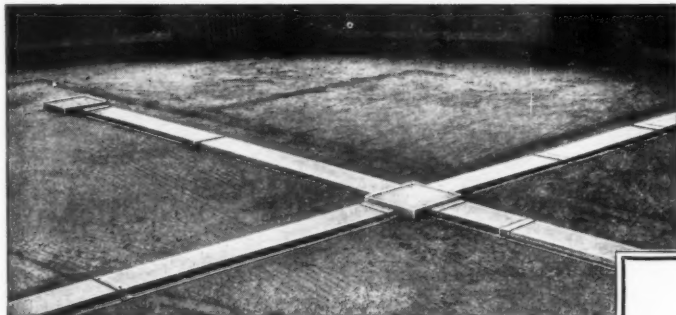
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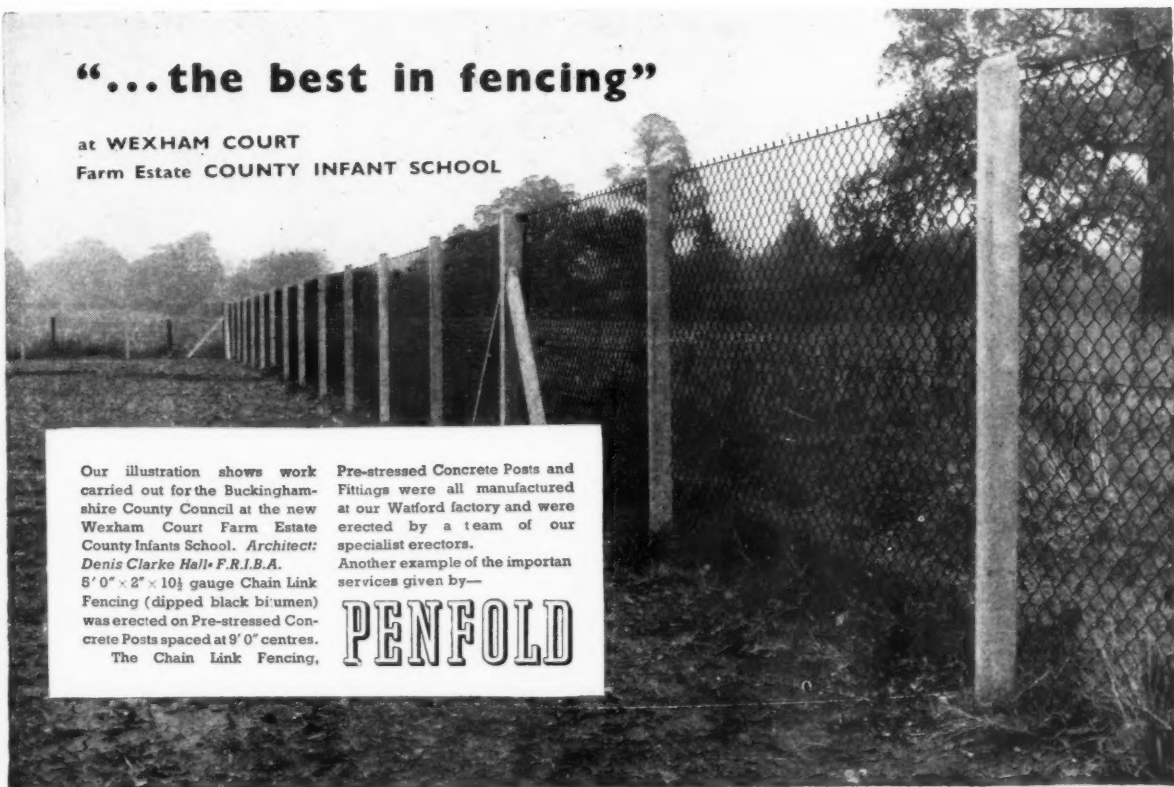
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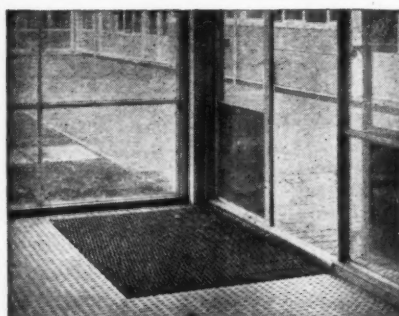
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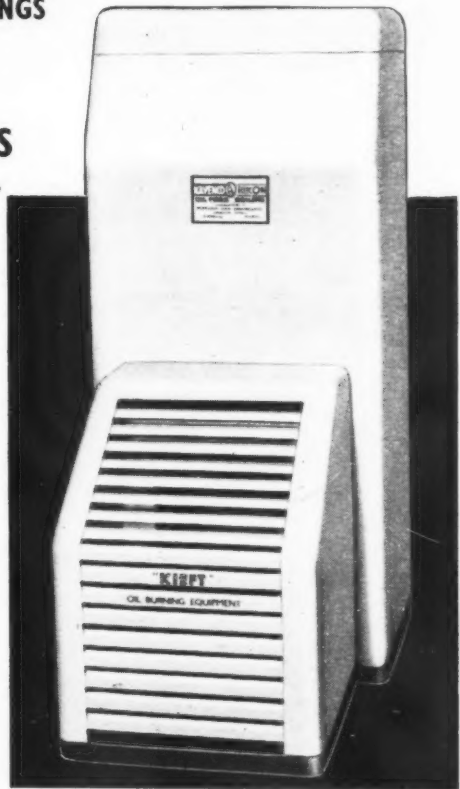
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1685

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G. N. C. SWIFT,

Clerk of the County Council.

1695

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## APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applications are invited for the above-mentioned appointment at a salary in accordance with A.P.T. III. The National Scheme of Conditions of Service and the Local Government Superannuation Act will apply. Housing accommodation available if required.

Preference will be given to applicants who have had experience in municipal housing.

Applications stating age, qualifications and experience, together with the names of two referees to be received by the Clerk of the Council, Town Hall, Market Street, Newton-le-Willows, Lancashire, not later than 28th July, 1956. 1678

## WESTMORLAND COUNTY COUNCIL

Applications are invited for the post of COUNTY ARCHITECT and COUNTY PLANNING OFFICER. The salary scale is £1,735 × £55—£1,955, the starting salary to be according to experience and qualifications. The appointment is subject to the Conditions of Service of the Negotiating Committee for Chief Officers. The post will include duties on behalf of the Lake District Planning Board. Full particulars may be obtained from me and applications on the official form must reach me by 27th July, 1956.

K. S. HIMSWORTH,  
Clerk of the Council.

County Hall, Kendal. 1708

## HATFIELD RURAL DISTRICT COUNCIL ARCHITECTS' DEPARTMENT

## APPOINTMENT OF

JUNIOR ARCHITECTURAL ASSISTANT  
Applications are invited for the appointment of Junior Architectural Assistant (A.P.T. Grade I, £530 × £20—£610) in the Department of the Architect to the Council.

Application giving age, details of training experience, etc., and copies of two recent testimonials or the names of two referees to be sent to Mr. J. H. Parker, A.R.I.B.A., 82, Great North Road, Hatfield, not later than 27th July, 1956.

E. F. CULL,

Clerk to the Council.

5th July, 1956. 1677

## COUNTY LONDONDERRY EDUCATION COMMITTEE

## ARCHITECTURAL ASSISTANT

Applications are invited for the above position in the Committee's Offices in Coleraine. Applicants must have passed the Intermediate R.I.B.A. Examination. Salary within the range £443—£725 according to qualifications and experience.

Application forms and conditions of appointment may be obtained from the Director of Education, Education Offices, New Row, Coleraine, and completed forms should be returned not later than 26th July, 1956. 1716

## MALVERN URBAN DISTRICT COUNCIL APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT

Applications are invited for the appointment of a Junior Architectural Assistant in the Department of the Surveyor and Water Engineer, at a salary in accordance with Grade I of the A.P. & T. Division of the National Scales (£530 to £610). Candidates must have had experience of Architectural Draughtsmanship and Building Construction. Elementary knowledge of site measurements and quantities will be an advantage.

The appointment will be subject to the provision of the Local Government Superannuation Act, 1937, and to the National Joint Council Scheme of Conditions of Service.

Applications, stating age, qualifications and experience, together with the names of two persons to whom reference can be made, must be delivered to the undersigned not later than July 30th, 1956.

Housing accommodation will be provided if required by the successful applicant.

J. HULMAN,

Clerk of the Council.

The Council House, Malvern. 1705

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(b) Applicants should be Registered Architects, and preference will be given to Members of the R.I.B.A. They should have experience in the design and construction of public buildings, housing and modern schools, the preparation of specifications and of site supervision.

The appointments are subject to the Local Government Superannuation Acts, 1937 to 1953, the National Scheme of Conditions of Service, a satisfactory medical examination and termination by one month's notice on either side.

Applications, stating age, present salary, present and previous appointments, details of training and experience, together with one recent testimonial and the names and addresses of two referees, should be submitted to the undersigned, not later than 1st August, 1956.

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Clerk of the County Council.

Shire Hall, Cambridge. 1743

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## COUNTY BOROUGH OF BURTON UPON TRENT BOROUGH ARCHITECTS' DEPARTMENT

Applications are invited for the following appointments:—

(a) ASSISTANT QUANTITY SURVEYOR in Grade A.P.T. IV (£710—£885).

(b) ARCHITECTURAL ASSISTANT in Grade A.P.T. II (£595—£675).

Commencing salary in accordance with qualifications and experience. Appointments subject to the provisions of the Local Government Superannuation Acts, 1937-1953; to satisfactory medical examination, and to determination by one month's written notice on either side.

Housing accommodation, at a rent, will be provided for the successful candidates if required.

Applications giving age, qualifications, full details of experience and names of two referees, should be submitted to the Borough Architect, Town Hall, Burton upon Trent, not later than 31st July, 1956.

H. BAILEY CHAPMAN,  
Town Clerk.

Town Hall, Burton upon Trent. 1740

ARCHITECTURAL ASSISTANT required by N.C.B.'s Production Dept., in London. Salary (superannuable) according to qualifications and experience within inclusive scale (Grade 1) £667—£804 male (exceptionally to £962). At least three years' experience in an architectural office and an Intermediate Examination of R.I.B.A. essential; ability to prepare sketch plans and working drawings from preliminary sketches desirable; some experience of industrial buildings an advantage.

Write, with particulars of age, education, qualifications and experience, to National Coal Board, Staff Dept., Hobart House, London, S.W.1, marking envelope SS/342, before 16th August, 1956. 1731

## COUNTY BOROUGH OF GREAT YARMOUTH GENERAL ASSISTANT ARCHITECT

Applications are invited for the appointment of a General Assistant Architect in the Borough Engineer's Department, at a salary in accordance with A.P.T. III (£540—£765) of the National Scale of Salaries. Housing accommodation will be offered by the Council if required.

The post is subject to one month's notice on either side, to the Local Government Superannuation Acts, and to the passing of a medical examination.

Applicants should have passed the Intermediate Examination of the R.I.B.A.

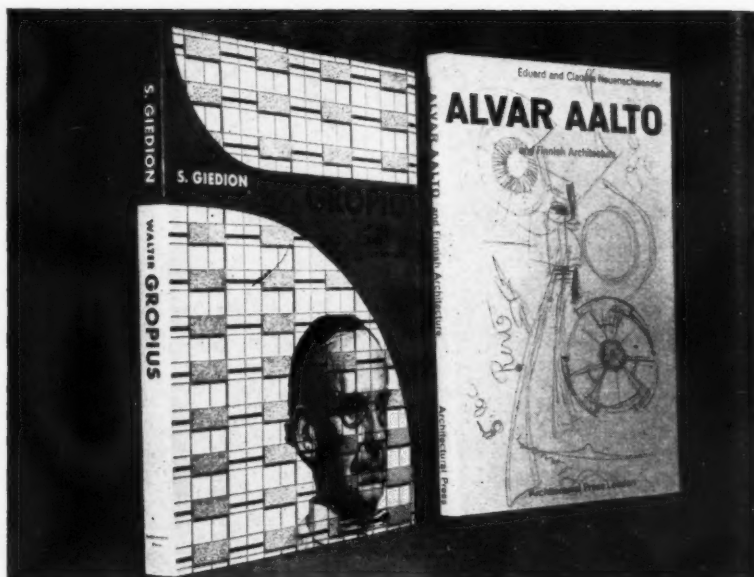
Forms of application may be obtained from the Borough Engineer, Town Hall.

Applications endorsed "General Assistant Architect" must reach me not later than Wednesday, 1st August, 1956.

FARRA CONWAY,  
Town Clerk.

Town Hall, Great Yarmouth. 1754

## BOOKS ABOUT TWO GREAT ARCHITECTS



THE MOST IMPORTANT BOOK yet written about one of the greatest living architects, by one of the most widely-read writers on architects and architecture. The author of *Space, Time and Architecture* pays tribute to the creative genius of a world-renowned pioneer of the modern movement, his friend Walter Gropius—who, in January, 1954, was awarded the first São Paulo Prize for Architecture in recognition of his work as an innovator and educator during the past half-century. Dr. S. Giedion, at the instigation of the Matarazzo Foundation of São Paulo (donor of the prize) writes a detailed, authoritative study of Gropius' development as designer, teacher and leader and illustrates his account with over 300 photographs and plans of buildings and projects for which Gropius has been responsible, either alone or—practising one of the principles he has so vigorously preached for many years—as a leading member of a creative team of designers.

Chapters on Gropius' background, heritage and personality are followed by appreciations from two of his greatest contemporaries, Mies van der Rohe and Le Corbusier. The 11 chapters on his life and work include Gropius and the Bauhaus, Buildings for Education, Buildings for Industry, the Modern Theatre, Prefabricated Houses, Development of the Slab Apartment Block, the Changing Structure of the City. Then follow over 140 pages of illustrations of Gropius' work, by far the most comprehensive collection ever published. The book ends with a complete list of Gropius' works, bibliographies of all his books and other writings, and of books and critical articles about him and his work: and an index. Size 10½ ins. by 7½ ins. 248 pages with over 300 line and halftone illustrations, and a full list of Gropius' works and projects, bibliographies of works by and about Gropius. Price 42s. net, postage 1s. 5d.

THIS WORK by Eduard and Claudia Neuenschwander gives an insight into a frontier of Western civilization where some of the most interesting works of the modern movement have been created, and where today an entirely new architectural generation, inspired by Alvar Aalto, receives professional training and stimulation probably unequalled elsewhere. First place in Finnish society belongs not to the manager or the politician but to the intellectual and the creative genius. And the architect shaping the environment and many of the accessories of modern living is held in particularly high esteem. Without many words, through careful choice of photographs, sketches and detailed plans, the authors clearly show how Aalto's creative power impresses itself on the landscape and way of life of Finland, and how this creative power organically evolves from the country's peculiar regional characteristics.

Eduard Neuenschwander worked in Alvar Aalto's office for three decisive years, decisive because during these years Aalto became absorbed with the design of large-scale projects. Aalto had, of course, worked on large-scale projects before: but now realization immediately followed the drafting stage. Aalto almost deliberately destroyed his sketches and plans. Even photographs of his major works are extremely rare. This book—possible only because Neuenschwander, in daily working contact with Aalto, succeeded in collecting and preserving original material—shows the great works and projects completed from 1950 to 1952 as well as numerous earlier buildings, and is thus a unique document and a standard work for every architect. Text and captions are printed in English, French and German simultaneously. Size 10½ ins. by 7½ ins., 192 pages with approximately 300 photographs, plans and detailed layouts. Price 50s. net, postage 1s. 3d.

### WALTER GROPIUS: WORK AND TEAM- WORK

by Dr. S. Giedion

### ALVAR AALTO AND FINNISH ARCHITECTURE

by E. and C. Neuenschwander

THE ARCHITECTURAL PRESS, 9-13, QUEEN ANNE'S GATE, LONDON, SW1

# WEST LOTHIAN COUNTY COUNCIL APPOINTMENT OF DEPUTY COUNTY PLANNING OFFICER

Applications are invited for the appointment of Deputy County Planning Officer for the County of West Lothian. Salary £800 per annum by £35 per annum to £940 per annum. Applicants should possess an appropriate planning qualification preferably with architectural experience. Applications stating age, qualifications and experience, accompanied by copies of three recent testimonials, should be lodged with the undersigned not later than 25th July, 1956.

JOHN CALDER,  
County Clerk.

County Buildings,  
Linthgow,  
9th July, 1956. 1733

# CARSHALTON URBAN DISTRICT COUNCIL (Population 63,000)

## TWO ASSISTANTS, ARCHITECTURAL SECTION OF ENGINEER AND SURVEYOR'S DEPARTMENT

Must hold Final Examination Certificate of the R.I.B.A. and be Registered Architects. Must also be competent in design and construction and have had a full and varied practical experience. Salary within A.P.T. Grade IV plus London weighting (£740-£915).

Applications on forms obtainable from the undersigned must be returned with the names of three referees not later than Monday, 13th August, 1956. Canvassing will disqualify.

C. H. DURRANT,  
Clerk of the Council.

Council Offices,  
The Grove,  
Carshalton, Surrey. 1718

# BOROUGH OF CASTLEFORD

## QUANTITY SURVEYING ASSISTANT

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. IV.

Applicants should hold a recognised professional qualification and should have had experience in the taking off and preparation of bills of quantities for housing and other building work. Experience in the preparation of estimates for such works would also be of advantage.

The appointment is superannuable and the successful applicant will be required to pass satisfactorily a medical examination.

If required, housing accommodation will be provided for a successful married applicant. Forms of application may be obtained from the undersigned and must be returned not later than the 4th August, 1956.

Canvassing, either directly or indirectly, will disqualify.

B. HUTCHINSON,  
Town Clerk.

Town Hall,  
Castleford. 1721

# URBAN DISTRICT COUNCIL OF BASILDON ARCHITECTURAL ASSISTANT

Grade A.P.T. II (£595-£675 p.a.)

Applications are invited for the above established post in the Engineer and Surveyor's Department.

Commencing salary according to experience and qualifications. Intermediate R.I.B.A. or equivalent desired. Housing considered.

The Urban District has a population of approximately 59,000, covers 27,000 acres and includes the New Town area and two Townships designated as Expanded Towns. Rapid development will provide an increasing variety of interesting work.

Full particulars and application forms from and returnable to Mr. S. A. Wadsworth, A.M.I.C.E., A.M.I.Mun.E., Council Offices, High Street, Billericay, Essex. Closing date 31st July 1956. 1722

# BOROUGH OF LUTON

Tenders invited for Electrical Installations at New Bedford Road C.S.T. School.

Documents from Borough Architect, Town Hall, Luton, on payment of £2 ss. deposit, returnable after receipt of a *bona fide* tender not subsequently withdrawn. Cheques payable "Luton Corporation." Tenders to Town Clerk, Town Hall, Luton, by Noon on 8th August, 1956. 1736

# URBAN DISTRICT COUNCIL OF HARLOW APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applications are invited for the appointment of Architectural Assistant in the Department of the Engineer and Surveyor at a salary within A.P.T. IV (£710-£885 per annum).

Applicants must be able to undertake the design of houses and estate layouts and to prepare final plans, working drawings, specifications and estimates and supervise housing contracts. Preference will be given to applicants who have passed the examination for Associate R.I.B.A. or hold a University degree or Diplomas in Architecture accepted by that Institute.

The Appointment is subject to the National Conditions of Service, superannuation and the passing of a medical examination. It is possible that housing accommodation will be made available. Reasonable removal expenses will be paid by the Council.

Application in writing to be made to the Engineer and Surveyor, A. W. R. Webb, A.M.I.C.E., A.M.I.M.E., at Netteswell Hall, Harlow, not later than fourteen days after the date of publication of this advertisement.

D. F. BULL,  
Clerk of the Council.

# BRITISH STANDARDS INSTITUTION

TECHNICAL OFFICER is required by the British Standards Institution to act as SECRETARY TO COMMITTEES preparing standard for BUILDING and ROAD construction. Architectural or surveying experience and aptitude for committee work are essential. Membership of a professional institution or a university qualification desirable.

Salary of the posts of this grade is at present £650 to £1,050; starting salary dependent on qualifications and experience. The position is pensionable. Apply in writing to the Establishment Officer, B.S.I., 2, Park Street, W.1. 1756

# LONDON COUNTY COUNCIL CRYSTAL PALACE DEVELOPMENT

Architects required for the development of the Crystal Palace Scheme

## ARCHITECT'S DEPARTMENT

Architect Grade 1 (scale £1,184 to £1,353), Architects Grade II (scale £987 to £1,184), Architects Grade III (up to £987), and Architectural Assistants (up to £817). Starting salaries in accordance with qualifications and experience. Further particulars and application form, returnable by 1st August, 1956, from the Architect (AR/EK/CP/3), County Hall, S.E.1.

## PARKS DEPARTMENT

For the development of the park area. These positions offer unusual scope for the design of novel features of park development and of park buildings in association with landscaping.

Salaries:—First position, £987-£1,184.

Second position, £775-£987. Starting point according to qualifications and experience. Application forms from the Chief Officer, Parks Department, Old County Hall, Spring Gardens, S.W.1 (WHI 312, ext. 33). (1355) 1760

# NOTTINGHAMSHIRE COUNTY COUNCIL COUNTY PLANNING DEPARTMENT

## APPOINTMENT OF ASSISTANT ARCHITECT

Applications are invited for the appointment of Assistant Architect. Salary £595-£675 per annum. Applicants must hold the Intermediate certificate of the Royal Institute of British Architects. Experience in the design and grouping of buildings, the re-development of built up areas and the preparation of housing layouts would be an advantage.

Further particulars from County Director of Planning, Shire Hall, Nottingham, to whom applications must be submitted not later than 2nd August, 1956.

A. R. DAVIS,  
Clerk of the County Council.

# HERTFORDSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the following:—

(a) SENIOR ASSISTANT QUANTITY SURVEYOR, Grade V, £795-£970.

(b) ASSISTANT QUANTITY SURVEYOR, Grade IV, £710-£885.

(c) ASSISTANT ARCHITECT, £690-£940. Previous Local Government experience not essential. Applicants must give full particulars of qualifications, training and experience, and state clearly which post is applied for.

Applications with names of two referees to County Architect, County Hall, Hertford, Herts, not later than 30th July 1956. 1719

# ST. THOMAS' HOSPITAL, LONDON, S.E.1

Applications are invited for the following posts in the architect's department, with the names of the design and construction of an extensive rebuilding scheme forming part of the south bank development.

(a) SENIOR ASSISTANT ARCHITECT—must be qualified, with experience in running large contracts. Previous hospital experience an advantage. This post will be one of growing responsibility as the office expands. Salary scale £890-£1,050.

(b) ASSISTANT ARCHITECTS (2)—A.R.I.B.A., a good knowledge of design and experience of preparing W.D.s. essential. Salary £780 x £3(30) -£870.

(c) ARCHITECTURAL ASSISTANTS (2)—R.I.B.A. Intermediate standard to R.I.B.A. Final standard. Office experience not essential. Salary from £550-£775, according to qualifications and experience.

(d) DRAUGHTSMAN OR WOMAN (1)—Salary £400-£550, according to experience.

Preference will be given to school trained assistants having an interest in contemporary design and construction. The posts are superannuable.

Apply in writing, or telephone stating age, qualifications and experience, to W. Fowler Howitt, A.R.I.B.A., 27, Paris Street, London, S.E.1 (WAT 4891/2). 1725

# RUTLAND COUNTY COUNCIL APPOINTMENT OF ARCHITECTURAL ASSISTANT

Grade IV. Salary £710-£885

Applications are invited for this post which is subject to the Local Government Superannuation Acts, 1937 to 1953 and the National Scheme of Conditions of Service.

Applicants should preferably be experienced in the design of schools. Particulars of age, experience, and qualifications, with the names of two referees should be sent to T. Brian Kennedy, A.R.I.B.A., M.T.P.I. County Architect and Planning Officer, County Offices, Oakham, within 14 days of the publication of this advertisement.

A. BOND,  
Clerk of the County Council.

County Offices,  
Oakham.

11th July, 1956. 1749

# OXFORDSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT

Applications are invited from assistants anxious to participate in interesting and responsible development work on substantial new projects, principally schools, making full use of contemporary methods and materials.

The salary will be between £530 and £885, depending upon qualifications and experience. Applications giving particulars of age, education, experience and qualifications, with the names of two referees and one testimonial to be forwarded to the County Architect, Park End Street Offices, Oxford, by the 30th July, 1956.

GERALD GALE BURKITT,  
Clerk of the Council.

County Hall,  
Oxford. 1726

# BUCKS COUNTY COUNCIL

Applications are invited for the following appointments in the County Architect's Department:—

ASSISTANT QUANTITY SURVEYOR, Grade VI, £890-£1,080 p.a.

ASSISTANT QUANTITY SURVEYOR, Grade V, £795-£970 p.a.

ASSISTANT QUANTITY SURVEYOR, Grade III, £640-£765 p.a.

JUNIOR ASSISTANT QUANTITY SURVEYOR, Grade II, £595-£675 p.a.

The appointments are superannuable and subject to medical examination.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation. Applications, on forms to be obtained from F. B. Pooley, County Architect, County Offices, Aylesbury, must be returned by 24th August, 1956. 1727

# GOVERNMENT OF UGANDA ARCHITECT AFRICAN HOUSING DEPARTMENT

To be in charge of the Architectural section of the African Housing Department, and concerned with the design and provision of standard type houses for African needs, the preparation of letting, supervision of contracts, and research into the use of materials and means of adapting and improving traditional African house design.

Permanent and Pensionable in salary range £852-£1,620 plus 10 per cent. cost of living allowance.

Free passages provided for officer and family up to total cost of either 4 tourist class passages or 3 adult sea passages. Quarters at reasonable rental. Five days' leave for each month of resident service.

Candidates must be A.R.I.B.A. and preferably between 30-35 years.

Write to Director of Recruitment, Colonial Office, London, S.W.1, giving age, qualifications and experience, quoting BCD 150/9/52. 1730

# COUNTY OF CORNWALL ASSISTANT AREA PLANNING OFFICER

EASTERN AREA OFFICE, LISKEARD

Applications are invited for this appointment in the County Planning Department, salary within Grade A.P.T. IV (£710-£885)—according to qualifications and experience.

Candidates must be Associate Members of the Town Planning Institute or hold an equivalent qualification; the successful candidate will be engaged on work mainly concerned with development control.

The customary service conditions of the Local Government Service will apply, and the successful candidate will be required to provide a car for official travelling, for which a mileage allowance will be paid.

Applications, together with the names and addresses of three referees, should be addressed to the County Planning Officer, County Hall, Truro, and received not later than 2nd August, 1956.

E. T. VERGER,  
Clerk of the County Council.

County Hall, Truro.  
14th July, 1956. 1780

# CITY OF BIRMINGHAM CITY ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of QUANTITY SURVEYOR, within Grade A.P.T. V (£795-£970 per annum), at a commencing salary according to capabilities and experience.

Applicants must have passed the Final Examination of the R.I.C.S. (Quantity Section), or hold equivalent qualifications.

The post is permanent, subject to a medical examination, to one month's notice on either side, and to the provisions of the Local Government Superannuation Acts, 1937-53, and the Birmingham Officers' Widows' and Orphans' Pensions Scheme.

Applications, endorsed with the heading of the post, setting out present position and salary, qualifications and experience, together with the names of two persons to whom reference can be made, should reach the undersigned not later than 3rd August, 1956.

Canvassing disqualifies.

A. G. SHEPPARD FIDLER,  
City Architect.

Civic Centre, Birmingham, 1. 1777

# ARCHITECTURAL ASSISTANT required by Poplar Borough Council.

Salary A.P.T. II (£595/675 plus "weighting"). Applicants should have passed Intermediate R.I.B.A. or equivalent.

Application forms obtainable from Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3. Closing date, 4th August, 1956. 1759

**BOROUGH OF CHELTENHAM  
APPOINTMENT OF TWO ARCHITECTURAL ASSISTANTS**

Applications are invited for the appointment of two Architectural Assistants on the Capital Works Establishment of the Borough Engineer's Department, at a salary within Grade A.P.T. IV (£710-£885).

Applicants must be Associate Members of the R.I.B.A., or equivalent and experienced in the design of Public Buildings, Housing and Ancillary Buildings in connection with Estate Development.

The appointments are subject to the National Conditions of Service; to the Superannuation Acts; and to a medical examination; and will be terminable by one month's notice on either side.

The Council will provide housing accommodation, if required, for the successful applicants. Applications, endorsed "Architectural Assistant," stating age, training, qualifications and experience; present and previous appointments; and giving the names of two referees, are to reach Mr. G. Gould Marsland, M.B.E., B.Sc., M.Inst.C.E., Borough Engineer, P.O. Box No. 12, Municipal Offices, Cheltenham, not later than 28th July, 1956.

F. D. LITTLEWOOD,  
Town Clerk.

Municipal Offices,  
Cheltenham. 1770

**BOROUGH OF RICHMOND (SURREY)  
JUNIOR ARCHITECTURAL ASSISTANT**

Applications are invited for the appointment of a Junior Architectural Assistant on the established staff of the Borough Engineer and Surveyor, at a salary in accordance with A.P.T. Grade I (£530-£610 p.a.) plus the appropriate London Area weighting.

Applicants should have passed the Intermediate Examination of the R.I.B.A., or hold some other diploma in architecture, and should have had experience in an architect's office.

Full particulars regarding age, experience and appointments held with the names of two referees should be forwarded to the Borough Engineer and Surveyor, Hotham House, Heron Court, Richmond, Surrey, on or before 7th August, 1956. Canvassing will disqualify. Relationship, if any, to members of the Council or Senior Officer must be stated. No assistance with housing.

CLIFFORD HEYWORTH,  
Town Clerk.

Town Hall,  
Richmond,  
Surrey. 1769

**COUNTY BOROUGH OF BARNSELY  
BOROUGH ENGINEER AND SURVEYOR AND  
PLANNING OFFICER'S DEPARTMENT**

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT QUANTITY SURVEYOR, Grades A.P.T. V-VI (£795-£1,080 per annum). The commencing salary will be fixed within this range, according to experience and qualifications.

(b) ASSISTANT ARCHITECT, Grade A.P.T. III (£640-£765 per annum). Commencing salary will be fixed within this range, according to experience and qualifications.

(c) ARCHITECTURAL ASSISTANT, Special Classes, Grade A.P.T. I-II, Special Grade (£530-£840 per annum), the grading to be fixed according to experience and qualifications as laid down in the N.J.C. Scheme for Special Classes of Officers (Architectural Assistants). The point of entry in any one of these grades may be fixed above the minimum.

(d) TEMPORARY ARCHITECTURAL ASSISTANT, Special Classes, for a period of about two years. Salary as for appointment (c). For appointment (a) applicants should be suitably qualified, preferably A.R.I.C.S., and have had considerable experience in preparing Bills of Quantities and settling Contractor's accounts. The candidate appointed will be in charge of the Quantity Surveying Section of the Department. Applicants for appointments (b), (c) and (d) should have completed their architectural training and be qualified or in process of qualifying. Appointments (c) and (d) are particularly suitable for students who have recently completed their Diploma courses.

HOUSING ACCOMMODATION WILL BE PROVIDED IF NECESSARY AND 50 PER CENT. OF REMOVAL TRANSPORT EXPENSES WILL BE PAID IN APPROVED CASES.

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

Applications, stating appointment applied for, age, present and previous appointments with dates, qualifications, experience, etc., together with the names of two persons for reference, should reach the Borough Engineer, Town Hall, Barnsley, by Wednesday, 8th August, 1956.

Canvassing will disqualify.

A. E. GILFILLAN,  
Town Clerk.

Town Hall, Barnsley.  
July, 1956. 1771

**SOUTH WEST METROPOLITAN REGIONAL  
HOSPITAL BOARD**

Applications are invited for the following appointment on the permanent staff of the Regional Architect:—

**ASSISTANT ARCHITECT**

Commencing salary (increase of 6 per cent. pending) (fixed by reference to experience at full professional standard as a practising Architect and to age) will be within the scales £640-£825 (4) by £30 (4) × £35 (2) to £930 p.a., plus London allowance.

Applicants must be Associate Members of the Royal Institute of British Architects and capable of preparing working and detailed drawings and specifications and supervising work on individual projects. Experience of hospital planning and construction an advantage.

Application forms may be obtained from the undersigned, and must be returned by not later than 20th August.

E. G. BRAITHWAITE,  
Secretary. 1765

11a, Portland Place, London, W.1.

**MONMOUTHSHIRE COUNTY COUNCIL  
APPOINTMENT OF ARCHITECTURAL ASSISTANT AND ASSISTANT ELECTRICAL ENGINEER**

Applications are invited for the following posts in the County Architect's Department under the N.J.C. conditions:—

ONE ARCHITECTURAL ASSISTANT, Grade A.P.T. IV. Commencing salary: £815-£885 per annum.

ONE ASSISTANT ELECTRICAL ENGINEER, Grade A.P.T. III. Salary: £640-£765 per annum.

Forms of Application, particulars of post and conditions of service, can be obtained from the undersigned.

Applications, together with copies of three testimonials, must be forwarded to the County Architect, Queen's Hill, Newport, Mon., not later than Saturday, 11th August, 1956.

VERNON LAWRENCE,  
Clerk of the Council. 1766

County Hall, Newport, Mon.

**COUNTY BOROUGH OF BLACKBURN  
APPOINTMENT OF CHIEF QUANTITY SURVEYOR, A.P.T. V (1950-£1,080)**

Applications are invited for this appointment. Applicants must be Associates of the Royal Institution of Chartered Surveyors (Quantities subdivision) and be fully experienced and capable of organising and leading the section in the preparation of Contract Documents, Bills of Materials, Specifications, Estimates, settlement of Final Accounts with Contractors, and general administrative work within the section.

Applications stating age, qualifications, experience, past and present appointments together with at least two testimonials should be submitted to the Borough Engineer, Town Hall, Blackburn, by August 8th.

Housing accommodation will be provided if required.

FRANK SQUIRES,  
Town Clerk. 1779

**SOWERBY BRIDGE URBAN DISTRICT  
COUNCIL**

**ASSISTANT ARCHITECT**

Applications are invited for the above post. The salary will be within the Special Grade (£690-£840), and the commencing salary will be in accordance with qualifications and experience.

Applicants should have had experience in preparing plans and quantities for Housing Schemes and supervision of work in progress. Also, should have passed Parts I and II of the R.I.B.A. Final or Special Final Examination or their equivalent at one of the recognised schools of architecture, and have had at least 5 years' experience or should be a Registered Architect.

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

Applicants must disclose whether, to their knowledge, they are related to any member or officer of the Council.

If required, a house will be made available as soon as possible, after the appointment is made. Applications, endorsed "Assistant Architect," stating age, qualifications and experience, and giving the names of three persons to whom reference may be made, must reach the undersigned not later than Thursday, the 2nd August, 1956.

ALFRED WOMERSLEY,  
Clerk of the Council. 1772

Allan House, Station Road,  
Sowerby Bridge.

**BOROUGH OF BARKING  
DEPARTMENT OF THE BOROUGH  
ARCHITECT**

**QUANTITY SURVEYING ASSISTANT**

Assistant for working-up required on a salary scale of £330-£610 per annum plus London weighting, £10-£30 p.a. annum according to age. Written applications should reach the undersigned not later than 9 a.m., Monday, 30th July, 1956.

E. R. FARR,  
Town Clerk. 1732

Town Hall,  
Barking.

**Tenders Invited**

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

**BOROUGH OF EALING**

**ERECTION OF FLATS—GREENFORD ROAD**  
The Corporation invite tenders for the erection of one block of three-storey flats, comprising 12 flats with site works on site in Greenford Road, Greenford.

The Form of Tender, Specification and other particulars can be obtained from the Borough Surveyor, Town Hall, Ealing, W.5, upon a deposit of £2 which will be returned on receipt of a bona fide tender.

Tenders (in plain sealed envelopes endorsed "Tender for Flats—Greenford Road" but bearing no name or mark indicating the sender) must be delivered at my office not later than 9 a.m. on the 30th August, 1956.

The Corporation do not bind themselves to accept the lowest or any tender.

E. J. COPE-BROWN,  
Town Clerk. 1714

Town Hall,  
Ealing, W.5.

**Architectural Appointments Vacant**

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

**ARCHITECTURAL ASSISTANTS**, Senior and Junior required, preferably with London practice experience, office and factory buildings. Write, giving particulars of experience, etc., to Messrs. Bates & Sinning, 89, Chancery Lane, W.C.2. 2508

**CO-OPERATIVE WHOLESALE SOCIETY, LTD. ARCHITECT'S DEPARTMENT, MANCHESTER.**  
Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECTS, with experience of work on commercial and industrial projects. (Salary range £820 to £975 per annum.)

(b) ASSISTANT ARCHITECTS, capable of preparing working drawings from preliminary details. (Salary range £550 to £820 per annum.)

There is a five-day week in operation, and both appointments offer prospects of upgrading.

Applications, stating age, experience, qualifications and salary required, to G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4. 3871

**ARCHITECTURAL ASSISTANT** required in busy London office with varied practice. Good salary and prospects for suitable applicant. 5-day week. Write, giving particulars of age, qualifications, experience, etc., to Box 775, c/o 7, Copple Street, W.C.1. 9213

**LONDON** Consultants require immediately ASSISTANTS of Intermediate and R.I.B.A. standard for varied and interesting contemporary industrial projects. Responsibility given to applicants with good design sense and constructional ability. Apply, giving full particulars and salary required, to Box No. 401, Glovers Advertising Ltd., 351, Oxford Street, London, W.1. 9341

**ARCHITECTURAL ASSISTANTS** required for St. Albans office for work on School, Commercial and Housing projects. Should be good draughtsmen with contemporary outlook. Good Salaries. Write to Box 9679.

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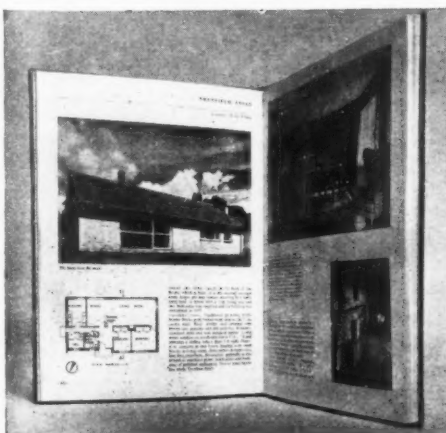
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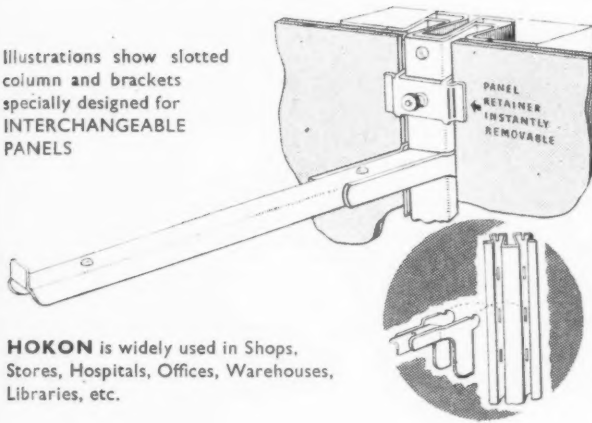


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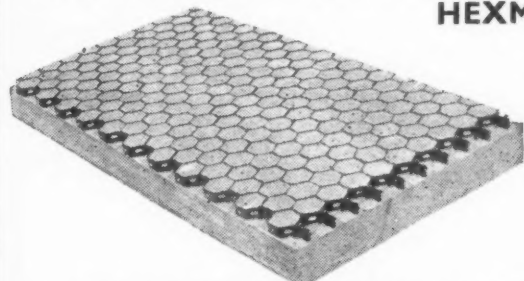
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