

THE ARCHITECTS' JOURNAL



standard contents

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

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Wanted and Vacant

Vol. 134 No. 1

THE ARCHITECTURAL PRESS

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their addresses and telephone numbers. The glossary is published in two parts—A to Ii one week, Ii 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.: J. H. Holden, College of Art, Cavendish Street, Manchester 15	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5533
ABT	Association of Building Technicians. 156, Waterloo Road, S.E.1.	Waterloo 5427/8
ACGB	Arts Council of Great Britain. 4, St. James's 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 5861
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BASA	British Architectural Students Association. Building Centre, 26 Store Street, W.C.1.	Langham 5400
BC	Building Centre, 26, Store Street, Tottenham Court Road, W.C.1.	Welbeck 4185
BCC	British Colour Council. 13, Portland Square, W.1.	Ealing 9621
BCCF	British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5.	Redditch 716
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham	Fremantle 8494
BDA	British Door Association. 10, The Boltons, S.W.10.	Hunter 1951
BE	Building Exhibition. 11, Manchester Square, W.1.	Temple Bar 9434
BEDA	British Electrical Development Association, 2, Savoy Hill, W.C.2.	
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, S.W.1.	Trafalgar 8855
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 4040
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
CABAS	City and Borough Architects Society. C/o S. A. G. Cook, A.R.I.B.A., Borough Architect and Director of Housing, Town Hall, High Holborn, W.C.1.	Holborn 3411
CAS	County Architects' Society. C/o J. Hurst, A.R.I.B.A., County Hall, Dorchester.	
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Belgravia 6661
CDA	Copper Development Association. 55, South Audley Street, W.1.	Grosvenor 8811
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
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
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 Associations of Specialists and Sub-Contractors. 14, Bryanston Street, W.1.	Welbeck 1781
FBBDO	Fibre Building Board Development Organization Ltd. (Fidor). Stafford House, Norfolk Street, W.C.2.	Covent Garden 3008
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	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. 33, John Street, W.C.1. Tel.: Chancery 7583 (6 lines)	
FPC	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
GPDA	Gypsum Plasterboard Development Association. 11, Ironmonger Lane, E.C.2.	Monarch 8888
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Belgravia 4321
GG	Georgian Group. 2, Chester Street, S.W.1.	Belgravia 3081
HC	Housing Centre. 13, Suffolk Street, 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, 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
IHVE	Institution of Heating and Ventilating Engineers. 49, Cadogan Square.	Sloane 1601/3158
IIBDID	Incorporated Institute of British Decorators and Interior Designers. 37, Soho Square, W.1.	Gerrard 3056

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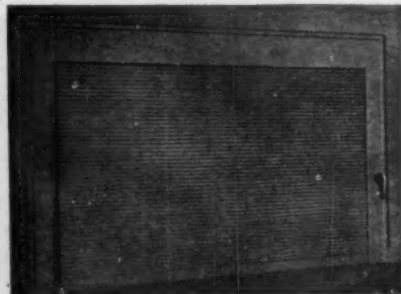
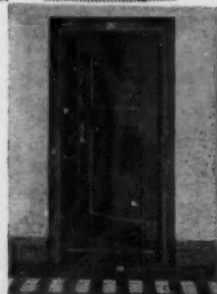
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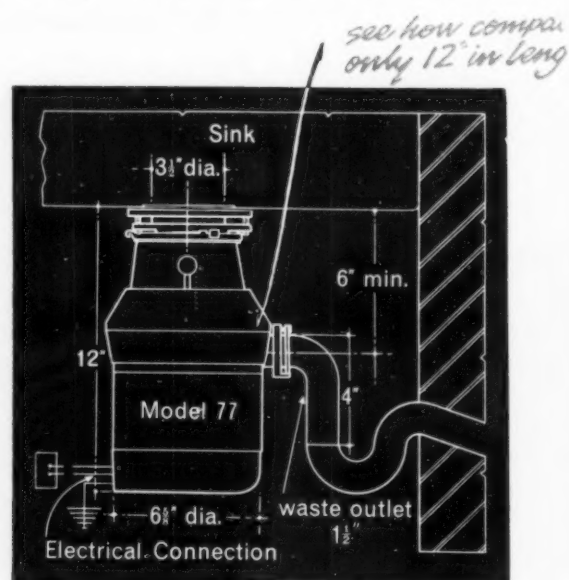
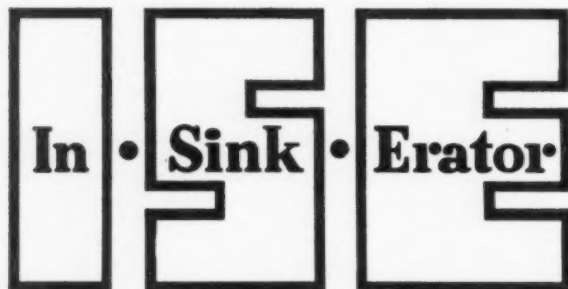
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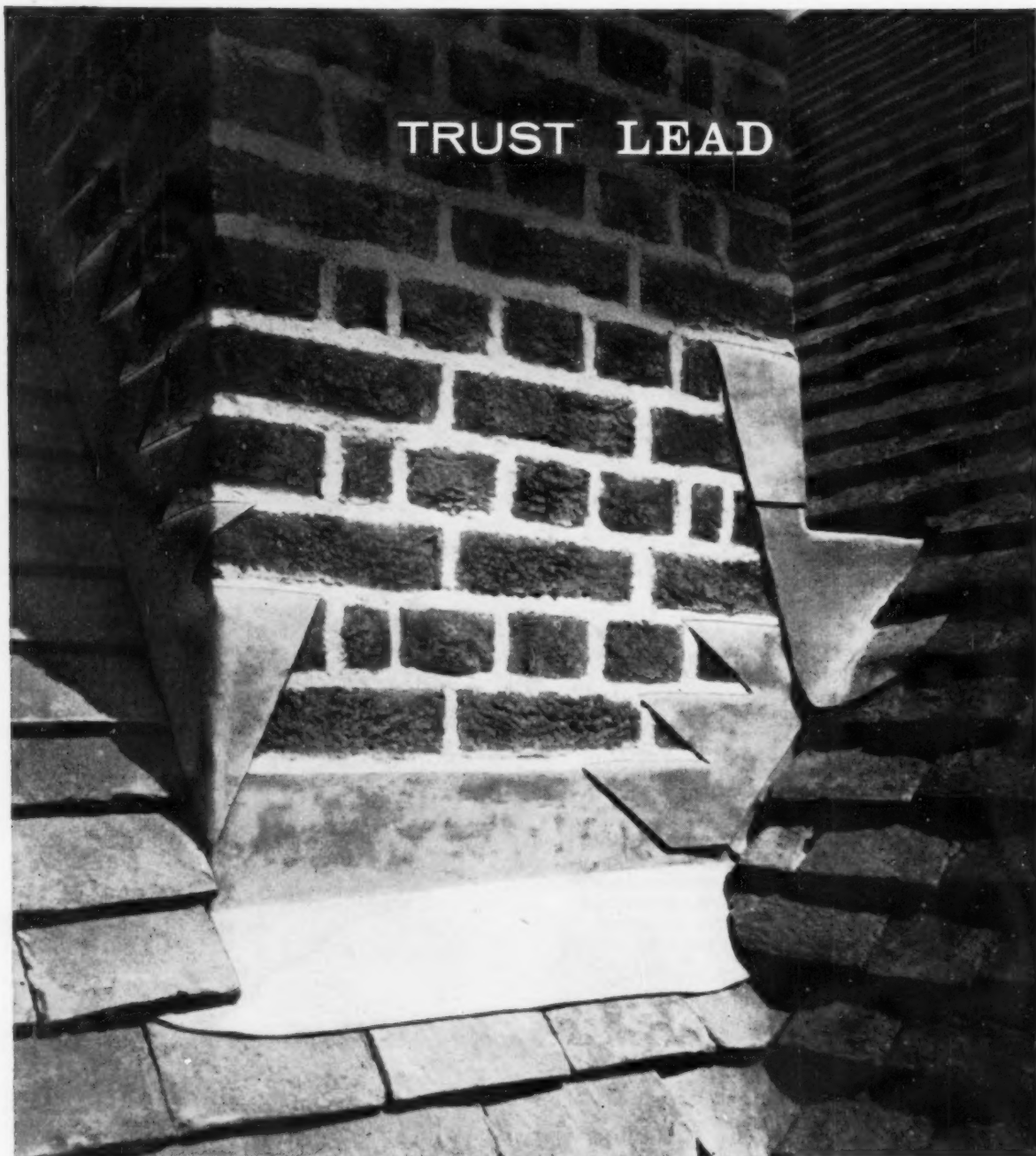
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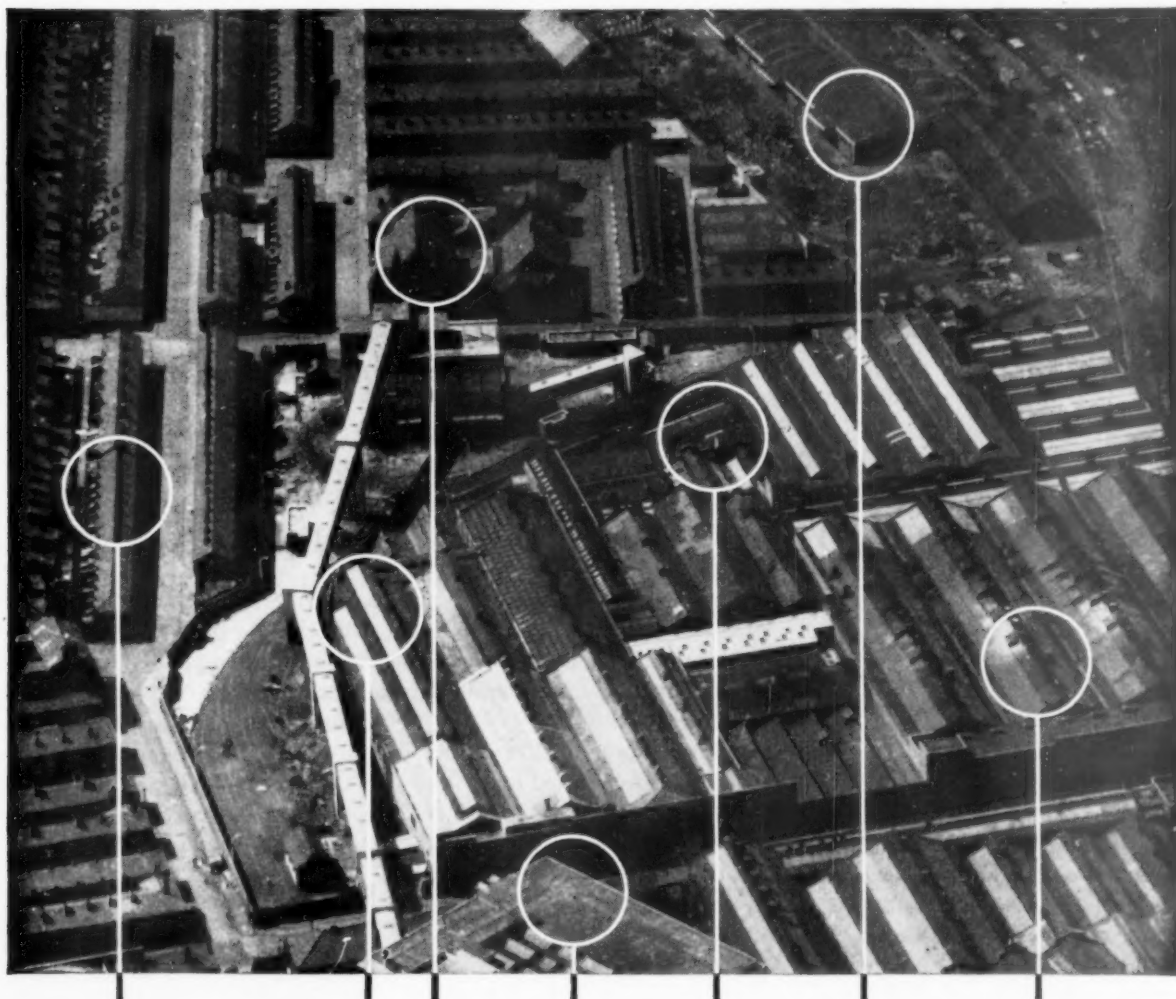
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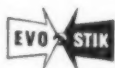
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M.W.159.

News from Hull



Empire Stores Ltd. New warehouse and offices at Horbury Road, Lupset, Wakefield.

Architects:—H. Egan & Partners, London.

Main Contractors:—A. McAlpine & Son Ltd., London.

Plumbing Sub-Contractors:—J. H. Shouksmith & Son Ltd., Micklegate, York.

New Warehouse and Offices in Wakefield

Executive and Staff washrooms fitted with 'Standard' equipment.

Empire Stores is one of the country's largest mail order houses. Established in 1831, the firm has expanded rapidly since the war. In line with this expansion, new warehouses and offices have been built in Wakefield where a predominantly female staff of over 120 attend to the dispatching of 30,000 parcels weekly.

In the planning stages of the new building, considerable thought was given to the working conditions and comfort of the staff. In the wash-

rooms, the importance of using 'Standard' vitreous china fittings was stressed as these were considered to be the best, most up-to-date and hygienic.

In the employee's toilet Trimline wash basins were fitted in an island range against a terrazzo plinth, and the water closets are also from the Trimline range. A 'Standard' drinking fountain has also been incorporated.

Kingston basins have been installed in the Staff and Executive toilets, together with the Sano low-level water closet suites. Elsewhere throughout the building, Trimline suites have been fitted.

The advanced design of 'Standard' equipment when combined with the use of vitreous china, gives the

architect many advantages when specifying for offices, public buildings and factories. Besides a pleasant appearance, 'Standard' equipment always remains permanently hygienic. The percentage of replacements is small, and the equipment keeps its good looks throughout its long life.



(Above) The elegant Kingston washbasin which represents a great advance in bathroom equipment design has been used in the Executives' washroom at Empire Stores. Like all other 'Standard' bathroom equipment, it is available in a range of five colours, plus white.



(Left) Trimline wash basins and water closets in the employees' washroom. The Trimline is low in cost with a high standard of design. Made from vitreous china, it has been used extensively in municipal and other low-cost housing schemes.

This is the tale of Cedric Potter

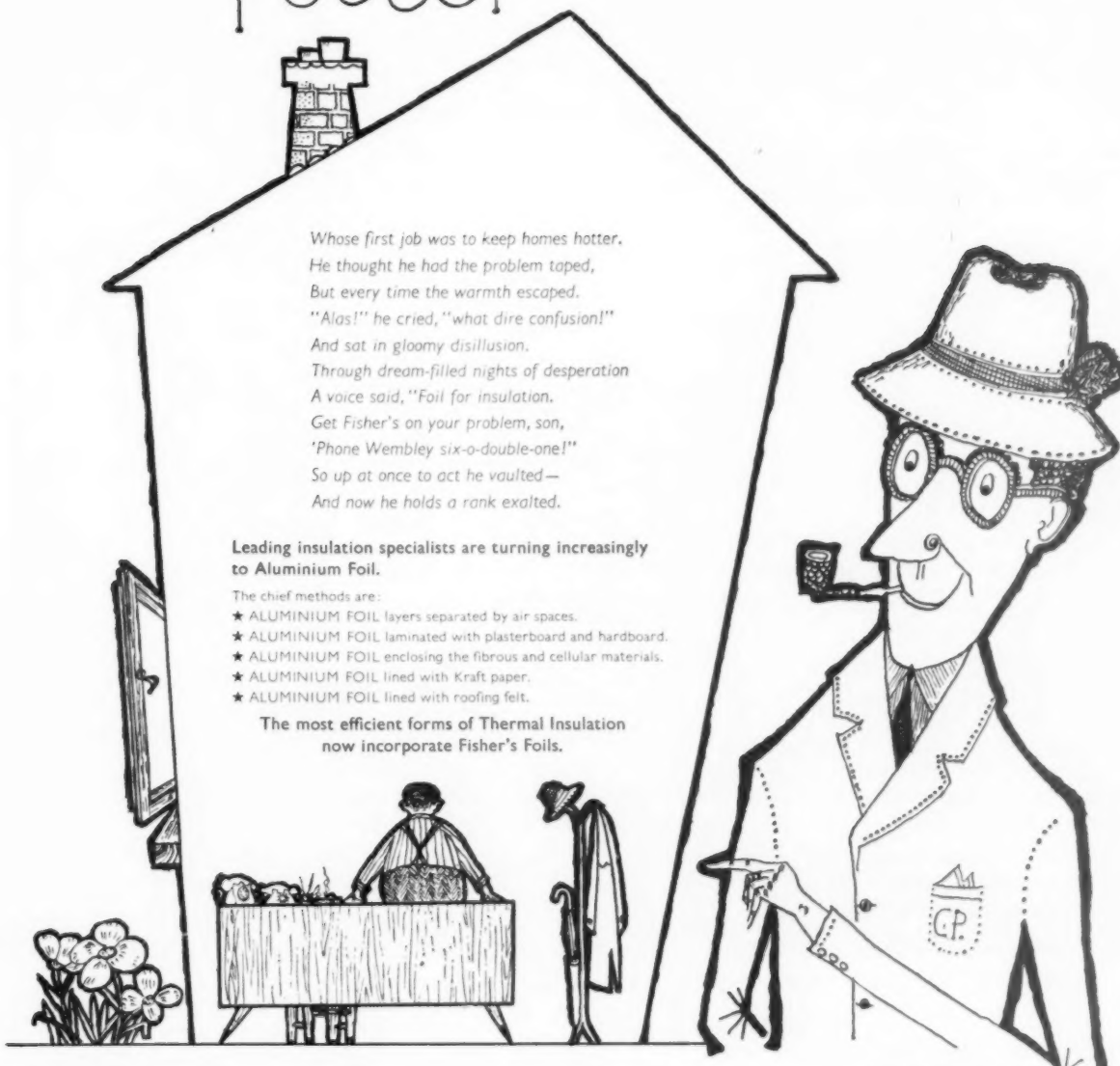
Whose first job was to keep homes hotter,
He thought he had the problem taped,
But every time the warmth escaped,
"Alas!" he cried, "what dire confusion!"
And sat in gloomy disillusion,
Through dream-filled nights of desperation
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Get Fisher's on your problem, son,
'Phone Wembley six-o-double-one!"
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Gyproc Products Limited
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Robinson & Sons Limited.



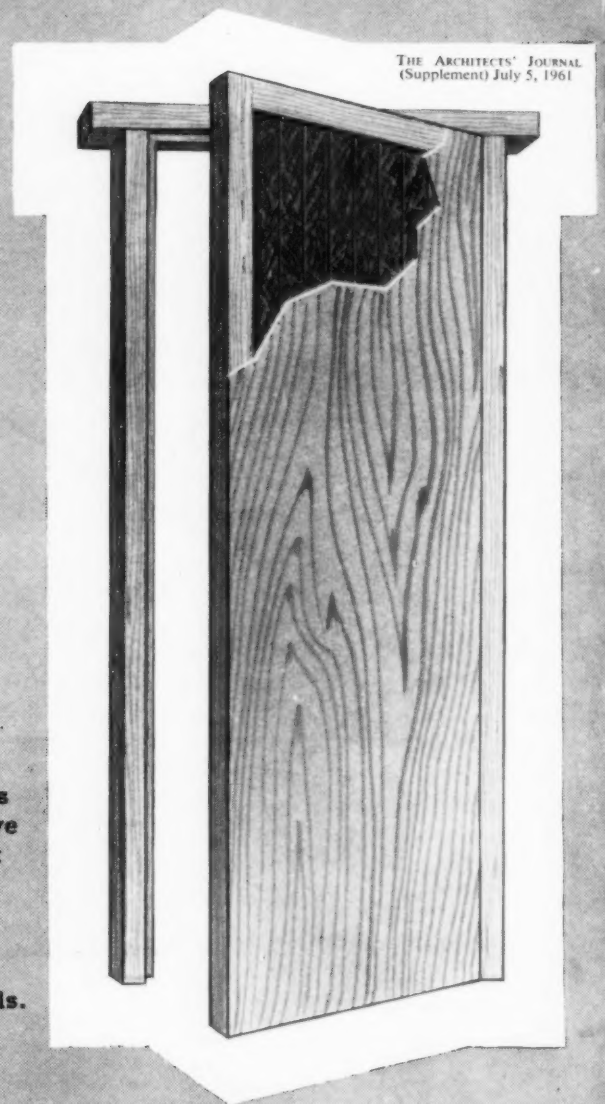
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THE ARCHITECTS' JOURNAL
(Supplement) July 5, 1961

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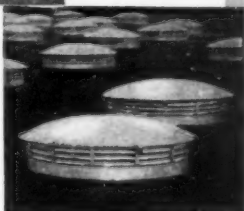
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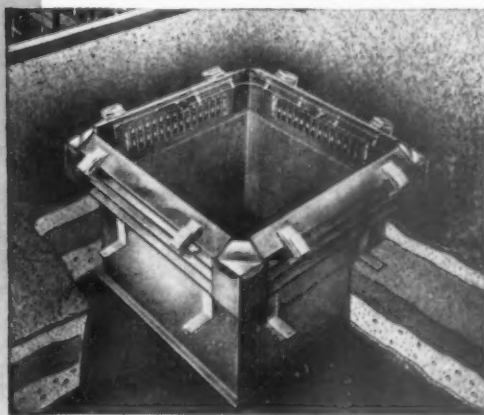


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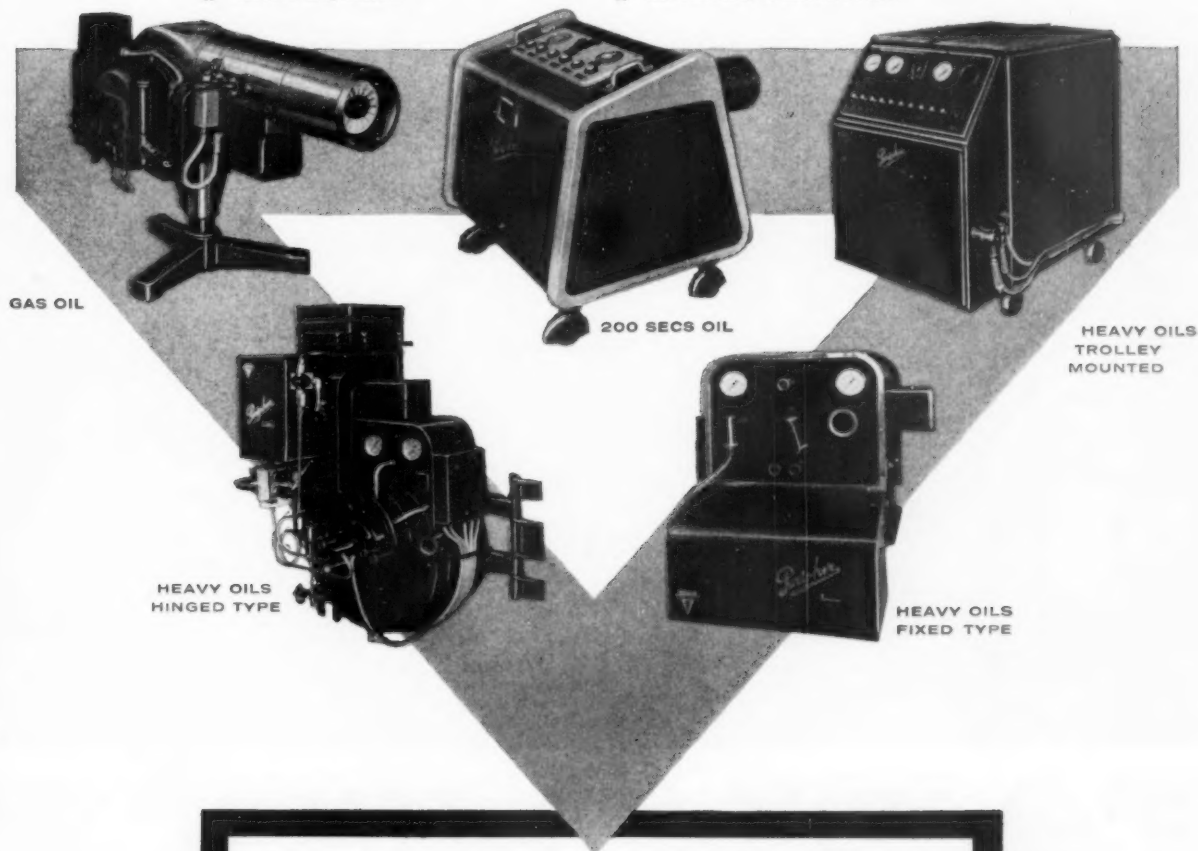
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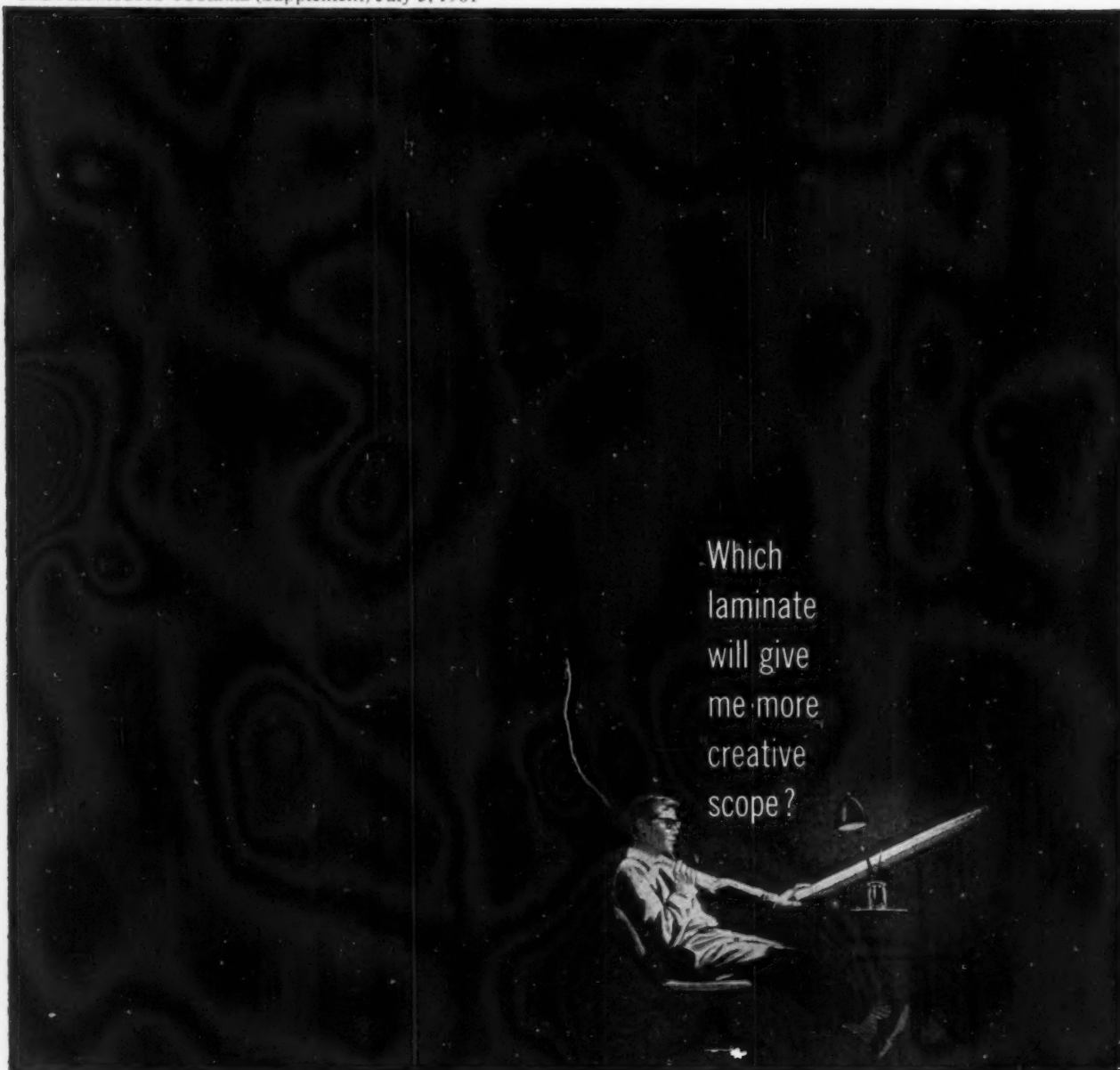
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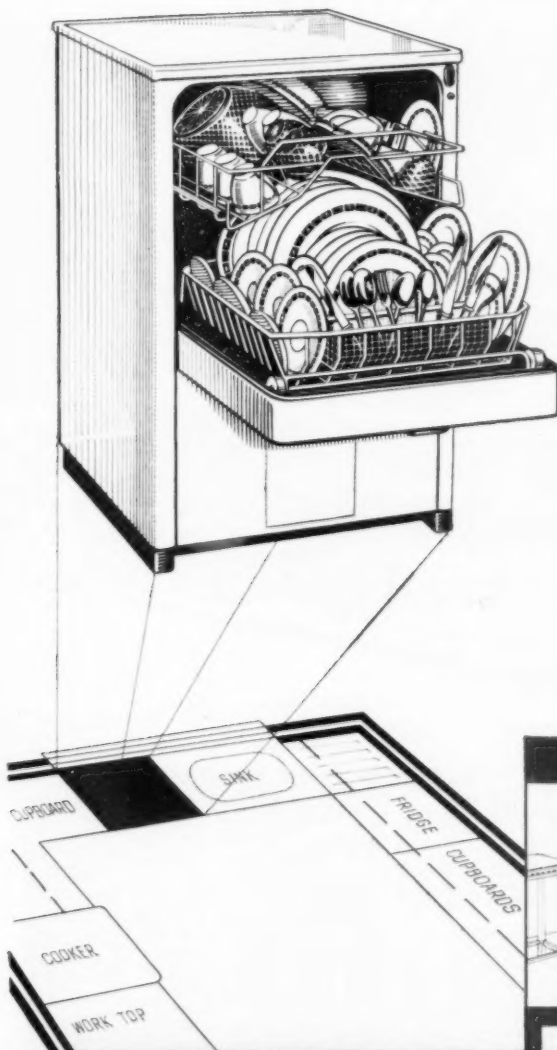
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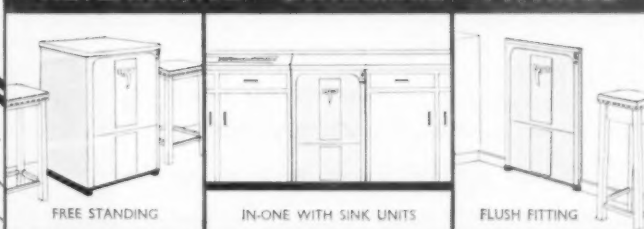
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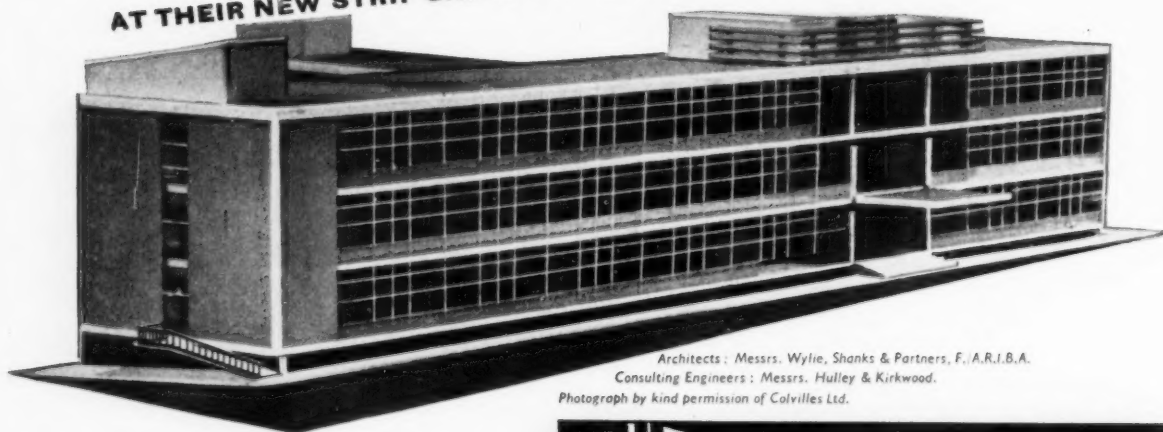
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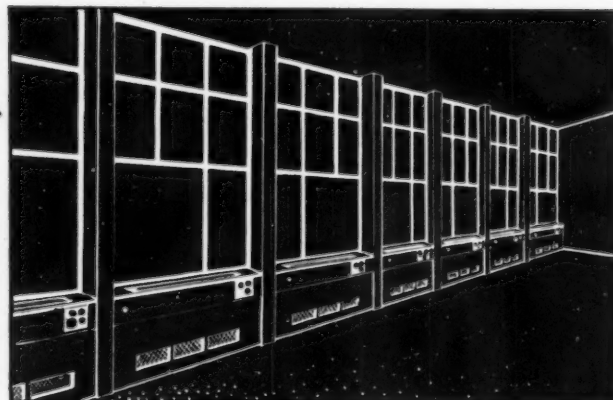
Architects : Messrs. Wylie, Shanks & Partners, F., A.R.I.B.A.
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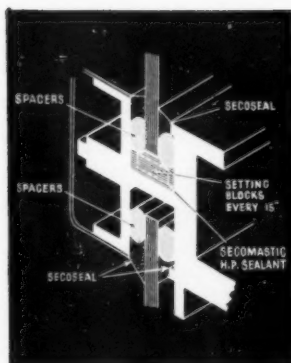


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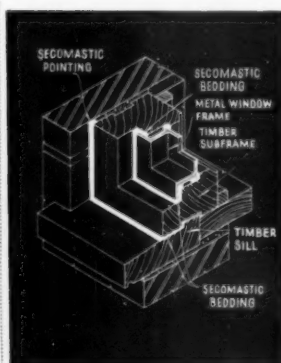
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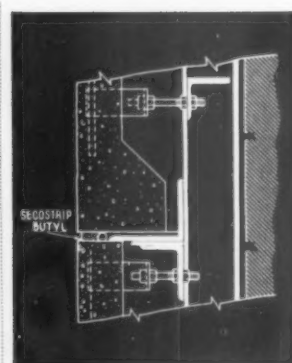
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THE ARCHITECTS' JOURNAL
Supplement July 5, 1961



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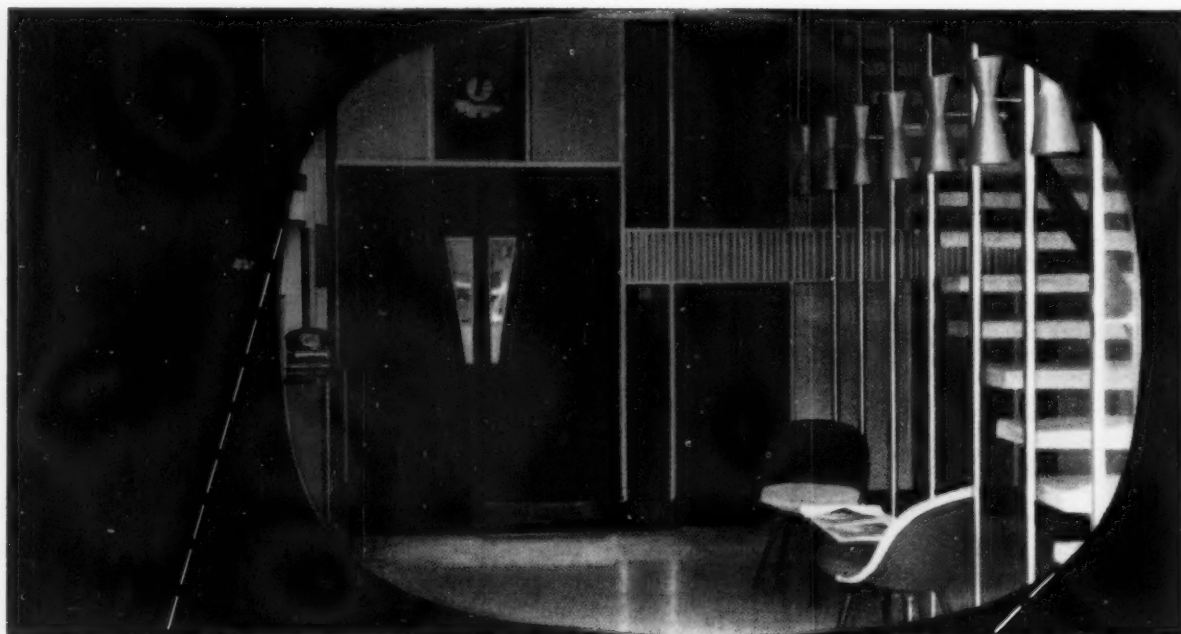


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STELVETITE—

plastic bonded to steel
has put a new face on
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*This reception hall at
Gamet Products Ltd., Colchester,
has two-colour panelling and
doors in Stelvetite.*

STELVETITE is a plastic-steel laminate which provides architects with a new medium for adding colour and strength to their structures. It is available in any colour, and is ideal for panelling, partitioning, ceilings, external cladding and decorative ducting.

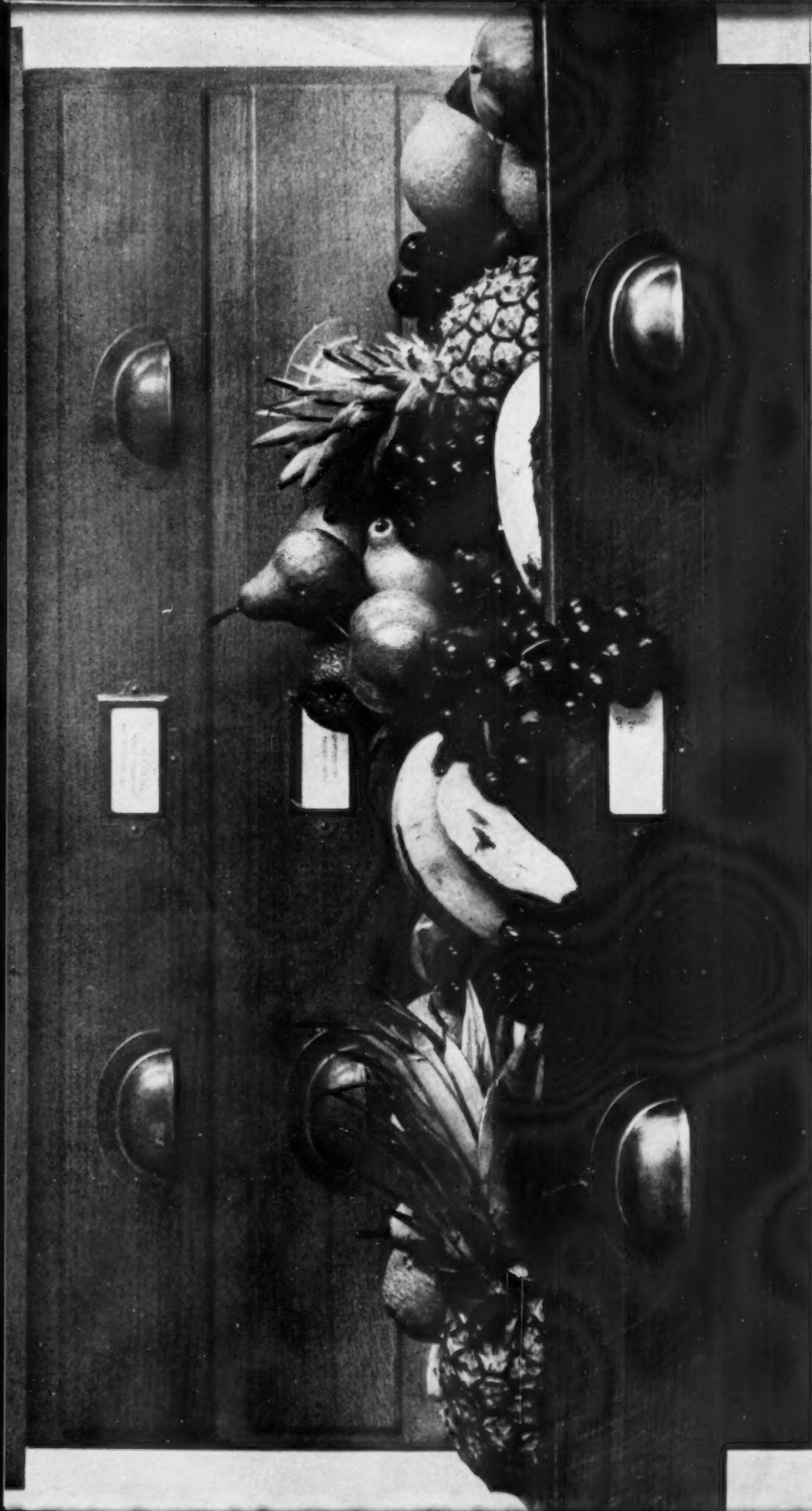
It combats condensation. A room that had been unusable for 20 years because of condensation was lined with Stelvetite and is now occupied as an office.



STELVETITE—made in co-operation with BX Plastics Ltd.

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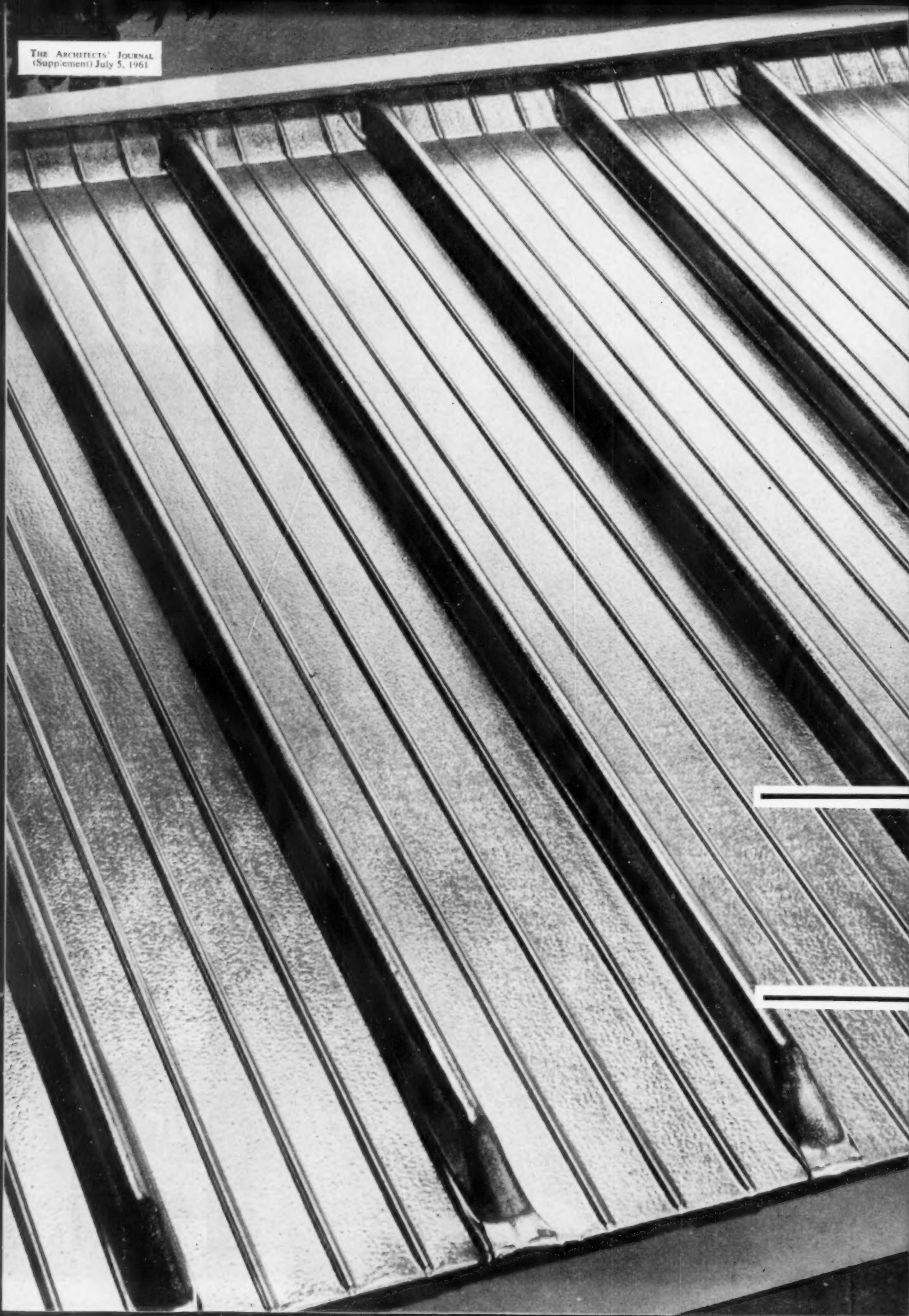


There's room in your plan chest for the fruits of **Weyroc thinking**. Weyroc thinking can be applied to a number of a project's facets. Where it is applied, it brings the rewards of simplicity, solidity and rational costing. Weyroc is a constructional board for interior walls, partitions, ceilings, flooring and built-in furniture. To exploit it is to gain both pleasure and nourishment.

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(Supplement) July 5, 1961

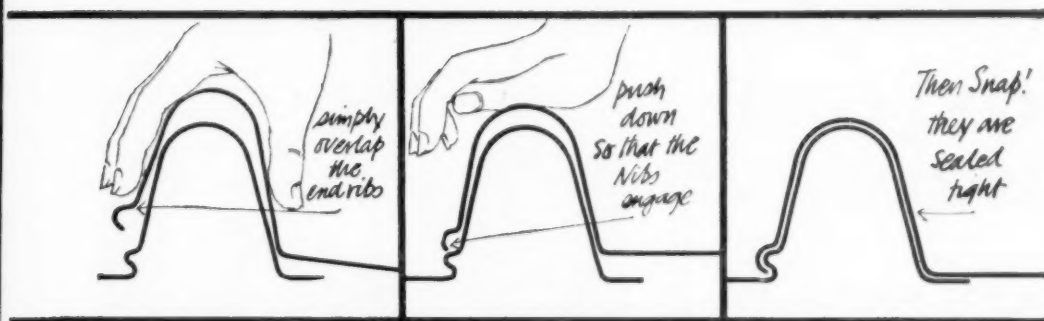


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Now with sealed ends, too

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The Snaprib system is fully covered by patents held by Cookson Sheet Metal Developments Ltd.



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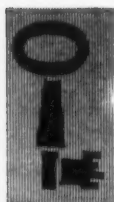
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THE ARCHITECTS' JOURNAL (Supplement) July 5, 1961

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Architects for additions & alterations: Payne & Lacey.*

Illustrated literature is available on request



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Established 1864

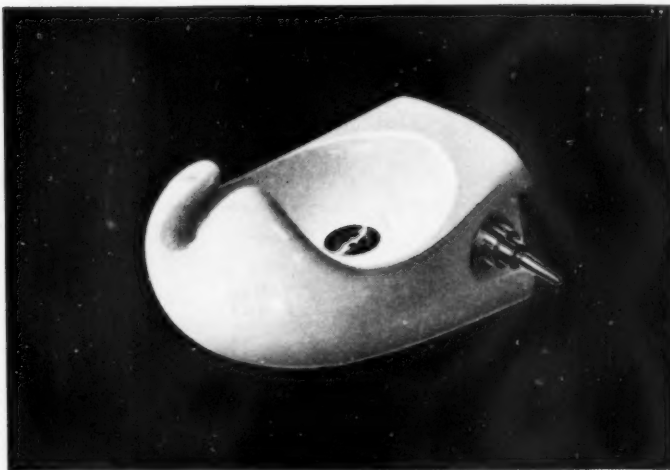
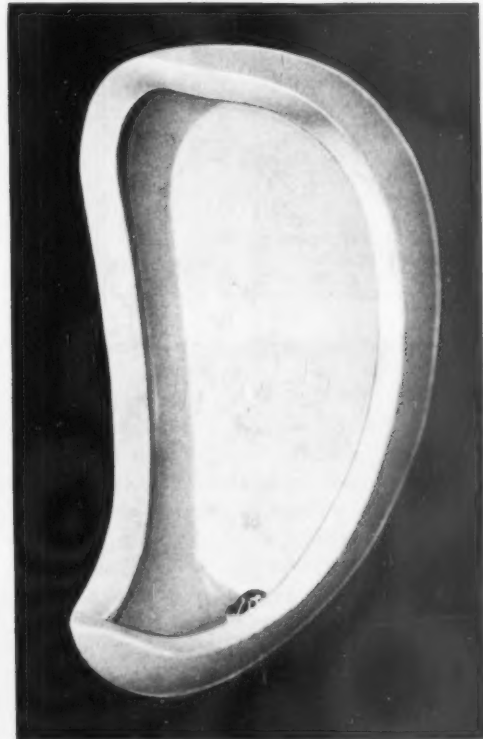
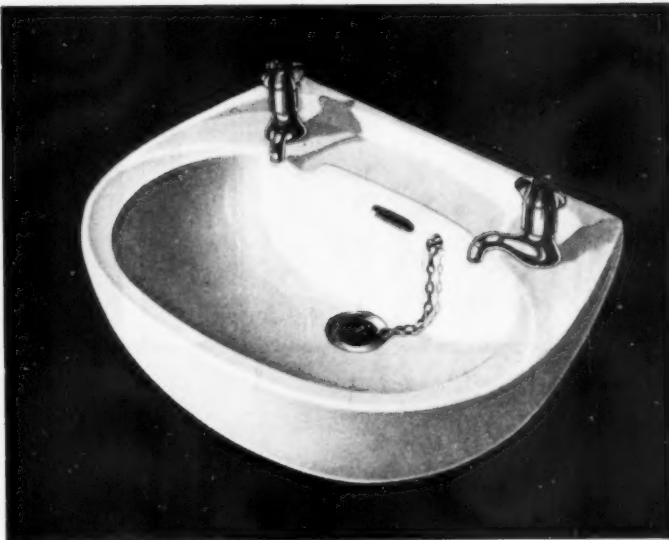
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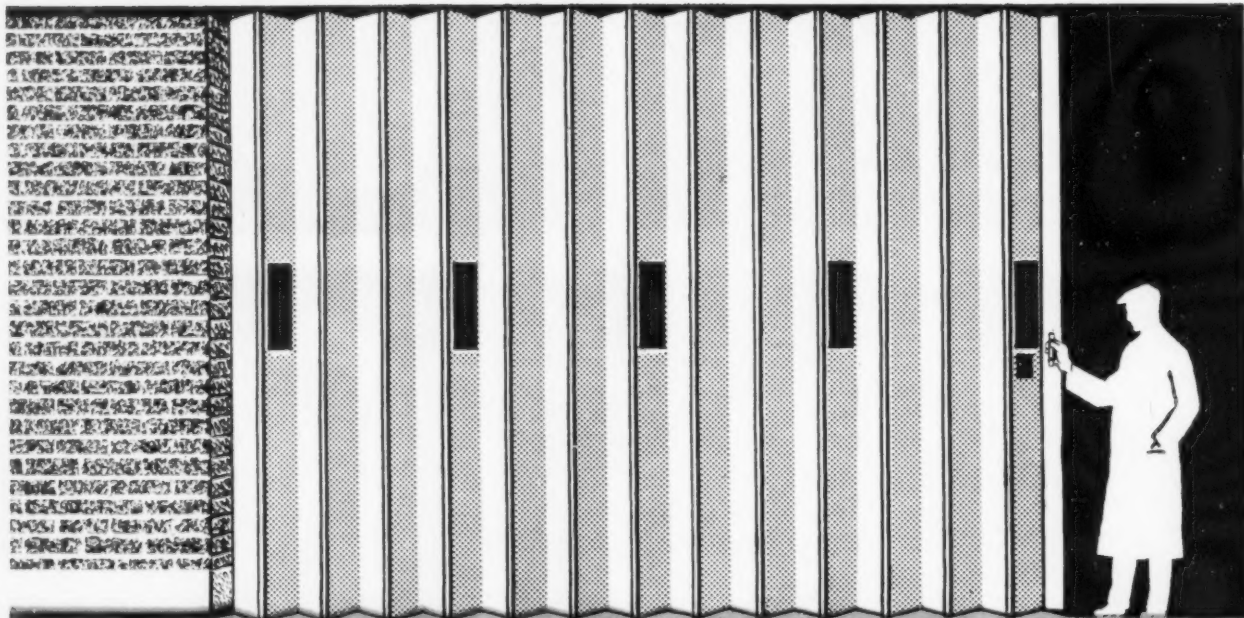
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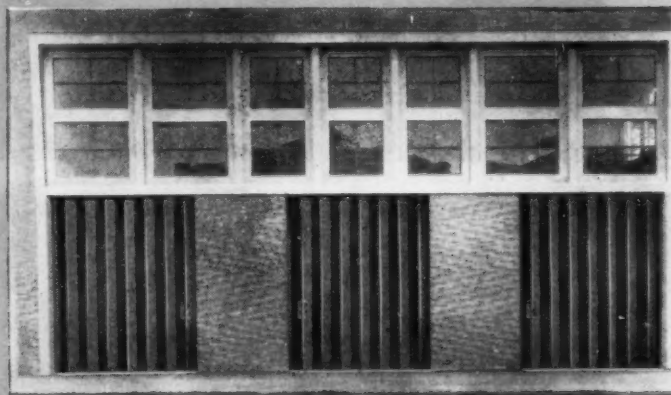
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Above: Three single doors each 13 ft. wide x 14 ft. high for Metropolitan-Vickers Electrical Co. Ltd.

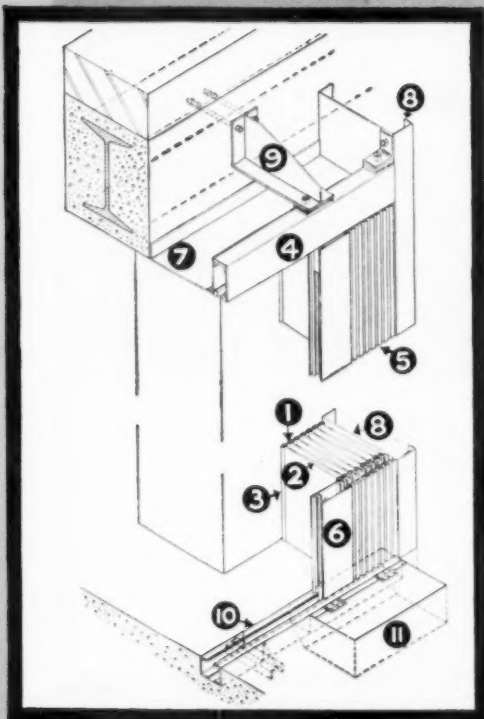
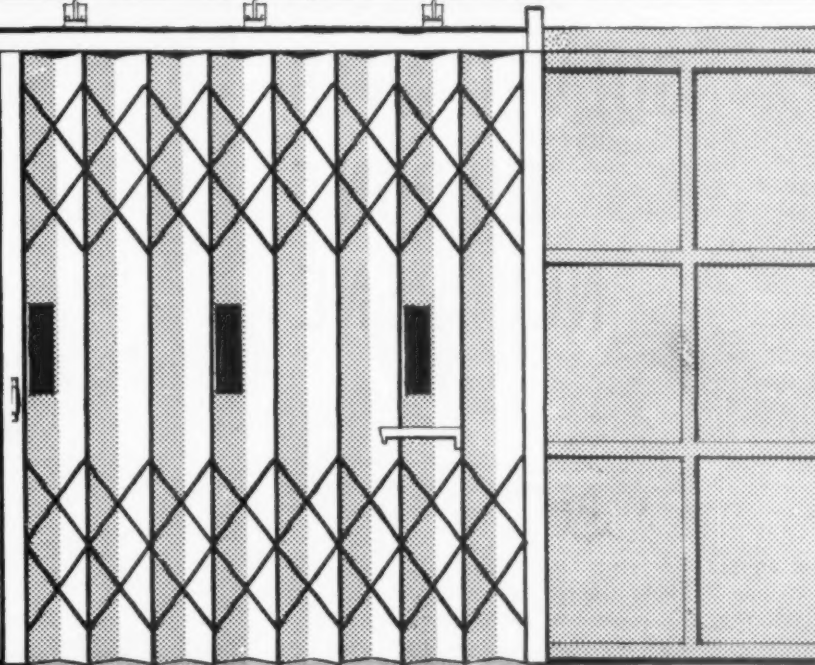
Far Left: One pair of doors, 26 ft. wide x 14 ft. high with 12 inch leaves to reduce bunching space.

Left: One pair of doors 20 ft. wide x 10 ft. 5 in. high, fitted with inspection windows.

and this, technically speaking, is the other

EXPERIENCE, MEN AND MATERIALS PUT BOLTON AHEAD

The engineering skill of Bolton Gate Co. Ltd. results from many years of specialised experience in the design and manufacture of many types of folding doors and gates. Each Bolton Shutter Door is custom built by craftsmen to a superior design, only top grade materials are used but modern production methods enable us to offer a superior job at quantity production cost.



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THE PROBLEM OF TIME — Pre-formed seals or gaskets made from Du Pont neoprene are quick and simple to install. They enable glass or panels to be sealed into frames by unskilled labour, with the minimum risk of a faulty seal. Diagram shows the method of sealing.

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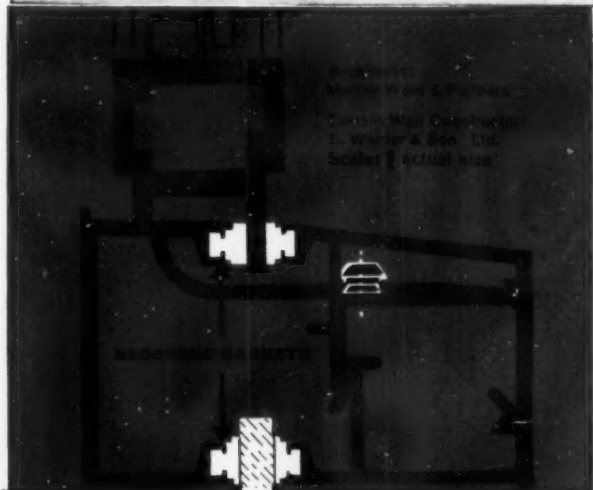
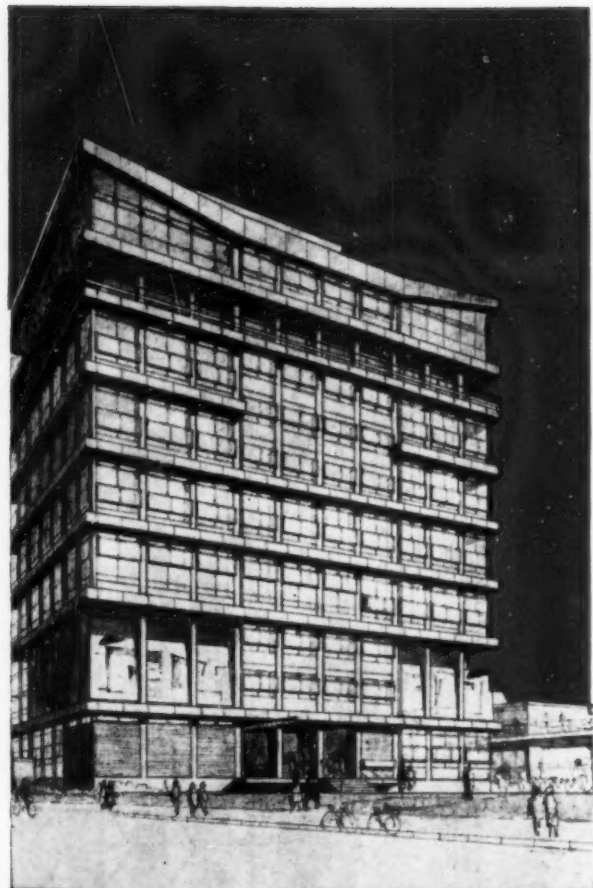
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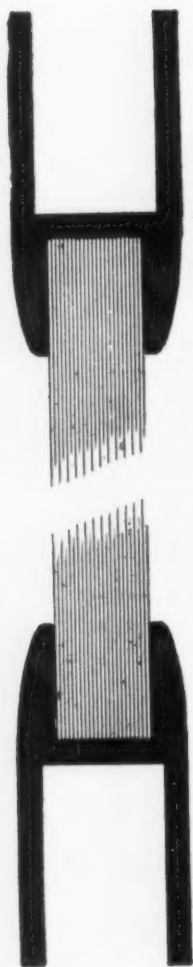
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'Barbour' Index, File No. 53



TRUST

PENELOPE

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**LOCKS AND
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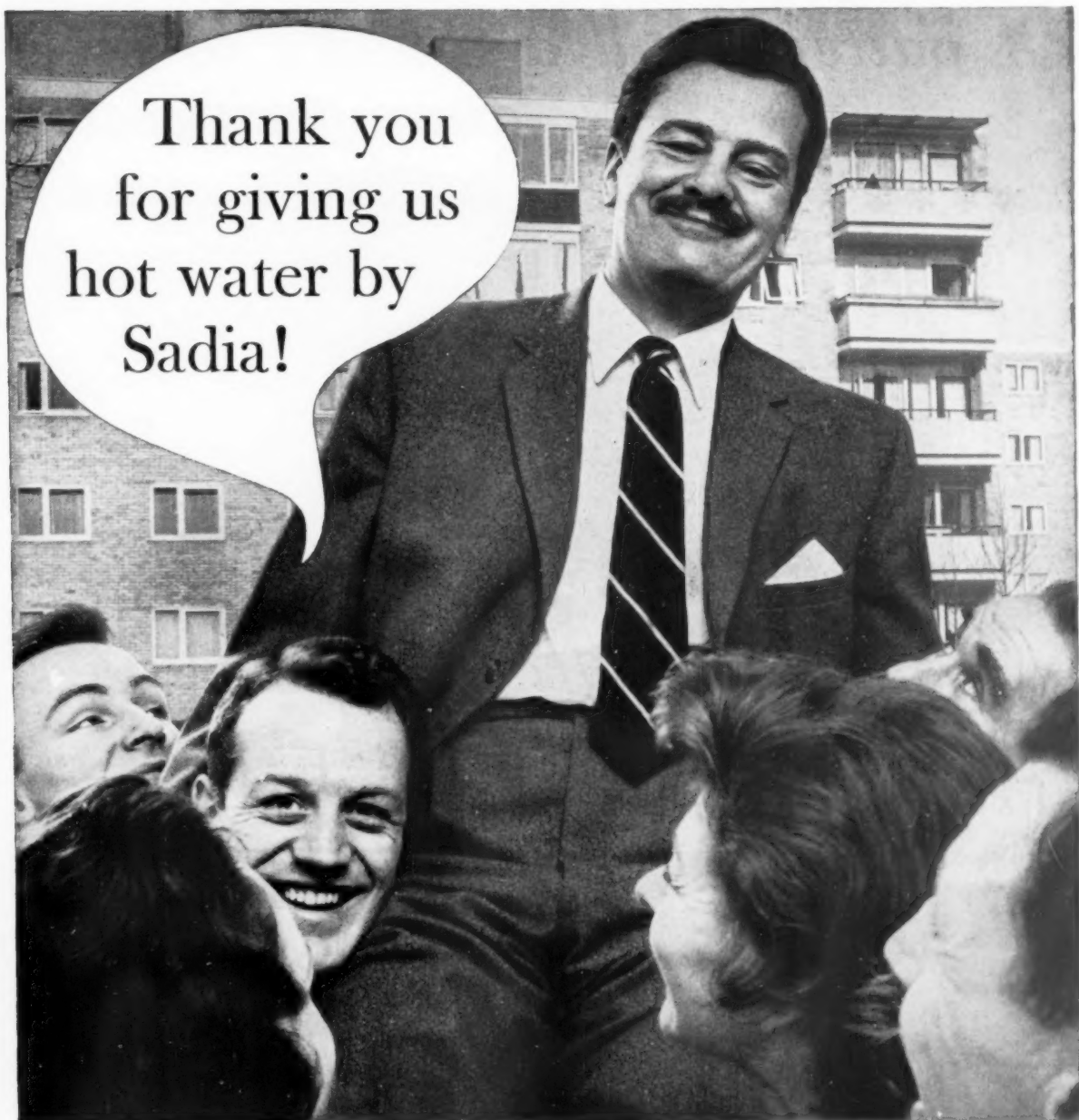
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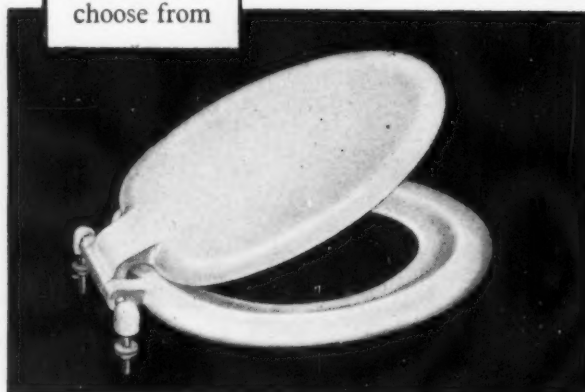
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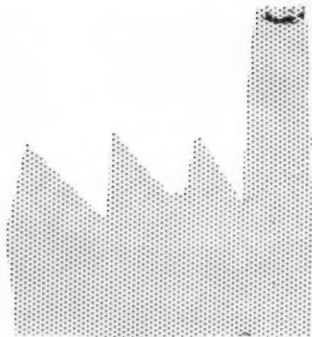


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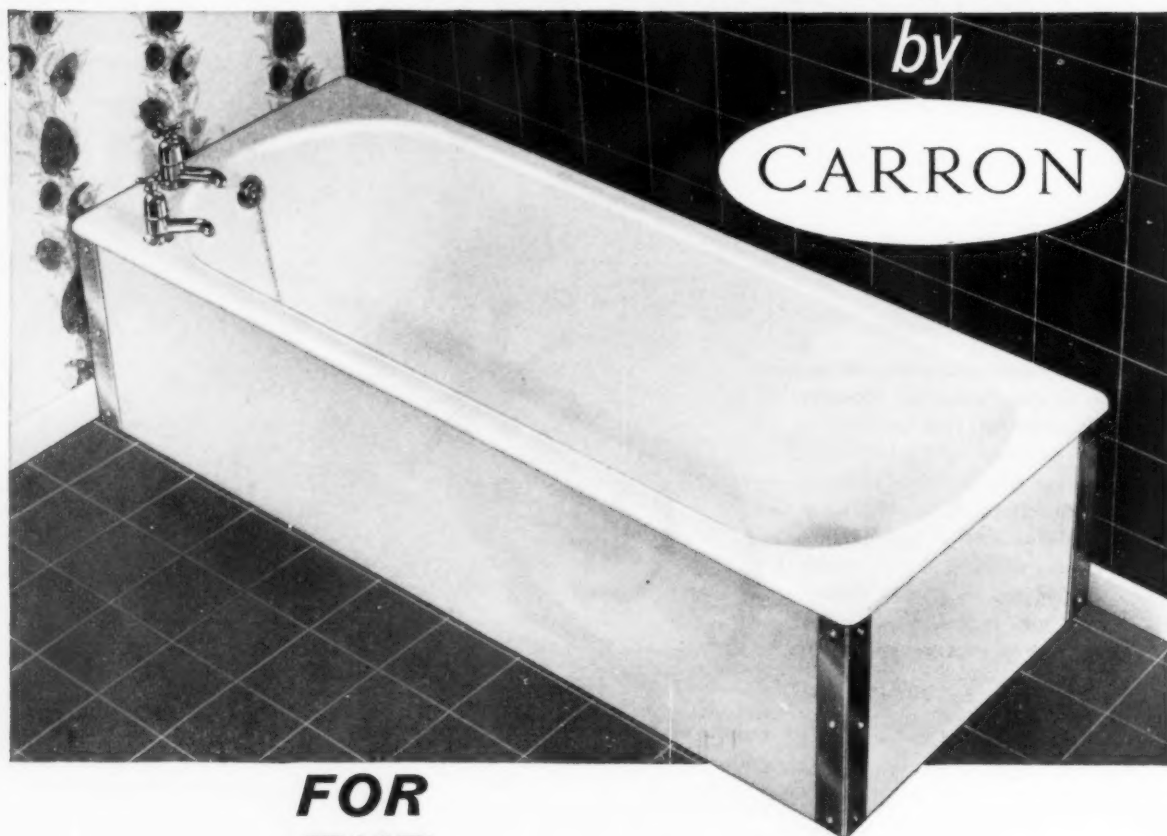
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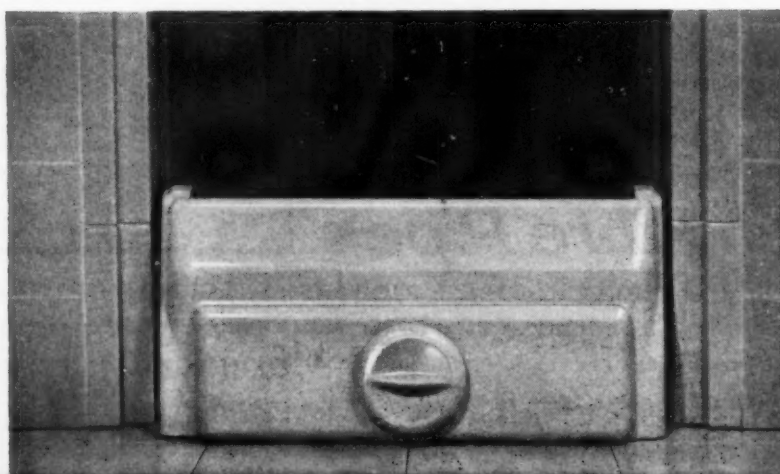
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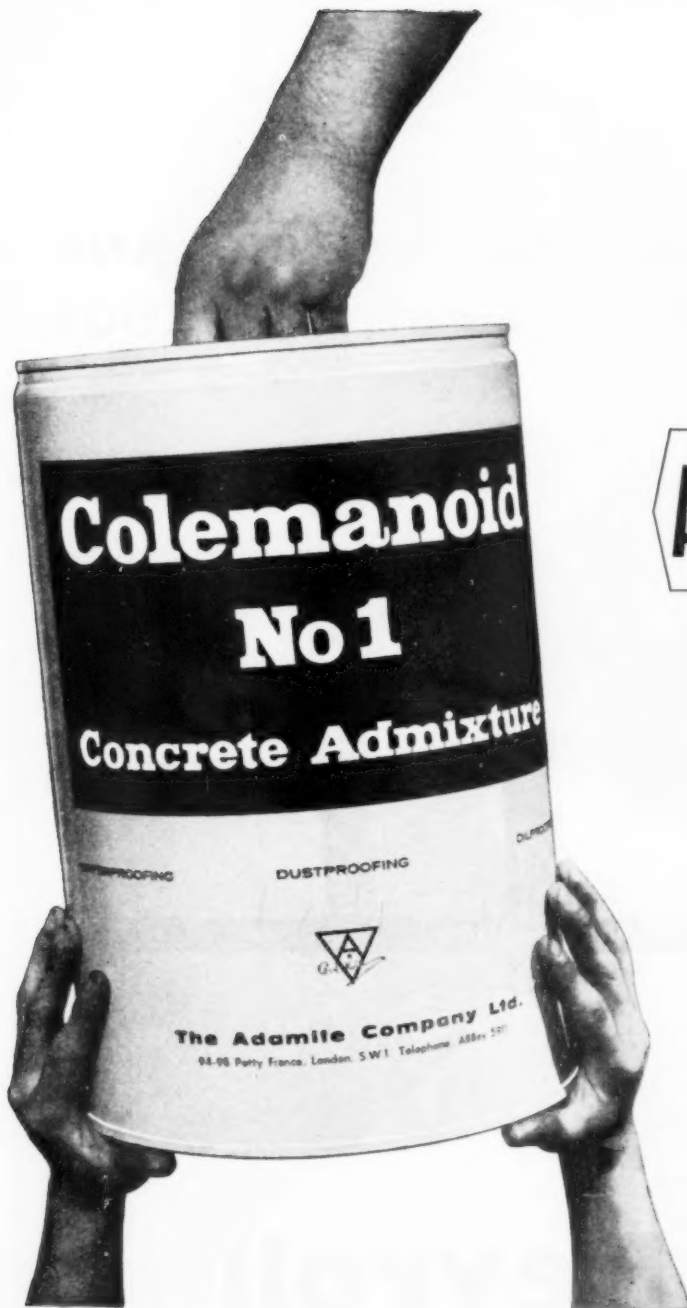
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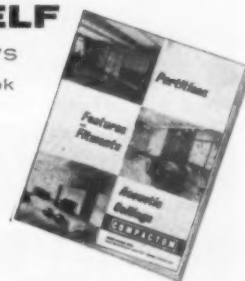
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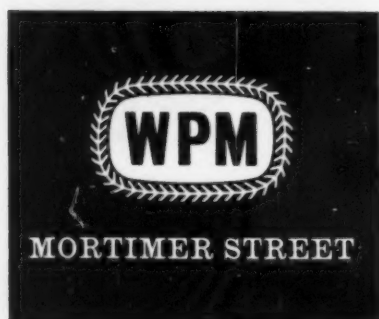
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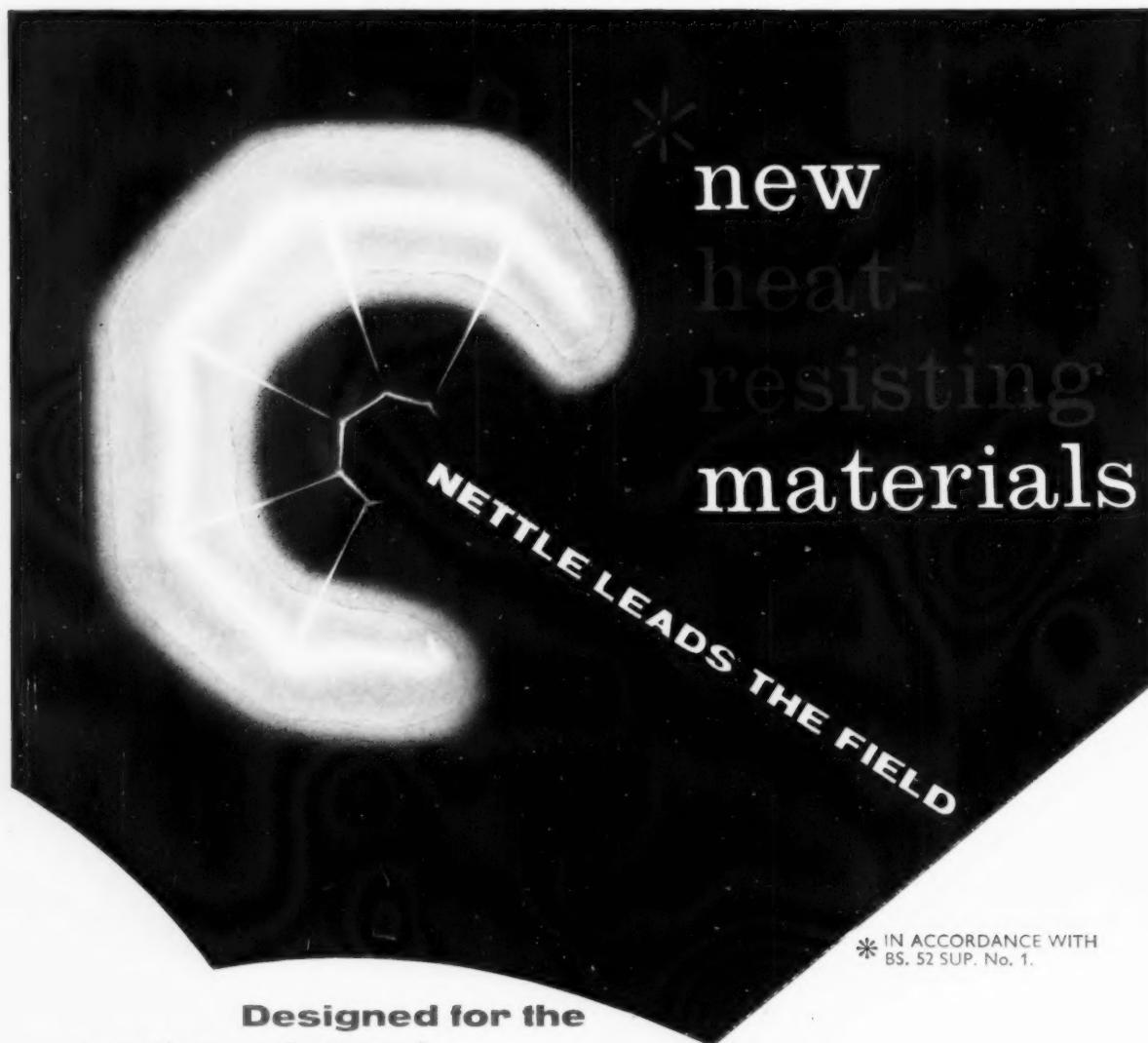


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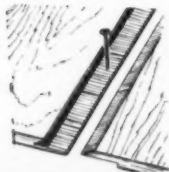
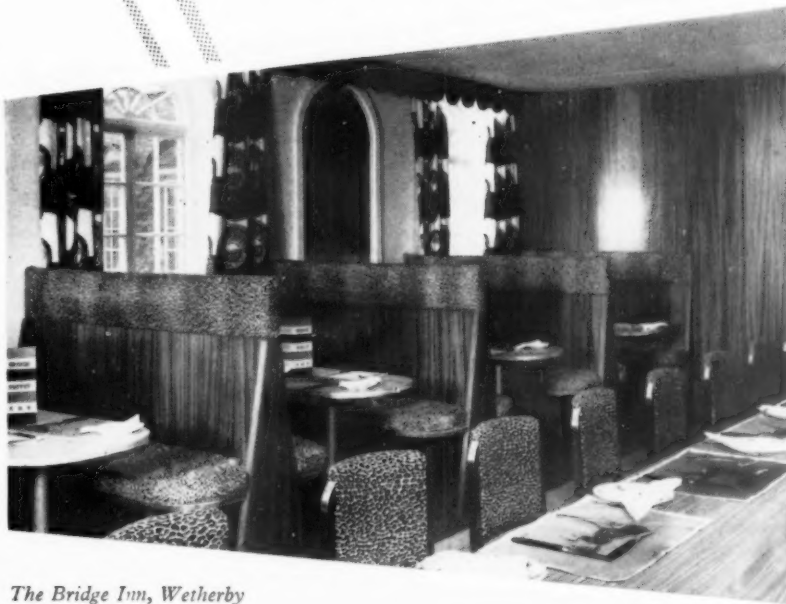
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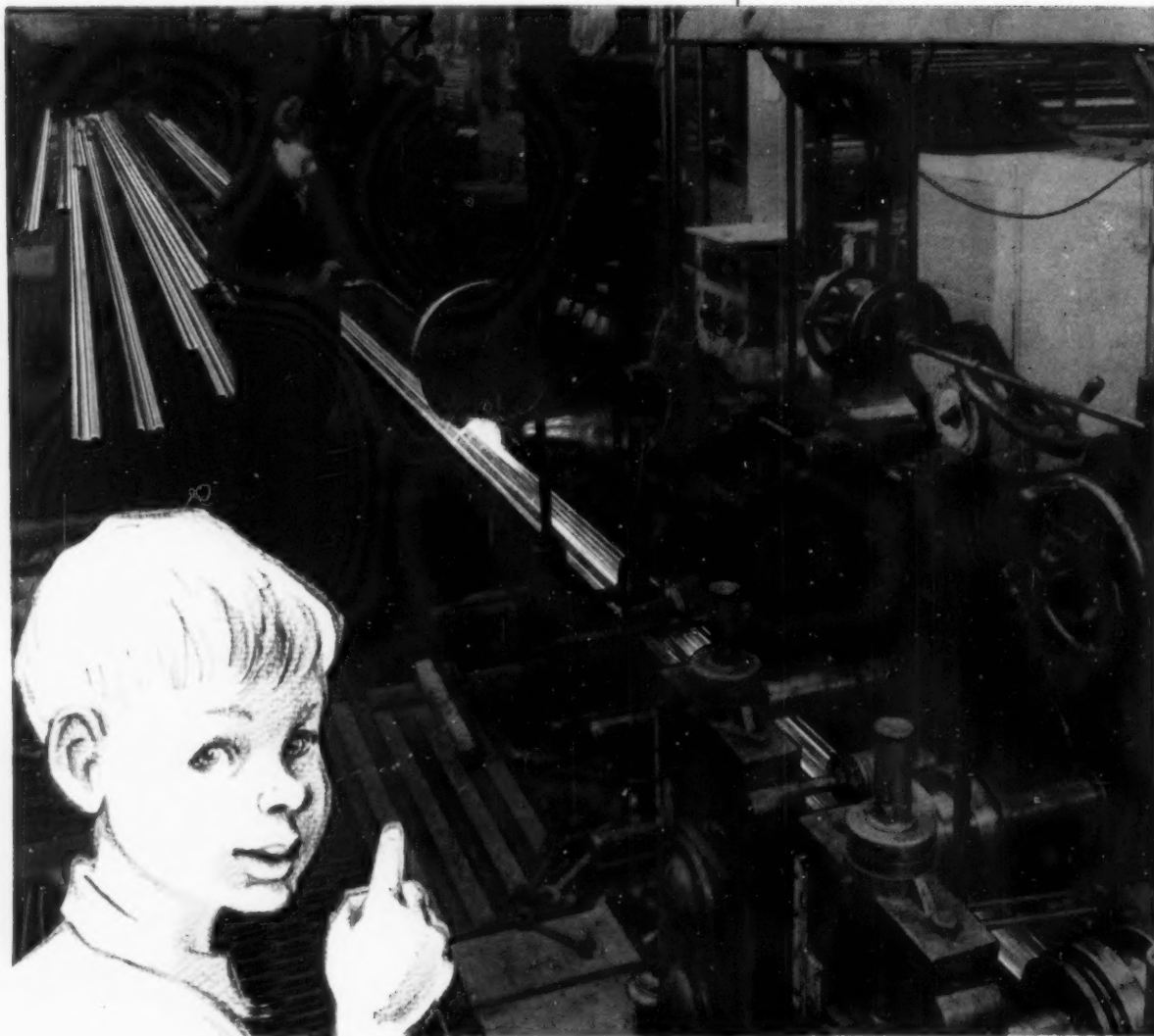
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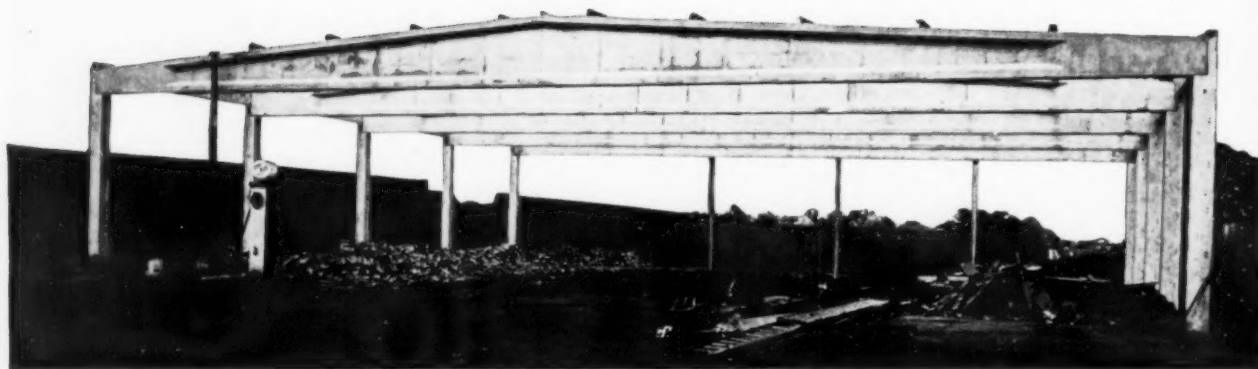
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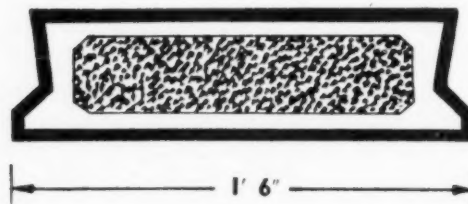
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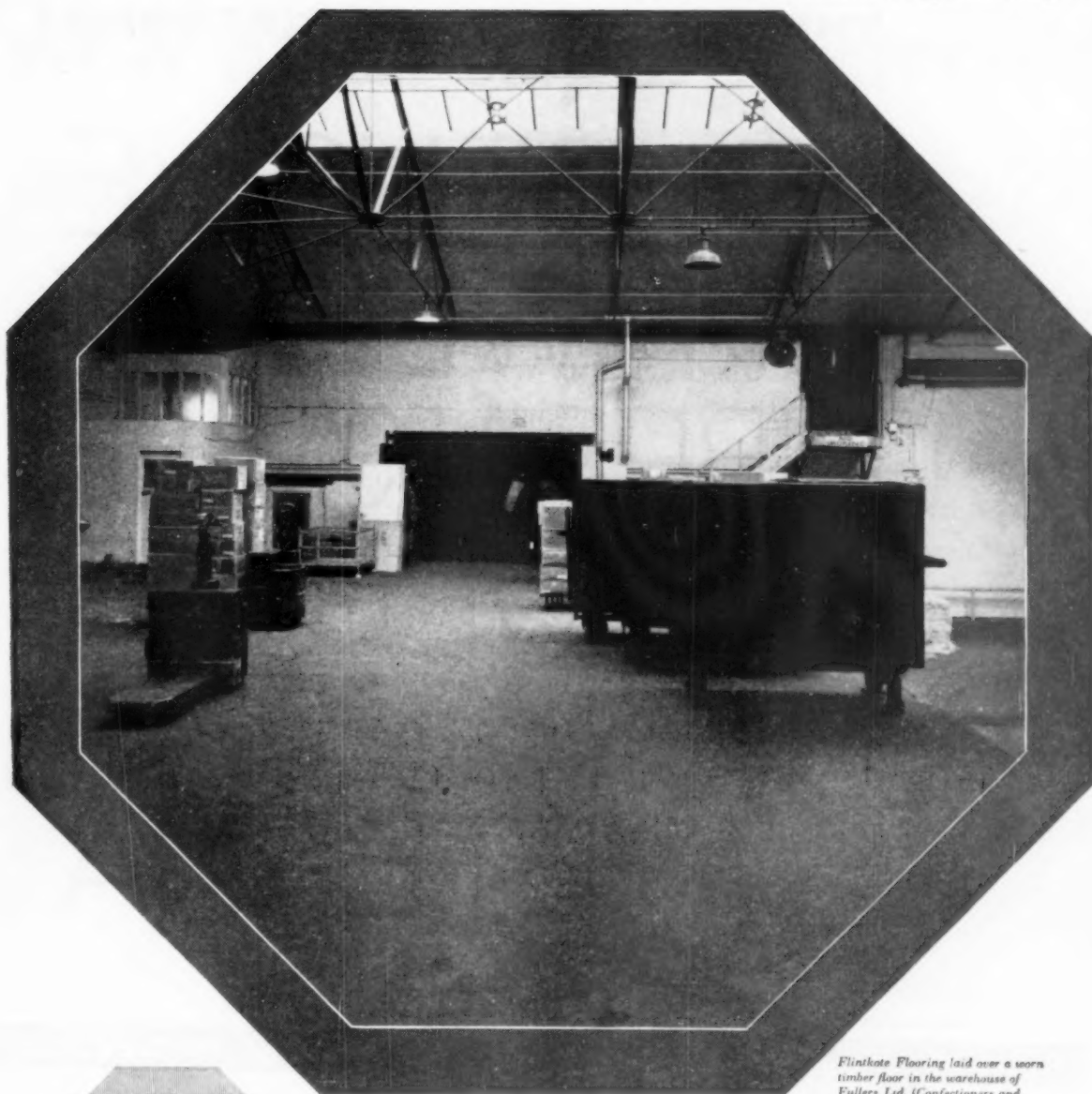
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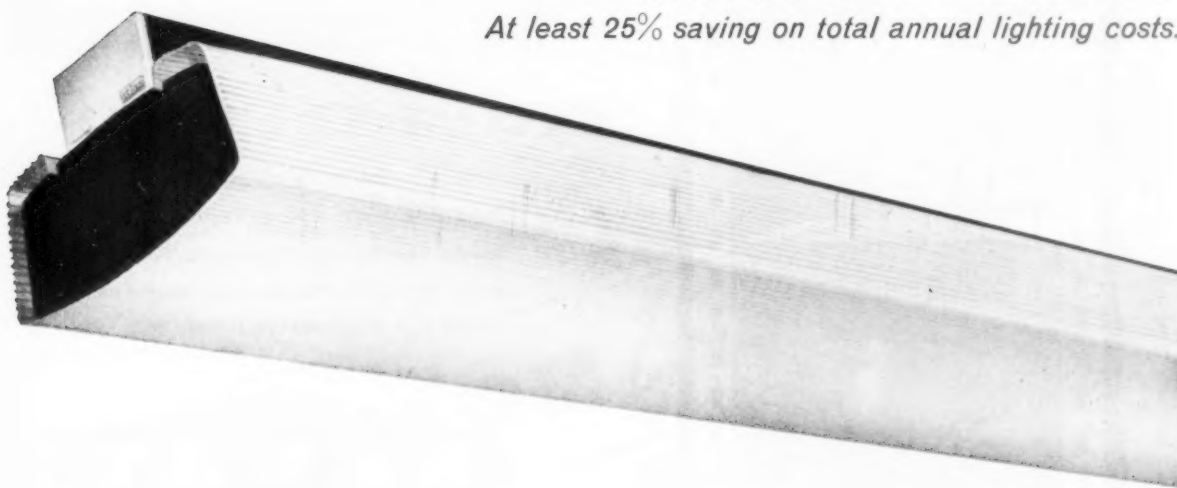
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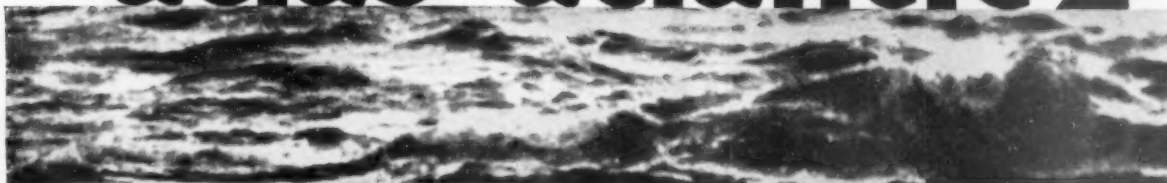
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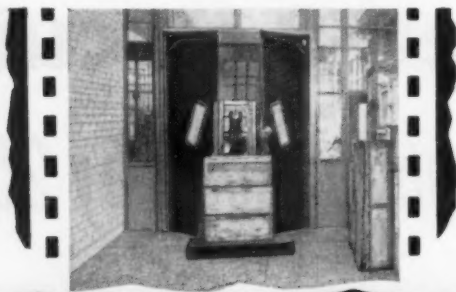
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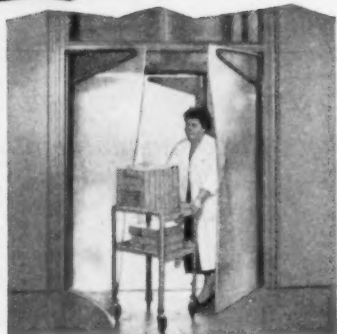


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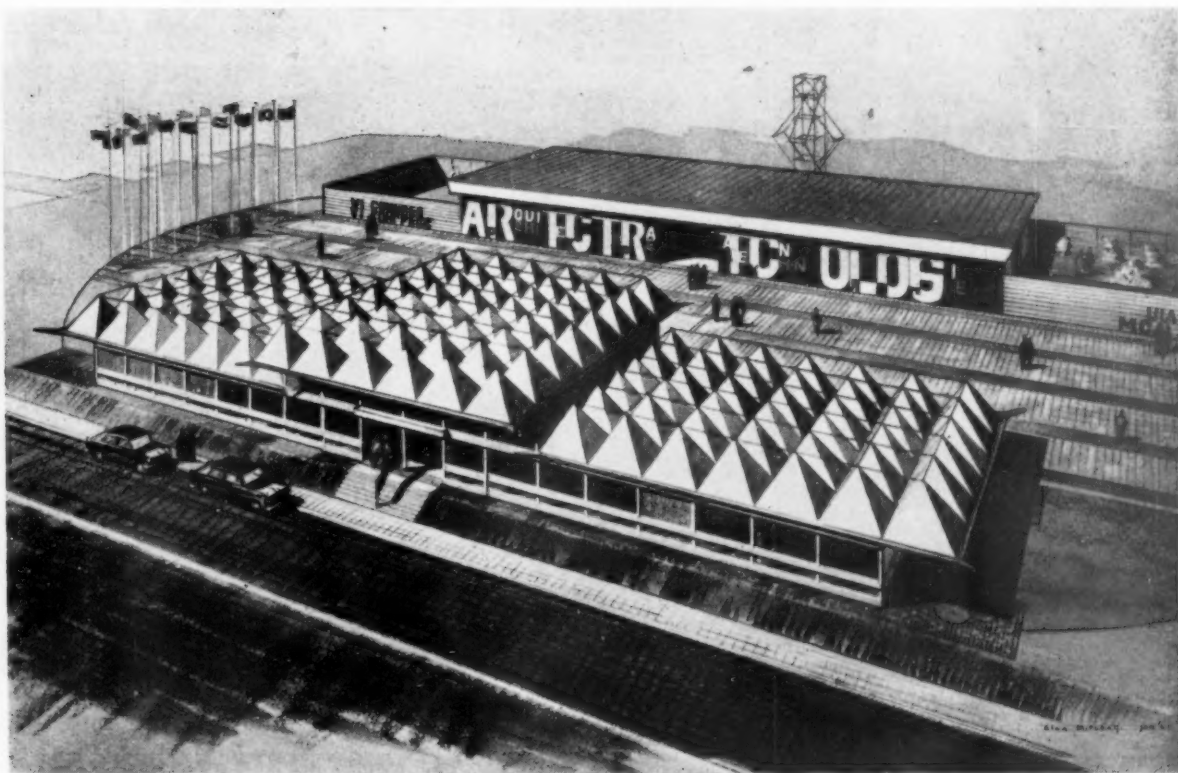
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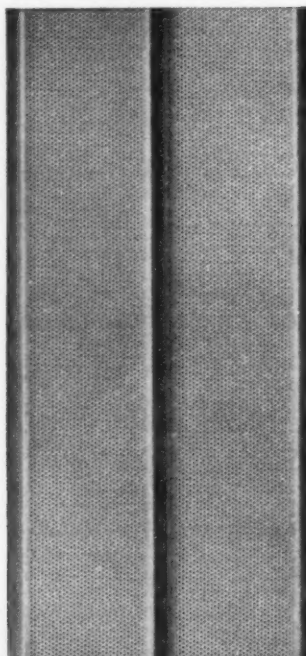
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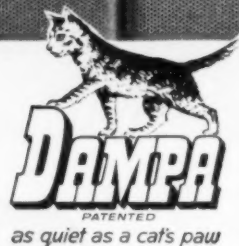


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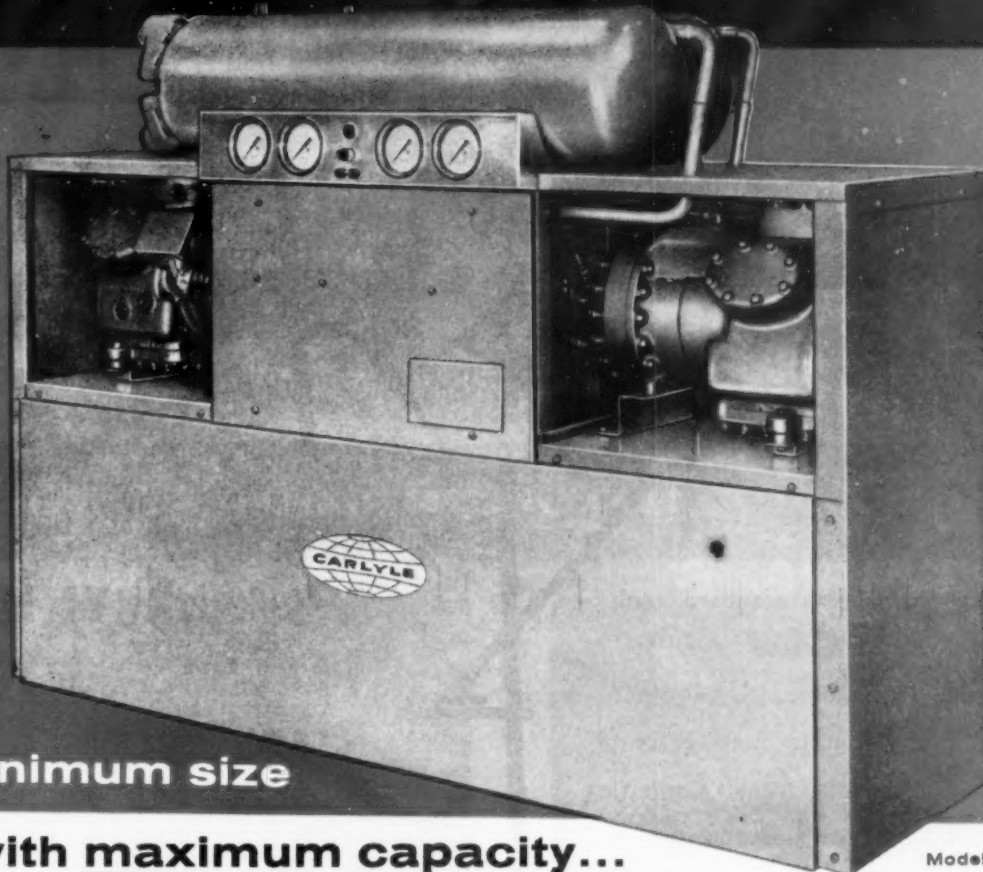
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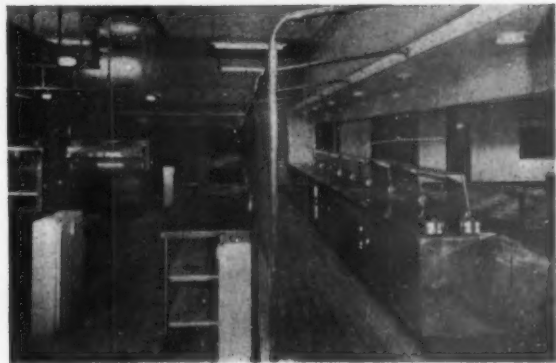
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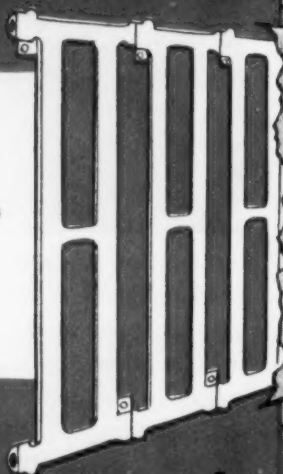
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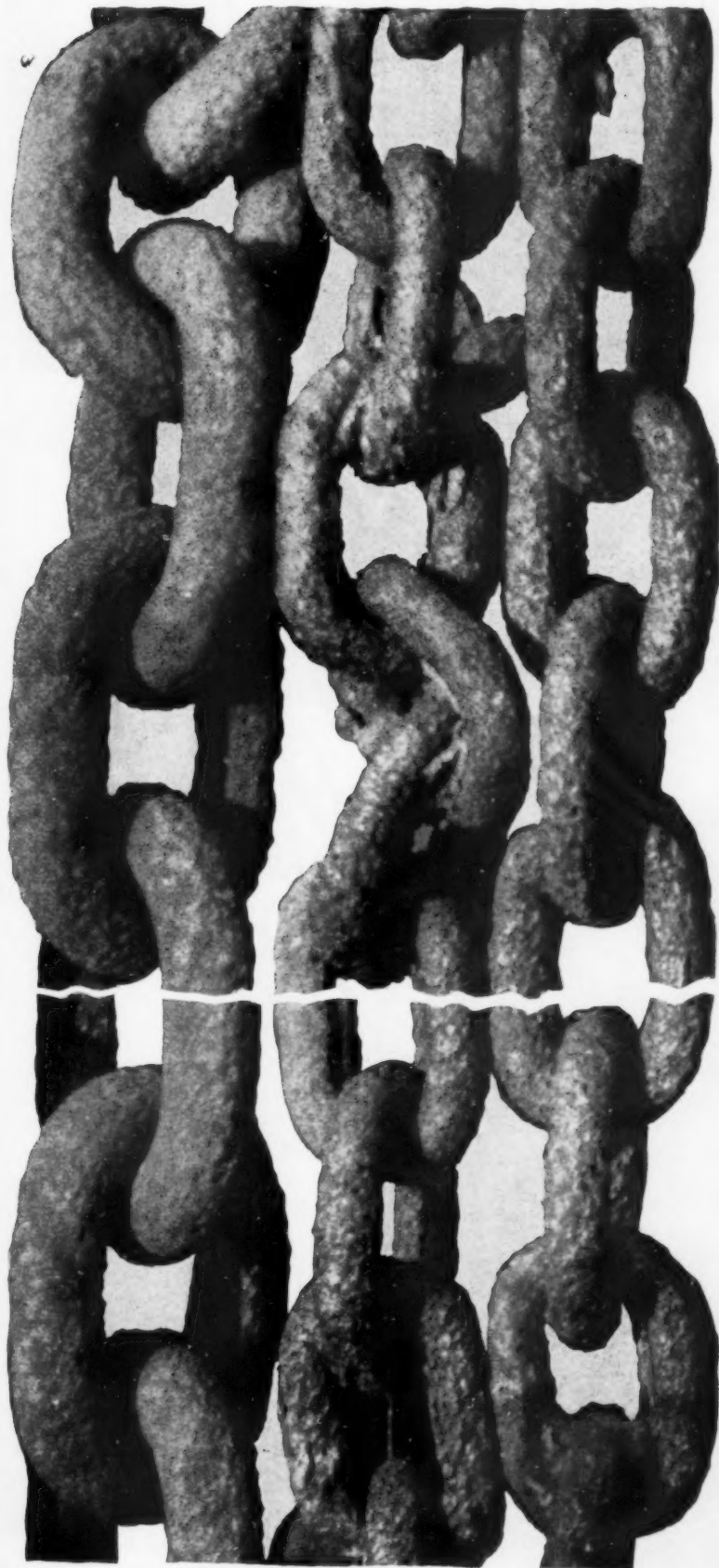
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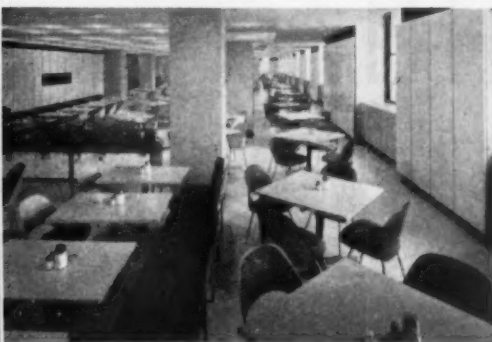
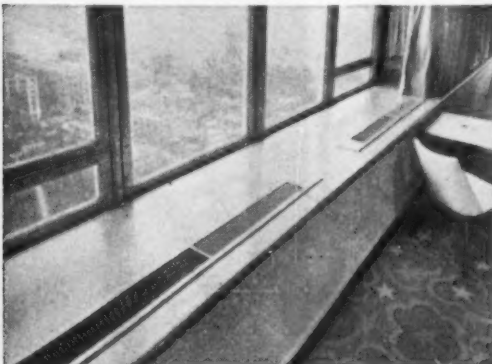
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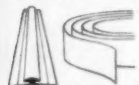
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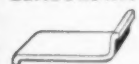
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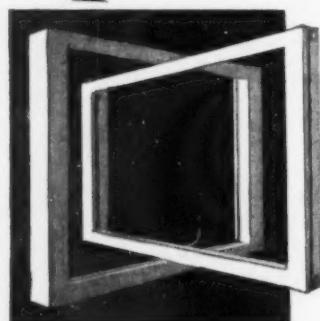
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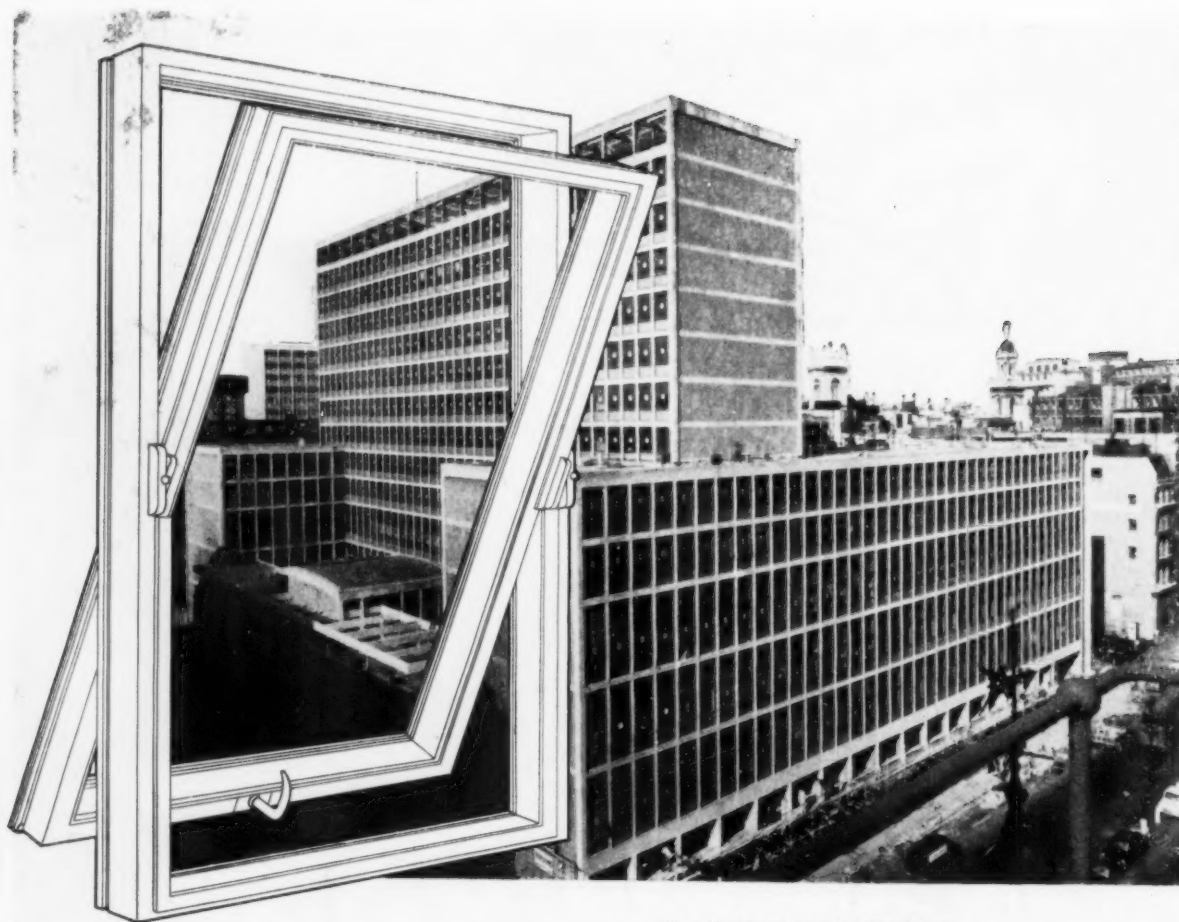
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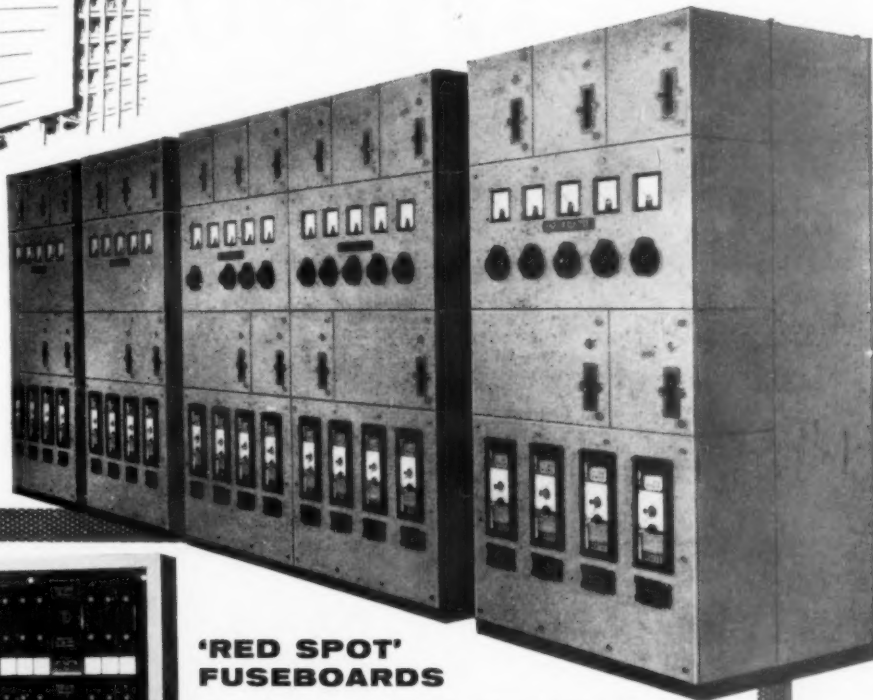
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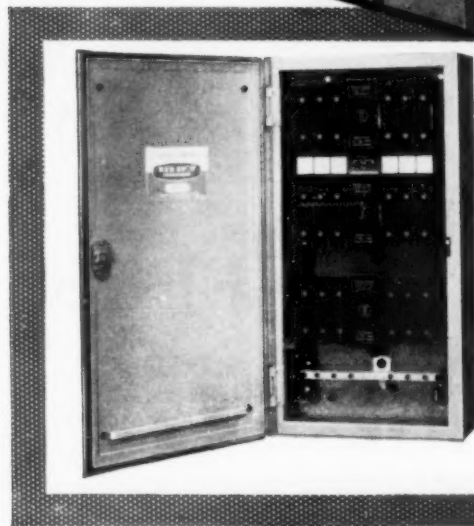
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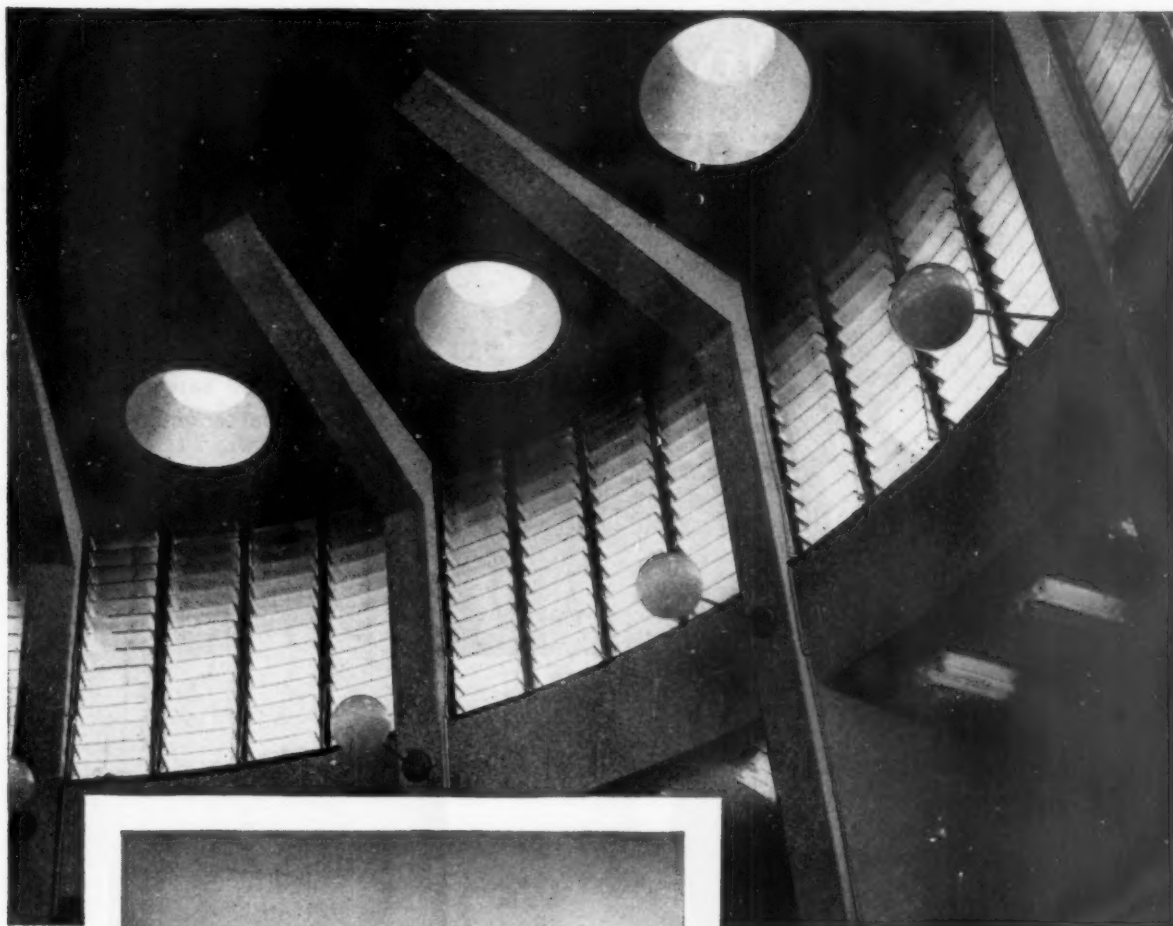
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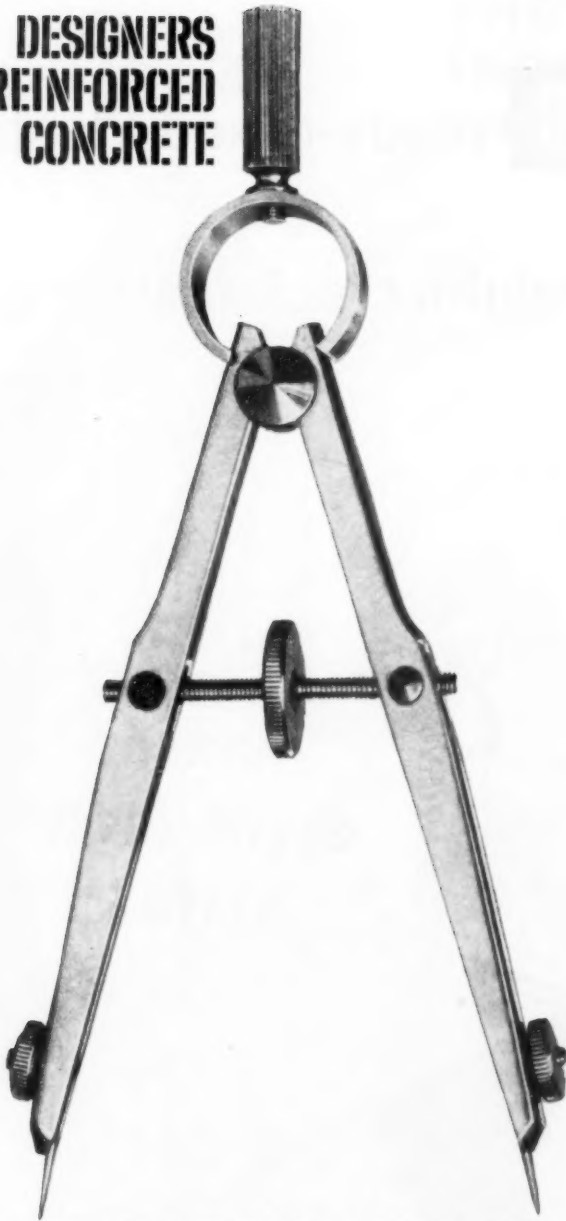


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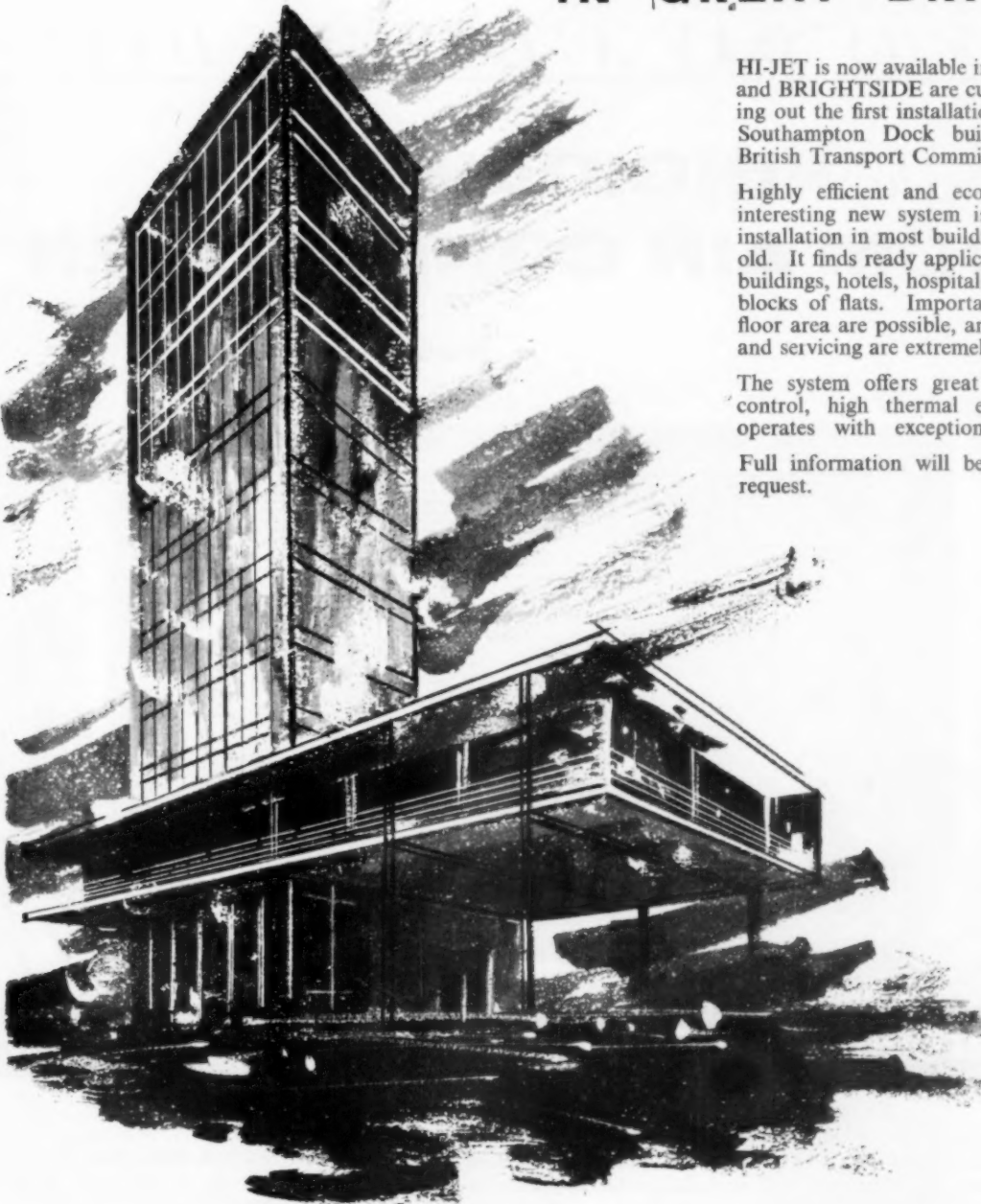
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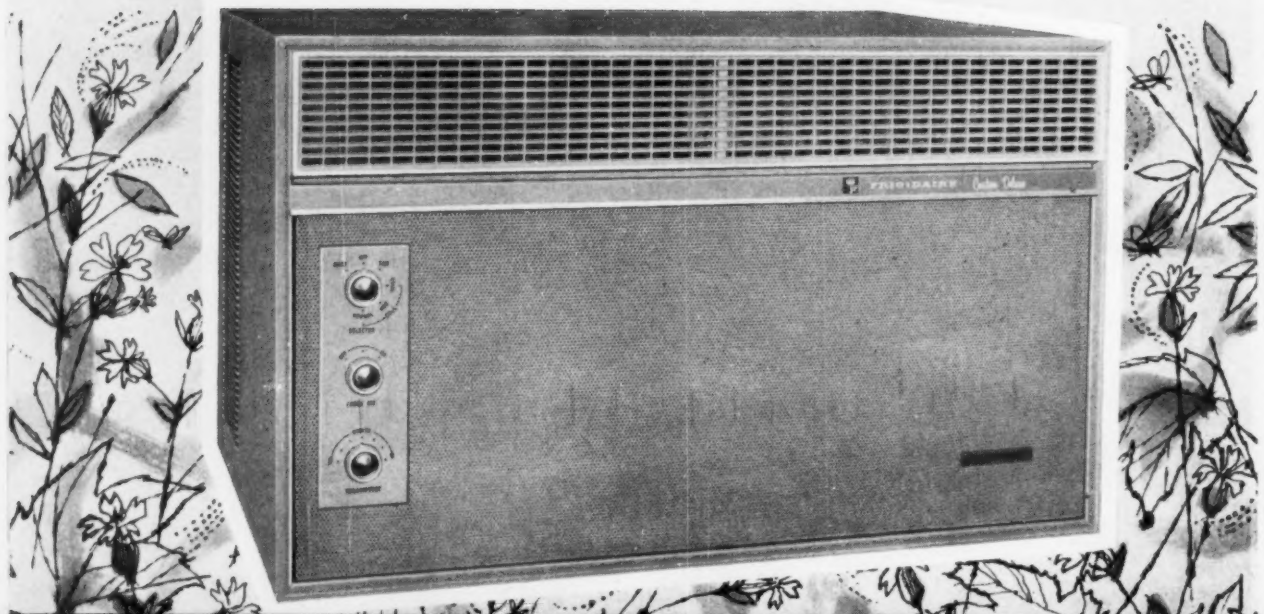
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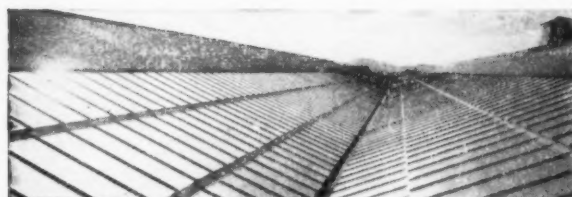
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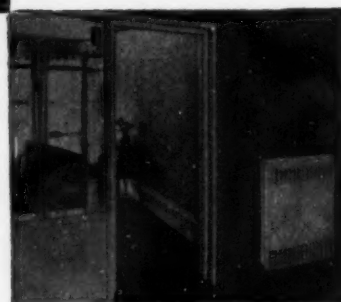
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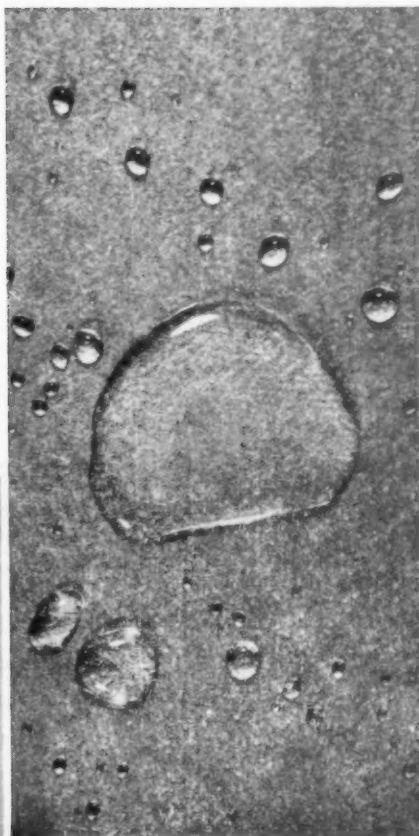
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The Architects' Journal

Vol. 134 No. 1 July 5, 1961

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NOT QUITE ARCHITECTURE

*Elementary, my dear
Whitbread!*

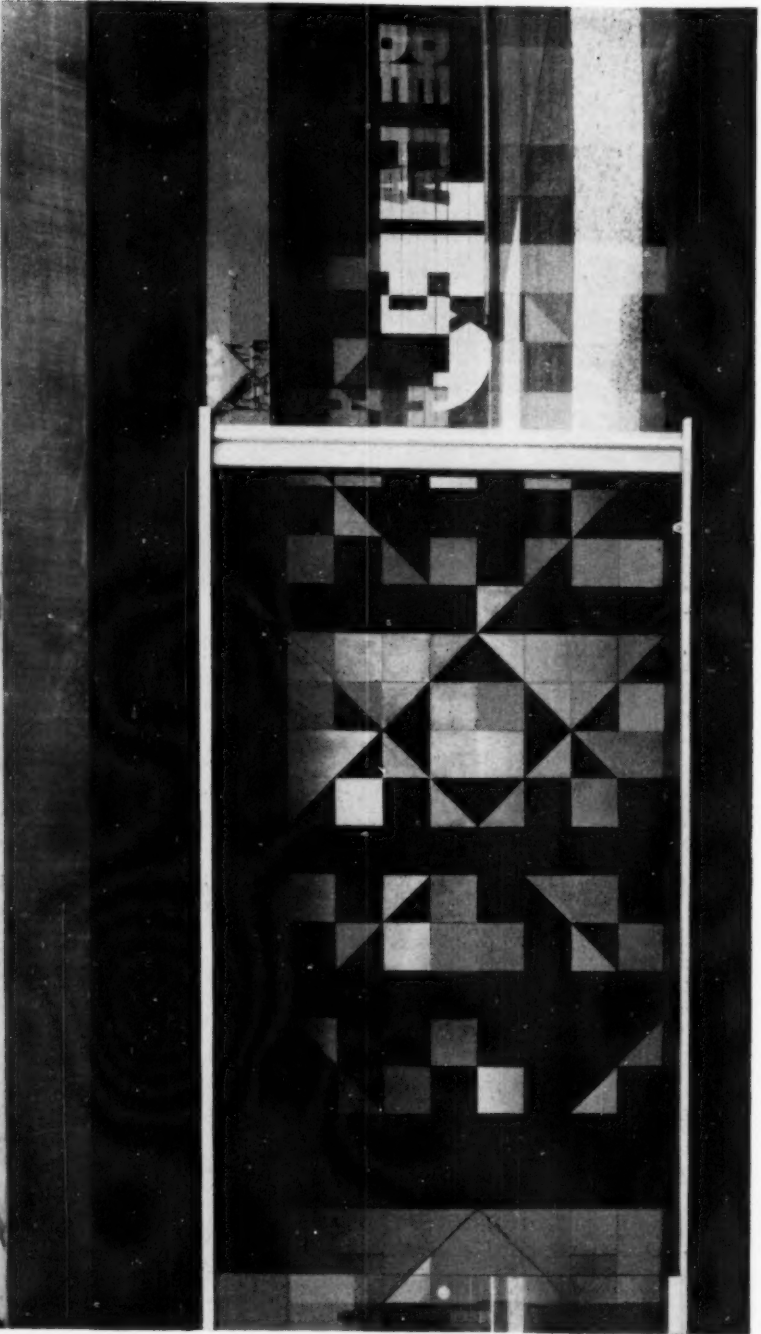
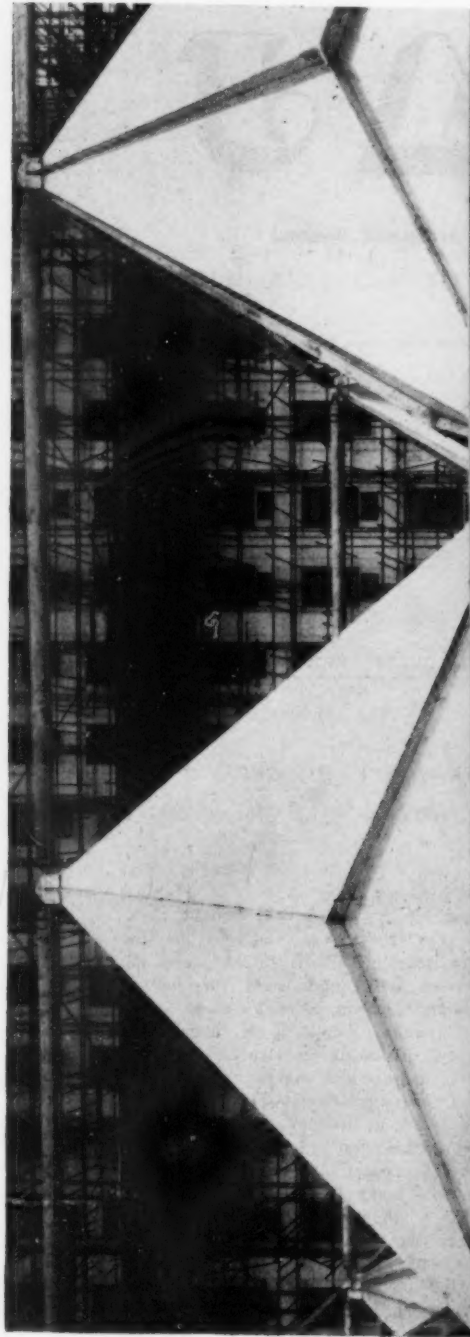
If you are a pub man with time to kill at Charing Cross, drop in at *The Sherlock Holmes* but enjoy your old London townscape on the way. Come from the station steps in Villiers Street, along the pedestrian walk, underneath the railway arches and keep on, crossing Craven Street, where lodged Stapleton of abominable memory, shadowing Sir Henry Baskerville. This is a pub that makes one feel that *The Architectural Review* pub competition, 1951, failed to fructify properly because the pub tradition expressed in modern terms is, perhaps, too elusive a quarry by itself. It's better to take an extraneous, possibly "literary" theme like Sherlock Holmes (see too *The Cruel Sea* in Hampstead) and interweave the pub tradition with it.

Sherlock Holmes, who returned doubly to life after a death struggle with Moriarty at the Reichenbach Falls, returned doubly to legend at Abbey House, Baker Street, during the Festival of Britain in 1951. This resourceful exhibition made such a hit that the Yanks had to have it for a while. Now it has been reassembled, *mutatis mutandis*, for Great Britain, at the old *Northumberland Arms*.

Whitbread's have done this well, thank God. As a true pub man I know how corny it could have been and as a true Sherlockian how incorrect. The big show-piece is Holmes's sitting-room at 221B, on full view through plate glass from the grill-room. All the familiar gear is there; the Persian slipper for Holmes's tobacco, the coal scuttle for his cigars, the pipe rack, the chemical table, the violin, even

IUA Congress Buildings

Theo Crosby and his team of designers have set themselves one principal objective: to integrate the arts—architecture, painting and sculpture. This was unquestionably something worth attempting, and suitable for a small group of temporary buildings designed for architects. In this one objective they have achieved a real measure of success. This is much to their credit, bearing in mind the limitations in cost and time. The danger inherent in this single objective is that, in achieving it, they may have been obliged to disregard other, also important objectives, more readily appreciated by the man in the street. There is regrettably an occasional disregard for function in its most practical and literal sense. This is, of course, the familiar conflict between function and vision, well illustrated by Edward Wright's lettering on the outside of the exhibition building. This has a fine abstract quality, but at the expense of legibility. Had it been easy to read, then the sense it conveyed would have cancelled its abstract values and integration with the architectural background might have been lost. (See page 12.)



The Admin building against an unbecoming background of Shell building, part of the exhibition building being reflected in the glass front

the hypodermic. I can find nothing missing. Downstairs is the stuffed head of a giant hound mounted in a glass case over the chimney piece, its muzzle effectively phosphorescent. The head is real, but contrary to rumour, no hound was foully done to death for this purpose. It died a natural death in the last century.

In the early 1920s the late Dean Inge prophesied that two characters of fiction to join the immortals would be Alice in Wonderland and Sherlock Holmes, and how right the not-so-gloomy dean turned out to be!

Now let me be pedantic about some of this so-called Holmes lore. Nowhere in the stories did Holmes ever use the phrase "Elementary, my dear Watson." "Elementary" and "My dear Watson" frequently, but never both together. Nowhere was he described as wearing a deerstalker, only a "close-fitting cloth cap." But the deerstalker often did appear in Sidney Paget's illustrations. Devotees will no doubt remember the drawing in the railway compartment in *Silver Blaze*, and in *The Boscombe Valley Mystery*. Similarly, the curved pipe could only be ascribed to William Gillette, the famous American actor who first played Holmes (New York, 1901) and made it part of the tradition.

You will see some of Sidney Paget's illustrations in the pub; also "stills" from some of the films. Too, there is a fine canine behind the scenes, a real bloodhound, Carlo, named after the bloodhound in the *Adventure of the Copper Beeches* and not, as mere tourists might suppose, after *The Hound of the Baskervilles*. That fearsome brute was a cross-breed purchased by the diabolical Stapleton at *Ross and Mangles* in the Fulham Road. The beast was taken down to Dartmoor and installed in its lair near the dreaded Grimpen mire, where it was to await its prey.

If I have a grouse it's as a Sherlockian. Whitbread's should have turned one of their houses near Baker Street into *The Sherlock Holmes*. However, there are many Holmesian connections with the district of Charing Cross, including the old Nevill's Turkish Baths (now a branch of a well-known bank) which stood on the opposite side of the alley leading to Charing Cross Arches. It was in there that we found Holmes and Watson at the beginning of the *Adventure of the Illustrious Client*. Holmes shows Watson a letter from Sir James Damery, which, as readers will recall, was the prelude to the dramatic tale concerning the engagement of Miss Violet de Merville to the odious Baron.

Two more small grouses. Firstly, they should remove the neon at the bottom of the stairs showing the way to the 221b showroom, a ghastly anachronism. Secondly, though bitter-drinkers can obtain Whitbread's Tankard, for the lighter brew only Charrington's ordinary bitter is now sold there. *The Sherlock Holmes* is one of the Whitbread houses that is included in the zoning deal between the two breweries, an arrangement which is not particularly to my liking.

HUMPHREY MORTON

The Editors

PUT AN END TO FASHION SHOWS

THE stage for the IUA Congress, which will be in full swing by the time this issue is published, has been expertly set, thanks to the efficiency of Goutran Goulden, the IUA Organising Committee and the RIBA secretariat, and to the brilliance of Theo Crosby.

Already, however, there are two lessons to be learnt. First, judging from the three official papers and the comments made upon them by the national delegations, the theme for future IUA congresses needs to be more precisely defined so that there can be a more useful exchange of information. Second, the Congress exhibition should be so closely related to the congress theme as to be a practical demonstration of it. A mere array of photographs of facades, with brief captions based on no common requirements for the information provided is a waste of time, of money, and of materials. It conveys to the general public the impression that architecture is a superficial art concerned only with shapes, and it tempts architects to indulge in their professional sin: that of creating "architects' architecture": the slick copying and amending of fashionable detail.

Architecture can never be properly exhibited solely by photographs of exteriors. Plans, sections and exterior and interior views, with a factual commentary, are the minimum for serious appraisal. The ephemeral exhibition technique is suitable only for presenting simple themes. The IUA should choose its subject accordingly, or make use of more modern techniques to give its members something worth studying.

The IUA exhibition and that of the RIBA and the Arts Council now on view in St. James' Square are worthy examples of their kind, but the type is inadequate. Let this be the end of them.

TACKLING THE LAND RACKET

The proposal in the Labour Party Policy Statement published last week to set up a Land Commission to buy the freehold of all building land, and lease it to developers at a rent which would bring back a fair share of its enhanced value to the community, seems to be an ingeniously simple way of ending the fantastic speculation in land values which now disgraces our economy. "Deceptively simple," *The Times* leader called it, while recognising that the proposal "broaches an area of legislation that urgently requires reform."

If its simplicity is indeed deceptive, this will soon be revealed by thorough discussion of the scheme by all who are concerned with town and country planning.

The soaring price of building land is making nonsense of town and country planning, since local authorities cannot

afford to buy the very sites in and around the centres of their cities which call most loudly for comprehensive development, while the family who want to build a modest house for themselves on a small plot are held up to ransom. All reasonable people consequently feel that something has got to be done. The virtue of the Labour Party proposal seems to be that it puts alongside planning restrictions, planned access to land where building or rebuilding ought to take place, and the return to the community of the profits resulting from the growth of the community.



THEO AND . . .

The first IUA Congress laurels must go to Theo Crosby. Elsewhere in this issue his work is praised and duly torn to pieces (and no doubt quite correctly), but mellow old ASTRAGAL cannot resist congratulating him on a performance of near genius. Working part-time (he is technical editor of that popular glossy, *Architectural Design*) he has not only designed two exhibition buildings and the IUA architectural exhibition inside one of them; he has also persuaded manufacturers to give materials and equipment, and has edited the long exhibition catalogue. The result is provocative and exciting—a superb example of enterprise and masterly aesthetic judgement. He has, of course, been extremely well supported by the artists and manufacturers concerned in these projects.

. . . THEORIES

Crosby's IUA catalogue contains interesting statements by Peter Smithson and Cleeve Barr. ASTRAGAL read the former with the caution he often feels for this maestro's articles, but ended in full agreement. "We are still always seeking to distort the natural processes of machine production as we now have it, to try and produce the same order of individuality and identity that were the natural products of handcraft techniques," he writes, and "an architecture . . . must use similar techniques; largeness of organisational scale . . . and the acceptance of the anonymous." My fatted calf is due for killing.

Cleeve Barr's brief article is interesting because it hints at what goes on in the mind of the chief architect of MOHLG. He is clearly having thoughts about designing a whole range of heavy building components which will provide both flexibility in planning as well as variety in architectural design. "Factory-made precast-concrete systems of construction, using heavy components, are likely to be the most economic methods of building." And he mentions Russia which, by exploiting this method has increased housing production by 20 per cent with the same labour force.

One more point about the exhibition. It consists of pictures of 350 buildings from all over the world. Only one—the Seagram building—is captioned in the catalogue "one of the great buildings of our time." What happened to all the others?

TOP POPS

The RIBA-Arts Council exhibition, *Architecture Today*, on view in St. James's Square until July 29 is truly elegant. Designed by Trevor Dannatt and Alan Irvine it consists of plain white screens supported on hexagonal

timber posts, each screen containing one or two nicely disposed photographs and a too-brief caption.

The selectors—Brett, Casson, Killick, Richards and John Piper—have made what seems, on casual inspection, a reasonable selection of the 50 best buildings put up in the last six years (some were designed years before, but never mind). Only one building seems unworthy, and this is compensated for by a charming folly: a house at Bromley in the Japanese manner by Howell and Killick. The photographs are good (though there are hardly any plans) and there is a neat square catalogue (designer Dennis Bailey) giving brief facts. Solemn example: "Planning and design of this colliery has been based on an analysis of the functions of this industrial installation." Just fancy!

The weakness of the exhibition is the same as the IUA's. It does not state clearly what it is about. It is not technical enough for architects and not very instructive for the general public. You can learn only about current fashion—a word which, like "style" was once considered naughty, though J. M. Richards says in his provocative introductory notes that it is now respectable and suggests that only "applied decoration" is beyond the pale. Perhaps Edward Wright's applied lettering on the IUA buildings will break down this last taboo.

ASTRAGAL would have been content with fewer buildings accompanied by penetrating criticisms from the selectors pointing out why, in the words of J. M. Richards, they are "closest to the main, forward-moving stream of architectural development . . . the most vital aesthetically and functionally."

THE WRITER SPEAKS

Mumford Night at the RIBA was a disturbing affair. An all-star bill included Denys Lasdun, who received the London Bronze Medal with a charming and just-sufficiently modest speech, and the Gold Medallist himself was in excellent form. Few people over here know what an effective speaker he can be. (You would certainly not suspect it if you simply read his rather ponderously-written speech.) Yet very few bothered to find out; the attendance was about a



This is one of the sculpture courts of the IUA exhibition building. Astragal would have liked to have got nearer to these pieces but didn't dare walk on the beautifully raked gravel. Courage, mes enfants!

third of what we expect at a Gold Medal Ceremony, and Mumford was treated to the discourteous spectacle of a lot of empty seats. It was the youngsters who were missing. Those who were there had obviously been brought by their dads. I refrain from reading the missing youths a stiff pi-jaw on their hostility or genuine indifference, because the trouble must lie with the teachers, most of whom were also conspicuously absent.

•

Mumford's words were sufficiently urgent and stirring to have roused the whole architectural profession, indeed, all civilised men to his support. His theme, summarised in last week's JOURNAL, is the need for mankind to learn to control the machine, and that includes the nuclear machine, before the human figure shrinks to something "less and less than life-size." It is odd that the young architects who march to Aldermaston have not, as yet, noticed Mumford.

A TILE UNFOLDED

"There can hardly be an architect alive who is not aware of the detrimental effect on walls of ivy," wrote Patience Gray in the June *Architectural Review*. Is this fair? We need every plant we can get—and the cheaper the better—to cover most buildings designed today. Trees are an essential front-line defence, the main unifying element in the landscape, in fact, but an overcoat or even a vest of creeper should help provide defence in depth.

Ruins are often clad by ivy, but are they caused by it? Of course ivy roots penetrated the old lime mortars, but do they affect cement mortars? Surely the main effect of ivy is to conceal defects and delay repointing. A colleague who recently demolished a pair of 19th century cottages tells me that one of them was ivy-clad and ivy-hatted. Except where the rain had saturated the walls, because the slates above had been deliberately damaged by hooligans, the ivy had not damaged the brickwork, and the roof was sound. By contrast the other house was a wreck.

STATUS QUO SIMBEL

Egypt wants to save King Rameses II's rock temple at Abu Simbel in Nubia but some people resent her attempts to raise the necessary funds. In support of this antagonism (expressed in a letter to *The Times*, June 26) we are treated to value judgments, quotations, and grouses calculated to prove the low artistic value of these monuments.

•

It is, of course, nonsense to argue on this level but don't forget that in the last century anything Egyptian was barbaric until Queen Nefertete later introduced a veritable Egyptomania. Today Ramesside art may be ignored; tomorrow we may see it enshrined.

MODERN VILLAGE

When M. Frugès commissioned Le Corbusier to build Pessac there was high expectation in the air. This was not

so when Francis Dashwood, eldest son of the Premier Baronet of Great Britain, asked that neo-Georgian expert (and I do mean expert) J. Fletcher Watson to design a non-neo-Georgian (far from it) model village of some 500 dwellings on 50 acres in the hills of Buckinghamshire (for £2m). The aim is to put "building in Britain ahead of continental housing developments." A scheme of this kind and the enthusiasm of its sponsor ought to awaken anybody's flagging spirits, but the published designs—exclusive to *Ideal Home*—so far, alas, do not. They have about them the same bright derivative and soulless character which today can be found in any moderately progressive developer's brochure; the same pattern-mongering, the same fussiness and prettiness, the same versatility.

•

Such elan deserves a better fate. ASTRAGAL hopes that when the village is built it will be less gimmicky—and more successful than the work of Mr. Dashwood's famous ancestor Field Marshall Potemkin, whose village improvements with subsequent inspections became a byword for inadequacy in the Russia of Catherine the Great.

STOP PRESS

As this column goes to press ASTRAGAL learns that Robert H. Matthew has been unanimously elected President of the IUA at last week's meeting of the IUA Assembly. The Vice-Presidents will be Yang Ting-Pao (China) and Ramon Corona Martin (Mexico).

ASTRAGAL

NEWS

OXFORD ROADS

Unanimity in the House of Lords

With a unanimity unseen in the House of Lords for years, the recommendation of Sir Frederick Armer that Oxford should have a relief road through Christ Church Meadows, was condemned last week. Lord Samuel said no one would have dreamt of appointing Sir Frederick as an arbitrator because he knew "nothing whatever about the subject, so far as one knew." Lord Lucas of Chilworth called the report "a most peculiar document because after hearing evidence from every source the inspector recommended a plan which was advocated only by its sponsors and was opposed by everybody who gave evidence." He read out a letter from Lord Salisbury, who wrote: "I still do not see why it should not be the best plan to complete the outer ring road and see how much traffic that draws off from the centre of Oxford before proceeding to measures which are bound to affront large sections of opinion in the city and outside." Lord Attlee had been asked by the Vice-Chancellor of the University to say the Hebdomadal Council did not feel that due weight had been given to the University's evidence.

Viscount Harcourt, chairman of the Oxford Preservation Trust (which shows how useful it is to have a Lord on your Council), pointed out that the trust has engaged Sir William Holford, who had been at first strongly inclined towards the Meadow road, "but his final recommendation was equally strongly against a Meadow road . . . the direct result of his examination of the St. Ebbe's problem and the whole problem of the development of Oxford." Oxford was seething with changes, Lord Harcourt went on and "Frankly, the Meadow road is obsolete long before it is built."

Viscount Esher wished he had as much vitality as Earl Russell, and he would sit in the middle of Carfax until someone made a real effort "to remove the menace of the motor car from the life of the country." Lord Brand criticised the University for having sold out the property in the Corn Market to developers of enormous shops, but said the Armer recommendation added to the dangers of the Corn Market by making it easier for people to go there. Lord Conesford called the scheme "a mortal blow to town planning"; Lord Molson called for a university precinct; Lord Kilbracken asked, "Are we all fools, or is Sir Frederick Armer?" and the Earl of Longford said he was sure everyone would wish to join in paying tribute to the energy and public spirit shown by Sir Frederick but it could fairly be said that they were all opposed to the report.

Lord Hailsham, winding up, said the debate would help the Minister to come to a decision, and as Mr. Brooke was listening to part of the debate, one hopes it may.

den Bridge, the lowest on the river—they hope.

Below deck are a diesel generator and batteries designed to give electricity for the duration of the concerts. Lights and amplifiers will be controlled from one of the two revolving deck houses which double as piano stores and treble as stands for soloists. Specially designed chairs will be provided for the 60 musicians.

T. M. P. BENDIXSON

MOHLG

Chief planner appointed

Mr. J. R. James, OBE, BA, FRGS, Deputy Chief Planner of the Ministry of Housing & Local Government, has been appointed Chief Planner with effect from June 26, 1961.

TECHNICAL LITERATURE

"Information Day" at the RIBA

An exhibition and symposium being organised by Barbour Index Ltd. at the RIBA on July 20, is designed to put forward facts and ideas which will help to raise the standards of content and presentation in technical catalogues and literature.

The exhibition will include entries from architects and assistants in the current Barbour Index Competition (AJ, 26.1.61), and in the afternoon architects and manufacturers will speak in a symposium on the subject.

PRISON DESIGN

International conference

The first international conference to be held on the subject of the design of penal and correctional institutions opens at the AA next Monday, July 10, when forty representatives from 14 countries will be discussing questions such as the impact of current penal policies on prison architecture, current research in prison architecture, aspects of security, the needs of a modern prison system and the detailed design of cell blocks. There will also be visits to selected institutions.

The needs of a modern prison system are the subject of an open meeting held at the Home Office, and all seats for this are already taken. That evening the delegates will be entertained to sherry by the Howard League for Penal Reform.

MUSIC BARGE

For Thames-side concerts

Designing a river barge proved difficult even for an architect as talented as Louis Kahn. The barge, now building at Dartford, is a floating stage for the American Wind Symphony Orchestra. Free, Thames-side concerts will be given from it at eleven moorings between Greenwich and Oxford. Kahn came here from Philadelphia earlier

in the year for a quick conference with the Fairmile Marine Construction Company. He first produced sketches of a main hull, to be extended by two pontoons that could be swung on deck to enable the craft to be towed through narrow locks. Marine architects checked Archimedean slide rules and said there was too much buoyancy in the pontoons for them to float level with the main barge. Hinged, cantilevered platforms were installed instead.

The barge is 118 ft. long and opens from 16 ft. 6 in. to 32 ft. wide. With the cantilevers winched vertical, the lighting masts lowered and the balsa wood sound canopy collapsed she will just pass Clifton Hamp-

DIARY

AA Prizegiving and opening of Exhibition of School Work, at 4.30.

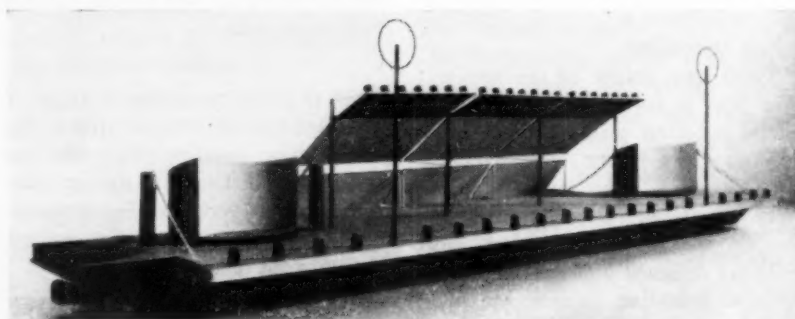
JULY 5

A Regional plan for industrial dispersal and overspill: TCPA Joint Regional Conference, Friends Meeting House, Bull Street, Birmingham, 10.45 a.m.

JULY 5

The art of the surveyor in practice: Chartered Surveyors' Annual Conference, Leicester University.

JULY 4-8



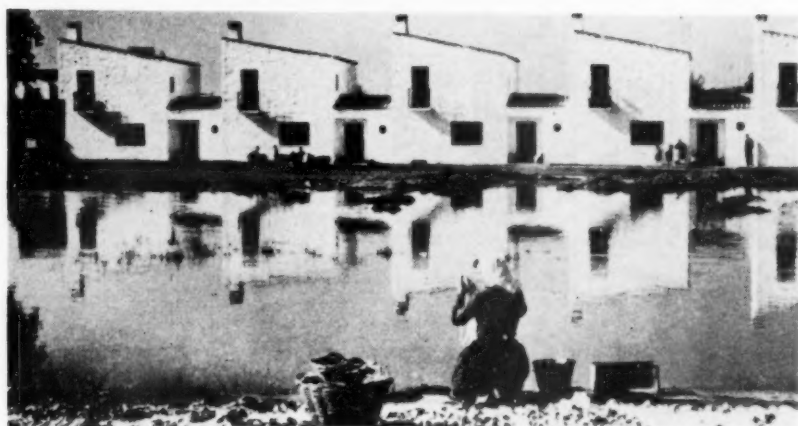
Louis Kahn's floating stage for the American Wind Symphony Orchestra. The bollards on the edge of the nearer cantilever double as foot lights. The tall

posts with hoops are brackets for more lights. The semi-circular decks at both ends are platforms for fireworks

Architecture of technology ?



Above: General view of the main exhibition hall



Left: Exception that proves the rule, from Spain.

The most entertaining, but also the most revealing, way of tackling the exhibition "The Architecture of Technology," which Theo Crosby has organised by selecting buildings from all those selected by the participating countries and grouping them roughly into building types, is to treat it as a quiz.

Since the buildings on the walls are not captioned (you need the catalogue for all information) go round asking yourself or your companion, "what country does this come from?" Almost at once you find you are wrong—and if you thought you would do rather well this is humiliating, but thought-provoking at the same time.

Starting with "Mass Housing" you recognise the first—it must be Japan, but from then on you are more likely to be wrong than right: Swedish or Polish? French or Danish? Czech or Chinese? Mexican or Rumanian? You guess the one and it's just as likely to be the other, until, with a score

of about 20 per cent you come to the conclusion that when in doubt it's Mexico.

This is not a frivolous conclusion, however: it tells one a good deal about the architecture of the last fifteen years. First, that regionalism in architecture—even the regionalism imposed by climatic conditions—no longer exists. The buildings of the *avant-garde* today (and the twice selected buildings that make up this exhibition are of course of the *avant-garde*) are completely international. Individual mannerisms, and the international borrowings of individual mannerisms, overlay all, creating a swiftly changing international fashion.

Fashion, in fact, is now quite acceptable. In a sense, of course, it always was, but when it changed slowly it had time to establish close links with its country of origin. Now trends change at such a speed that there is no time for such links to be formed. No wonder then if people (except for the minority who follow fashion in all

fields) feel that modern architecture has no contact with them, no social basis in its country of origin.

Exceptions to this sweeping statement are visible here mostly among the submissions of some of the more backward countries, of which one example, from Spain, is illustrated here. (The caption to this group of houses at Vegaviana, totally ignoring the evidence of human squalor that the photograph reveals, comments: "Traditional materials simply and directly used can provide a very satisfying environment . . . which should not be sacrificed to a superficial modernity." Such as running water in the house, for example? Well, well.)

How far is the internationalism of modern architecture, as revealed in this exhibition, a truthful expression of the theme of the IUA Congress—"The impact of technology on architecture"? Unfortunately hardly at all. It would require a very much more thorough illustration of the buildings, showing their plans and the techniques involved in building them to do this: and here I think the IUA is to blame for having set Theo Crosby the quite impossible double task of presenting an international exhibition of architecture which is aimed both at architects and at the general public.

To satisfy the architects, and illustrate the Congress theme, a much more thorough

explanation of an inevitably much smaller number of buildings was required. To "sell" post-war architecture to the general public the present display would surely have gained from simple, explanatory captions, and a balanced range of building types, so that there was some discernible order without having to buy and constantly consult the catalogue. The catalogue, moreover, which is presumably based on the information supplied to Theo Crosby by the various countries of origin, is not a satisfactory guide for even the most interested lay visitor. Take this sequence of descriptions in the catalogue of a number of restaurants and hotels:

Casino at Slynchev Vryag, Bulgaria.
Nikola Nikolov, with the collective of the Institute of Education and Planning and the Committee of Architecture and Building. Constructed of prefabricated elements.

Restaurant and hotels at Eforie and Mangalia, Roumania.
Cezar Lazarescu

The structures of reinforced concrete, in folded slabs or vaults are covered with hydrophobic powder 10 cm. thick over an insulation layer and finished with mosaic or concrete slabs over a bitumen layer.

Motel in Venice, Florida, U.S.A.
Victor A. Lundy

The structural system is based on the use of precast concrete hyperbolic paraboids 4.3 m. square.

Xenia Hotel, Corfu, Greece
Ch. Sfaellos

The restaurant is covered with a hyperboloid-parabolic shell with a span of 10.65 by 17.22 m.

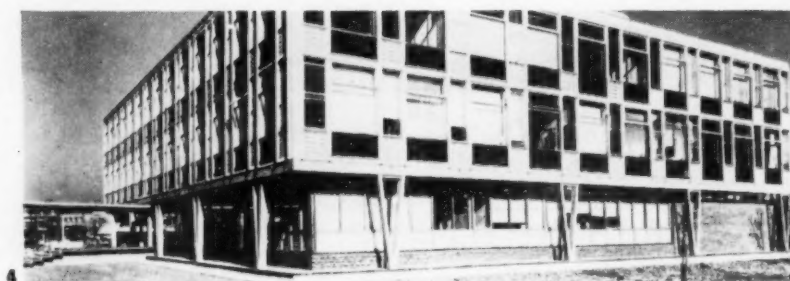
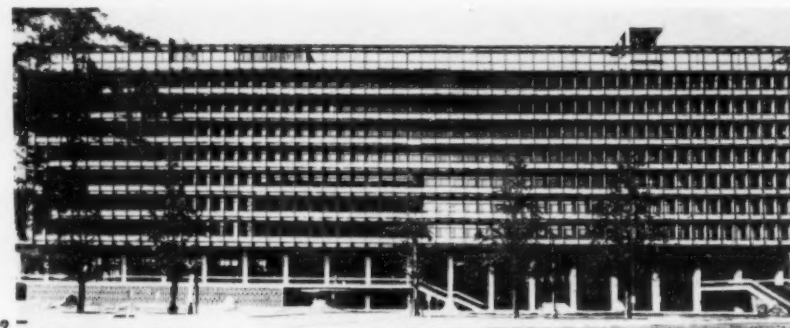
Restaurant "Perla Marii," Eforie, Roumania
Cezar Lazarescu

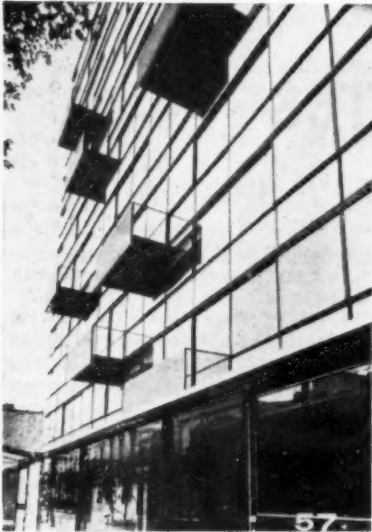
The restaurant can accommodate 1,400 people, half of them on terraces outside. The reinforced concrete floors are supported by steel columns, with bracing by the concrete orchestra tympana and access stairs.

"Megano" Beach Restaurant, Cuba
Eduardo Ecenaro, Emilio Fernández
The structure is of thin prefabricated V-shaped elements resting on two main beams."

For whom is this information intended? It is clearly quite inadequate for the architect, and meaningless for the layman. These shortcomings reflect a lack of direction in the IUA committee which planned this exhibition without first having a clear idea of what it was to show—and to whom.

The selection of buildings submitted by the various countries concerned (presumably reflected fairly accurately in the final choice that Crosby had to make) shows, too, how far the architects of the world are being diverted from the virtuous tasks set them in the preamble to the exhibition, and the high-minded statements about the architect and society which appear on the walls of the exhibition itself. Such as: "The shape of the future environment of man lies in the dreams of the architects of today," or "... the architect's problem is not only to provide shelter for increasing numbers and to organise traffic communications, but to create the possibility of a higher quality of life for the individual in a mass society," or this (from Buckminster Fuller): "The possibility of a good life for





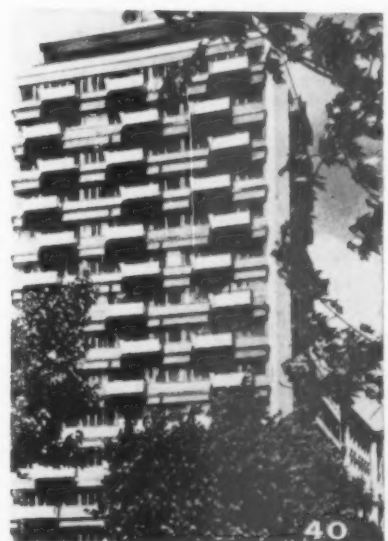
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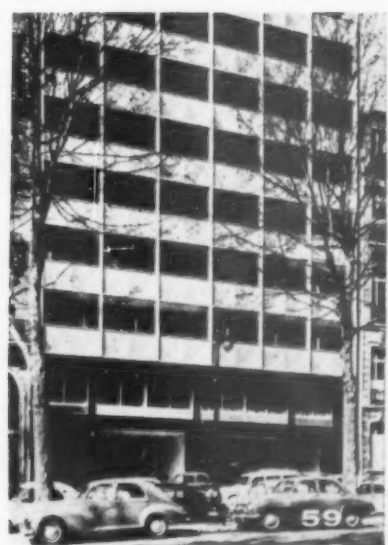
10

In discussing this Exhibition, Walter Segal suggests that played as a quiz—"which country does this building come from?"—it is full of surprises which underline the end of regionalism in architecture. Readers are invited to try out his suggestion here. Answers on p. 10. Then go on to A-level and ask "what led me astray?"



35

11



59

any man depends on the possibility of realising it for all men. . . ."

If only this were true! But how do such pious thoughts find themselves reflected in the buildings at this exhibition? Housing, it is true, takes the largest section of the exhibition, and industrial buildings of every kind from huge factories to quite small garages, take second place: after these follow in this order, prestige office buildings, exhibition buildings, sports stadia, civic buildings, churches tying with transport and all kinds of scientific and university buildings (among these—the Wolfson Institute at Hammersmith) and schools. Does this weighting towards the luxurious and the spectacular express "the dreams of the architect of today"? If so, the future environment of mankind may be a strange one. One would have liked this unbalance to have been openly commented upon in the Exhibition: one hopes that it will find expression—an expression of discontent—in the course of the Conference itself.

Meanwhile one can only congratulate Theo Crosby, and the people who have worked so hard with him on the South Bank, on presenting something so infuriating and interesting for us to look at.

WALTER SEGAL

Movable theatres

Exhibition of students' designs for IUA Congress

Reviewed by Anthony Goss, lecturer, Birmingham School of Architecture

Anyone who believes that the spirit of the Beaux-Arts is dead in architectural schools should spend a quiet contemplative hour at this exhibition of student schemes for a movable theatre which forms part of the exhibition for the IUA Congress.

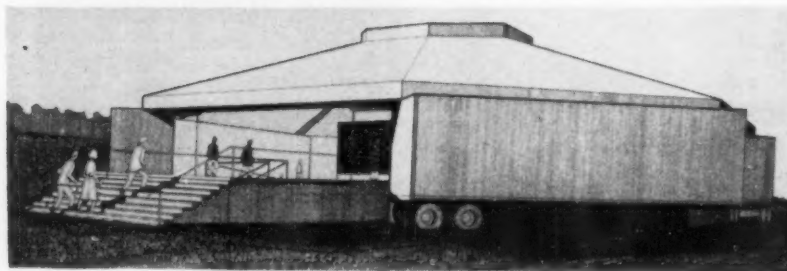
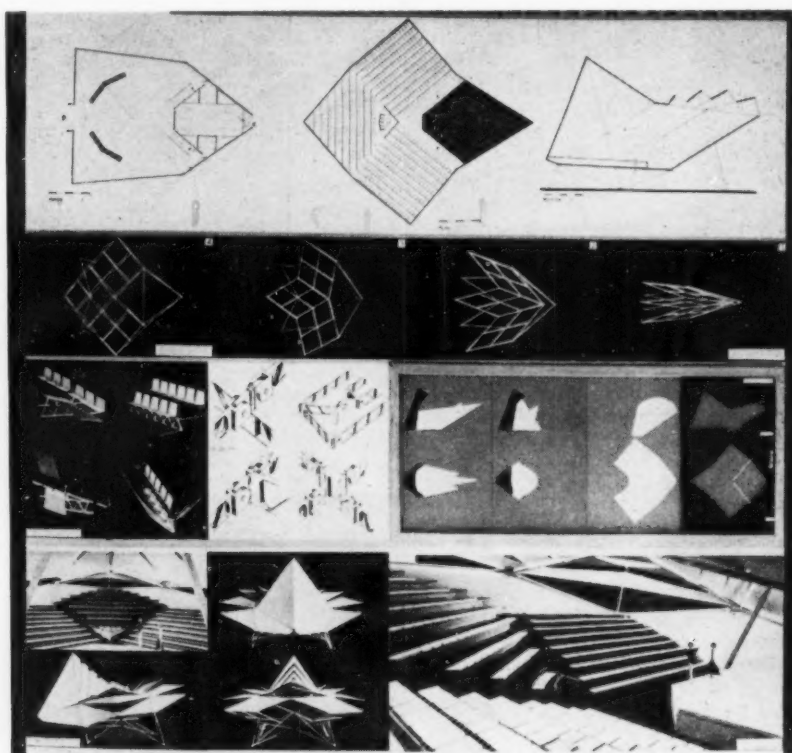
The Beaux-Arts tradition is not just a question of stylised, imitative design nor of ornate and over-elaborated presentation for its own sake; it is a question of an attitude to design which becomes almost inevitable when a problem is merely considered superficially.

This was a project which cried out for superficial treatment by virtue of the very terms of the competition itself. The IUA laid down

no rules or conditions but asked architectural schools to participate by writing their own programmes for students. Therefore every problem set by each school is essentially a different problem. In the absence of a thorough study of the conditions of each problem it is impossible to judge which are the "best" answers. This exhibition of designs must therefore be looked at as indicative of an approach in the various schools that took part.

At first sight the project of a movable theatre seems eminently practical and to fulfil a real need in many countries. In countries struggling against illiteracy and those concerned with a proud cultural heritage, such schemes cannot be looked at any

QUIZ ANSWERS
1. Open air concert platform, Vilnius, Lithuania, by A. Kotli. 2. City Hall, Tokyo, by Kenzo Tanaka. 3. Sachio Gami, Kiyoshi Muro, Kaoru Ono. 4. Bratslav, Czechoslovakia, by V. Heudek. 5. Svetko, J. Dukati. 6. Offices, Ipswich, by John Slater and Howard. 7. Felix Samuely & Partners. 8. Grand Hall of the People, Peking, by Felix Samuely & Partners. 9. Shell Institute of Architectural Design. 10. Shell Kefnery, Stanlow, by Grenfell Haines and Partners. 11. Sweden, by Prof. Sune Lindström, Alf Byden, Åke Arell. 12. Plate in Paris, by Jean Ginsberg. 13. Plate in Warsaw, by A. Markiewicz. 14. Plate in Mexico City, by Augusto M. Alvarez. 15. House at Huddersfield, by Peter Stead.



Upper: From Massachusetts a realistically conceived children's theatre

Lower: From Israel a theatre designed for a specific route

other way than as a possible solution to a problem of pressing urgency.

Even in the countries of the more affluent western world the need is greater than might be thought. The Open Air Theatre at Regent's Park is threatened with closure; the Ministry of Works apparently has no form of tent or movable theatre structure to hold an audience of 1,000 persons to meet this predicament. Goodness knows, our parks in Britain could do with something like a movable theatre here and there—the average "marquee" is a miserable affair for the technological age.

Viewed in this light, as a project fulfilling an urgent need, needing careful consideration of the problems of erecting, transporting and using such a structure, it has to be said that the majority of the schemes do not really begin to make buildable sense. Many are virtually *esquisses* which play around with the problem. Many entrants have become obsessed with problems of theatrical form and tried to produce a structure that will house every type and size of theatrical or cultural performance. Others have become involved in complicated and, one suspects, costly forms of enclosing space with some highly dubious methods of erection and transporting their "movable" theatre. Some of the "tents" would make Billy Smart's eyes pop out and I doubt whether even he would be prepared to contemplate frequently moving them. Some architectural schools have obviously taken the projects very seriously indeed and there is evidence of considerable study of the important technological problems involved. My inclination is to single out some of these for comment because they seem to me to be most in the spirit of the competition.

One project from the Technion Israeli Institute of Technology was for a small movable theatre designed in the context of the conditions of their country with a route worked out for the theatre to travel. Here (see lower picture on opposite page) was a neat structural solution with the problem of erection and transport adequately considered.

Similarly, the scheme produced by student V. Skrlvanova (see lower picture on this page) under the guidance of Professor Stursa of the Technical University of Prague was a real solution to a real problem. In this case one felt that the problem had not been conceived as a "one-off" structure but was capable of being translated into industrial production terms. In particular, the problem of transport had been thoroughly looked at and the lorries were made an integral part of the erected building. One really felt that this was a solution to the problem of the large-scale use of movable theatres and that they would fit neatly into their temporary surroundings without being surrounded by the clutter of the transport and odd bits which would mar

the outward appearance of many other projects. Unfortunately this scheme is but poorly presented. In some of those countries where Beaux-Arts traditions seem to be on their way out it is odd to see such superficially "contemporary" methods of communicating an architect's ideas—as superficial in their way as some of the older design techniques which, we hope, have gone for good.

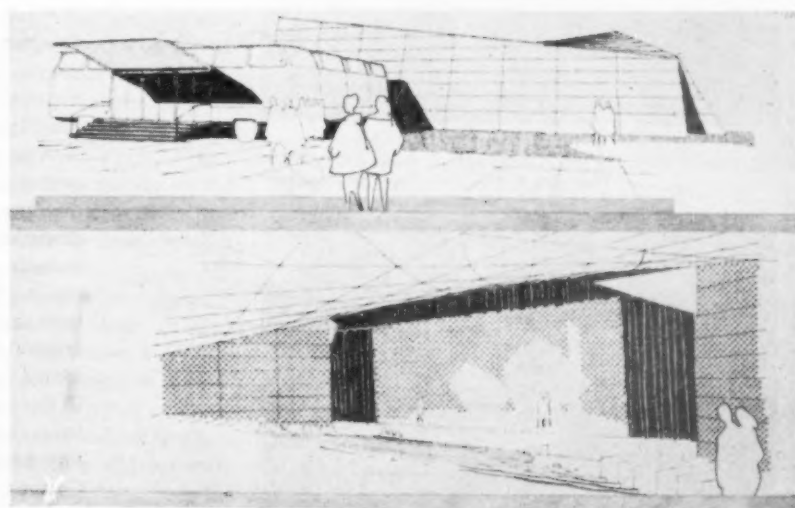
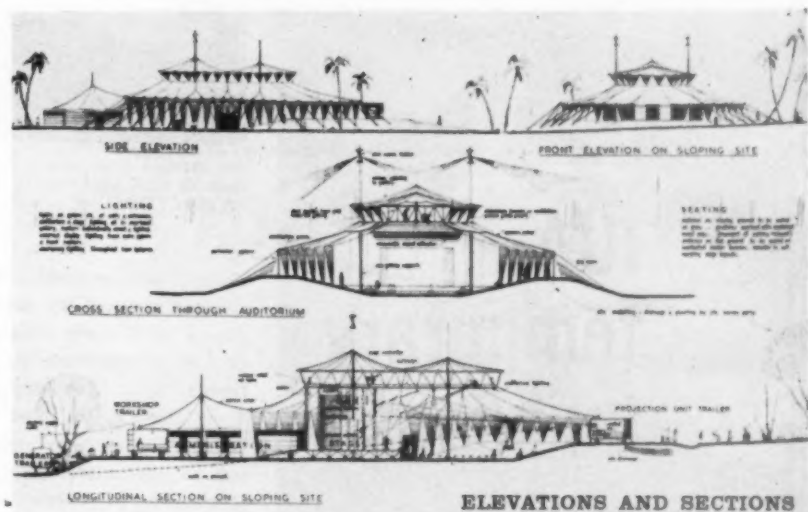
One scheme submitted by the Royal College Nairobi, Kenya (see upper picture on this page), was outstanding among those with a tent-like structure. Here was a magnificent tent but with plenty of evidence that the question of its use, transport and erection had been adequately solved. Despite the fact that it was conceived in twentieth-century terms it seemed to have, in some subtle way, captured some indigenous character in its shape and massing.

The other project which I want to single out for comment is by student J. S. Stella (see upper picture on opposite page) of the Massachusetts Institute of Technology. Here, under the guidance of Professor K. J. Kocinski, a realistic project has been set for "A Travelling Children's Theatre." The basis of the project was laid with collaborative work by a class of students who have

produced a thorough brief which analysed the problem from all aspects and linked it with the traditions of travelling vaudeville in the United States. This scheme of J. S. Stella's, if judged by the grandiose standards of some of the Spanish or Egyptian "Nouveau Beaux-Arts" entries, is a modest and unassuming effort; yet within the context of a well-conceived programme it seems to me to be an excellent solution for a small, movable children's theatre for an audience of 200 people and with a small cast of actors.

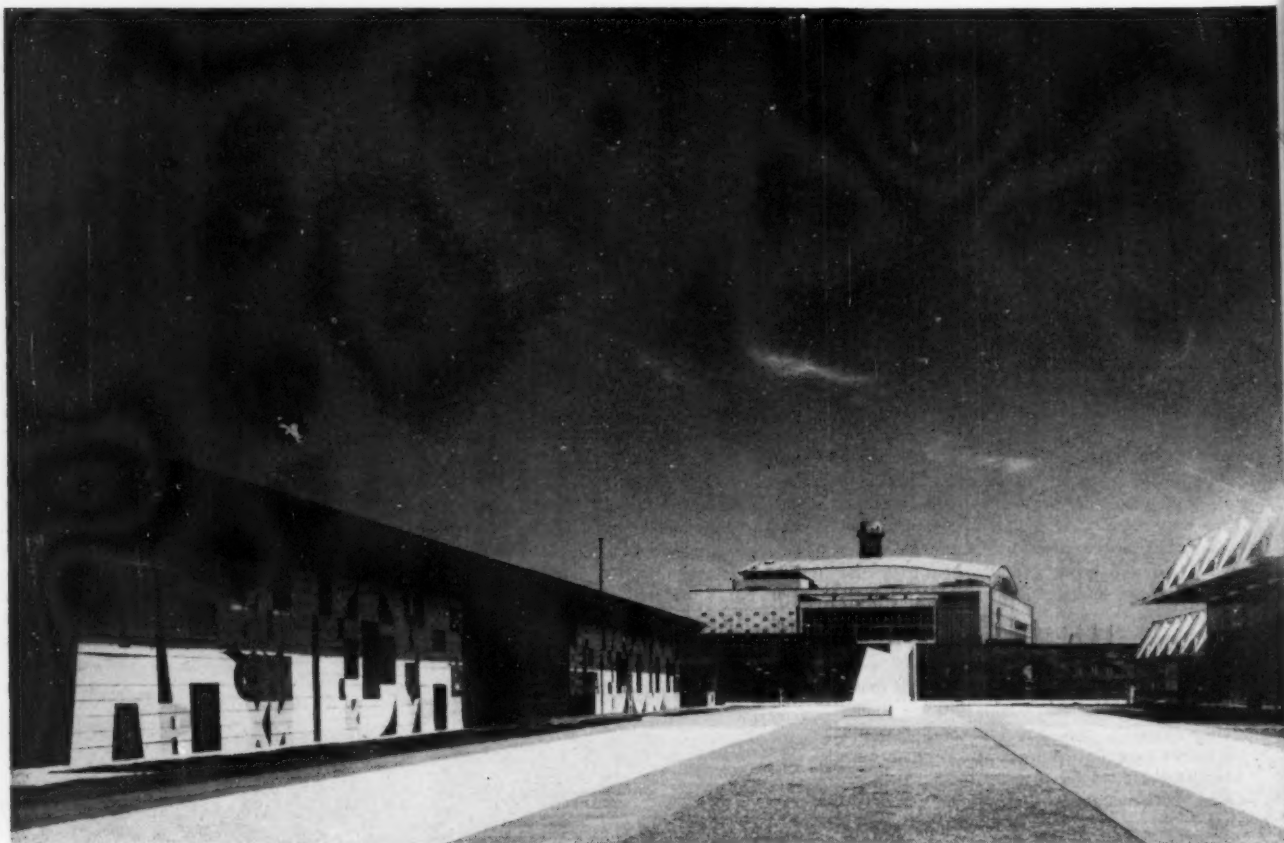
In general the entries are a very mixed bag. While there are many structures which might well be described as "exciting" there is often very little indication of a clear relationship between the structure chosen and a theatre or any real degree of awareness of the movable theatre as a twentieth-century problem of a mass kind. Where there has been an attempt to set the project against a realistic background, with a thorough study of the manifold aspects of the problems involved, the basis could become real architecture. This must surely be the approach of schools of architecture, from whatever country, to the real architectural problems of our time.

ANTHONY GOSS



Upper: From Nairobi a tent in the grand manner

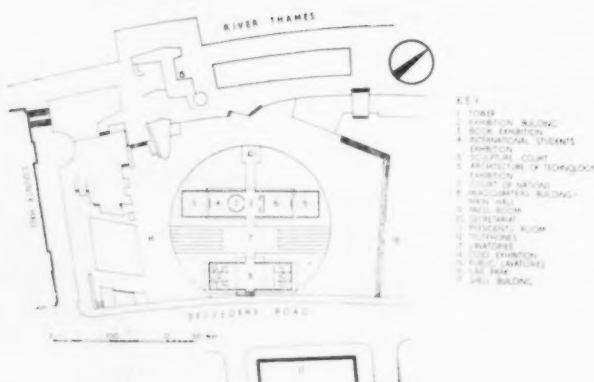
Lower: From Prague a real solution to a real problem



Central court looking north-east; exhibitions on the left, headquarters on the right

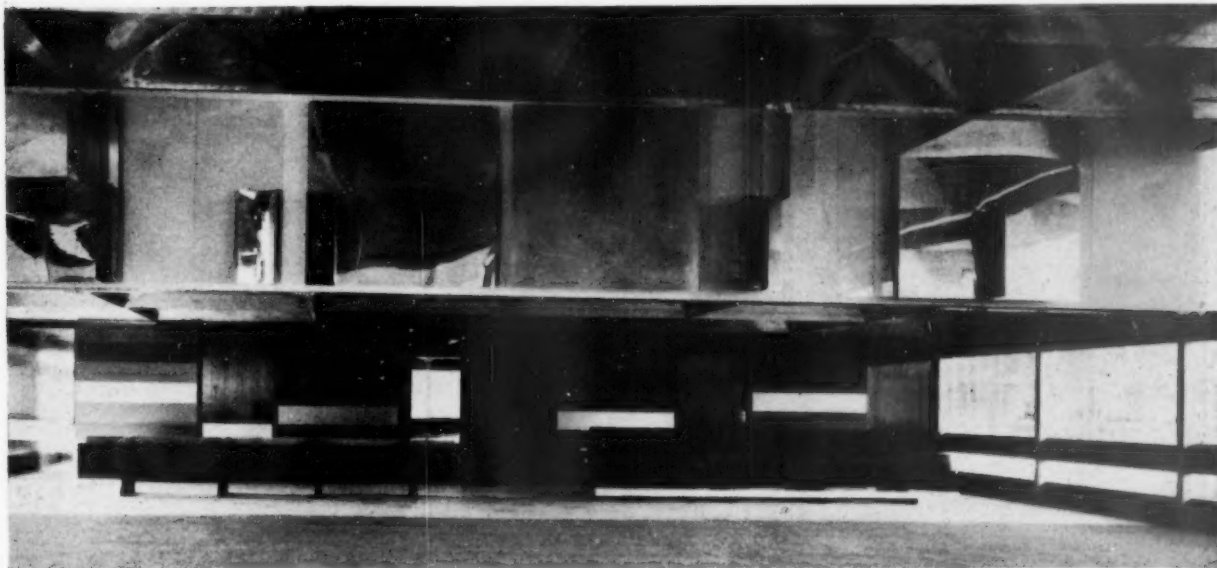
IUA temporary buildings

Below, the layout

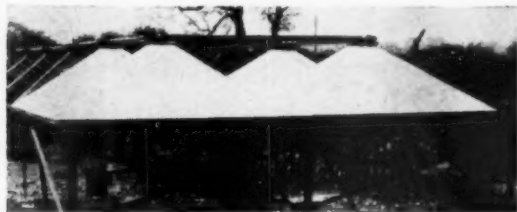


Theo Crosby, and the team of artists who have joined him in producing these two buildings, say they have seized the opportunity to be frankly experimental. They believe that most prefabricated buildings so far are deadly dull, and that the answer to this problem must lie in the architect and other artists taking over the job of design, which at present is largely done by mere technologists. This objective is, of course, based on two assumptions: that the work of architect and artist can be closely integrated into a unified aesthetic objective, and second, that both have the power and the ability to take over such a commanding position.

Integration of works of art into architecture is, of course, a thoroughly well-worn subject, and there is no doubt that in a remarkably high percentage of recently completed buildings in this country that some attempt has been made to introduce Art with a capital A. In other words, almost everyone wants this type of integration to happen, and are trying desperately to pull it off. But it is difficult, for instance, to point to a single recently completed building in central London, where such an attempt hasn't been made, and where the result hasn't been a dismal failure, the usual method being to stick quite unrelated lumps of sculpture on façades high in the air. If there is one unqualified success about these little temporary buildings, dwarfed as they are by the threatening mass of the Shell building, it is that Crosby's team have achieved this objective of inte-



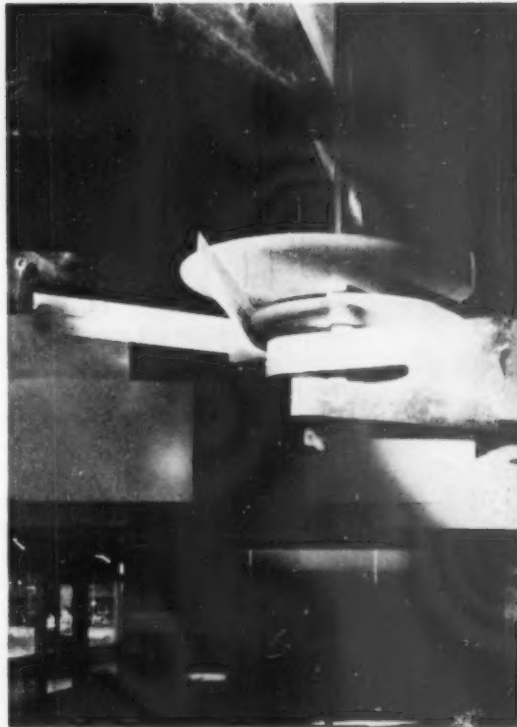
Main hall of the headquarters building, with mural by Mary Martin



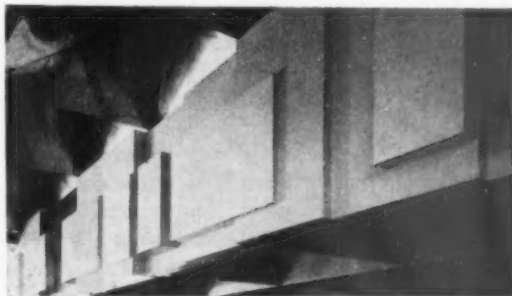
The pyramidal structure of the headquarters building was first developed by Mark Hartland Thomas and Felix Samuely in the late forties (above), and taken up by Frank Newby for this present purpose

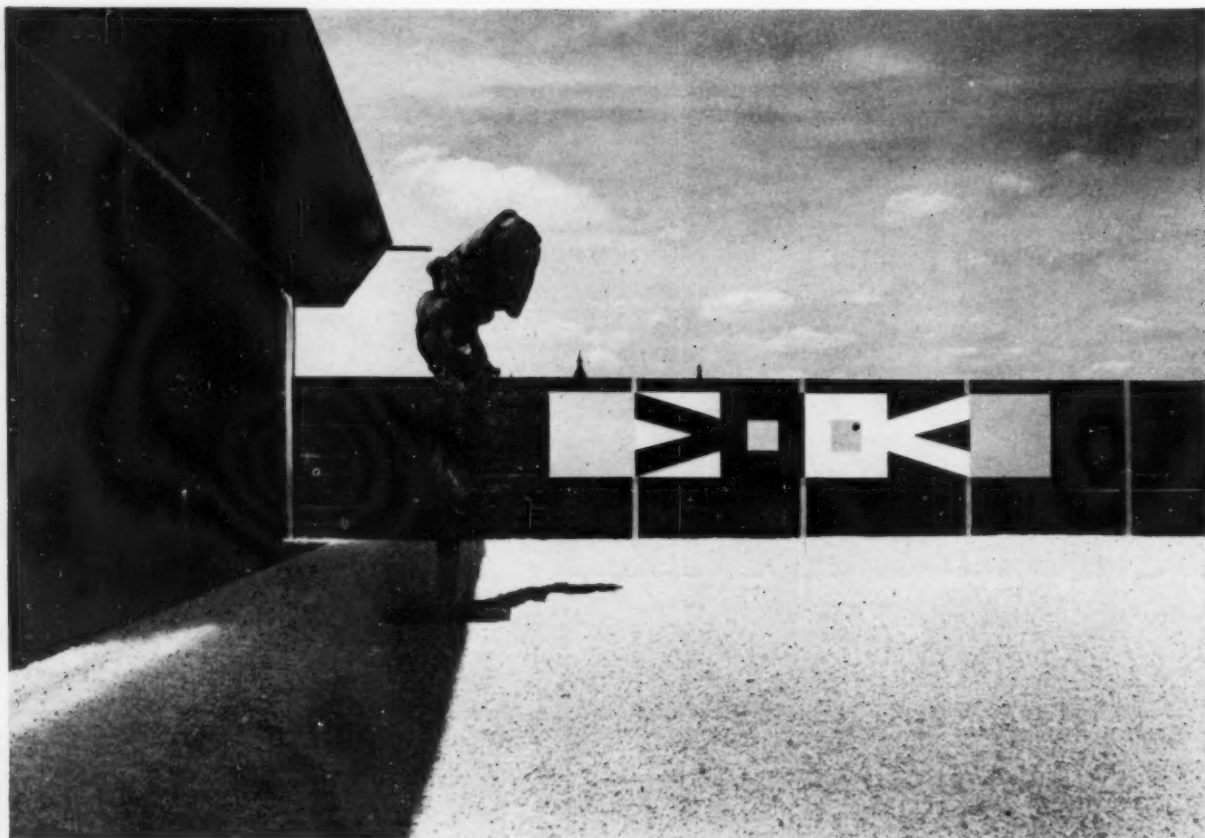
grating works of art into their architectural context. This, of course, is more true of the headquarters building, where there was more scope than in the exhibition hall, which for obvious reasons had to provide an interior with walls and roof almost entirely free of distractions from the exhibits.

How far this success results from an identity of purpose within the constructivist philosophy of this group, and how far it results from the use of materials and textures which are all part of the normal vocabulary of building, is difficult to judge. Certainly the two high-level panels by Mary Martin and Antony Hill in the headquarters hall, and the mobiles by Kenneth Martin slung between them, all carried out in aluminium and sheeting and set out within the structural module of the building, owe much of their success to use of materials common to the rest of the interior. Of course there are oddities, a reminder that although dadaism is dead, it won't lie down, in such things as the red-lead-painted agglomerate by Antony Caro of bits of steelwork right in the centre of the site, which looks as if it had just been dumped there by one of the Shell building cranes as a left-over. But such lapses are only occasional in a team which have undoubtedly achieved a most carefully worked out synthesis of architectural and art forms. But the other assumption that Crosby and his team have made, that architects and artists have both the



Mobile by Kenneth Martin (above) and mural by Antony Hill (below) both in the headquarters main hall





Northerly sculpture court attached to the exhibition buildings, left, sculpture by Bryan Kneale and mural by John McHale

power and ability to take over and control prefabrication is, regrettably, not proved by these buildings. True, they are a brave attempt, sometimes with quite untried techniques, and that they have managed to produce a fresh landscape in an otherwise rather dreary site, which is now relieved only by magnificent views across the river (which the layout hardly exploits at all). True that the design manages, by its use of lots of exposed natural materials, black, white and strong primary colours, to produce an environment which is entirely in the current international vernacular for almost any exhibition building anywhere in the world. This, incidentally, coupled with the use of carefully raked gravel chippings as virtually the only landscaping, gives the whole thing an international, or conversely, an entirely un-British æsthetic. This presumably is what is meant by the phrase "free from bias or prejudice" used in one of the Press handouts to describe the buildings.

Although it is a trifle hard to be critical, when the whole concept is so well rounded, one or two things have gone wrong, things which will not tend to inspire confidence in any of the general public who happen to see the buildings, that the architect is the right man to be in command of prefabrication. These items range from such fairly important matters as the overheating of the exhibition building with its polythene roof, to the small matters of life, such as the fact that there is not a single coat hook for the secretarial staff, nowhere to store books and papers,

and not a single seat with a back to it. In compensation, of course, by ignoring some of these technical problems, and some of these human requirements, there is much of merit in the buildings, the main hall in the Headquarters being a particularly successful interior. But here, to the embarrassment of at least some of the profession in Britain, is the very danger that Mumford so well defined in his Gold Medal address, that in the search for better techniques, and the expression of architectural absolutes, human beings are cut down to size, and have to fit in as best they may. Surely this is hardly expressive to foreigners of the great experiments that this country has already carried out in such fields as town planning, housing, the new towns and schools, all of which, whatever their failures, have all been on the firm foundation of an essentially humanistic approach to the job of architecture.

In compensation for this lapse, one would very much like to say that the buildings display new experimental techniques, which, potentially at least, offer something positive and fruitful in the field of prefabrication, but this is not really the case.

But despite all these criticisms, Crosby's group have done a splendid team job in getting these buildings and all their contents ready and complete on time, a major undertaking. The Congress owe this group, particularly Crosby, an enormous debt of ingenuity and organisation, as well as to the contractors and manufacturers who made the enterprise possible

THE INDUSTRY

This week Brian Grant describes two sorts of plastic rainwater goods, a method of fixing plaster to expanded metal, pressed steel radiators, lighting fittings and electric fires, wc cubicles, and a new range of paint colours.

More plastic piping

Following close on two systems already announced comes Terrain, made by AB Plastics and distributed by Burn Bros., who have set up a service for the design of soil and stack drainage, roof guttering and ventilation ducting. Pvc is used for all these purposes, and in the soil and waste system the ease of jointing, which is carried out with a solvent cement, can show considerable economies in site work. There is a wide range of fittings, and the only point to be watched is that the comparatively high thermal expansion rate of pvc makes it necessary to have expansion couplings in multi-storey installations with wc junctions at each floor. The Terrain rainwater system has 4 in. half-round gutters and joint support brackets with semi-circular slots at each side to take the gutter ends: the gutters are a push fit and space within the bracket leaves room for expansion. There is also a system of ventilation ducting produced from thin extruded flat sheet formed to the required section and solvent welded. (Burn Brothers (London) Ltd., Cray Avenue, St. Mary Cray, Orpington, Kent.)

Plaster on expanded metal

The fixing of expanded metal to walls as a base for plastering reduces the risk of

cracking and poor keying. Ucan Developments, who market the Hilti cartridge assisted fixing tool, have evolved a system of using pins with an eye in the head and the wiring rods to the eyes vertically from floor to ceiling, to which the expanded metal is then fixed. At the extensions to the Science Museum, conventional fixing methods with drilled holes, plugs and screws, the cost per fixing was about 1s. 3d., and was reduced to about 8d. with the Hilti method. (Ucan Development Ltd., 62, Hill Street, Richmond, Surrey.)

Pressed steel radiators

A new list from Hull Steel Radiators shows pressed steel types for hot water central heating systems. The company is a newly formed subsidiary of a Swedish firm which has been producing radiators of this type for 30 years, and the new factory is equipped with up-to-date automatic welding machinery. A full range of wall panel and column type radiators is produced, and curved or angled versions can be produced if required. (Hull Steel Radiators Ltd., Hull.)

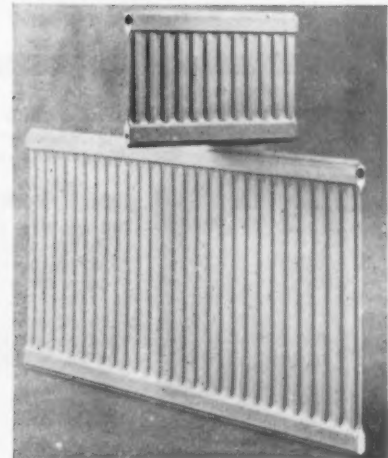
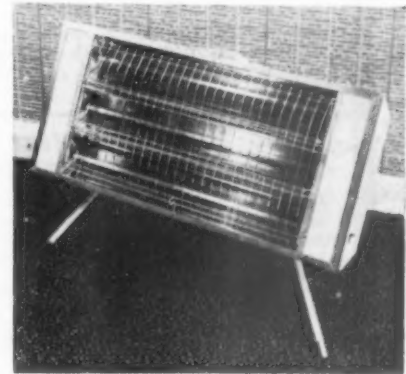
Right: Falks infra-red reflector fire

Below: Hilti cartridge assisted tool for fixing expanded metal to plaster

Below right: Radiators from Hull Steel

Lighting fittings

Readers will no doubt remember that Falks won one of the chief awards in the RIBA/BC trade literature competition. It must be admitted that the production of a good lighting fittings catalogue is not impossibly difficult, since all that is necessary is good photographs of things which in themselves are essentially photogenic, plus basic information which can be more or less standardised, but it is certainly true that Falks



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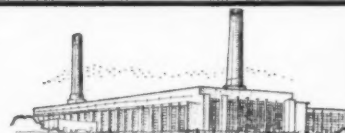
concerned with chemical engineering; acid proof constructions and industrial finishes; floor laying; complete plant design, installation and maintenance; effluent disposal and drainage schemes, carried out by our own personnel using Prodorite products.



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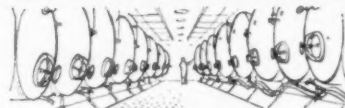
and compounds for all types of industrial application. These cements fall into two basic categories: silicate based and resin based; the two combined ensuring the availability of a suitable cement to fill every anti-corrosive need.



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PRODOR-GLAS lined cold room tanks

4 PLASTICS FABRICATIONS and RESIN/GLASS LAMINATES

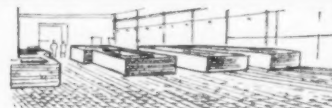
Rigid P.V.C.; plasticised P.V.C.; polythene in welded sheet form for fume ducting, tank linings, fans etc; for chemical, plating, pickling and allied industries. Complete range of ORGLAS laminates having highest possible chemical and temperature resistance. Wide industrial applications, including the food industry.



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productions have changed out of all recognition since the war, and are now both well-designed and well-presented. The catalogue is certainly worth a place on anybody's shelf (though, of course, the same is true of the other winners) and it is also worth remembering that Falks make more than light fittings, the photograph (p. 15 rt. top) showing the Supersil 2½kw infra-red reflector fire, which has three 750-watt silica encased elements, each individually switched and in its own reflector. There is also available a good looking pull cord ceiling switch rated at 13 amps, which should be useful, among other things, for use with ceiling mounted electric heaters in bathrooms or nurseries. (Falk Stadelmann & Co. Ltd., 91 Farringdon Road, London, EC1.)

More plastic rainwater goods

There has been such a spate of plastic rainwater goods announced during the past few weeks that it is perhaps worth mentioning LaBrec polyethylene rainwater goods, which have been in use for something like three years, though they do not seem as well known as they should be. Standard gutter lengths are produced with the fixing brackets welded on at intervals of about 29 in., the necessary allowance for expansion being made automatically. Half round eaves gutters are 4½ in. with downpipes up to 4 in. are produced with a full range of fittings, and industrial gutters and rectangular downpipes are available, or can be made to meet specifications. The company also fabricates pipe work, ducting, tanks and troughs for the chemical industry as well as for building. (LaBrecque Engineering Co. Ltd., Gaywood House, Gayfere Street, London, SW1.)

We cubicles

Hills have recently introduced Melabord we cubicles, which are supplied with all holes drilled so that only a screwdriver is needed for assembly. Standard height is 78 in. including a 6 in. ground clearance.

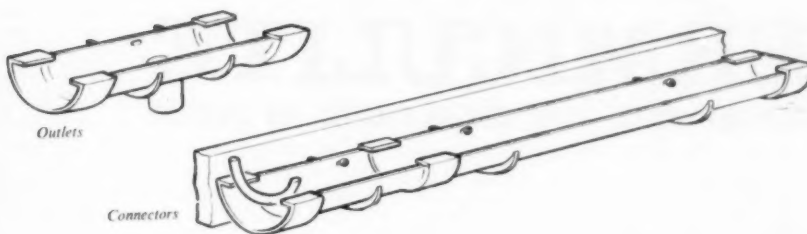
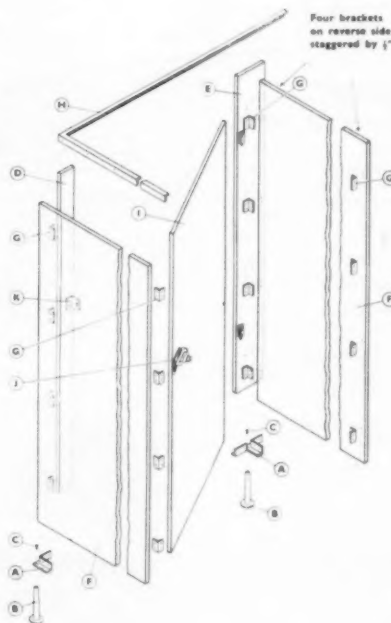
Right: We cubicles made of Melabord

Below: LaBrec polyethylene rainwater gutters

and widths may be 30, 33 or 36 in., with depths of 60, 66 or 72 in. All partitions, fascia pieces and doors are made from Melabord, a rigid veneered chipboard faced on both sides with Melamine laminate in a choice of seven colours and patterns. Black pvc strip is tongued and grooved to all visible edges and all metal parts are polished aluminium. Doors can be made to open inwards or outwards and may be right- or left-hand hung. Every set of cubicles is test assembled at the factory and all components are numbered to simplify assembly on the site. (F. Hills & Sons Ltd., Norton Road, Stockton on Tees.)

New range of paint colours

The latest colour range from Mander Brothers includes the full BS 2660 series together with 28 supplementary colours, mainly clear pinks, blues and greens. All the colours are available in Manderlac enamel, and the majority are also available in semi-gloss, matt, eggshell, emulsion and water paints. (Mander Brothers Ltd., St. John's Street, Wolverhampton.)



INFORMATION CENTRE

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

(93)

725-4

10.214 design: building types

COLOUR IN FACTORIES

Colouring in Factories. Factory Building Studies No. 8. Published for DSIR by HMSO. Price 7s. 6d., by post 7s. 10d.

This study is one in the series promoted by the Midland Regional Board for Industry, and undertaken by the Building Research Station. Of the 19 pages of text 12½ are concerned with "Some principles of good colouring"—this includes six pages of diagrams—and six and a half are concerned with the "Application of principles of good colouring." There are also 10 reproductions of colour photographs. This is a modest publication therefore, but H. L. Gloag, ARIBA, the author, has presented the most concise and carefully studied statement of the use of colour in buildings. Gloag is concerned with principles, and therefore, however architects may exercise their imagination, and whatever judgments may be passed by clients, the basis of both design and judgment should rest on an understanding of the first 12 pages of *Factory Building Studies* No. 8. It is probably true to say that this study is more valuable as a statement of principles, than as a guide to particular problems in factories, so that architects concerned with any building type will find it useful.

The text is almost devoid of loose phrases and meaningless adjectives that characterise writing on colour. However, there is one point to which reference might be made. The four categories of chroma strength are given as "greys," "soft," "middle" and "strong." Would not a scale from weak to strong be more reasonable? One detects uncertainty here because there is reference to "weaker" and "stronger" in one of the diagrams.

As in *Building Bulletin* No. 9, concerned with *Colour in Schools*, the discussion on the application of principles is fertilised by practical experience and reference by illustration is made to factory colouring with which architects at the Building Research Station have been directly concerned. The quality of the reproduction of colour photographs does not do justice to the work and in only two instances do the colours bear any resemblance to the Munsell references given in the text. However, the quality of the colour in the well-designed



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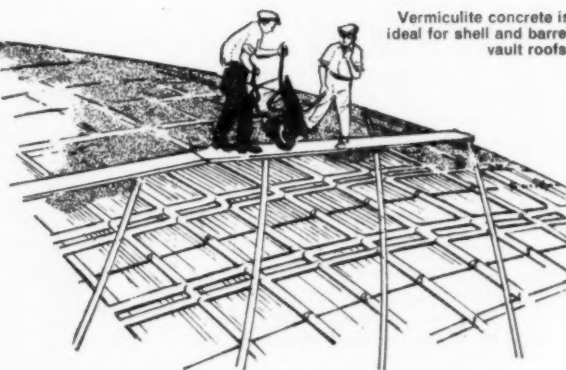
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diagrams is excellent. One is tempted to ask whether the section on application is not a little thin. There must be a host of technical and practical problems and special conditions in factories on which guidance and the fruits of intelligent experience could usefully be given. Perhaps the Building Research Station has a special responsibility for factories, because there is no development group focusing effort on this building type. Knowledge and experience of the use of colour could usefully be extended if development groups on other building types—particularly hospitals—could produce parallel studies to those already done for schools and factories. As one would expect British Standard Specification 2660 "Colours for building and decorative paints" is an integral part of the argument both in terms of principles and their application. Let us hope that the BSI are fully aware of the essential part this range plays in the organisation and use of colour, and how it has become the point of reference for colour in several branches of industry related to the building industry. The point is worth stressing, because unless this is realised, committees at the BSI in future may take action which compromises the position BS 2660 now holds as the central co-ordinating range of colours for building and related industries.

In conclusion the modesty in price and size of Factory Building Studies No. 8 prevents even the busiest and most impecunious architect from having an excuse for not buying and reading it. Technical information so well presented by architects for architects is easily and quickly digested. We are ready for a second helping.

D. L. MEDD

Eq4

18.224 construction: theory

CONCRETE CONSTRUCTION

Structural Concrete by K. Billig. Published by Macmillan. Price 84s.

The title of this book probably conveys an erroneous impression to anyone who has not had the opportunity of examining it in detail. It is, in fact, a most comprehensive survey of every aspect of the construction of mass and reinforced concrete structures. In such a work the author has a most difficult task of deciding what to leave out in order to permit publication in an acceptable form and consequently we find prestressed concrete, which forms a complete work by Billig in this same series, reduced to a mere 20 pages. This provides a measure of the coverage of the 1,000 pages of the book. The main divisions are under the headings of materials, design and design and construction. There are about 240 illustrations, 113 tables, and a complete index in both chapter form and subject form. The author may not have dealt in detail to satisfy the reader on every subject, as for example lightweight aerated concrete at present in the public eye in Great Britain, but he has mentioned every subject and provided a basis, by reference to works in major countries, which should provide a guide to further research by any reader.

This is a book of considerable value in the library of the architect or engineer.

(94)

725-5

10.215 design: building types

HOSPITAL COST TARGETS

The Cost of Hospital Building *Hospital Building Note No. 2*. Published by the Ministry of Health. HMSO 1s. 6d.

This Note has four main sections:—

- (i) The cost components of a hospital scheme.
- (ii) The calculation of the cost limit, which includes a brief description of the data on which the limits have been based and the procedure to be adopted in obtaining Ministry approval to the cost limits.
- (iii) A method of cost control which gives unqualified support to the methods of elemental cost analysis and cost planning originally proposed by The Ministry of Education and advocated by THE ARCHITECTS' JOURNAL.
- (iv) A number of Appendices which contain useful definitions and examples.

The Ministry of Health is the first* government department to follow the example of the Ministry of Education whose cost limits policy has been so successful during the last 12 years. It is to be hoped that the Ministry of Health will be equally successful.

The Ministry of Health face a task which in many ways is strikingly similar to that which faced the Ministry of Education in 1949: a building programme unprecedented in size which has to be completed in a limited period with little prospect of stable economic conditions. The Ministry of Health with some justification could have argued that the difficulties and complications were such as would only permit them to adopt a passive policy of considering projects as they were presented. Instead they appear to be adopting an active and courageous policy of planning their programme and expenditure well in advance and of taking both the Boards and architects into their confidence. That 12 years have elapsed before a successful idea is repeated is a reminder that neither government departments nor architects have been over anxious to adopt cost limits as a matter of standard practice. This is surprising in view of the benefits that accrue to both parties. In the case of hospital building the benefits can be seen as follows. For the Ministry and the Regional Boards cost limits allow expenditure to be planned with greater assurance thus permitting annual programmes of named projects to be settled well in advance. By this means the rate and timing of the various projects can be controlled so that the £500m. programme can be completed in the limited time available. Since speed is essential, cost limits can reduce substantially the time taken in the scrutiny of designs and estimates, a scrutiny which has often been on an *ad hoc* and subjective basis with a number of unsatisfactory features. Ministerial approval for schemes which fall within the cost limits should now be forthcoming more quickly

* In a report to the Ministry of Housing and Local Government submitted in 1958, the Royal Institution of Chartered Surveyors recommended "that local authorities should give their architects, as part of the initial brief, a clear and unambiguous cost limit, as a budget total, within which to design the scheme." The recommendation has not yet been implemented.

and without the frustrating and time wasting cross-examinations which are often a feature of governmental vetting (Ministry of Education excluded). The cost limits should also permit the Ministry to make sure that each Regional Board gets its fair share of the money allotted by the Chancellor of the Exchequer according to its need—a not unimportant factor, particularly in the early years of the programme when every Board, doctor and architect will be trying to get as much as he can for his own particular project. By the judicious use of cost limits the Ministry can prevent the best becoming the enemy of the good.

During the next 10 years the Ministry of Health would be fortunate indeed if it had not to face the prospect of a cut in its share of the nation's resources. Other things being equal, a well planned programme accurately costed and fully committed is one of the best arguments against arbitrary cuts. When money has to be found or saved the department which is unsure of its future commitments will suffer first.

Ex

18.225 construction: theory

PRESTRESSED CONCRETE

Prestressed Concrete Simply Explained by H. Kaylor. Published by Contractors Record. Price 28s.

General review of prestressed concrete design, equipment, etc., intended for architects and students.

The book begins with a chapter describing history and development advantages and disadvantages. The next chapters describe the various types of proprietary methods of applying the prestressing force, the properties of steel and concrete, requirements of workmanship and tolerances.

Chapters 5 to 7 deal with design aspects, stress losses, design of simply supported beams and composite members.

The remaining chapters deal with the applications of prestressed systems to dams, pressure pipes, tunnels and storage tanks and some interesting structures are described and illustrated.

A final chapter draws attention to a number of problems which confront the designer in more advanced works.

On the whole, the book strikes an excellent balance between description and simple designs. There are 152 pages and 76 illustrations or tables.

Be2

69-059-2

19.239 construction: details

Repairing Brickwork. BRS. Digest 4 (Second Series). HMSO. Price 4d.

This digest summarises almost everything BRS has ever said about damaged brickwork whether in the context of condensation in chimneys, foundations, on shrinkable clays or sulphate attack. It adds little to what the reasonably diligent architect knows already, except perhaps some interesting notes on stability, eg. if a 9 in. solid wall moves 3 in. sideways on its dpc, it will still retain two-thirds of its original strength under vertical loading.

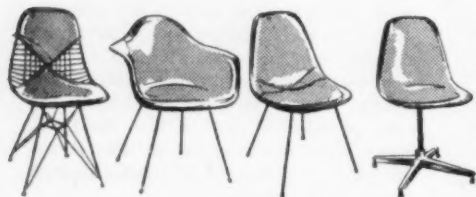


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NEW MATERIALS AND METHODS triumph again in these now-famous fibre-glass chairs. The seat shells are moulded in polyester resin reinforced with glass fibre, and immaculate top and underside. Their fluid elegance, intrinsic or upholstered colours and comfort are quite extraordinary. And they are virtually indestructible. Underframes are attached by shock-absorbent rubber mounts and fitted with self-levelling floor-protecting nylon glides. The permutations of shell shape, upholstery, colours and wire, tubular steel leg or pivot bases are immense. And most exciting.

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7 PRACTICE

working drawings 2

Robert Alexander continues his articles* on working drawings for the builder by considering drawing size and lettering and the use of true to scale negatives. He then turns to the all-important "question" of the reform of graphical symbols

* Previous article: June 15

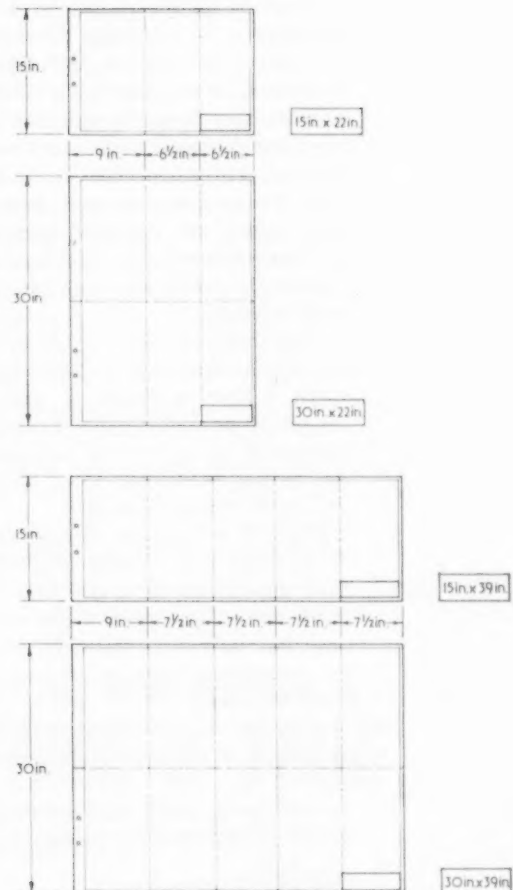


Fig. 1 Standard drawing paper sizes recommended by the author. Dotted lines indicate folds

Size of drawings

Drawing sizes should be related to:

- (a) Roll paper and drawing board sizes.
- (b) Printing costs (BS sizes are cheaper since they are related to print roll sizes).
- (c) Ease of filing and reference in the office.
- (d) Ease of folding in sending out prints.
- (e) Actual requirements for typical drawing types at suitable sizes.
- (f) Revisions—is it better to alter a drawing or withdraw it and produce a new one?
- (g) Handling on the site—what are acceptable sizes?
- (h) Architects' requirements of a complete set of drawings of his own for use on site visits, on which he can note any amendments, etc.

Perhaps the most important consideration is the handling on the site. My research into the use of

technical section

drawings on the site yielded the following results:

- (a) There is no advantage in keeping all drawings for a job of the same size, although if drawings, particularly detail drawings, could fold to the same size it would assist filing. The rule is to have no extremes.
- (b) Small drawings, such as 15 in. by 10 in., are detested, particularly when among larger sized drawings. (The use of these small drawings seems to be very common and should be discouraged.)
- (c) The double elephant drawing, 40 in. by 30 in., is perfectly satisfactory and the most suitable for detail drawings.

(d) Drawings over 40 in. by 30 in. are too large.

On the preceding page is illustrated a range of sizes which I have developed to meet the previously-mentioned requirements. All drawings fold down to a standard 15 in. by 9 in. size, title panel face up, which can be used in standard 15 in. by 10 in. folders for site use or storage purposes.

I believe it is important to keep all series drawings of the same size, although one might change to a more suitable size for a new series. I do not believe in the use of one standard size sheet for office use since this encourages the faults set out below and the draughtsman feels he must use as much of the sheets as possible:

- (a) Crowded, unreadable drawings.
- (b) Mixing of information for manufacture and site use.
- (c) Mixing of details, and even information which should go into separate drawing groups.

Lettering of drawings

Many of the points concerning size of dimension figures apply here. Lettering should always be as large and bold as possible, and uniformity in size should also be aimed at, since important notes should be well advertised and may, therefore, require to be in a larger print. This applies particularly to key reference numbers for windows, rooms, etc., and in addition to making the lettering larger it may also be advantageous to change to ink, using a fountain pen of some form.

The draughtsman should always use sectioned backing sheets to letter drawings, and I have found that the following sizes have been the most suitable:

- (a) Sixteenths and half inch for $\frac{1}{4}$ in. scale drawings.
- (b) Twelfths and half inch for $\frac{1}{4}$ in. and 1 in. scale drawings.
- (c) Tenths and half inch for detail drawings.

The heavy line at half inch spacing is an aid to the spacing of the lines of lettering. For important notes, two spaces can be used instead of one, and for headings three spaces may be used. I have used this system for many years and a great reduction in lettering time is achieved, in addition to a cleaner

and neater drawing.

Notes should be grouped where possible, and not spread willy-nilly over the drawing, but it should also be remembered that the note should be as near as possible to the object it describes. The use of "legend" notation should be discouraged, since (a) if connecting lines are drawn they only confuse the drawing, and (b) if they are not drawn it is difficult to connect notes to details. Also, connecting lines should be drawn free-hand in a free "flowing" form, and not with the T-square, since straight lines become indistinguishable from the drawing.

Use of true-to-scale negatives

The true-to-scale process of printing, whereby copy tracing paper negatives can be obtained from original negatives, is familiar to most architects and its uses are as follows:—

(a) In the office

As can be seen from the breakdown of elemental drawings as suggested in the previous article, there appears to be a certain amount of duplication of drawing of the arrangement drawings. Applying the simplified drawing methods I have set out, to a small job, then the draughtsman can quite quickly trace the layout onto his new group drawing. On the larger job, however, this may take too long, and the use of TTS negatives is recommended. The main "skeleton" drawing should be set out, and TTS negatives should be taken, on which additional work can be set out in accordance with the various group requirements. It should be remembered that unwanted data can be blanked out during the process and omitted from the TTS copy negative.

TTS can also be applied to the use of master schedules and type details, and these aspects will be fully considered later.

Yet another application within the office is the use of TTS negatives on which sewers and drains, water supply, etc., can be drawn, then prints showing only the appropriate service can be distributed to the individual contractors.

(b) For consultants

This aspect can be taken a stage further with consultants and specialists. TTS negatives of arrangement drawings, duct drawings, etc., should be sent to all services consultants, on which they can record their own pipe runs, fixing details, etc. Thus the irritating variety of scales and drawing sizes used by consultants and specialists will be avoided.

The main contractor should be informed of the runs and fixing details required of all services, particularly where he is involved in duct and chase forming.

It is a further advantage if all prints concerning services drawings can be themselves a TTS on transparent linen, to facilitate overlaying for quick reference and co-ordination.

The savings in time by using a pre-headed cut sheet can be countered by using a stick-on transparent title panel, a rubber stamp, or by simplifying the title panel system and lettering freehand.

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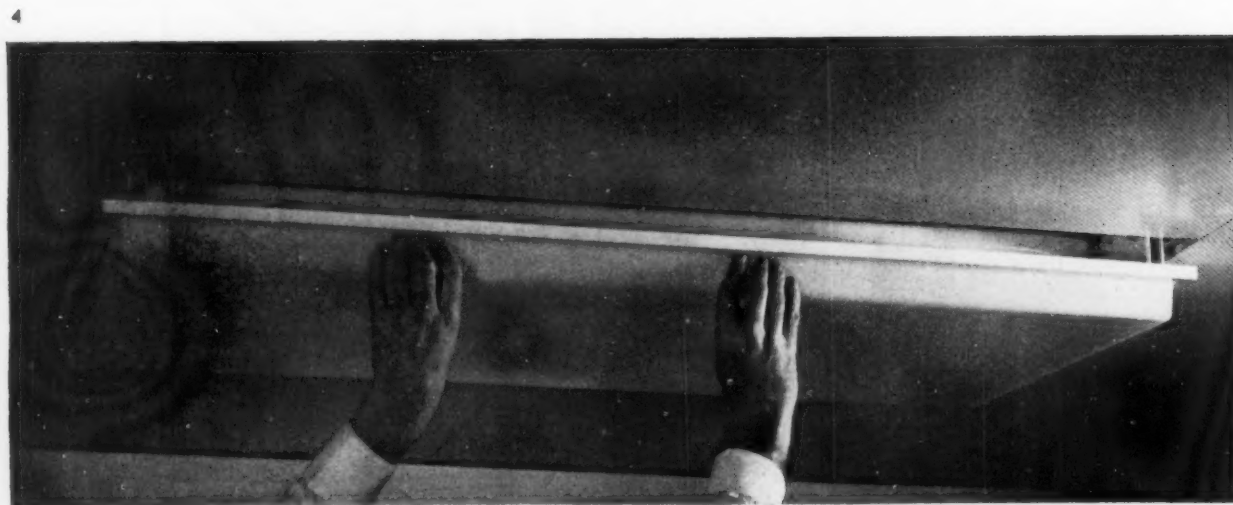
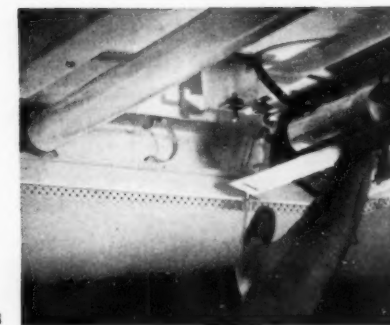
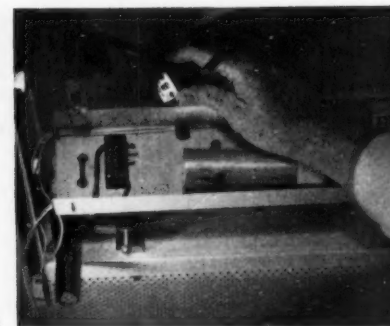
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Pictorially are shown the salient points:

- 1 Finger tip fixing (quick fix catch Patent Application No. 39587/60).
- 2 Plug and socket connection.
- 3 Detachable and hinged gear trays.
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(Locking device—Patent application No. 32933/59)

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Graphical Symbols

(a) Symbols for sanitary, electrical fittings, etc.

British Standard 1192, Part 7, sets out the recommended symbols for use for electrical, gas, water supply, heating, rainwater, structural steelwork and sanitary appliances.

They are simple to draw and easy to read and should be applied throughout the country. Unfortunately, many people have their own idiosyncrasies and waste their time drawing immaculate little water closets, cookers, etc., which don't tell the builder any more than the standard symbol does.

(b) Superstructure and partition walls

(i) Hatching of materials

The essential requirement in the site arrangement drawings is that the general layout and main elements can be quickly and clearly identified. Materials do not require to be hatched since the information is given in detail drawings, schedules, specifications, etc., and the site operative will consult these anyway. Hatching at small scales is a laborious process and a waste of time, therefore, I suggest that the following methods should be adopted:

(ii) Drawings up to, and including, $\frac{1}{8}$ in. scale

All superstructure walls and partitions, i.e., walls which form the main shell of the building, should be lined in, preferably in ink, or in a soft pencil, after the drawing is completed (Fig. 2). A line of

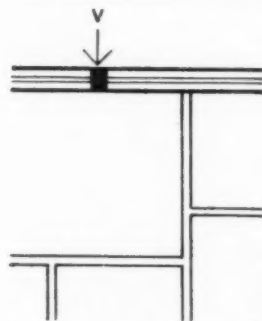


Fig. 2 All superstructure walls back-lined 0.30 mm. thick

approximately 0.30 mm. thick is required and I recommend the use of the Rapidograph or Page Pen No. 1 (Fine).

All prefabricated, or non-loadbearing, partitions which do not form the main shell should be lined in in the normal pencil thickness.

All walls and partitions should be shaded in, on the reverse side of the tracing paper.

(iii) Drawings over $\frac{1}{8}$ in. and up to $\frac{1}{2}$ in. scale

Superstructure walls should be lined in, preferably in ink, or in a soft pencil, after the drawing is completed (Fig. 3). A line of approximately 0.50 mm. is required and the Rapidograph No. 2 (Medium) or the Page 60 (Medium) is ideal. At this scale the thick line is sufficient to make the walls prominent and shading is therefore not required.

All partitions not forming the main shell should be lined in, using the normal pencil thickness, and shaded in on the reverse side, using a hard pencil.

(iv) Wall coverings

These should not be shown on any drawing under $\frac{1}{8}$ in. scale.

At scales of $\frac{1}{8}$ in. or over, they may be shown and should be lined in in the normal pencil thickness.

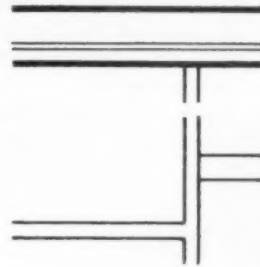


Fig. 3 All superstructure walls back-lined 0.50 mm. thick

remembering that the wall structure is lined in in a thick ink line (Fig. 4).

(v) Junction of walls of differing materials

As can be seen in Fig. 2, 3 and 4, a line of demarcation should be drawn to indicate where one

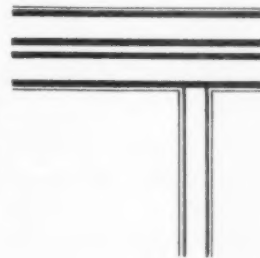


Fig. 4 Wall covering indicated

wall of a particular construction or material ends and another begins.

(vi) Cavity walls

In $\frac{1}{8}$ in., or smaller scale, arrangement drawings, it may not be required to indicate the cavity if normal cavity construction is to be used. The jamb details are always shown on the larger scale assembly drawings of windows, doors, etc., but on a complicated job it may be worth while keying the jambs and drawing 1 in. plan details or perspectives on the same sheet as the superstructure element, i.e., WD3.

I have used this system successfully on small jobs, such as housing.

(c) Wall openings

(i) Windows and french doors

In normal practice these are shown in far too complicated a manner on the site arrangement and key drawings. Although they can be clearly read as

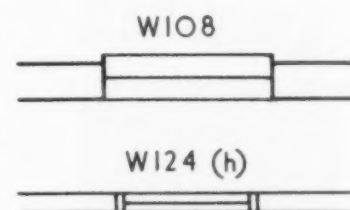


Fig. 5 Alternative methods of indicating window openings

windows, to draw them in such a manner is a fatuous waste of the draughtsman's time. All detailed information regarding windows will be given on the assembly or manufacture drawings and in schedules, therefore the reference number should be in large type and preferably in ink for quick location (Fig. 5).

(ii) *Doors and openings*

The same points apply here. There is no need to show the complete door swing, the methods used in

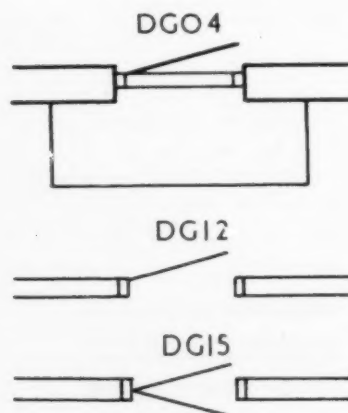


Fig. 6 Alternative methods of showing door swings

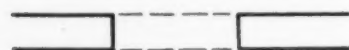


Fig. 7 Method of indicating arched opening

Fig. 6 are time-saving and satisfactory. If there is a threshold it should always be indicated. Arched openings should be shown dotted as in Fig. 7.

(d) *Stairs*

The recommendations set out in BS 1192, Part 7, may be followed. It is not necessary, however, to draw in handrails, treads, etc., on site assembly drawings since the stairs will be dealt with as

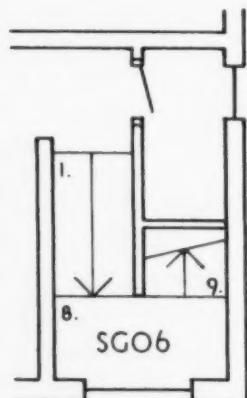


Fig. 8 Method of drawing stairs

separate elements, and will require key sections and plans in addition to the normal details. Stairs should

also be given a reference number. It should be remembered that arrows indicate up direction *only* (Fig. 8).

(e) *Balconies, canopies*

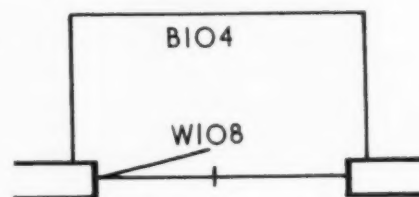


Fig. 9 Method of drawing balconies

All balconies, or canopies, should be shown on the plan level at which they occur in a simple pencil

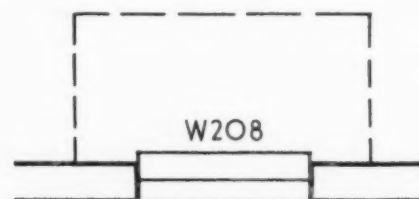


Fig. 10 Balcony on the next floor or canopy shown dotted

line, as in Fig. 9, and given a reference number. A dotted line should be used to indicate the balcony, or canopy, on the next floor plan (Fig. 10).

(f) *Floor coverings, etc.*

Floor coverings should *never* be drawn on the site arrangement drawing. All information for each room on floor, wall and ceiling finishes will be given in schedule form, therefore all that is required is a reference number, in large type.

The architect may require, of course, to detail a special floor layout, but this will be done to larger scale and will form a different group.

Floor coverings, of course, can be used on presentation drawings for the client to illustrate circulation space, etc.

(g) *Ducts, vents, etc.*

Instead of showing vents in outside walls by a pair of dotted lines, it would be better to ink in the vent and indicate with a small arrow (Fig. 2).

Ducts could be shown using a broken dot line, and shaded on the reverse side.

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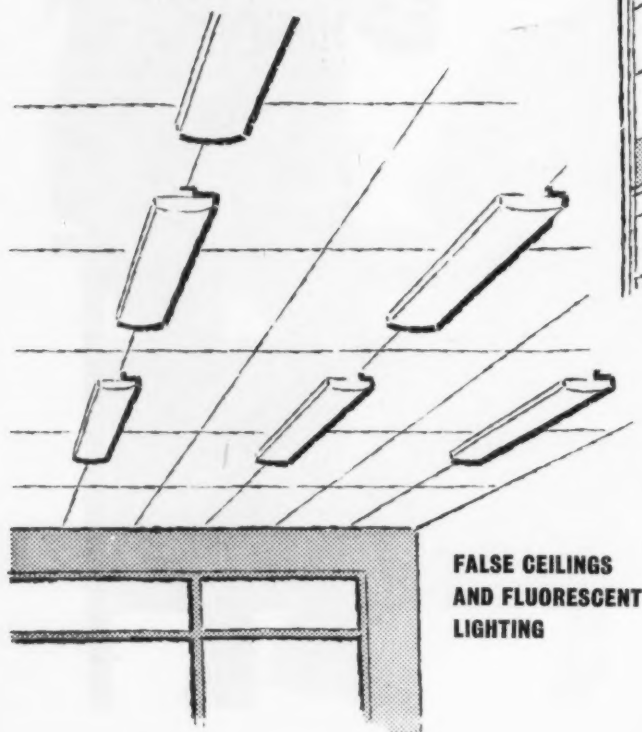
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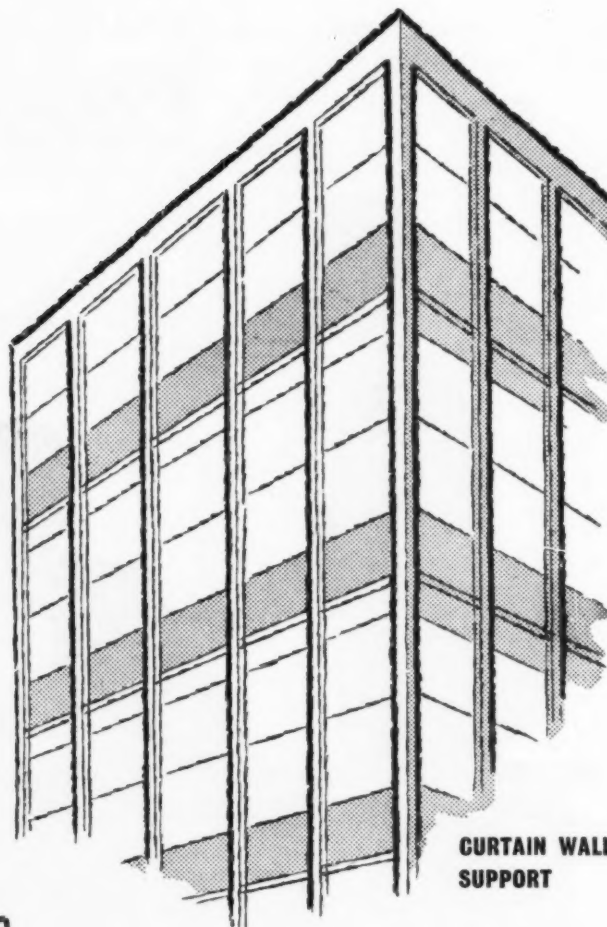
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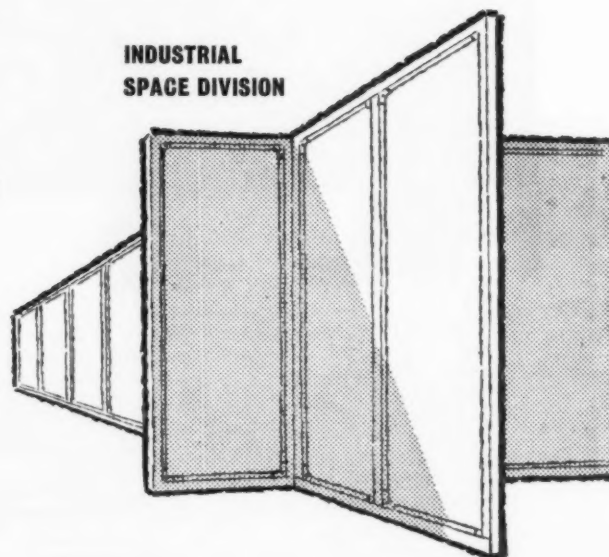
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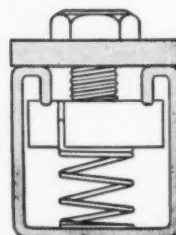
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Flatted factories at Hackney

This is the third and smallest of the flatted factory schemes which have been cost-analysed by THE ARCHITECTS' JOURNAL (Birmingham, AJ February 20, 1958, Shoreditch, London, AJ, 23, 1959). It is comparable in scale and objectives with the Shoreditch scheme although less than half the size

architect LESLIE G. CREED

staff BERNARD BINSTEAD
PETER BROWN

quantity surveyors FRANKLIN & ANDREWS

The factory seen from the west showing the pedestrian entrances from Richmond Road and parking space reserved for travellers



building study—2nd series

APPRAISAL: This scheme is of particular interest as it has been carried out as a commercial speculation by the Endowment Fund—Board of Governors, St. Thomas's Hospital. As owners of the site they were faced with what may become an increasingly common dilemma. The site is not large, but faces on to an important and busy main road close to the commercial centre of Hackney and the Town Hall. It is surrounded by small factories and is zoned in the development plan for industrial use, but the Board of Trade will not issue an industrial development certificate for a single factory as part of its policy of diverting industry to the new towns and development areas.

Although there is some demand for factory space by small firms being displaced by slum-clearance schemes, many of them are unable to afford the cost of new premises which must be let at economic rents. There is, however, great demand for space by the garment industry which, despite any efforts the planning authorities may make, has every intention of staying in the area. Hackney is one of several traditional areas in the East End of London associated with the clothing trade and has the advantages of an ample supply of trained labour and the convenience of concentration for travellers and buyers.

The new building is now largely occupied by clothing manufacturers but also contains a woodwork factory, an electroplating factory and other light industry. The true cost per square foot cannot yet be seen as the building is to be followed by a small second stage at the east end. This part will be roughly the equivalent of two units in the existing building and will make the total costs more reasonable as the extension will not need any additional staircase, lift or sanitary accommodation, as the existing eastern service bay has been designed to serve the extension.

The electroplating factory is the only one in the building which illustrates one of the problems to be faced by owners of flatted factories, for this process produces a strong and unpleasant smell which can be a nuisance to other occupiers. It is inevitable that unless other provision is made tenants will fix extract fans into windows and these will cause trouble to surrounding premises. This can only be prevented by providing adequate vertical ducts which must be inserted at the expense of valuable floor space. The ducts provided in

this building are adequate to deal with the requirements of most of the users.

Without the need to budget only for tenants displaced by slum clearance, the architect was able to persuade his clients that it was wise to spend a little more money on the materials and finishes of the building in order to reduce maintenance to the minimum. This policy accounts for some of the differences in costs with the Shoreditch scheme, and promises to work well in practice.

The building has now been occupied for over eighteen months and is wearing and weathering very well. The entrances and service areas still look clean and fresh, although the lavatories and insides of the lifts have suffered at the hands of the seemingly inevitable defacers.

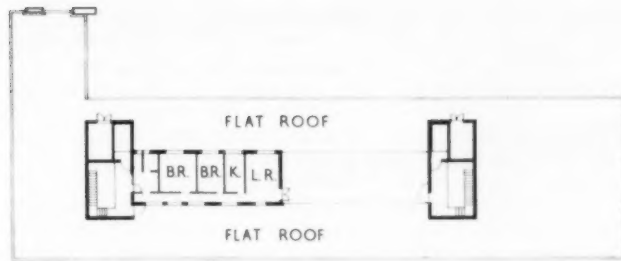
Like the LCC scheme at Shoreditch, the Hackney building has four floors opening off each side of narrow service bays which contain the staircases, goods lifts and lavatories. The entrances to the factories are from balconies which are reached either through doors enclosing the staircase or direct from the goods lift. These balconies were left open to the air (as in the earlier LCC scheme) so that if a tenant needs to haul large pieces of plant or raw materials to an upper floor, a hoist can be installed and the balcony used as a loading bay. So far, however, all the tenants have found the goods lift adequate, but complain about the nuisance of driving rain and the danger to workers of falls due to ice and snow in winter. Had it been possible to design the building for known tenants, these balconies could either have been glazed over or some kind of removable panels used.

The building has an *in situ* concrete frame and floors but the edge beams, which are the only parts of the structure expressed externally, were pre-cast and finished with exposed Cornish granite aggregate. The frame was erected under a design and construction sub-contract and the cost of this item naturally covers the design fee. The building is clad below sill level in facing brick. London stocks were used on the north and west elevations (i.e. facing Richmond Road) to suit the requirements of the Town Planning Authority. The back elevation is clad in yellow flint limes.

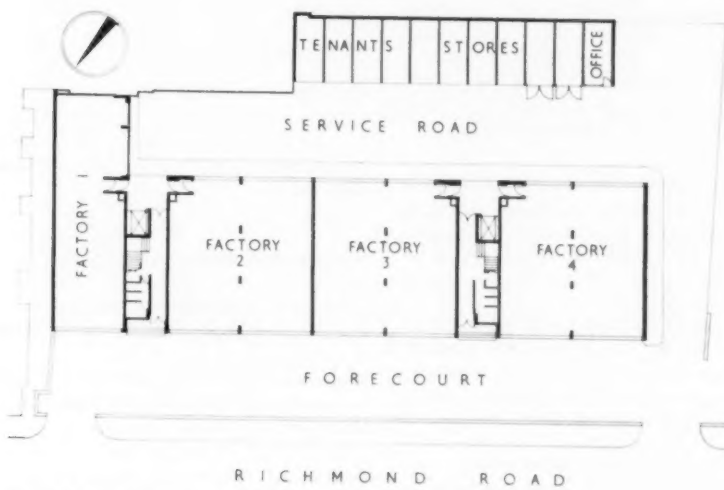
This very simple and effective elevational treatment is completed by continuous bands of metal windows painted dark blue. The architect regrets this choice of colour and wishes

The south side of the factory showing the caretaker's flat sitting rather unhappily on the roof

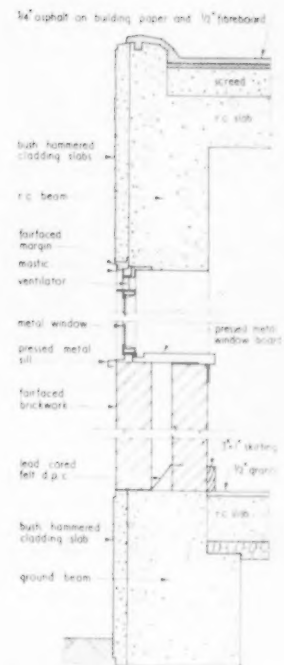




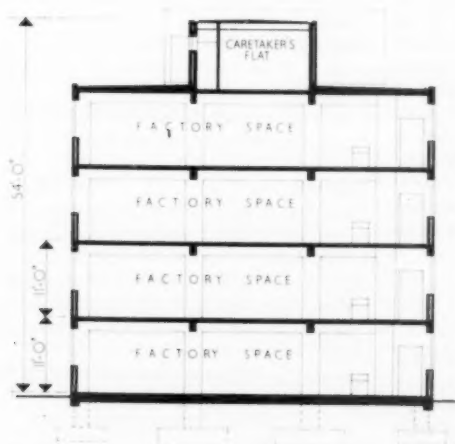
Typical upper-floor and roof plans



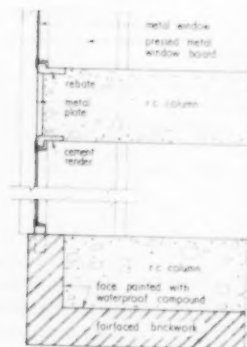
Ground floor plan [Scale: $\frac{1}{4}$ " = 1' 0"]



Typical section through external walling and windows, and (below), plan [Scale: $\frac{1}{2}$ " = 1' 0"]



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



building study—2nd series

the blue had been much darker. Better still had they been painted black.

With the exception of the balconies the only serious complaint by the tenants is the absence of central heating. With the diversity of occupiers, some of whom need little or no heat at all, and none of whom were known until the building was nearly completed, this must surely be the only practical policy for the building owner. The tenants are provided with gas, electricity and water connections and provide their own installations and fittings to suit their needs.

The tenants do in fact complain that the car parking facilities are inadequate despite the fact that the architect, only partly at the insistence of the planning authority, provided a good deal more space than the clients thought necessary.

Architecturally, the most worrying part is the treatment of the caretaker's flat. This forms an extension of one of the lift motor rooms and is finished externally in rendered brickwork. The roof is generally untidy, with its collection of pipes fixed to the tank rooms, and the change of scale from the simple and direct treatment of the factory to that of the flat is too abrupt, particularly with its banal standard metal windows.

But it was refreshing to find that the caretaker himself could find no real fault with the building; he could only think of some granolithic skirting which had worked loose. Praise indeed for a building whose occupants are not, perhaps, the most considerate of people, a structure which consequently takes a lot of very hard wear. The building is equally an asset to the district, both practically and visually and fits admirably into its environment.

PLANNING AIMS

The scheme is planned to be built in two stages, part of the site to the east not yet being available for development. Each of the four floors was divided into four units by two service cores containing goods lift, staircase, sanitary accommodation and servicing runs.

Three of the units are of similar areas, about 2,300 sq. ft., with the fourth about 1,800 sq. ft. to be eventually expanded to 4,000 sq. ft. This extension will have the effect of reducing the overall cost per sq. ft. of floor space because it will be almost entirely a net gain in floor space without corresponding additions in the costs of services, lifts and staircases which are already provided in the first stage of development.

The two middle units are capable of being combined, so providing one factory area of 4,600 sq. ft.

CLIENT'S REQUIREMENTS

The client's requirements were conditioned in the main by the controls placed upon the development of the site by the various authorities concerned: London County Council, Borough Council and Board of Trade. In effect, this meant that although the site was zoned for light industrial use, the client was not allowed to erect a factory building that could be let to one user. The authorities suggested that a flatted factory should be built; the client had then to decide whether he could build a factory of this type and show an economic return, having regard to the extra costs involved in dealing with a number of small firms. Maintenance costs had to be kept to a minimum.

SITE

The site is situated on the southern corner of the junction between Mare Street and Richmond Road, Hackney. The eastern boundary is at present occupied by one-storey shops, occupying an area which will form the second stage of this development. The southern and western boundaries of the site are similarly zoned as for light industrial use.

SUMMARY

Ground floor area: 10,241 sq. ft.

Total floor area: 42,470 sq. ft. (excluding 2,154 sq. ft. in tenants' store outbuildings).

Type of contract: RIBA with quantities.

Tender date: June 1958.

Work began: October 1958.

Work finished: October 1959.

Tender price of foundation, superstructure, installation and finishes, including drainage to collecting manhole:

£100,669 17s. 3d.

Tender price of external works and ancillary buildings, including drainage beyond collecting manhole:

£6,798 1s. 9d.

Total (tender price): £107,467 19s. 0d.

COST ANALYSIS

Based on tender.

(AJ revised elemental breakdown in use from November 10, 1960.)

	Cost per sq. ft.
s d	
Preliminaries and insurances	1 11
3.95 per cent of remainder of contract.	
Contingencies	2 4½
Work below lowest floor finish	4 11½
Excavation, 2-in. concrete blending, liquid waterproof membrane and reinforced concrete column bases, ground beams and 6-in. ground floor slab.	
STRUCTURAL ELEMENTS	
Frame, upper floors and roof structure	17 5½
Reinforced concrete columns and beams finished internally fair face throughout.	
Beams bush hammered where exposed externally.	
7-in. reinforced concrete, soffit finished fair face throughout.	
Roof	1 4½
Main roof: 6-in. reinforced concrete slab (cost included above).	
Asphalt covering on cement screed; 1,067 sq. yds., 25s. 10½d. per sq. yd.	
Caretaker's flat: timber and wood wool slab covered with asphalt; 83 sq. yds., 67s. 6d. per sq. yd.	
Cast iron rainwater goods.	
Rooflights	1
1 metal lantern light over each stairwell (2 in all); 11 sq. yds., 115s. 8d. per sq. yd.	
Staircases	10½
Two 33 ft. high × 5 ft. wide (ground to third floor), 11 ft. high × 2 ft. 6 in. wide (third to fourth floor).	
Reinforced concrete with granolithic finish to treads, risers, strings and aprons, and one coat of sprayed white factory paint on fair-faced concrete soffit.	
Simple iron balustrade and wall handrail to both staircases for full height.	
External walls	1 5½
Generally brick cavity walls in cement lime mortar.	



Pedestrian entrance facing Richmond Road

11-in. cavity wall, the inner skin in flettons finished fair face and the outer skin in stock facing bricks; 582 sq. yds., 52s. od. per sq. yd.
 11-in. cavity wall, the inner skin in flettons finished fair face and the outer skin in Uxbridge flint facing bricks; 398 sq. yds., 47s. 9d. per sq. yd.
 9-in. fletton brickwork finished fair face both sides; 213 sq. yds., 36s. 8d. per sq. yd.
 11-in. cavity wall in fletton brickwork the outer skin covered with cement and sand plain face with coloured cement wall rendering; 155 sq. yds., 46s. 8d. per sq. yd.
 9-in. fletton brickwork covered externally with plain face with coloured cement wall rendering; 160 sq. yds., 43s. 2d. per sq. yd.

Windows

Galvanised steel windows complete with external sills and casings to concrete mullions and internal window boards fixed direct to brickwork or concrete. Standard windows to caretaker's flat, purpose made windows to factory areas for full width between columns and generally 3 ft 6 in or 5 ft. 6 in high; 7,948 sq. ft., 16s. 5d. per sq. ft.

External doors

2 collapsible metal gates; 225 sq. ft., 16s. od. per sq. yd.
 Ten roller shutters; 631 sq. ft., 17s. 10d. per sq. ft.

1½-in. solid cored plywood-faced flush doors:
 2 single; 40 sq. ft., 14s. 6d. per sq. ft. 2 pairs double;
 56 sq. ft., 12s. 6d. per sq. ft.

Partitions

9-in. fletton brick walls dividing factory areas and around lift shafts and landings finished with a fair face both sides; 796 sq. yds., 40s. 8d. per sq. yd.
 Half brick walls in factory areas finished with a fair face both sides; 291 sq. yds., 32s. 4d. per sq. yd.
 3-in. lightweight concrete block partitions in caretaker's flat; 88 sq. yds., 14s. od. per sq. yd.

Internal doors

3 4½ 26 single and 6 pairs double 1½-in. skeleton framed ply-faced flush doors; 485 sq. ft.
 13 single and 2 pairs double 1½-in. solid cored ply-faced flush doors; 308 sq. ft.
 2 pairs double 1½-in. Utile solid flush panel doors in main entrances; 79 sq. ft.

Ironmongery

1½ Factory doors generally without locks, but with spring hinges or overhead door springs.

Total of structural elements: 27s 7½d

1 6½

1 2½

2½

building study

FINISHES AND FITTINGS

Wall finishes

Fair-faced brick or concrete generally in factory area.
2 coats plastering premixed with lightweight aggregate in caretaker's flat; 271 sq. yds., 5s. 11d. per sq. yd.

Floor finish

Mainly 2-in. granolithic in factory areas cast integrally with reinforced concrete floor slabs sprinkled with carborundum and treated with one coat of waterproofer and with $\frac{1}{2}$ in. \times 3 in. skirting; 443 sq. yds., 17s. 10d. per sq. yd.
Red asphalt paving and skirtings in factory w.c.s, etc., and lift lobbies; 245 sq. yds., 17s. 6d. per sq. yd.
Thermoplastic floor tiling and skirting in caretaker's flat; 76 sq. yds., 16s. 8d. per sq. yd.

Ceiling finishes

Fair-faced concrete generally in factory areas.
Plasterboard and skimming coat of plaster in caretaker's flat; 83 sq. yds., 9s. 7d. per sq. yd.

Decorations

One sprayed coat of white factory paint on fair-faced brick or concrete walls and soffits in factory areas generally.
Three coats of emulsion paint on plastered walls and soffits in caretaker's flat.
Alkaline primer and three coats of oil paint sprayed on walls and ceilings of factory w.c.s.
Primer and two coats of oil paint on woodwork and metalwork generally.
Mosaic panels in entrances; 14 sq. yds., 62s. 5d. per sq. yd.

Fittings

2 Utile letter boxes.
Kitchen cupboard, worktop, shelving and teak fireplace surround in flat.
Notice boards.

Total of finishes and fittings: 2s 9½d

SERVICES

Sanitary fittings

Type	No. of each type
Caretaker's flat:	
Porcelain enamelled bath	1
Porcelain sink with double drainer	1
White glazed fireclay low-level w.c. suite	1
White glazed fireclay lavatory basin	1
Factory areas:	
White glazed fireclay Belfast sinks	2
White glazed fireclay lavatory basins	28
White glazed fireclay high-level w.c. suites	24
White glazed fireclay 2-stall slab urinals	4
Mild steel welded sinks	16
Small plate glass mirrors	9

Waste, soil and overflow pipes

One pipe system.
Cast iron soil and stack pipes, copper waste, anti-siphonage and overflow pipes, brass traps.
Includes builder's work, $\frac{1}{2}$ d.

Cold water services

Two 9 ft. \times 5 ft. \times 8 ft. 6 in. steel sectional storage tanks.
Galvanised steel rising main and stand pipes.
Copper down services with brass stopcocks.
No. of draw-off points: 76.
Includes builder's work, $\frac{1}{2}$ d.

Hot water services

Two 125-gallon galvanised steel cylinders with insulating jackets.
Copper distributing pipes.
No. of draw-off points: 47
Includes builder's work $\frac{1}{2}$ d.

Heating services

None in factory areas.
Freestanding enamelled stove in caretaker's flat.

Gas services

Incoming main and risers to plugged tee in each factory area.
Service to two multi-point water heaters in caretaker's flat.
Includes builder's work $\frac{1}{2}$ d.

Electrical services

Sub-mains from switch rooms to each factory area and caretaker's flat.
Lighting points 376
Power points 137
Bell 1
Fire alarm bells 17
Incinerators 4
Immersion heaters 2
Lift installations 2
Fittings and lamps included for communal area only.
Includes builder's work, $\frac{3}{4}$ d.

Special services

Two single lifts for passengers and goods rising from ground to third floor. Lift speed: 50 ft. per minute.
Includes builder's work, $\frac{1}{2}$ d.
Four 2-gallon foam extinguishers and two reels of hose.

Drainage

Combined system. Cast iron pipes where under building.

Total of services: 7s 9d

External works

1,076 sq. yd. tarmac service road and dwarf brick boundary walls.
10 brick built tenants' stores with asphalt covered flat roofs, each 21 ft. \times 9 ft. internally.
Connection to sewer, $\frac{1}{2}$ d.
Connection of electrical supply, 2½d.

Total cost per sq. ft. of floor area:

£100,669 17s. 3d. (net cost, excluding external works)

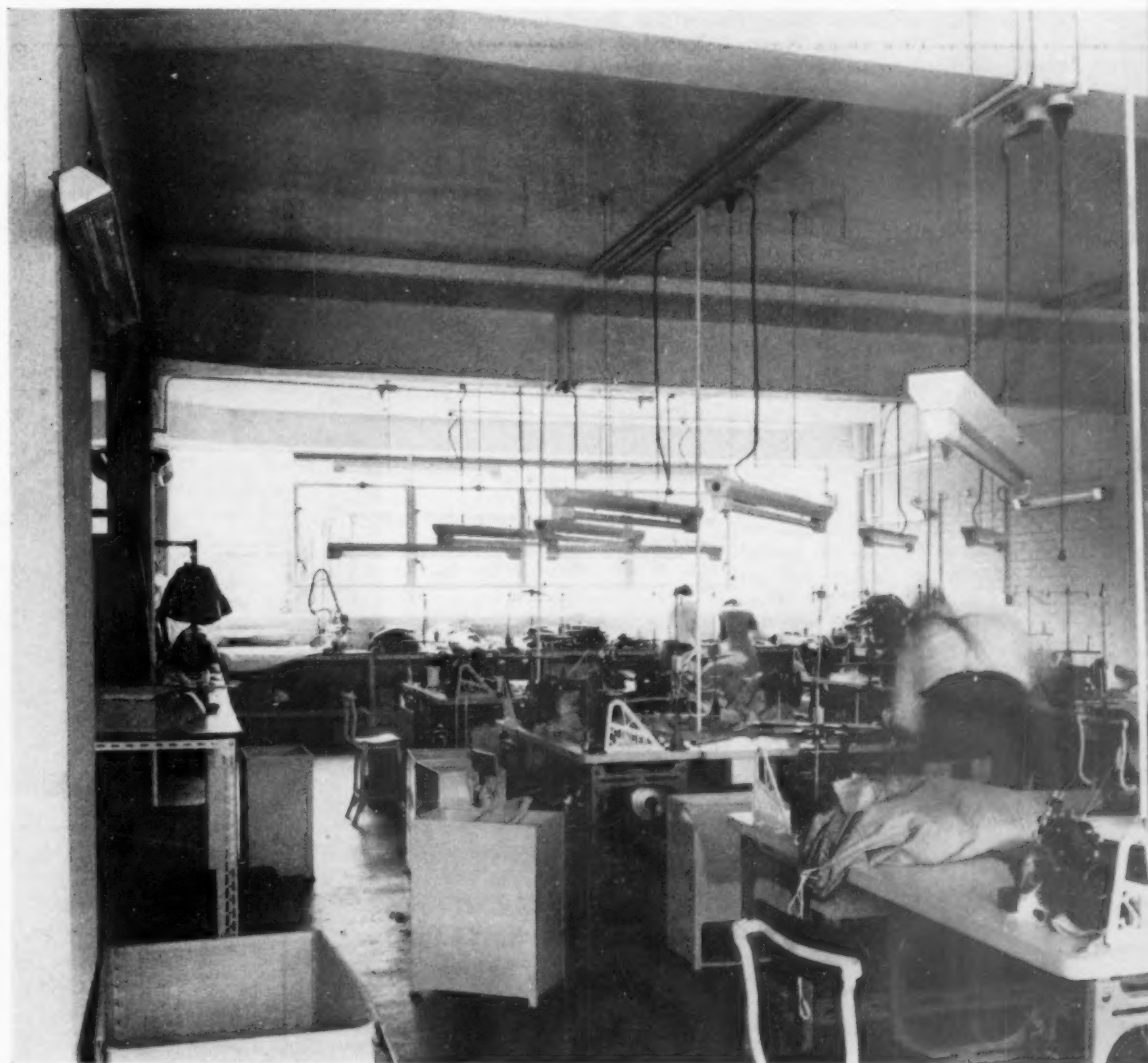
42,470 sq. ft. (measured inside external walls)

= 47 4½



The rear of the factory. The open doors on the balconies, made of steel, are the entrances to the factories. The exposed conduit for the street lamps is due to one of those all-too-easy lapses in the architect's office, but surely this problem could have been solved more neatly by tucking mineral-insulated cable along the top of the floor beam

Typical interior



COST COMMENTS

The main groups of elements in this analysis compared with previous similar schemes (Birmingham, AJ February 20, 1958, and Shoreditch, AJ April 23, 1959) are as follows:

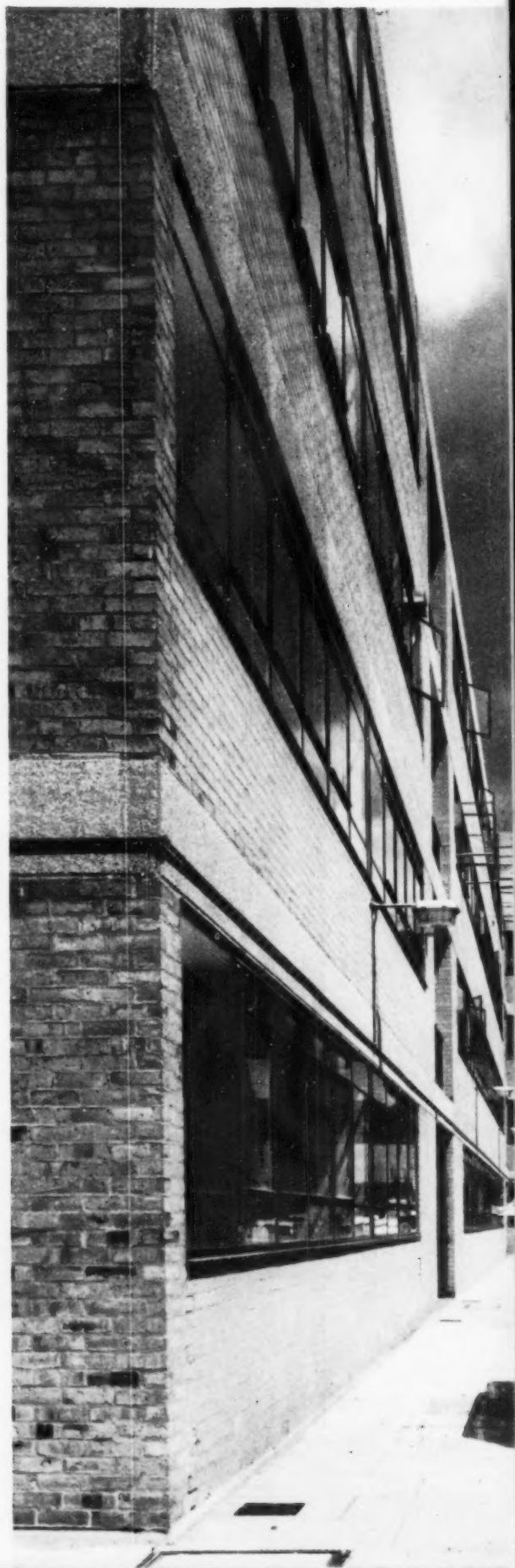
	Birmingham		Shoreditch		Hackney	
Preliminaries and foundations	8s	2½d	7s	8d	9s	2½d
Structural elements	23s	5d	22s	3½d	27s	7½d
Furnishings and fittings	4s	3½d	4s	3½d	2s	9½d
Services	8s	4d	8s	2½d	7s	9d
Totals	44s	5½d	42s	6d	47s	4½d

These costs are remarkably close, bearing in mind the rise in building prices during the period covered by this table. The three schemes provide very similar accommodation, the only important difference being that in the Birmingham one

the tenants were provided with heating, whereas in the other two they are left to provide this themselves. The most important variation in terms of distribution of money is that more has been spent in the Hackney scheme on structural elements to provide maintenance-free finishes. There has been consequently less plaster work and decoration. This fact is reflected in the considerably reduced figure for finishes, in comparison with the other two buildings. This fact is already noted in the appraisal and was one of the important requirements which emerged from the clients' brief.

CONTRACTORS

General contractors: Allen Fairhead & Sons Ltd. *Sub-contractors and suppliers—Concrete frame, columns and lintels:* Wates Ltd. *Asphalt roofing and paving:* Ragusa Asphalt Paving Co. Ltd. *Metal windows and ventilators:* Crittall Manufacturing Co. Ltd. *Lantern lights:* W. H. Heywood & Co. Ltd. *Metal door frames, steel railing and ventilators:* Clark, Hunt & Co. Ltd. *Electrical installation:* F. H. Wheeler & Co. Ltd. *Lift installation:* Hammond & Champness Ltd. *Sanitary fittings:* Stitsons Sanitary Fittings Ltd. *Steel sectional tanks:* Braithwaite & Co. Ltd. *Facing bricks:* R. Passmore & Co. Ltd. *Water main connections:* Metropolitan Water Board. *Balustrades and handrails:* Clark, Hunt & Co. Ltd. *Connections to sewers:* Hackney Borough Council. *Gas installation:* North Thames Gas Board. *Fireproof doors:* Dreadnought Fireproof Doors Ltd. *Collapsible steel gates:* Potter Rax Ltd. *Ironmongery:* Yannedis & Co. Ltd. *Thermoplastic tiles:* Semtex Ltd. *Vitreous mosaic:* Marriott & Price Ltd. *Paint:* Ripolin Ltd.



South side of factory

The BASA Editor
The Building Centre
Store Street
London WC1

Monthly supplement

BASA

Student's view

Technical Training

In connection with the Commonwealth Technical Training Week the RIBA produced a small pamphlet called *A Future in Architecture* intended to help school leavers interested in choosing a career in architecture. The pamphlet is considerably less sinister in aspect than the motives underlying the advocacy of "technical training." It presents a healthy picture of architecture as a practical job serving the needs of people as clients and users in a reasonable and imaginative way. The position of the architect in society is succinctly expressed:

"There is little that goes on in any community to which an architect cannot contribute. Buildings are the basis of most human activities. People spend their lives in a setting for which the architect is as much responsible as any man. He plays a significant part in the shaping of things to come."

While begging some high-level questions, the impression of the architect as himself an involved individual is very refreshing. So also, particularly to male students, is the statement that "architecture is a career equally suited to men and women."

The next step the RIBA could and should take in publicising the profession of architecture is to provide all secondary schools in England, Scotland, Wales and Northern Ireland with a list of recognised schools which contains some account of the quality and aims of the schools. This would be, after all, only a reasonable prerequisite of realistic choice making for school leavers.

Education Supplement

Architectural teachers have at last got together. Four years ago after BASA's initiation and considerably more since previous student societies, a central

Research on research

"The need for programmed development of investigation along defined paths, the emphasis on interdisciplinary research and the use of existing knowledge and techniques as a basis for fundamental discoveries, indicate that the organisation of research activities is a recurring problem in any age of scientific expansion."

The quotation is from *Research* by Peter Cowan (*RIBA Journal*, April 1961), which represents one of the first attempts to clarify some of the popular misconceptions surrounding the advocacy of *Research*. It is not sufficient simply to state that research is necessary without "consideration of the suitability of differing methods, techniques, or organisations, to the subject under scrutiny."

After a careful linguistic analysis of the phraseology used in discussions on research, and a classification of subjects and organisations for research, Peter Cowan turns to questions concerning students:

"Can they be given a role to play? Is it possible to train them in research? When can they make the maximum contribution to the organisation (of established research groups)?"

His answers to these problems, which bear upon the whole direction of school curricula, are roughly summarised as follows:—

Techniques of research and a suitable attitude of mind can be developed at school. But the only real way of learning research is in the use of techniques. Students do not have the necessary experience "to assess the feasibility of a subject for research and of the best way to go about it." Students could join research projects in schools and universities, then work outside research "to assess the problems facing the profession as a whole and decide on the field of study which most interests the particular individual," after which it should be possible to return to research and make a really useful contribution. "The feedback of ideas from the undergraduate-practice-research process will avert the sterility that sometimes occurs when postgraduate research immediately follows undergraduate work."

Peter Cowan's paper deserves to be widely read by all who profess to be concerned with the future of architecture and architectural education.

organisation has been set up to provide material for the new Architectural Education Supplement to the AJ—and, one hopes, to provide wider opportunities for inter-school co-operation at staff level.

The teachers concerned in bringing this excellent idea to fruition deserve the warmest congratulations, and BASA would like to share with members of the profession also concerned with architectural education, in wishing

every success to this new venture.

Magazines

Student congratulates the editor of *Accent*, the magazine of Leeds College of Art; *Outlet*, the Bartlett School publication; and of the first *Archigram*. All these are well worth buying.

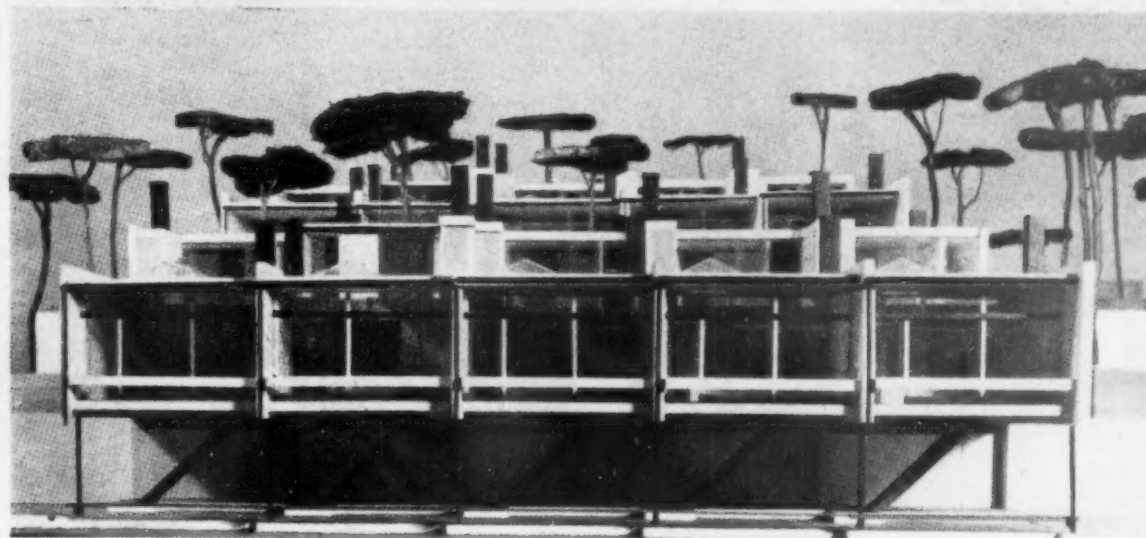
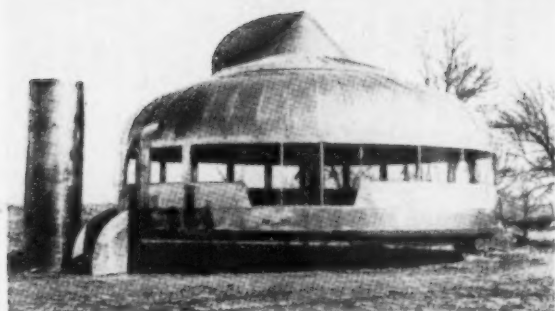
Accent and *Outlet* may be obtained from Tirantis, Charlotte Street, or from *Accent*, 43A Woodhouse Lane, Leeds 2; and *Outlet*, Bartlett School, V.C.L., Gower Street, W.C.1.

Cost, inclusive of food, accommodation and booking fee of 10s. 6d.: for members 3 guineas; for associates 3½ guineas; for non-members 4 guineas. Booking form overleaf.

FOURTH BASA CONFERENCE ON ARCHITECTURAL EDUCATION TO BE HELD AT YORK INSTITUTE OF ADVANCED ARCHITECTURAL STUDIES

THE BASIS FOR DESIGN

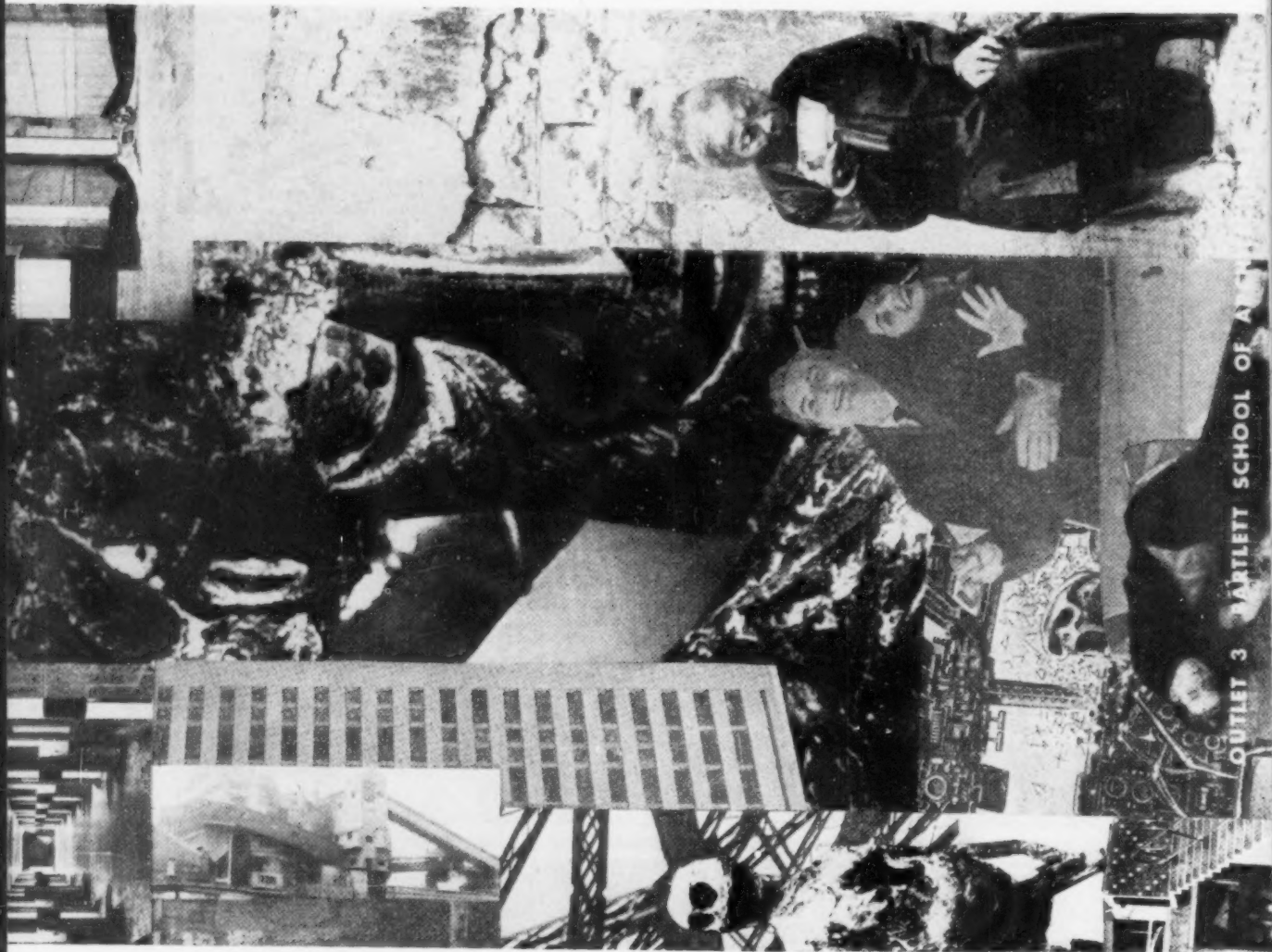
Friday September 1 - Sunday September 3 1961



Left: Cover of Outlet 3

and that to do so is an all too easy escape from really analysing the nature and direction of our society. Reservations are also expressed about the projects of James Stirling and Bill Howell. There is a paper by Sherv Lal on control systems and information. He considers the latter in terms of statistical regularity exhibited by an orderly arrangement of signs. The experiences of a person who actually lives in Chandigarh are described by Paul Vernon. What he has to say is by its very nature subjective, but precisely because of this it has a value to architects. Users' reactions to the buildings they live in are as important as the requirements which determined them. Shaun Johnston writes on the biochemical modulus, hoping that the vision of Man which he has put forward will help one to build in his true image. Louis Mario Hellman provides a verbal Beaux-Arts Blues and was also responsible for the funnies.

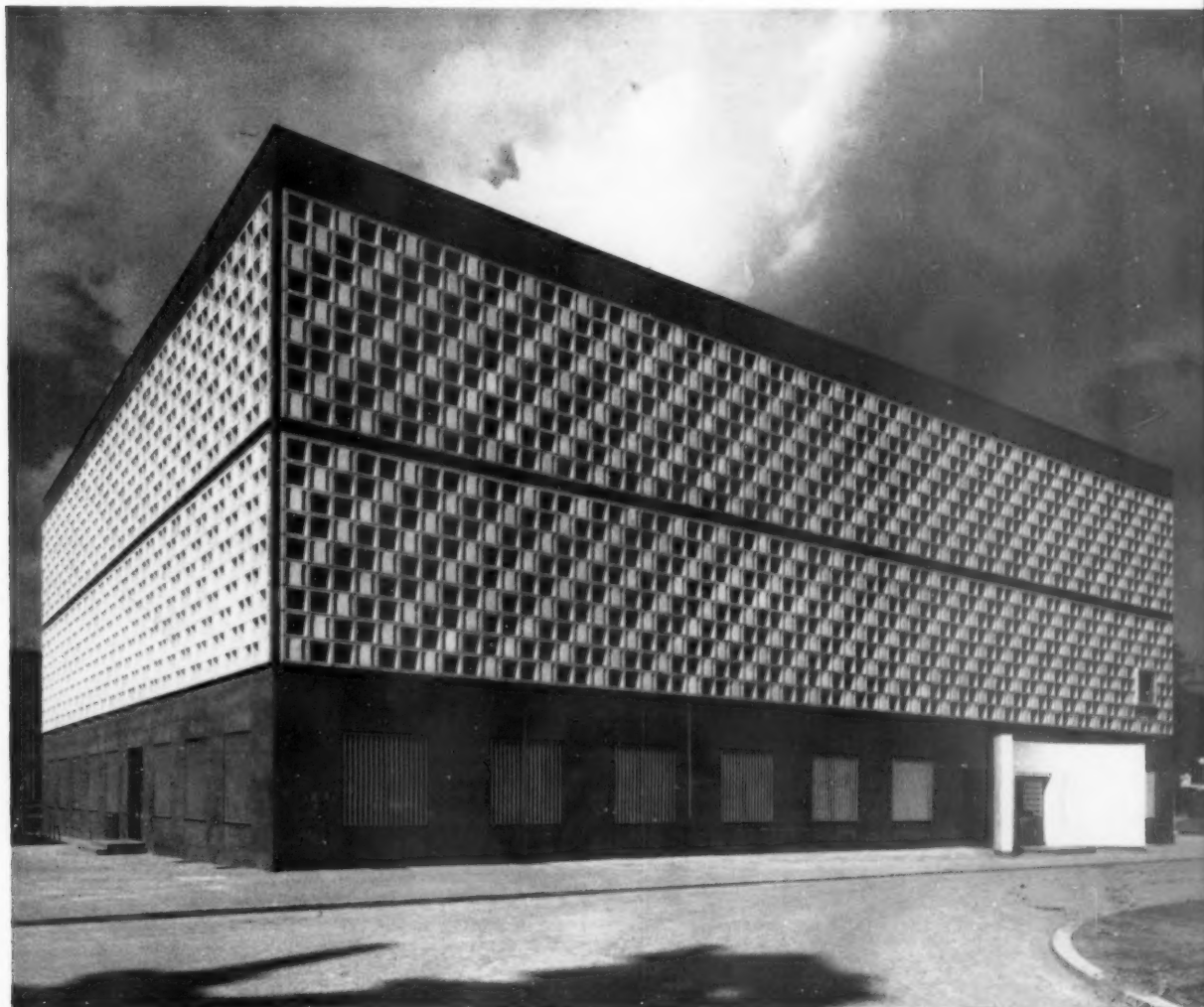
Archigram Paper One, edited by David Usborne, contains a statement of the standpoint of the new generation of architects by David Greene and Peter Cook. It demands that forms and spaces should reject precepts of design, history, curtains and graphpaper. It accepts those of homogeneity, travellers, expendability and Thelonious Monk. This thesis is illustrated with various projects which at least are consistent in so far as all of them reject a rational thought process. What this publication lacks in length it makes up with a serpentine layout in the form of a folder which keeps one deeply involved for a considerable time merely in deciphering the content. The authors might care to take a look at Descartes' Discourse on Method, now available as a Penguin Classic, before they offer any further material. MAURICE GOLDRING



Union, gives every indication of being quite at home in its own established tradition. Canon Collins answers a questionnaire covering the need for the Christian to participate actively in contemporary moral issues, the problem of whether the artist occupies a responsible position in society, and the constructive ideals that society must hold for the future. John Tempest writes on the individual and his society. Michael Mitchell deals with the individual/subjective and objective aesthetics. The preoccupation with the individual in these contributions is also supported by the editorial. It is therefore refreshing to come to an article on plastics and design considerations by Kenneth Turner and Arthur Quarmby, a brief introduction to the classes of materials at present available, thoughts on architectural education and plastics and some considerations on plastics design. *Outlet 3*, published by the Bartlett School of Architecture, has a wide horizon. In the editorial, Robin Moore says that in drawing on the potential of both students and staff, it hopes to show that Man has many images and that these are all relevant to the architectural student and to the architect. Professor Richard Llewellyn Davies contributes a letter to students. There are some observations on social change in the Greek island of Skyros by Michael Cassidy. He points out that this has occurred independently of the continuing pattern of peasant farming. An article by Peter Cowan defines the field of communication theory and explains how it can be applied to linguistics, particularly the study of the special languages used by vocational groups. Rural renewal is discussed by John Girling and Philip Boyle. The conclusion is reached that any attempt to reconstruct the village pattern socially or physically will fail,

GLAZED SCREEN: MUSEUM IN HANOVER

Werner Dierschke, Städt Baudirektor. (Material supplied by C. C. Harding)

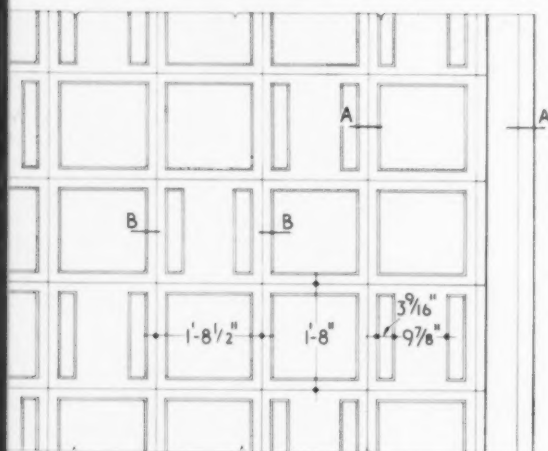


This screen of glazed precast concrete units completely encloses an existing nineteenth-century museum building and in this way serves to provide considerable added space. The units are glazed with translucent (but not transparent) glass and thus produce a diffused light within.

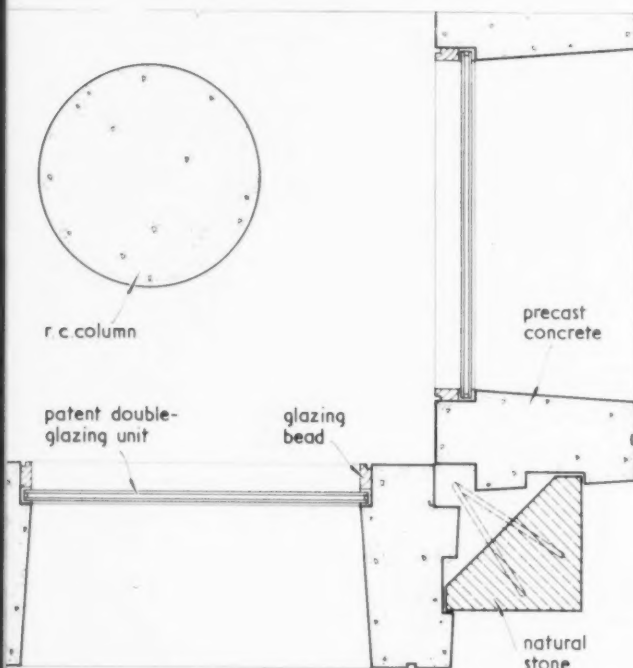
working detail

GLAZED SCREEN: MUSEUM IN HANOVER

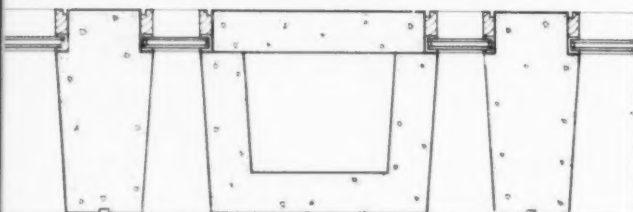
Werner Dierschke, Stadt Baudirektor. (Material supplied by C. C. Harding)



PART ELEVATION. scale $\frac{3}{8}'' = 1'-0''$

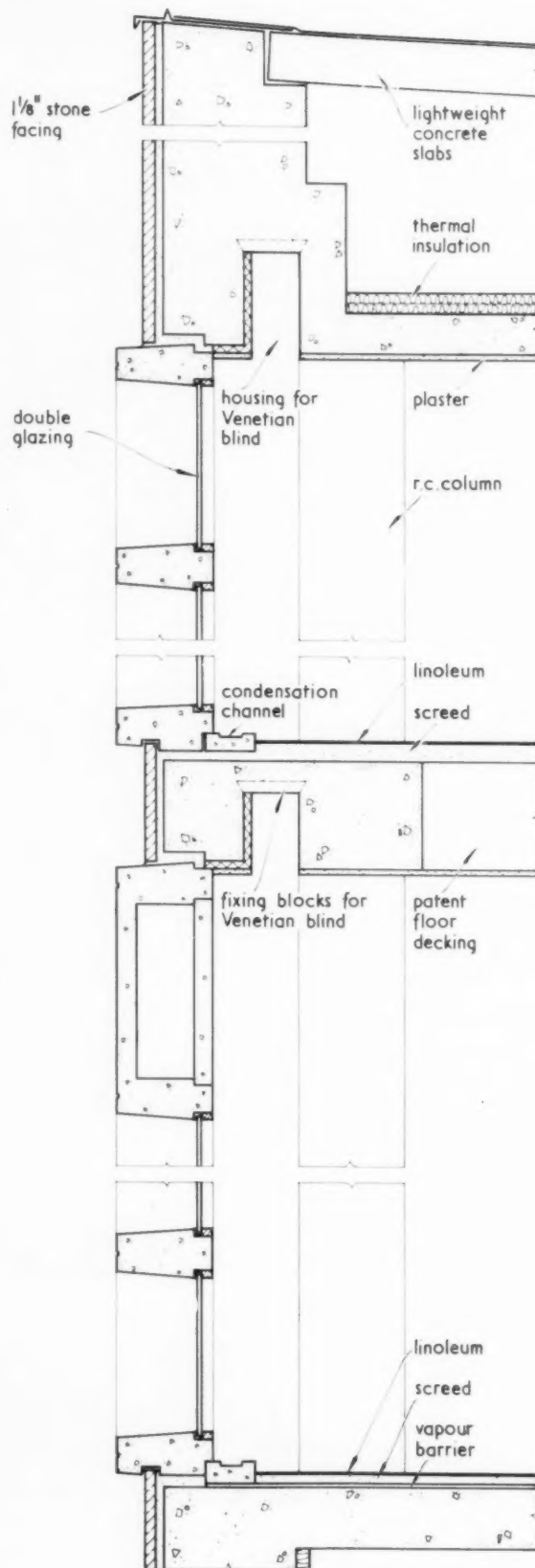


PLAN AT A-A. scale $\frac{1}{2}'' = 1'-0''$



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

(21) G
WALLS AND PARTITIONS: 116



VERTICAL SECTION. scale $\frac{3}{4}'' = 1'-0''$

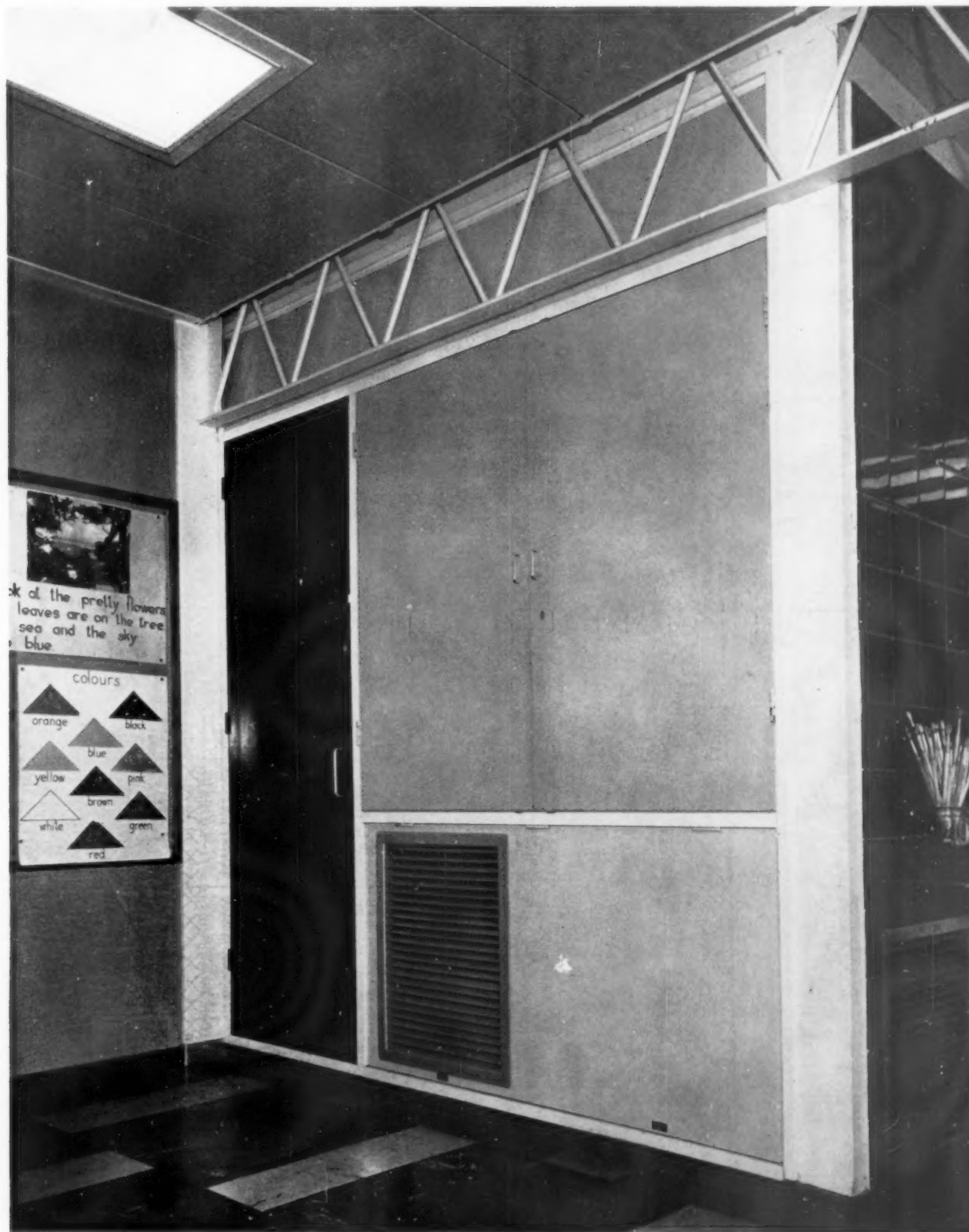
note: figured dimensions in feet and inches are approximate

working detail

WATER SUPPLY AND SANITATION: 12

LAVATORY UNIT: SCHOOL AT CHESHUNT

G. C. Fardell, Architect to the Hertfordshire County Council

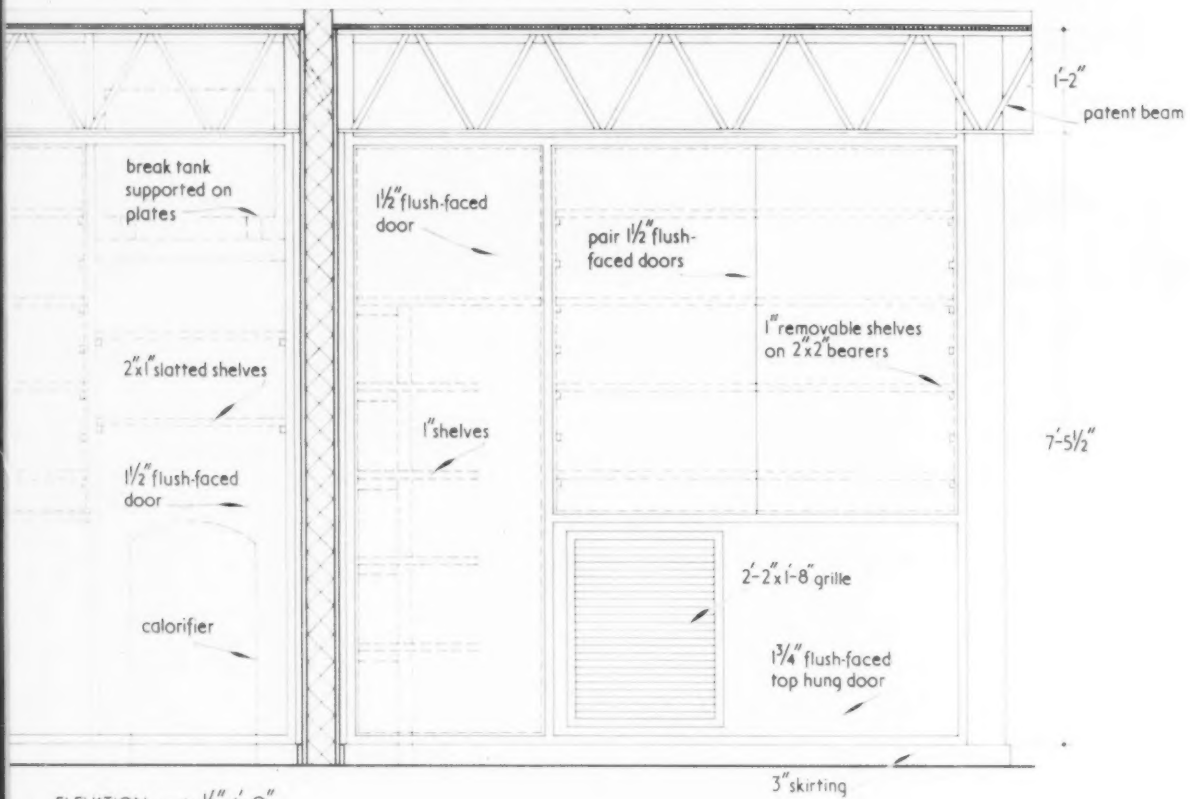


This arrangement, which groups together w.c.s, lavatory basins, sink, warm air heater and teacher's storage, has been developed in Hertfordshire over a number of years for use in primary schools to provide each classroom with independent facilities in a compact and economic way. As a further step, units serving two adjacent classrooms are usually placed side by side to share a calorifier.

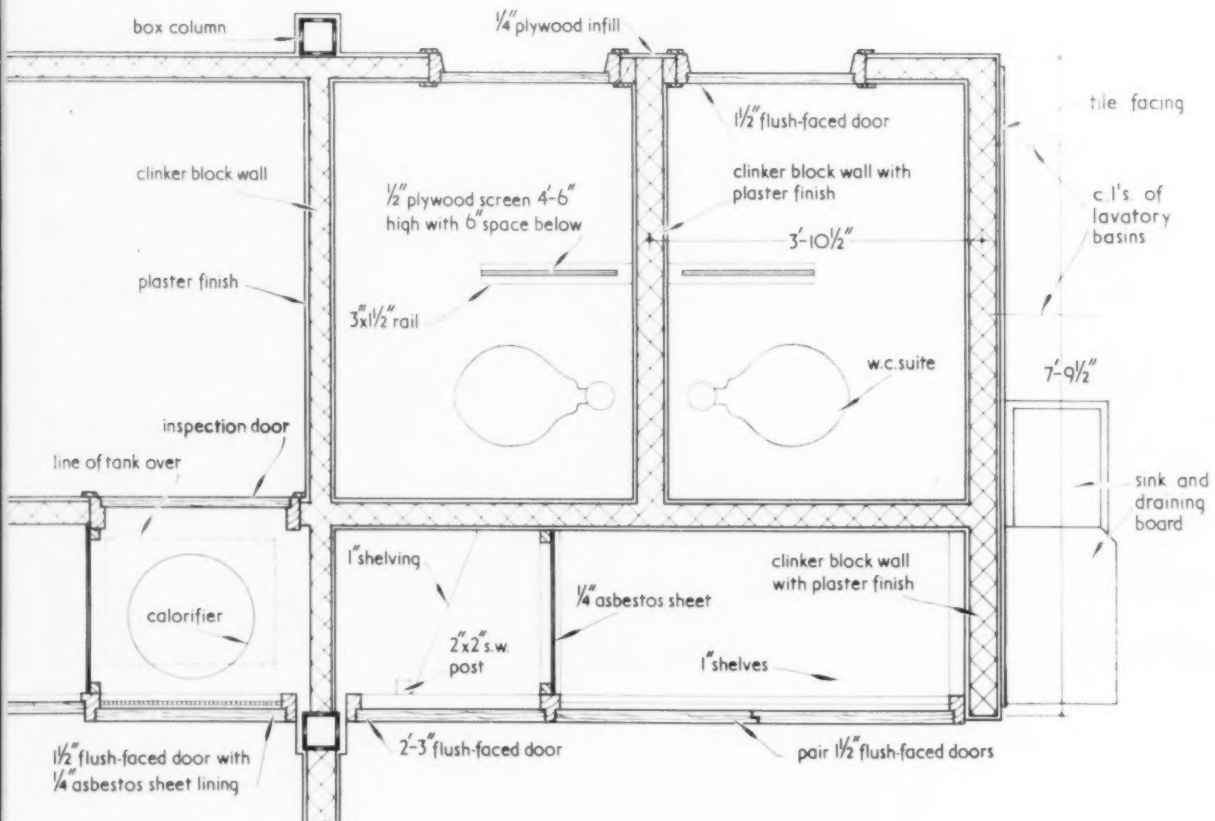
working detail**WATER SUPPLY AND SANITATION: 12**

LAVATORY UNIT: SCHOOL AT CHESHUNT

G. C. Fardell, Architect to the Hertfordshire County Council



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



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

above all...

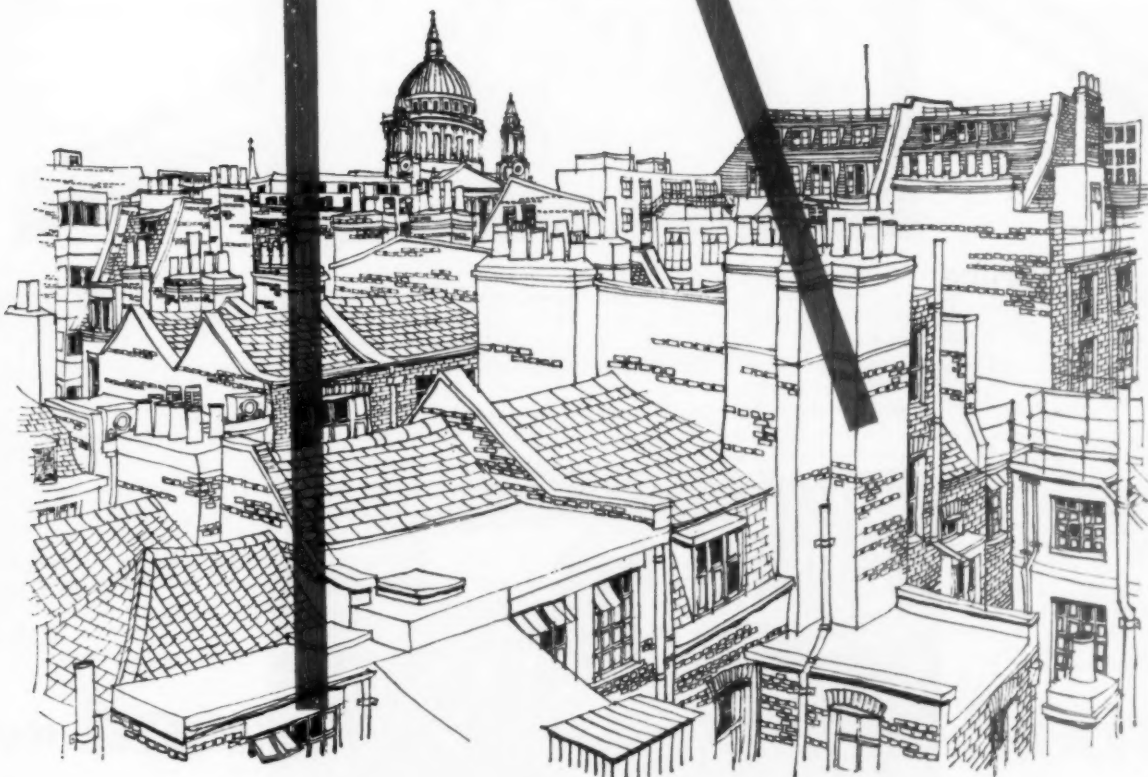
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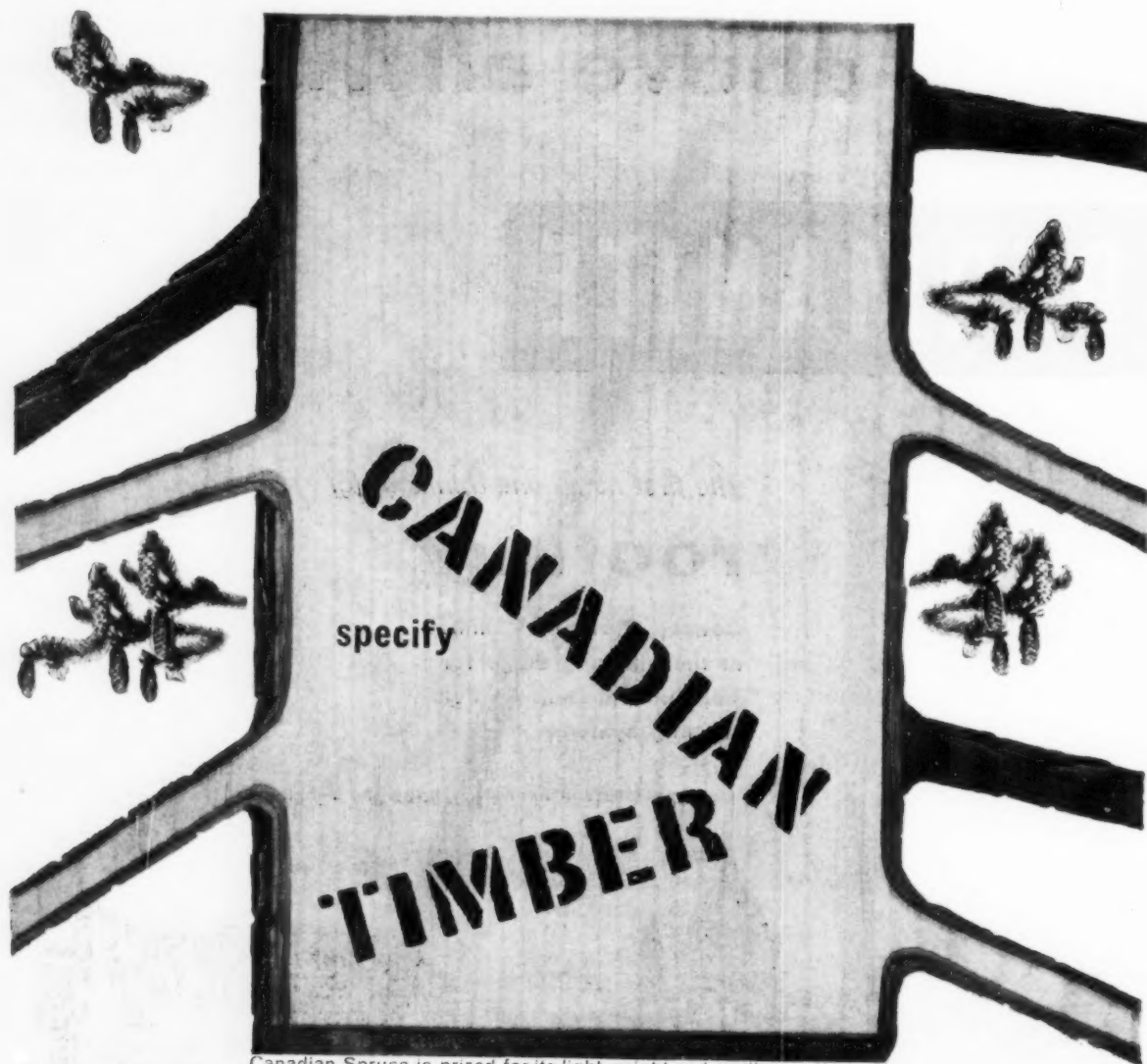
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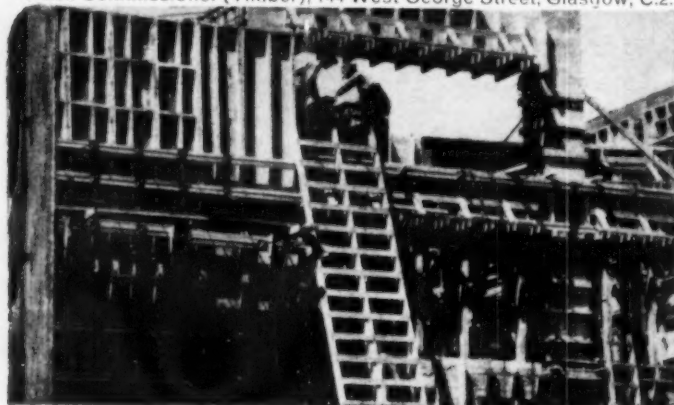
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THE ARCHITECTS' JOURNAL for July 5, 1961



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Announcements

PROFESSIONAL

After 38 years' service, Stewart Sim, one of the Senior Architects in the Scottish Headquarters of the MOW, retired last month. He was trained in Edinburgh City Architect's Office and the College of Art and after military service in World War I entered the Office of Works.

Among the many important and varied Government buildings he designed is HM Stationery Office at Sighthill, the first multi-storey prestressed concrete building in the country.

He has been President of the Edinburgh Royal College of Art Former Students' Association, and served on the Councils of the Edinburgh Architectural Association, the RIAS and the Edinburgh Geological Society.

Peter H. F. Stiles, FRIBA, has moved his office to Grays Inn Chambers, 20, High Holborn, London, WC1 (telephone Holborn 3061).

Sir Percy Thomas has retired from practice but remains as consultant to the firm of Sir Percy Thomas and Son, in addition to carrying out his own consulting work. The

practice will continue under the existing title with N. Thomas as senior partner, W. Marsden and W. Sweet as partners, H. Mendus, D. Owen, S. James and P. Newton as associate partners.

John J. M. Smith, ARIBA, of 9, Devereux Court, Strand, London, WC2, has recently opened an office at 79d, Cranbrook Road, Ilford, Essex (telephone Valiant 9177), where he will be pleased to receive trade literature.

T. A. Larkin, ARIBA, MIA, has opened a branch office for Messrs. Stucke, Harrison, Ritchie and Watson at Corner House, 2, Stockdale Street, Kimberley, South Africa, and will be pleased to receive trade catalogues.

H. Finlay, ARICS, of Fenwick House, 289/293, High Holborn, London, WC1, has taken into partnership Brian J. C. Mather, ARICS, as from July 1, 1961. The practice will be continued as Finlay, Mather & Partners, chartered quantity surveyors, from the same address (telephone Chancery 4888).

P. Powell and H. Moya have taken R. Henley and P. Skinner into partnership. The practice continues as Powell and Moya at 36, Great Smith Street, London, SW1.

TRADE

Turner and Newall Ltd. intend building a factory in Eastern Nigeria, providing work for 300 Nigerians. The name of the new public company formed in Nigeria is Turners Asbestos Cement (Nigeria) Ltd.

R. Padovan, AADipl, ARIBA, has been appointed staff architect to Middlesex Prefabricated Buildings Ltd., of JEL Group of Companies, Hounslow, Middlesex.

O. Lauritzen takes up his duties as promotion manager, responsible development work in home and overseas markets, at BCLMA's head office in Vancouver this month. R. Bennet has been responsible as timber development director in this country since June 1.

R. F. G. Lea, deputy chairman and joint managing director of CIBA (ARL) Ltd., Duxford, Cambridge, is now a director of CIBA Clayton Ltd., Manchester.

Alcan Industries Ltd., formerly Northern Aluminium Co. Ltd., state that their Luton sales office territory will take in Oxfordshire, southern portions of Buckinghamshire and Essex. The company's Luton office, 57, Bute Street, Luton, now assumes area status. J. Rayner is still manager of

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the office. Luton office covers the area of Bedfordshire, Buckinghamshire, Cambridgeshire, Essex, Hertfordshire, Huntingdonshire, Norfolk, Northamptonshire, Oxfordshire, Soke of Peterborough, and Suffolk.

A/S Junckers Sawmill, Denmark, have formed an affiliated company in London—Junckers (London) Ltd.—whose offices are at 17, Hanover Square, W1 (telephone Hyde Park 8574 and 8522). James Webster and Bro. Ltd. continue to serve buyers in northern England and in Scotland. Bryan Mann is to be manager of the company in London.

The four new directors on the board of The Ruberoid Co. Ltd., are T. Alison, director of sales; J. Grant, BSC, AMIMECHE, director of development; Colonel G. Hunter-Brown, OBE, MA, MICE, MIMCHE, director of contracts; W. Parsons, BA(cantab), director of production.

York Institute autumn courses

The Institute of Advanced Architectural Studies at York has announced a series of courses for this autumn, as follows:

Design Opportunities in Timber: a survey of recent international developments and design possibilities in the use of timber, held in conjunction with the Timber Development Association.

SEPTEMBER 15-19

Waterside Buildings and Waterscape: There has been little study of buildings for pleasure beside water, inland or at the sea, nor of the possibility of creating new water amenities, in view of the increasing possibilities and problems of leisure. This course has particular relevance for local authorities.

SEPTEMBER 23-OCTOBER 3

Colour in Architecture: Designed for architects and members of amenity societies, the course is designed to correlate existing know-

ledge and suggest new approaches to the problem of using colour constructively in architecture.

OCTOBER 6-10

Architectural Project Management: Intended for architects, surveyors, civil engineers and builders, the course is intended to fulfil the increasingly recognised need for some form of post-graduate training in management. Problems arising for all sizes of office from the small private practice to the municipal architect's department will be discussed.

OCTOBER 13-17

Factory Design: Significant modern advances in this field, of high importance to the national economy, will be discussed, in a course intended for actively interested designers.

OCTOBER 20-24

Corrections

In the report of the ss Canberra (AJ June 22) certain attributions for the design of the ship should be amended as follows: Coordinating interior designer for all public rooms: Sir Hugh Casson in association with McInnes, Gardner & Partners. First class rooms: Sir Hugh Casson and Timothy

Rendle, Barry Banyard, assistant. The location indicator was designed by David Collins.

In the report on the TCPA Forum (AJ June 15) Mr. Nesbitt should have been described as an LCC assistant valuer.

In the JOURNAL for June 15 ASTRAGAL described Colwyn Foulkes as the architectural and landscape consultant for the Ffestiniog pumped-storage scheme. We have been reminded that he should have included also Clifford Tee & Gale, who are the executive architects for this project.

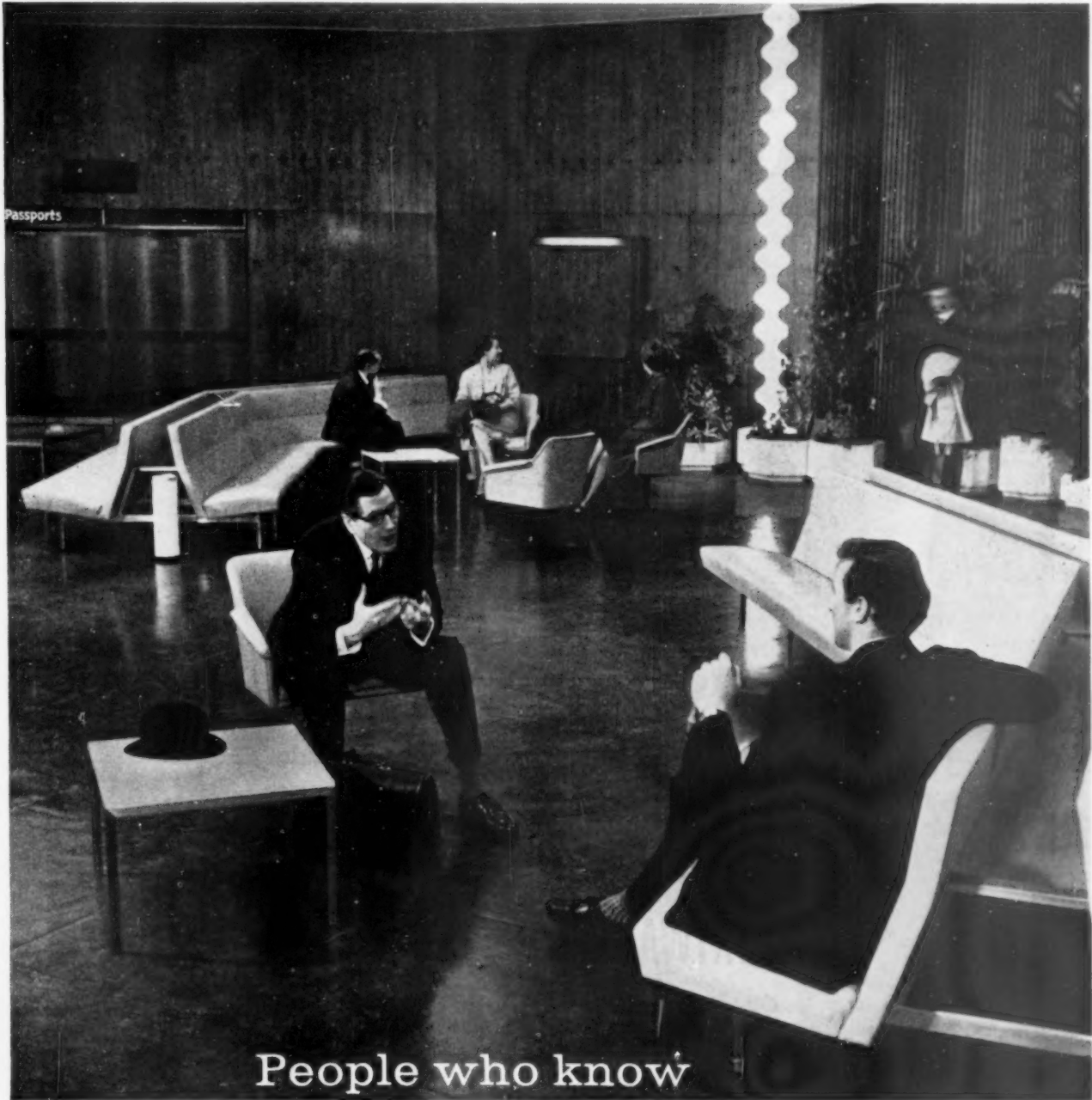
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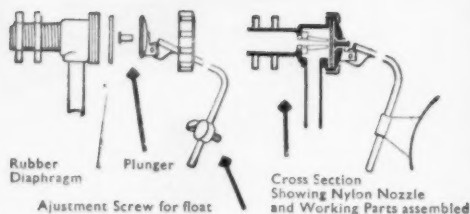
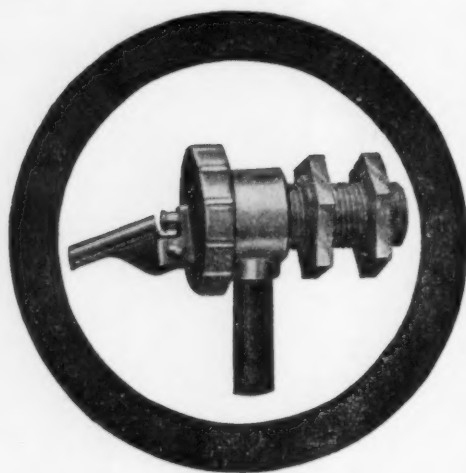


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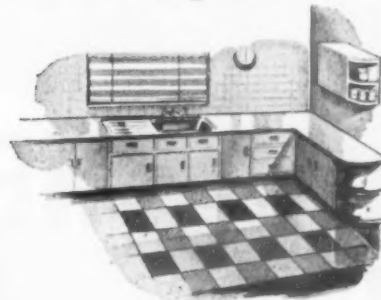
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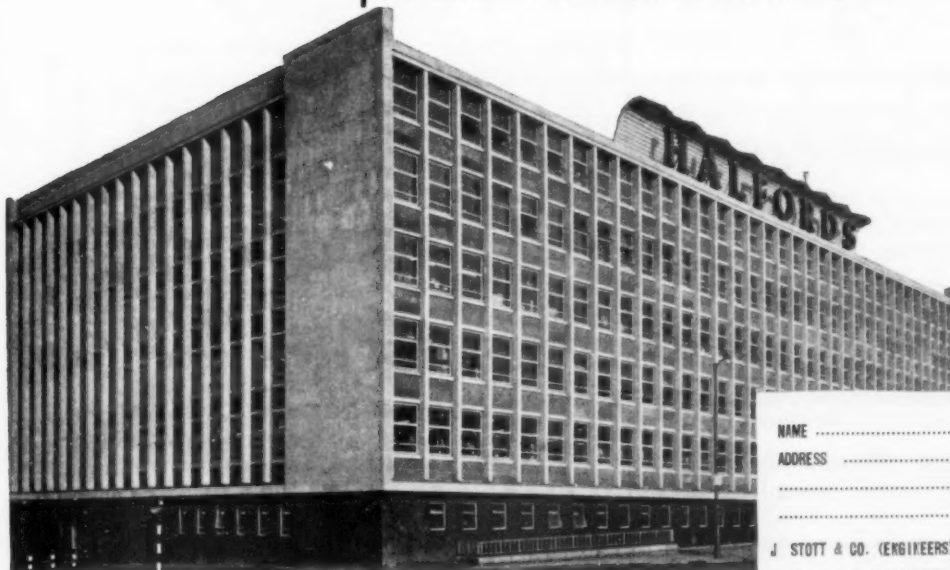
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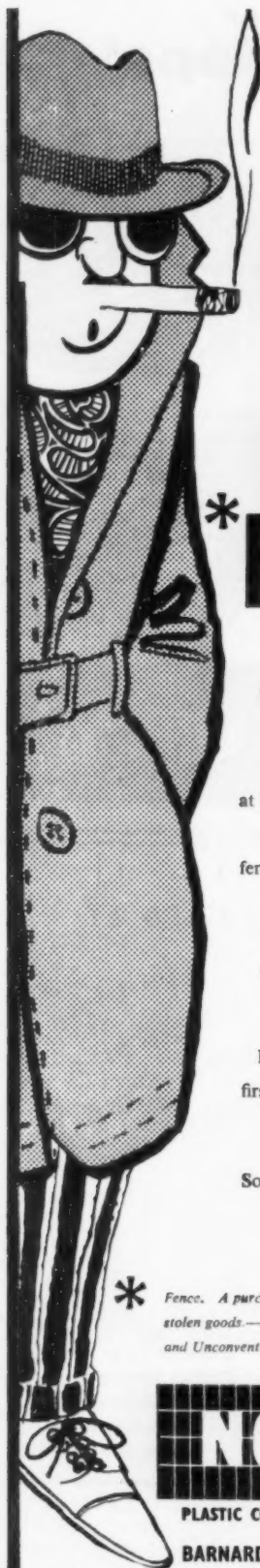
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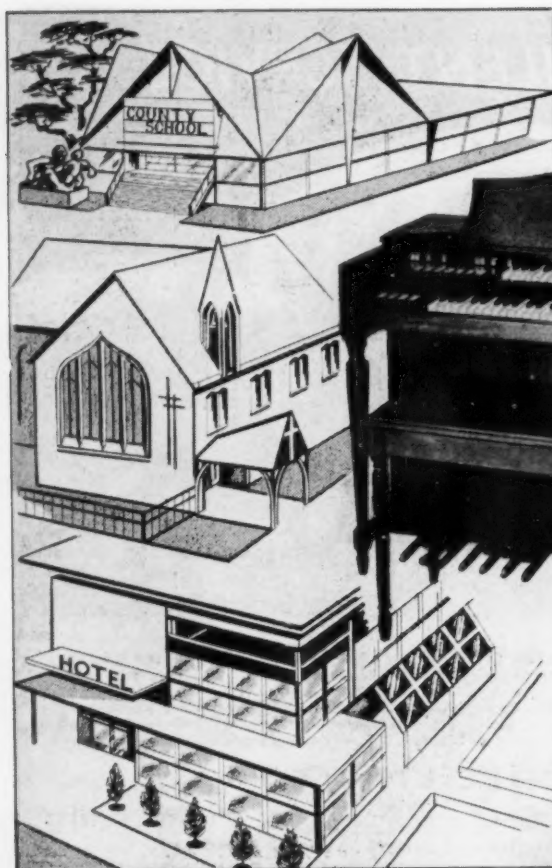
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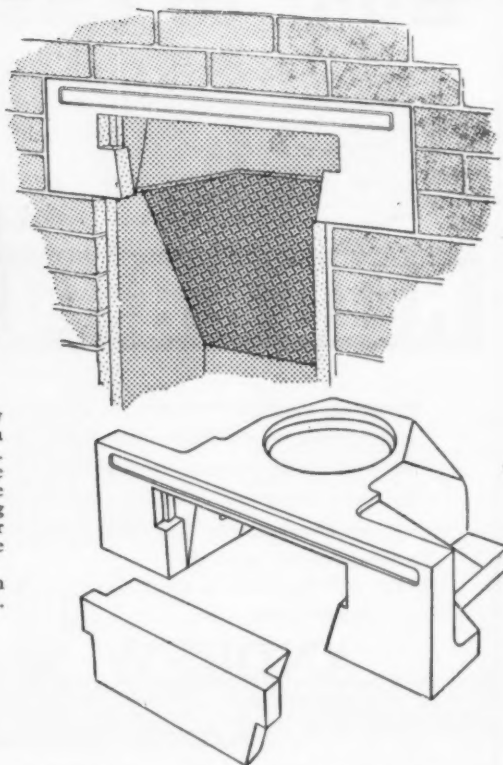
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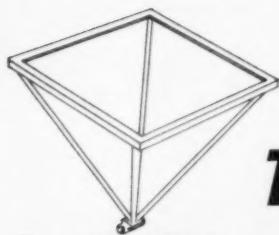
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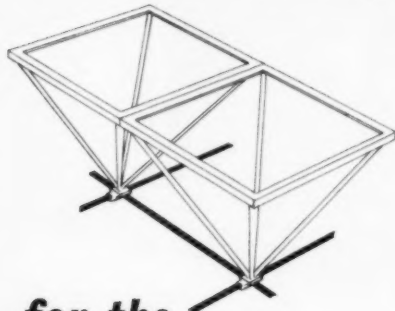


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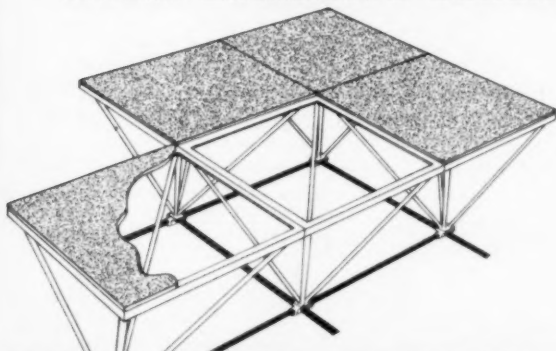
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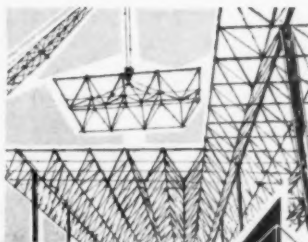
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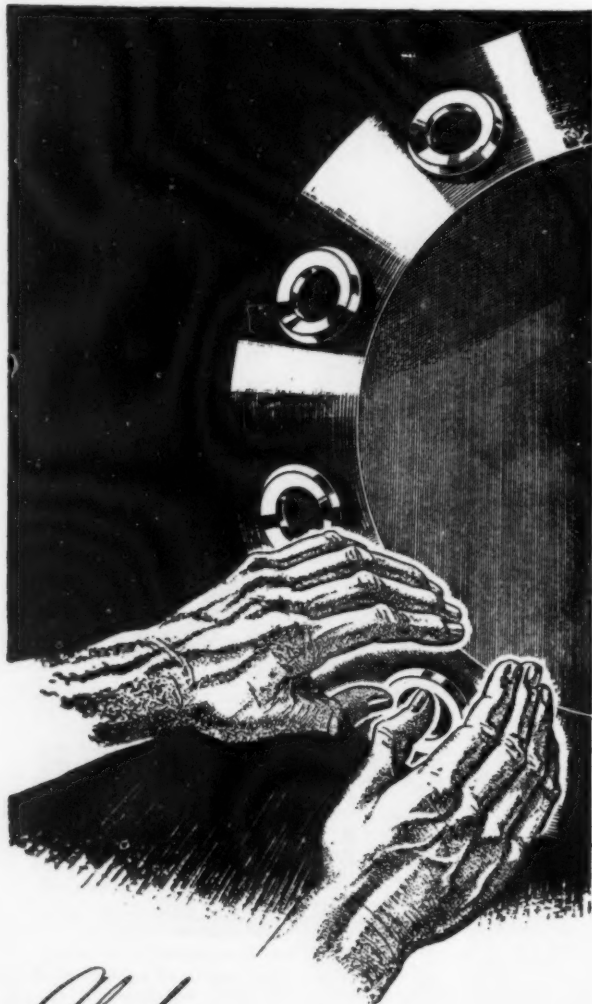
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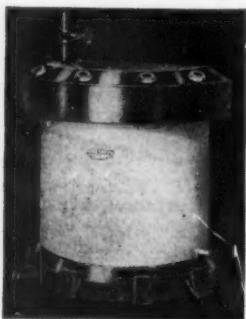
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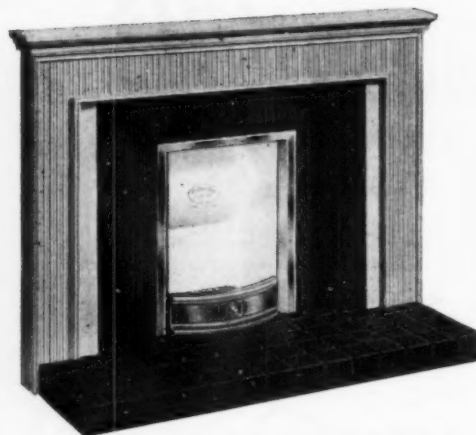
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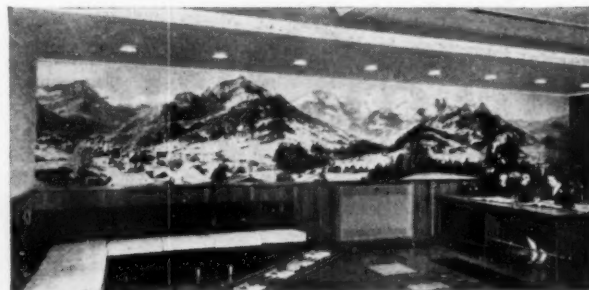
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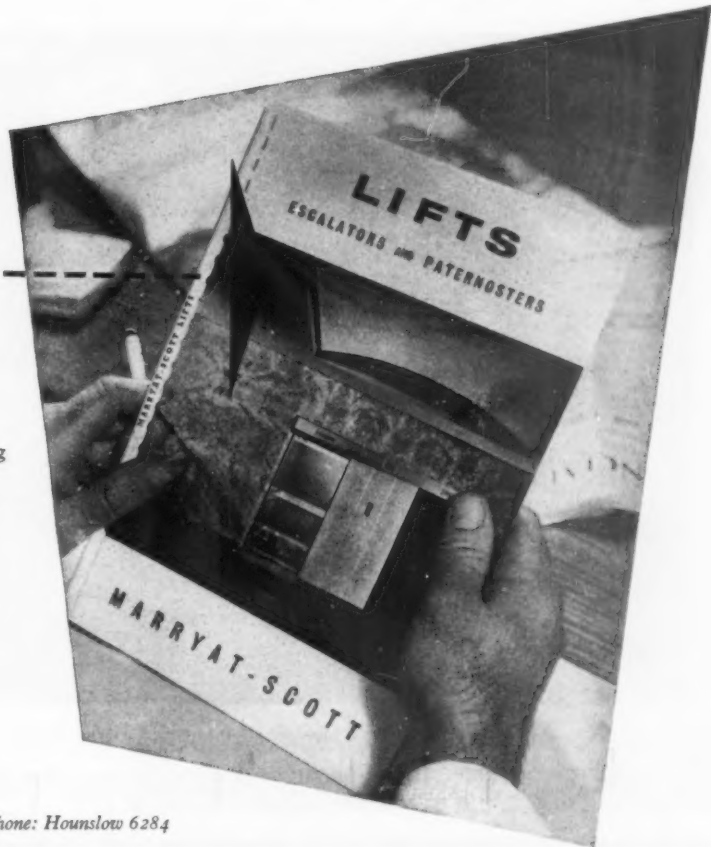
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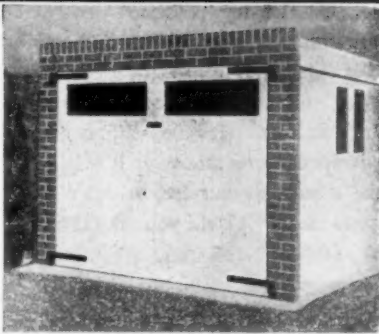


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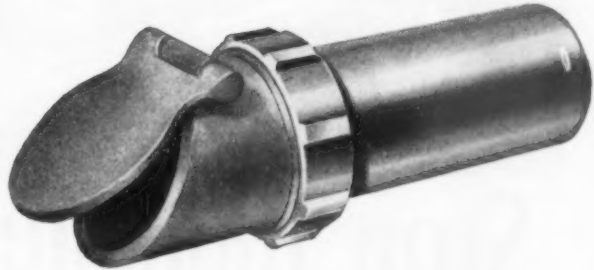
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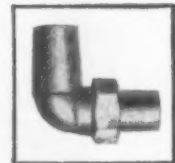


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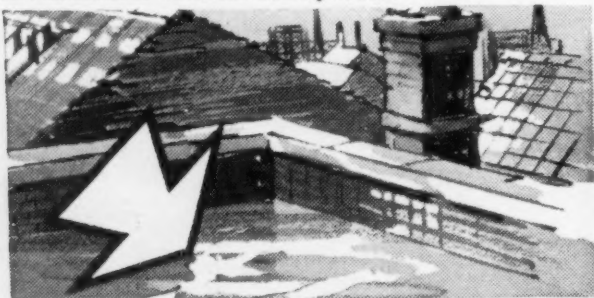
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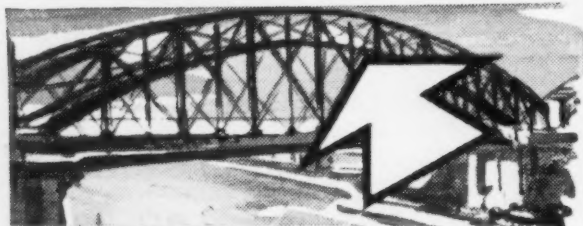
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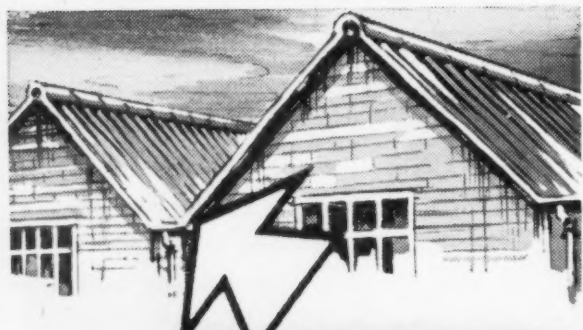
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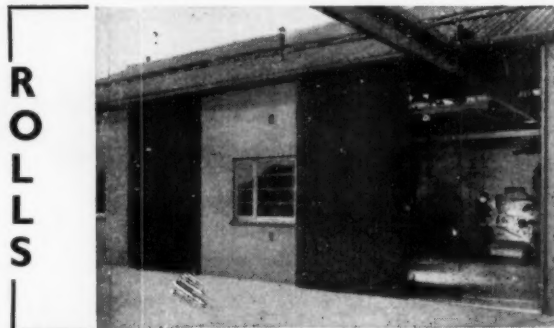
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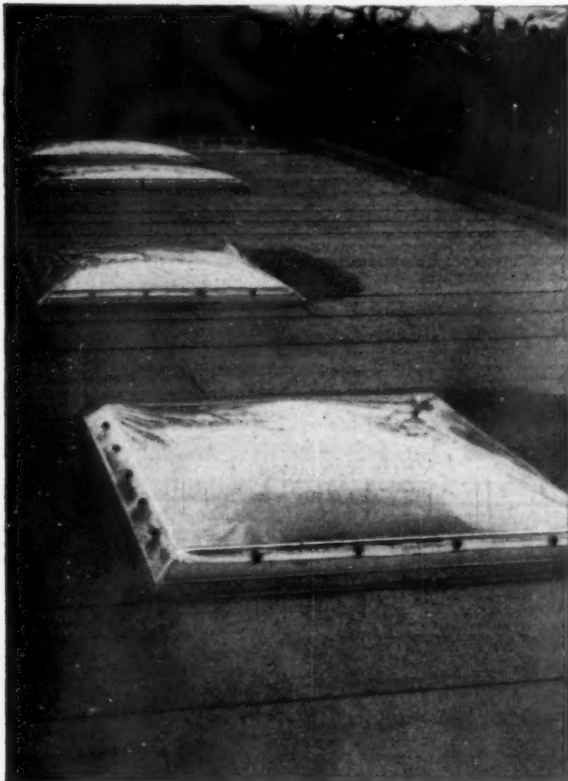
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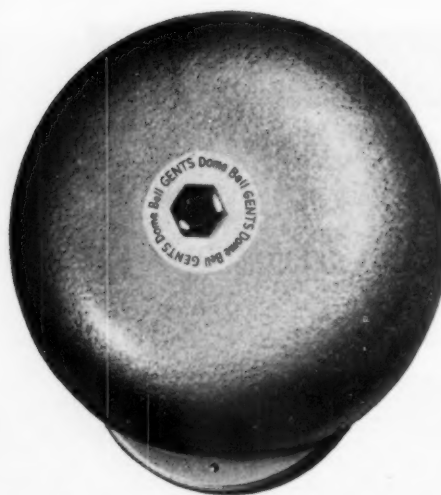


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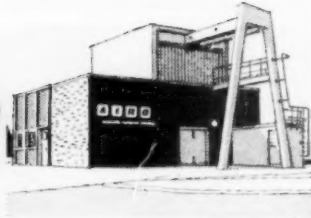


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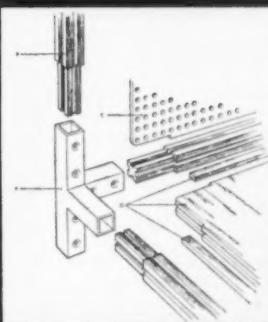
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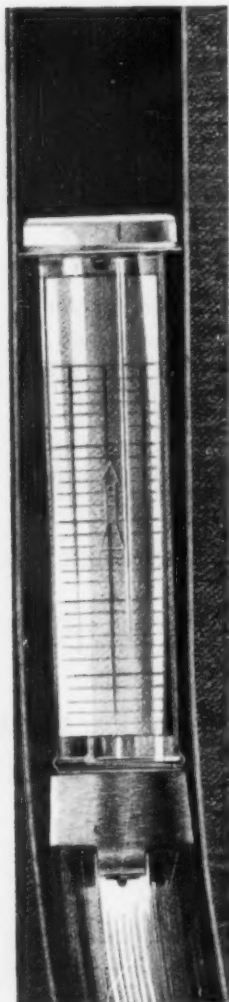
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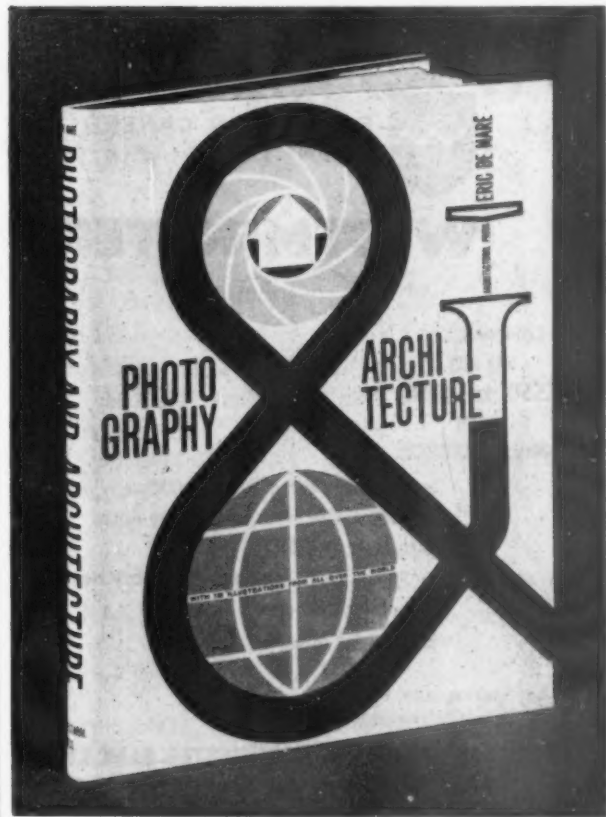
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Please write fully in confidence to the

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Candidates should have had at least 5 years'
office experience; previous overseas experience
would be an advantage, but is not essential.

Evening or week-end interviews can be arranged.

Please write to:—Personnel Manager,
111, Westminster Bridge Road, London, S.E.1.

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*Please write in confidence, giving full details
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Personnel Officer, at the above address Quoting
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THE ARCHITECTS' JOURNAL for July 5, 1961



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
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aged 25 to 30, in their Research and Development
Department at Tyseley, Birmingham, to be responsible
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the building and civil engineering industries.

This is a promising opportunity for a man with a sound
training in the principles of design and construction to
specialise on the properties and applications of the
increasingly important plastics materials, some of which are
already established and others in course of development.

The appointment is intended to be progressive, and the
starting salary will be attractive.

Architects likely to be interested are invited to write for a
summary of the responsibilities of the position, which
should enable them to decide whether they wish to apply
for an interview. The request should be addressed to the

RESEARCH & DEVELOPMENT MANAGER,
BAKELITE LIMITED

Redfern Road, Tyseley,
BIRMINGHAM, 11

THE LAING HOUSING COMPANY LIMITED

requires

ARCHITECTS AND ARCHITECTURAL ASSISTANTS

for their Head Office at Edgware, Middlesex.

Architects should be qualified, preferably with some
years' experience. They would be required to
work on preliminary investigation for, and the
imaginative development of, new housing types
in a contemporary idiom compatible with realistic
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Architectural Assistants should have experience
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These positions are permanent, and offer scope for
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Applications, giving brief details, to Group Personnel
Manager (PF.3), John Laing and Son Limited,
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CUMBERNAULD DEVELOPMENT CORPORATION

A vacancy exists in the Department of the Chief
Architect & Planning Officer for a

SENIOR LANDSCAPE ARCHITECT

The post offers an interesting variety of work in the
landscaping of housing areas and roads in this
NEW TOWN DEVELOPMENT and the successful
applicants should have had at least five years'
post-training experience in either or both of these
fields.

Salary—Whitley Council for New Towns Staff'
APT.VI/VII £1,305–£1,670 per annum, with placing
according to experience.

Assistance with housing accommodation will be
given where appropriate.

Five-day week.

Application forms may be obtained from the General
Manager, Cumbernauld Development Corporation,
Cumbernauld House, Cumbernauld, Glasgow. The
closing date for receipt of completed forms is 21st
July, 1961.

CLASSIFIED ADVERTISEMENTS

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

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

AIR-MAIL SERVICE available on request. In response to requests from a number of Overseas subscribers for air-mail delivery of Public and Official Appointment details and Other Appointments Vacant, we have been pleased to arrange that cuttings of all such classified advertisements appearing in the A.J., shall be despatched by air-mail each week. The cost of this special service to Overseas subscribers will be 5s. for four weeks (1s. 3d. for each additional week) and prepayment should be sent by subscribers wishing to take advantage of this service. The charge we are making represents only the actual cost of the postage involved.

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BOROUGH OF WREXHAM
ENGINEER & SURVEYOR'S DEPARTMENT

Applications are invited for the following appointment:

ASSISTANT ARCHITECT. Salary in the range of A.P.T. Grade III (£960-£1,140 per annum). Applicants should have passed Parts I and 2 of the R.I.B.A. Final Examination or equivalent. Casual car allowance will be paid on the instructions of the Borough Surveyor and the Council will consider the payment of removal expenses. Housing accommodation is available if required. Further particulars and form of application from the Borough Engineer and Surveyor, Guildhall, Wrexham.

Applications to be returned to the undersigned not later than Monday, 10th July, 1961.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham. S8241
June, 1961.

METROPOLITAN BOROUGH OF POPLAR
ASSISTANT ARCHITECTS required by Poplar Borough Council for immediate appointment. Salary scale A.P.T. III/IV (£960-£1,140 p.a.; £1,140-£1,310 p.a., plus £45 p.a., "weighting"). Commencing salary according to qualifications and experience. Projects include multi-storey flats and maisonnettes, etc., in redevelopment areas, and municipal buildings. Application forms from Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3. 8137

NEWCASTLE REGIONAL HOSPITAL BOARD
EXPANSION OF ARCHITECTURAL
DEPARTMENT

P. H. KNIGHTON, M.B.E., A.R.I.B.A., Regional Architect

ARCHITECTURAL STAFF
The Board has prepared a 10-year programme containing a large number and variety of major hospital projects. Planning and building is already current on schemes costing about £15,000,000. As the programme includes also a wide range of buildings which are not peculiar to hospitals, good general experience as well as specialist experience may be gained.

Applications are invited for the following (super-annuable) posts:—

1. SENIOR ASSISTANT ARCHITECT (£1,300 × £60 (5) - £1,600).
- Open to registered architects with experience in the design and construction of major public buildings. Experience of hospital work desirable but not essential. Assistance with removal expenses if appointee at present in a lower-graded Health Service post.

2. ASSISTANT ARCHITECT (£905 × £35 (1) × £45 (5) - £1,310).

Applicants must have passed the R.I.B.A. Final Examination. For registered architects increments can be given above the bottom of the grade in accordance with relevant practical experience.

Qualified but unregistered architects can enter the Architectural Assistant scale at a salary point of £865 per annum with a view to entering the Assistant Architect grade when registered.

3. ARCHITECTURAL ASSISTANTS (£625 × £30 (8) × £35 (1) - £900).

Intermediate R.I.B.A. and preferably some practical experience.

4. ARCHITECTURAL DRAUGHTSMEN (£475 × £25 (6) × £30 (2) - £685).

Three years' previous experience in an architect's drawing office and good draughtsmanship required.

5. SURVEYING ASSISTANT (Lands and Buildings) (£625 × £30 (8) × £35 (1) - £900).

Intermediate Examination of the Royal Institution of Chartered Surveyors, or an examination recognised by the Institution as equivalent, together with experience in surveying sites and buildings. Commencing salary within grade dependent upon applicant's age and practical experience.

Details of training, qualifications, experience, present salary etc., with the names of three referees, should reach the Secretary to the Board, Benfield Road, Newcastle upon Tyne, 6, not later than 14th July, 1961. Canvassing will disqualify.

CORPORATION OF LONDON
CITY PLANNING OFFICE
TWO PLANNING ASSISTANTS in the following salary ranges: (a) £1,195-£1,480; (b) £1,055-£1,310 are required.

The City Planning Office has interesting Planning projects on hand and others in active preparation, e.g. large scale development is now proceeding in Barbican commercial zone where separated pedestrian walkways are planned for a large area.

The vacancies exist in the Civic Design Section for qualified Architectural or Planning Assistants to join small group working on the present important phase of rebuilding in the City. Opportunities for advancement should occur from time to time.

Local Act Superannuation.
Apply to the City Planning Officer, Guildhall, E.C.2. TC7719

ADMINISTRATIVE COUNTY OF LEICESTER

(a) PRINCIPAL ASSISTANT ARCHITECT, £1,410-£1,565.

(b) CHIEF ASSISTANT ARCHITECTS, £1,310-£1,410-£1,565.

(c) SENIOR ASSISTANT ARCHITECTS, £1,140-£1,310.

(d) ARCHITECTURAL ASSISTANT, £815-£1,140 (according to qualifications).

Candidates for (a) must be members of the R.I.B.A., have had sound experience and be capable of acting as Group Leaders on an extensive programme of education buildings. Candidates for (b) must be members of the R.I.B.A., have had considerable office experience and be capable of taking charge of contracts from inception to completion. For (c), should be members of the R.I.B.A., have had office experience and be capable of taking charge of small contracts. For (d), should have Intermediate or Final qualifications of the R.I.B.A. and be capable of executing working drawings. Lodging allowance and removal expenses may be paid to a married man. Apply on form obtainable from County Architect, 123, London Road, Leicester, TC7478

CORPORATION OF LONDON
Applications invited from Associate Members of R.I.B.A. for post of ASSISTANT to Site Architect on a large building project for 12 months at a salary of £1,420.

Candidates should have had good general experience in preparation of working details and of contract works. Applications, stating age, appointments held, and experience, with names of two referees, to The City Engineer, Guildhall, London, E.C.2, by 10th July, 1961. S8219

CITY OF GLASGOW
ASSISTANT ARCHITECTS
The Architectural and Planning Department has a number of vacancies for qualified ASSISTANT ARCHITECTS.

The Department has in hand a large, varied and interesting programme of work, including Comprehensive Redevelopment, Multi-Storey Flats, Schools and Civic Buildings. The work will provide scope for personal initiative in the preparation of designs and details of schemes upon which construction work will follow.

The salary scale for these assistantships is up to £1,550 with placing according to experience. A five-day week is in operation.

Advances up to 100 per cent. of valuation will be made available, where needed, for the purchase of suitable houses in or near Glasgow, by successful applicants.

Forms of application may be obtained from the Principal Administrative Officer, 20, Tronagate, Glasgow, C.1.

A. G. JURY,
City Architect and Director of Planning.

S8092
June, 1961.

BOROUGH OF EALING

1. ARCHITECTURAL ASSISTANT within Scale A.P.T. IV, £1,185-£1,355 inclusive.

2. JUNIOR ARCHITECTURAL ASSISTANT, A.P.T.I, £645-£815, plus London weighting.

Full particulars and forms of application from Borough Engineer, Town Hall, Ealing, W.5. Closing date 17th July, 1961.

E. J. COPE-BROWN,
Town Clerk.

S8311
June, 1961.

AYCLIFFE DEVELOPMENT CORPORATION
(New Town of Newton Aycliffe)

ASSISTANT ARCHITECTS

AND
ARCHITECTURAL ASSISTANTS

Applications are invited for the above appointments at salaries within the range of Grades A.P.T. IV and VI of the Whitley Council for New Town Staff salary scales, i.e. £1,140-£1,565 p.a. The commencing salary and grade will be fixed according to the qualifications and experience of the successful applicant.

The principal work for the successful applicants will be in connection with the development of the Town Centre of the new town.

Appointments subject to N.J.C. Conditions, superannuation, medical examination and to one month's notice, in writing, on either side.

Housing accommodation available, if required.

Applications, stating age, qualifications and experience, together with the names of two referees, to be sent to the undersigned.

A. V. WILLIAMS,
General Manager.

Churchill House,
Newton Aycliffe,
Nr. Darlington. TC6672

CUMBERLAND COUNTY COUNCIL
APPOINTMENT OF SENIOR ASSISTANT
COUNTY ARCHITECT

Applications are invited for the above appointment in the County Architect's Department. Salary within J.N.C. Scale "D," £1,710-£1,975, according to experience and qualifications. Housing accommodation available.

The post requires a well qualified and experienced Architect with outstanding design ability and capable of leading a design team engaged on a large programme of educational and other County work.

Further particulars and form of application from the County Architect, 15 Portland Square, Carlisle, to whom completed applications should be returned not later than 19th July, 1961.

G. N. C. SWIFT,
Clerk of the County Council.

The Courts,
Carlisle. 8228

WEST SUFFOLK COUNTY COUNCIL

Applications are invited for the post of SENIOR ASSISTANT ARCHITECT within Grade "A" (£1,320-£1,565).

N.J.C. Service conditions; post pensionable; medical examination.

Application forms obtainable from the County Architect, 13 Westgate Street, Bury St. Edmunds, to be returned as soon as possible. S8254

ARCHITECTURAL ASSISTANTS; DRAWING OFFICE ASSISTANTS REQUIRED BY AIR MINISTRY H.Q. IN LONDON. Salary (inner London scale) Grade II, £1,048 to £1,220; Grade III, £658-£1,048 (above age 25). Drawing Office Assistant, £404 (age 18) to £695 (men), £731 (women)—starting salary depends on age, qualifications, and experience.

The work includes a wide range of domestic, administrative and technical buildings in varying forms of construction offering imaginative scope. Candidates should have had adequate training and drawing office experience. (N.C. (Building) an advantage but architectural design ability important for Grade II. Financial assistance and time off may be allowed for recognised courses of study, e.g., R.I.B.A. Five-day week with 18 days' paid leave p.a. initially. Promotion and pension prospects. Some overseas tours with special allowances, in addition to salary. Applicants, who must be natural born British subjects, should write to AIR MINISTRY W.G.d., LACON HOUSE, THEOBALDS ROAD, LONDON, W.C.1, or to any employment exchange (quoting Kings Cross 837/838), giving age, details of training, qualifications and full particulars of former posts held. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only candidates selected for interview will be notified. S8273

CORPORATION OF THE CITY OF ABERDEEN
Applications are invited for the post of SENIOR ASSISTANT TOWN PLANNING DEPARTMENT, from candidates qualified in Town Planning and/or Architecture, and having appropriate experience. Salary Scale £1,220-£1,390 per annum, with placing in accordance with qualifications and experience.

Applications by letter, with usual particulars and names of two referees, should reach the Director of Town Planning, 5 Bon-Accord Crescent, Aberdeen, on or before 24th July, 1961.

J. C. RENNIE,
Town Clerk.

Town House,
Aberdeen. 8288
June, 1961.

COUNTY BOROUGH OF GREAT YARMOUTH
EDUCATION COMMITTEE

SCHOOLS ARCHITECT'S DEPARTMENT

Applications are invited from Associate Members of the R.I.B.A. for the appointment of a SENIOR ASSISTANT ARCHITECT at a salary within A.P.T. IV (£1,140 to £1,310).

Candidates should have a thorough knowledge of school design and construction. Housing accommodation will be available to the successful candidate if married and assistance with removal expenses may be made in suitable cases.

Full details of present and past appointments, age, qualifications and experience, together with the names of two referees should reach the Schools Architect, 22 Euston Road, Great Yarmouth, by 17th July, 1961.

D. G. FARROW,
Chief Education Officer.

22 Euston Road,
Great Yarmouth. S8297
Norfolk.

PLYMOUTH COLLEGE OF ARTS AND CRAFTS
SCHOOL OF ARCHITECTURE AND BUILDING

Principal: Aileen Foran, R.C.A., A.T.D.

Required on 1st September or as soon as possible thereafter. Two LECTURERS IN ARCHITECTURE, one to specialise in Design Construction at Final Level, another to specialise in History and Appreciation of Architecture, both to act as Studio Year Masters in Design. Applicants should be A.R.I.B.A. and hold a degree or diploma in Architecture. Previous teaching experience an advantage. Salary in accordance with the Burnham Scale (£1,370 rising by four annual increments of £35 and one of £40 to a maximum of £1,550) (under review).

Forms of application and conditions of employment (s.a.e.) may be obtained from the Clerk to the Governors, Education Office, Cobourg Street, Plymouth, to whom they should be returned as soon as possible. 8264

THE ARCHITECTS' JOURNAL for July 5, 1961

Eight new books on ARCHITECTURE

MY WORK by Le CORBUSIER

Written, designed and supervised by Le Corbusier, this book surveys the great architect's development from his early days to the completion of his latest building. Drawings, used to amplify Le Corbusier's ideas when working, are here used to reinforce his explanatory text. He explains and illustrates the principles governing his work, and his contention that architecture must be integrated with other art forms is reinforced by a wide selection of photographs of great buildings, paintings and sculptures. Size $11\frac{1}{4} \times 8\frac{1}{2}$ ins. 328 pages. Illustrated throughout. 84s. net, postage 2s. 3d.

New Japanese Architecture

UDO KULTERMANN

Western opinion seems to have built up an image of modern Japanese architecture as something spare, elegant and informal. Dr Kultermann's book shows how different the work of leading Japanese architects has turned out to be. It is an architecture that is not afraid of mass and solidity; not afraid to exploit the gross material qualities of wood, stone and concrete; not afraid of bold plastic forms; not afraid to mate advanced technology with hallowed traditionalism. All these qualities are brought out in dramatic photographs, backed by analytical texts and biographies of some two dozen leading architects.

Size $11\frac{1}{4} \times 8\frac{1}{2}$ ins. 212 pages. 180 half-tone illustrations. 63s. net.

Theory and Design in the First Machine Age

REYNER BANHAM

In the first thirty years of this century, architects made a tremendous effort to adapt their art, and to create a new climate of ideas. Dr Banham's subject covers theoretical writings, buildings, projects, industrial designs, paintings and sculptures. He shows how one unifying theme finally emerges: the architecture of the International Style. Into its growth went many designs, which the author illustrates and analyses; many publications, from the scholarly to the scandalous, from which he quotes extensively, showing the relationship between theories, theorists and products. Size $9 \times 5\frac{1}{2}$ ins. 340 pages, over 150 half-tone and line illustrations. 45s. net, postage 1s. 9d.

Design and Detail of the Space between Buildings

ELISABETH BEAZLEY

Few good examples of paving, walling and fencing are being built to-day. One reason for their rarity may be that the available information on materials and details is now widely scattered, and much time is wasted in long searches. This handbook sets out to collect all information from all sources, to assess the character, availability and wearing qualities of materials, the relative merits of constructional methods, and to help the planner avoid incongruities of detail.

Size $10 \times 7\frac{1}{2}$ ins. 230 pages 130 half-tone and 85 line illustrations 42s. net.

Antoni Gaudi

JOSEP LLUIS SERT & JAMES J. SWEENEY

For too long the great Spanish architect Antoni Gaudi has been regarded merely as an eccentric, and the significance of his contribution to architecture has been misunderstood. The authors trace Gaudi's life and work from his days as a student to his death in 1926. The picture emerges of a wholly sincere architect-builder who lived only for his work; we are reminded of Gaudi's constant reference to nature, his preoccupation with structural principles, his habit of making models which showed him what stresses his buildings would have to bear. Photographs, some in colour, and detail drawings, show how richly Gaudi's work deserves attention. Size $11\frac{1}{4} \times 8\frac{1}{2}$ ins. 184 pages. 184 half-tone illustrations, 13 in full colour. 73s. 6d. net.

The Landscape of Roads

SYLVIA CROWE

In the next three years £230 million will be spent on British roads. This book clearly and forcefully demonstrates the disastrous effect on the landscape when roads are treated purely as an engineering problem. Text, drawings and photographs together show how the skills of a combined team of experts can produce roads which fit the landscape, are far pleasanter to use and do not necessarily cost any more to build.

Size $9 \times 5\frac{1}{2}$ ins. 70 half-tone illustrations, 18 drawings. 18s. 6d. net, postage 1s.

Lettering on Buildings

NICOLETE GRAY

This is the first book to deal with lettering as applied to all kinds of buildings. The author is an internationally acknowledged authority. She first examines and illustrates the history and development of letter forms and then outlines a new way of looking at problems and possibilities. Her approach is illustrated by many examples of lettering *in situ*; and she thus demonstrates how present-day architects and designers can tackle the task of integrating lettering with all kinds of buildings.

Size $9 \times 5\frac{1}{2}$ ins. 192 pages with 270 half-tone and line illustrations, 25s. net, postage 1s. 2d.

Architects' Working Details Volume VII

EDITORS: D.A.C.A. BOYNE & LANCE WRIGHT, A.R.I.B.A.

This seventh volume returns to English examples. The series aims firstly to provide architects and students with easily accessible solutions to everyday design problems, and secondly to record the latest stages reached in the study of these problems, thus providing a starting point from which architects can develop their own improvements. Each detail is illustrated by a large photograph facing the relevant working drawing.

Size $12 \times 8\frac{1}{2}$ ins. 160 pages. 148 half-tone and line illustrations. 25s. net, postage 1s. 9d.

The Architectural Press, 9-13 Queen Anne's Gate, London, S.W.1

COUNTY BOROUGH OF WEST BROMWICH

Applications are invited for the following appointments:—

- (a) **SENIOR ASSISTANT ARCHITECT.** Salary A.P.T. IV (£1,140 to £1,310). Housing accommodation will be made available.
(b) **ARCHITECTURAL ASSISTANTS.** Salary A.P.T. I (£645 to £815).

N.J.C. Conditions of Service and a five-day week.

Applications, stating age, full particulars of qualifications and experience, and naming two referees, to the undersigned by 12th July, 1961.

W. H. GREENWOOD,
Borough Surveyor.

Town Hall,
West Bromwich. 8399

COUNTY BOROUGH OF READING

Applications are invited for the following posts:—

- (a) **ASSISTANT ARCHITECT—A.P.T. III/IV** (£960—£1,310).
(b) **ARCHITECTURAL ASSISTANTS—A.P.T. I** (£645—£815).
(c) **ARCHITECTURAL DRAUGHTSMAN, MISC. V/VI** (£685—£825).
(d) **ARCHITECTURAL DRAUGHTSMAN, MISC. V** (£685—£760).

Commencing salaries for all posts according to qualifications and experience.

Applicants for post (a) to have passed parts I and II R.I.B.A. Final or Special Final Examination or equivalent and have had at least five years' experience. Eligibility for A.P.T. IV dependent on two years' service in Local Government in post requiring above qualification. Housing accommodation will be considered.

Applicants for posts (b) to have R.I.B.A. Intermediate Certificate or equivalent.

Applicants for posts (c) and (d) to have had good general experience.

All appointments are permanent and subject to Local Government Superannuation Acts on passing medical examination and to N.J.C. Conditions of Service.

Applications in writing in appropriately endorsed envelope, stating age, qualifications and experience, together with names and addresses of two referees to the Borough Architect, P.O. Box 17, Town Hall, Reading, not later than 21st July, 1961.

BOROUGH OF SUTTON & CHEAM

BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT

ARCHITECT—A.P.T. V

(£1,310—£1,480 p.a.) plus London weighting (£45 p.a.) with essential car users allowance.

Applications are invited for this permanent and superannuable post from qualified members of the Royal Institute of British Architects. The post ranks No. 3 in order in the section and the person appointed will be expected to take a measure of responsibility under the Chief Architect, Mr. P. H. Masters, F.R.I.B.A.

Work is of a varied and interesting nature comprising public and industrial buildings and comprehensive redevelopment including multi-storey flats, and experience in all or any of these types of buildings would be an advantage.

Provision of housing accommodation will be considered if required.

Application forms from Mr. C. Needham, M.I.C.E., M.I.Man.E., A.M.I.Struct.E., Borough Engineer and Surveyor, to be returned with two recent testimonials not later than July 17th, 1961.

Canvassing will disqualify.

A. PRIESTLEY, Town Clerk.

Municipal Offices,
Sutton. 8392

June, 1961.

ARCHITECTS

The National Coal Board (South Western Division) invite applications for the following vacancies at the Divisional Headquarters, Llanishen, Cardiff.

(a) **ARCHITECT** to prepare sketch plans and working drawings and to undertake some executive duties and site supervision. Applicants must be Associate Members of the Royal Institute of British Architects. Salary scale: £900 × £35—£1,250 per annum.

(b) **ARCHITECTURAL ASSISTANT** to prepare sketch plans, working drawings and details and to undertake associated drawing office duties. Applicants must have passed the Final Examination of the R.I.B.A. or have passed the Intermediate Examination and had not less than three years' subsequent experience. Salary scale £785 × £30—£935 per annum (exceptionally £1,100).

(c) **ARCHITECTURAL ASSISTANT** (duties as for (b) above). Applicants should preferably have passed the Intermediate Examination of the R.I.B.A. but applications will also be considered from persons with outstanding practical experience. Salary scale £655 × £25—£785 per annum.

Application forms, which may be obtained (please specify for which vacancy) from the Divisional Chief Staff Officer, National Coal Board, Ty Glas Avenue, Llanishen, Cardiff, should be returned by 14th July, 1961.

METROPOLITAN BOROUGH OF WANDSWORTH

SENIOR ASSISTANT ARCHITECT

Grade A.P.T. V (£1,355 rising to £1,525).

Applicants must be A.R.I.B.A. with experience in design and planning of multi-storey blocks of flats and supervision of their erection. Forms from Borough Engineer returnable to me by 19th July.

J. NOEL MARTIN, Town Clerk.

8394

GLENROTHES DEVELOPMENT CORPORATION

ARCHITECT (A.R.I.B.A.) required for a variety of work including Housing, Industrial, Shopping and Commercial Buildings.

The vacancy offers an excellent opportunity to an Architect with imagination and enthusiasm.

Salary up to £1,480 per annum according to experience.

House to rent available.

Applications to Secretary and Legal Adviser, Glenrothes Development Corporation, Glenrothes, Fife, by 15th July, 1961.

8362

CITY OF CARLISLE CITY SURVEYOR'S DEPARTMENT BUILDING SURVEYOR

Applications are invited for the above post on a salary grade up to A.P.T. IV (£1,140—£1,310 per annum) according to qualifications and experience. Applicants must be able to deal with all types of property and small building work including adaptations, alterations and additions. They should have a good practical knowledge of building and be able to prepare the necessary plans, specifications and estimates for the work.

Applications, stating age, married or single, qualifications, present and past appointments, salary and experience, to be received by the City Surveyor not later than 24th July, 1961.

H. D. A. ROBERTSON, Town Clerk.

8359

BOROUGH OF CROSBY CAPITAL WORKS PROGRAMME APPOINTMENT OF ARCHITECTURAL STAFF

Applications are invited for the following appointments:—

- (1) **PRINCIPAL ARCHITECTURAL ASSISTANT** in accordance with A.P.T. IV of the Conditions of Service (£1,140 rising to £1,310 per annum) commencing at a point commensurate with experience. Applicants must have passed the Final Examination of the R.I.B.A. or hold equivalent qualification and should preferably have had considerable experience in the design of large capital works including multi-storey flats.

(2) **ARCHITECTURAL ASSISTANT** in accordance with A.P.T. II/III, the commencing salary depending upon qualification and experience.

The Council intend to review salaries and gradings at an early date.

It is the Council's policy to assist in the provision of Housing Accommodation upon satisfactory proof of need.

Applications on forms obtainable from the Borough Engineer and Surveyor at the address below must be received not later than 19th July, 1961.

Canvassing will disqualify.

HAROLD O. ROBERTS, Town Clerk.

Town Hall,
Waterloo.

Liverpool, 22.

25th June, 1961. 8357

AMENDED ADVERTISEMENT BOROUGH OF ENFIELD BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

(Population 110,000—Area 12,400 acres)

Applications are invited for the following established positions within the Grades shown:—

- (a) **SENIOR ASSISTANT ARCHITECT—A.P.T. V** (£1,310—£1,480 p.a.).
(b) **ARCHITECTURAL ASSISTANTS—A.P.T. III** (£960—£1,140 p.a.).

The commencing salary will be fixed at a point within the Scale commensurate with qualifications and experience.

The appropriate London weighting allowance will be paid in addition to the above salaries.

Candidates for post (a) must be Associates of the Royal Institute of British Architects; for post (b) applicants must have passed the Intermediate Examination of the R.I.B.A.

The Council are prepared to consider the provision of Housing Accommodation if required, or 100 per cent advances to successful applicants for house purchase within the Borough.

Five-day week.

Details of appointments and application forms obtainable from Mr. H. D. Peake, V.Sc.(Eng.), Borough Engineer and Surveyor, 7, Little Park Gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN, Town Clerk.

Civic Centre,
Enfield, Middx. 8352

STAFFORDSHIRE COUNTY COUNCIL ARCHITECT'S DEPARTMENT

Appointments of SECTION ARCHITECT

Applications are invited from qualified Architects for the above post within the salary range £1,410—£1,670. The successful candidate will be in charge of an Architectural Section and the post offers considerable opportunity and responsibility.

Good working conditions in a pleasant County town, five-day week, assistance with removal expenses, etc. The Council has a scheme for loans to employees wishing to purchase their own houses. Car allowance.

Forms of application from P. Woodcock, F.R.I.B.A., County Architect, Green Hall, Lichfield Road, Stafford.

Closing date 17th July, 1961.

T. H. EVANS, Clerk of the County Council.

8405

AMENDED ADVERTISEMENT BOROUGH OF ENFIELD BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

(Population 110,000—Area 12,400 acres)

Applications are invited for the following established positions within the Grades shown:—

- (a) **CHIEF PLANNING ASSISTANT—A.P.T. V** (£1,310—£1,480 p.a.).
(b) **SENIOR PLANNING ASSISTANT—A.P.T. III** (£960—£1,140 p.a.).
(c) **PLANNING ASSISTANT—A.P.T. II** (£815—£960 p.a.).

The commencing salary will be fixed at a point within the Scale commensurate with qualifications and experience.

The appropriate London weighting allowance will be paid in addition to the above salaries.

Applicants for post (a) must have passed the Final Examination of the Town Planning Institute and membership of another related professional body will be considered an advantage.

Applicants for post (b) should have passed the Intermediate Examination of the Town Planning Institute.

The Council are prepared to consider the provision of Housing Accommodation if required, or 100 per cent advances to successful applicants for house purchase within the Borough.

Five-day week.

Details of appointments and application forms obtainable from Mr. H. D. Peake, V.Sc.(Eng.), Borough Engineer and Surveyor, 7, Little Park Gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN, Town Clerk.

Civic Centre,
Enfield. 8353

STAFFORDSHIRE COUNTY COUNCIL COUNTY PLANNING AND DEVELOPMENT DEPARTMENT

Applications are invited for the post of ASSISTANT in the Design Section (Landscape) on A.P.T. Grade IV (£1,140—£1,310 per annum) the commencing salary will be at any point commensurate with the qualification and experience of the applicant.

The duties will be concerned with the preparation of tree planting schemes for housing, industrial and other projects, tree reservation orders, and large scale proposals for the reclamation of derelict land. Applicants should be qualified in landscape design and/or forestry. An additional qualification in horticulture and experience in nursery work would be an advantage.

The Council are prepared to grant lodging allowances of 35s. per week for a period of six months and second class railway travel home every two months during the initial six months to married applicants maintaining a home outside the geographical county. Consideration will also be given to the granting of financial assistance in appropriate cases towards removal expenses.

Applications, giving details of age, education, qualifications, present and previous appointments, experience, and the names of two persons to whom reference may be made should be sent to D. W. Riley, County Planning and Development Officer, 41a, Eastgate Street, Stafford, not later than 12th July, 1961.

Relationship to any member or senior officer of the County Council must be disclosed. Canvassing will disqualify.

T. H. EVANS, Clerk of the County Council.

8354

WORCESTERSHIRE COUNTY COUNCIL ARCHITECTURAL ASSISTANT

Grade A.P.T. II (£815—£960) in the Section concerned with major School projects. The County Council owns some housing accommodation for which a successful candidate may apply.

Application forms and further particulars can be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14, Castle Street, Worcester, not later than 21st July, 1961. (8.218).

8411

BOROUGH OF ACCRINGTON

A vacancy exists in the Borough Engineer and Surveyor's Department for an **ARCHITECTURAL ASSISTANT** with good experience in design and construction. Preference will be given to those who have passed the final examination of the R.I.B.A.

Salary within A.P.T. III/IV (£960—£1,310); commencing salary according to qualifications and experience.

An interesting programme of work includes new covered market, swimming baths, bus terminal, transport garage, housing, etc.

Housing accommodation if required.

Detailed applications, with names of two referees, to Town Clerk, Town Hall, Accrington, not later than the 26th July, 1961.

8400

SOUTHAMPTON BOROUGH ARCHITECT'S DEPARTMENT

Applications are invited for the following permanent posts:—

- SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade V** (£1,310—£1,480).

Applicants for these posts should be members of the R.I.B.A. fully experienced in the design and administration of major building projects.

Commencing salary within grade according to experience and qualifications.

Housing accommodation available in approved cases, and approved removal expenses reimbursed up to a maximum of £50.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 17th July, 1961.

8417

COUNTY BOROUGH OF BLACKPOOL

CHIEF ASSISTANT (ARCHITECTURAL SERVICES)

Grade "C"—£1,560/£1,825.

Applications (by 17th July) are invited for the above post. The architectural section is engaged on the design of municipal housing and multi-storey flats, old peoples' dwellings, a large school programme, food technology building and other civic projects

Particulars and form of application obtainable from:—

Borough Surveyor
(Arthur Hamilton, B.Sc., A.R.I.B.A.),
P.O. Box 17, Municipal Buildings,
BLACKPOOL.

WIMPEY

The Architect's Department's current programme covers all types of commercial, industrial and domestic building.

Appointments are available for a wide range of experience particularly for ARCHITECTS and ASSISTANTS who appreciate the contribution good design can make towards efficient construction and are interested in applying cost knowledge to detailing.

Appointments on a permanent basis are immediately available at Head Office with good progressive salaries for the right man. Five-day week, with three weeks' annual holiday.

Similar appointments are also available in our Regional Offices for applicants preferring to work in the Midlands or North of England areas.

Applicants should write to:

E. V. Collins, A.R.I.B.A., Chief Architect
GEORGE WIMPEY & COMPANY LIMITED
27 Hammersmith Grove, London, W.6.

The eighth, thoroughly revised edition now on sale, still 5s.

LONDON NIGHT AND DAY, 1960-61 edition

a guide to where the other books don't take you

illustrated by Osbert Lancaster, edited by Sam Lambert.

'This is the seventh edition of this "guide to where the other books don't take you". There is now no excuse for visitors to London not having heard of it; a copy should be in every traveller's briefcase or handbag.

It is a guide to night clubs, pubs, theatres, shopping, and trips out of London; it is also

an urbane and witty companion to a thousand-and-one off-beat places in the metropolis.

So much praise has been heaped upon it that one can only endorse the statement that it is really the only guide book to London that matters.'

YORKSHIRE GAZETTE, 1959

LINDSEY COUNTY COUNCIL PLANNING DEPARTMENT

Applications are invited for the appointment of SENIOR ASSISTANT (Architectural) A.P.T. Grade IV, £1,140-£1,310 at Headquarters in Lincoln. Commencing salary will have regard to qualifications and experience. Candidates should be suitably qualified with experience in architectural control, estate layouts and central area redevelopment. Officer to provide own car for official journeys for which an allowance will be paid at essential user's rate for car not exceeding 10 h.p.

Superannuation and N.J.C. conditions of service as approved by the County Council. Canvassing will disqualify. Relationship to any member or senior officer of the Council to be disclosed in writing.

Applications, with particulars of age, training, experience and names of two referees to County Planning Officer, County Offices, Lincoln, not later than 19th July, 1961. 88410

BOROUGH OF SOLIHULL

APPOINTMENT OF ARCHITECTURAL STAFF
The Borough Council invite applicants for posts as SENIOR ASSISTANT ARCHITECTS and ARCHITECTURAL ASSISTANTS at salaries within the following ranges:-

- (a) £1,310-£1,565 per annum.
- (b) £960-£1,310 per annum.
- (c) £645-£960 per annum.

The commencing salary for each appointment will be in accordance with the experience and qualifications of the successful applicant.

The usual Local Government Conditions of service will apply and each appointment will be subject to a medical examination.

The Council will be prepared to assist in providing housing accommodation as soon as possible and the whole of an officer's removal expenses to Solihull will be paid subject to 12 months' service with the authority.

The Authority has been recommended for County Borough status in 1964 in the final report of the Local Government Commission on the West Midlands Special Review Area and the Council have a very large capital programme of schools, swimming baths, branch libraries, houses, flats, etc.

Further particulars regarding the appointments available can be obtained from the undersigned to whom applications, giving full details as to age, qualifications, if any, present and past appointments, together with the names and addresses of two persons to whom reference can be made, and stating the grade for which application is made, should be submitted not later than Wednesday, 19th July, 1961.

W. MAURICE MELL, Town Clerk.

The Council House, Solihull, 28th June, 1961. 88418

CITY OF MANCHESTER

SENIOR ASSISTANT PLANNING OFFICERS required in the City Surveyor and Engineer's Department at a salary within J.N.C. Scale "B" (£1,420-£1,670).

Candidates must be appropriately qualified by examination and must have had considerable experience in the Planning and Development work of a local authority.

These appointments offer practical experience on large scale projects.

Housing accommodation and removal expenses. Applications stating age, education, qualifications and experience with the names of two referees to the Town Clerk, Town Hall, Manchester, 2, not later than the 17th July, 1961. 8399

BOROUGH OF WORKSOP

APPOINTMENTS IN THE

BOROUGH ENGINEER'S DEPARTMENT

Applications are invited for the following appointments:-

ASSISTANT ENGINEER: Salary A.P.T. Grade III (£960-£1,140). Applicants should hold either an engineering degree, the Testamur of the Institution of Municipal Engineers or be qualified for Associate Membership of the Institution of Civil Engineers and have at least five years' experience, including pupillage.

ARCHITECTURAL ASSISTANT: Salary A.P.T. Grade III (£960-£1,140). Applicants should be Chartered or Registered Architects.

The posts are superannuable and the successful applicants will be required to pass satisfactorily a medical examination.

Housing accommodation will be provided and removal expenses will be paid, if required by successful married applicants.

Applications, stating age, qualifications, experience and accompanied by the names of two referees must reach the undersigned not later than noon on Monday, the 17th July, 1961.

RUSSELL C. PHARAOH, Town Clerk.

Town Hall, Worksop. 8331

LONDON COUNTY COUNCIL

ARCHITECTS' DEPARTMENT

Leading architects wanted for new building programme. PRINCIPAL ASSISTANTS (Professional) £1,700 to £1,950. ARCHITECTS, Grade I-£1,500 to £1,700. ARCHITECTS, Grade II-£1,250 to £1,500. ARCHITECTS, Grade III-£830 to £1,250. Starting salaries according to quality and experience.

Particulars and form returnable by 13th July, from Hubert Bennett, F.R.I.B.A., Architect to the Council (EK/J 1802/7), County Hall, London, S.E.1. 8330

COUNTY OF ESSEX

COUNTY PLANNING DEPARTMENT

Applications are invited for the following:-

(1) Vacant existing posts which have been upgraded in a recent review of the Department's establishment.

(a) SENIOR PLANNING ASSISTANTS.

A.P.T. V (£1,310-£1,480) at Chelmsford, in charge of Development Control Section, and at Wanstead Area Office on Development Plan and Control work.

(b) SENIOR PLANNING ASSISTANT

A.P.T. III/IV (£960-£1,310) at Chelmsford on Development Plan work.

(2) Newly created posts:-

(c) SENIOR PLANNING ASSISTANTS

A.P.T. V in charge of Development Control Section at Braintree, in charge of Development Plan Section at Romford, and in Development Plan and Control Section at Wanstead.

(d) SENIOR PLANNING ASSISTANT

A.P.T. III/IV on Rural Policy and Village Plan work at Braintree.

Applicants for posts (a) and (c) must be corporate members of the Town Planning Institute, and applicants for posts (b) and (d) should likewise be corporate members of the Town Planning Institute, or possess an appropriate qualification; all must have had good experience of work in an active Local Planning Authority.

The Department's six Area Offices have a large share in the current review of the County Development Plan which will include 26 Town Maps and some 24 Comprehensive Development Areas. Rural Policy Maps and Village Plans for all principal villages are in hand, together with a large extension of the London Green Belt.

An active partnership operates between Area Offices and District Councils in dealing with some 14,000 development applications per annum.

The appointed candidates are accordingly assured of good experience and an active share in the Department's work. A five day week is in operation, and all posts are superannuable. Appointment is subject to medical examination.

Applications, with names of three referees, to County Planning Adviser, Broomfield Place, Broomfield, Chelmsford, Essex, by 21st July, 1961. 8398

SOUTH EASTERN ELECTRICITY BOARD

SENIOR ARCHITECTURAL ASSISTANT,

SURVEYOR'S SECTION, ENGINEER-IN-CHIEF'S DEPARTMENT, HEADQUARTERS

Salary £1,150 x £30-£1,240 under N.J.C. Grade 6.

Applications are invited from Registered Architects with experience in the preparation of schemes including showrooms, offices, stores and garages. Preference to applicants who are associates of the R.I.B.A. or I.A.A.S. The post is superannuable.

Applications, quoting A.J. and naming two referees to Surveyor, Seaboard, 10, Queen's Gardens, Hove 3, Sussex, by 13th July, 1961.

GEORGE WRAY, Secretary.

8327

HEMEL HEMPSTEAD BOROUGH COUNCIL

SENIOR ARCHITECTURAL ASSISTANT

A.P.T. GRADES III/IV £960-£1,310 p.a.

Applications are invited for the appointment of a SENIOR ARCHITECTURAL ASSISTANT in the Architectural Section of the Borough Engineer's Department. Candidates possessing the Final of the Royal Institute of British Architects or similar qualification will be paid within A.P.T. IV.

The appointment will afford experience on houses, flats, shops, community centres, a sports pavilion, a covered swimming pool and various other works.

Housing accommodation will be available.

The appointment will be subject to the Local Government Superannuation Acts, to the National Conditions of Service from time to time in force, and to the passing of a medical examination and will be terminable by one month's notice in writing on either side.

Applications stating age, education, qualifications and experience, together with the names of two referees, should be sent to A. H. Turner, A.M.I.C.E., Borough Engineer, High Street, Hemel Hempstead, Herts., not later than Wednesday the 12th July, 1961.

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

C. W. G. T. KIRK, Town Clerk.

Town Hall, Hemel Hempstead, Herts. 23rd June, 1961. 8334

COUNTY BOROUGH OF SOUTH SHIELDS

PRINCIPAL ASSISTANT QUANTITY

SURVEYOR

Applications are invited for the above appointment in the Borough Engineer's Department. Applicants must be Chartered Quantity Surveyors and suitably experienced. The salary will be in accordance with Grade A.P.T. V (£1,310-£1,480).

Housing accommodation will be made available to the successful applicant if necessary and he will be required to pass a medical examination for superannuation purposes.

Application forms are obtainable from the Borough Engineer, Town Hall, South Shields, and should be returned to him not later than 10 a.m. Monday, 17th July, 1961.

R. S. YOUNG, Town Clerk.

8337

BOROUGH OF RAWTENSTALL

(AMENDED ADVERTISEMENT)

APPOINTMENT OF CHIEF ARCHITECT

Applications are invited for the above permanent appointment at a salary within A.P.T. V (£1,310-£1,480 per annum). Applicants should be members of the R.I.B.A.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, the National Scheme of Conditions of Service and the termination by one month's notice by either side. Housing accommodation will be available.

Applications including names and addresses of two referees should reach the undersigned not later than Monday, the 24th July, 1961. Canvassing will disqualify. Any relationship to members or senior officers of the Council must be disclosed.

(Signed) COLIN CAMPBELL, Town Clerk.

Town Hall, Rawtenstall, Rossendale, Lancs. 83335

COUNTY BOROUGH OF SOUTH SHIELDS

ASSISTANT ARCHITECTS

Applications are invited for ASSISTANT ARCHITECTS in the Borough Engineer's Department. Salary will be in accordance with Grades A.P.T. I-V (£645-£1,480). Placing within these grades will be in accordance with qualifications and experience.

Housing accommodation may be made available to successful applicants if necessary.

The successful applicants will be required to pass a medical examination for superannuation purposes.

Application forms can be obtained from the Borough Engineer, Town Hall, South Shields, and should be returned to him not later than 10 a.m. Monday, 17th July, 1961.

R. S. YOUNG, Town Clerk.

8338

BOROUGH OF BANBURY

DEPUTY BOROUGH ARCHITECT

Applications are invited for the post of DEPUTY BOROUGH ARCHITECT. Salary within Grade V (£1,310 to £1,480 p.a.) according to qualifications and experience.

Applicants must be Associate Members of the R.I.B.A. with suitable experience. The successful candidate will be responsible to the Borough Engineer and Surveyor for all the architectural work of his Department.

Banbury is an expanding town and extensive works will be undertaken in connection with a town development scheme, and the post offers a varied experience. A car allowance will be payable.

Applications, stating age, qualifications and experience and the names and addresses of two referees, must be received by the undersigned not later than the 17th July, 1961.

FREDERICK G. BOYS, Town Clerk.

8380

Municipal Buildings, Banbury.

BOROUGH OF RICHMOND (SURREY)

JUNIOR ARCHITECTURAL ASSISTANT

Applications are invited for the above appointment on the staff of the Borough Engineer and Surveyor at a salary within A.P.T. Grade II (£815-£960 p.a. plus London Weighting).

Applicants must have passed the Intermediate Examination of the Royal Institute of British Architects.

Applications giving particulars of age, qualifications, experience and the names of two referees should be sent to the Borough Engineer and Surveyor, King's Road, Richmond, Surrey, by the 18th July, 1961.

Canvassing will disqualify. Relationship, if any, to members of the Council or Senior Officers must be stated. No assistance with housing.

CLIFFORD HEYWORTH, Town Clerk.

Town Hall, Richmond, Surrey. 83347

BOROUGH OF HEYWOOD

APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applications are invited from persons who have passed the R.I.B.A. Intermediate Examination for the above-mentioned appointment in the department of the Borough Engineer and Surveyor, at a salary in accordance with A.P.T. Grade II (£815-£960) of the Scale of Salaries.

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

The successful applicant will be required to pass a medical examination.

Consideration will be given to the provision of housing accommodation.

Consideration will also be given to day release for attendance at the Regional College of Art. Applications endorsed "Architectural Assistant," stating age, qualifications and experience and accompanied by copies of two recent testimonials should reach the undersigned not later than Thursday, 20th July, 1961.

Canvassing in any form will be a disqualification.

W. R. PARKER, Town Clerk.

Municipal Buildings, Heywood. 14th June, 1961. 8346

THE ARCHITECTS' JOURNAL for July 5, 1961

MIDDLESEX COUNTY COUNCIL ARCHITECT'S DEPARTMENT

Vacancies exist in the following qualified grades:—

SENIOR ARCHITECTS APT V.—£1,355 - £1,525 p.a. (6 POSITIONS)

ASSISTANT ARCHITECTS APT III.-IV.—£1,005-£1,355 p.a. (18 POSITIONS)

There are excellent opportunities for both newly-qualified and experienced architects to work on a full and varied programme including:—

PRIMARY AND SECONDARY SCHOOLS

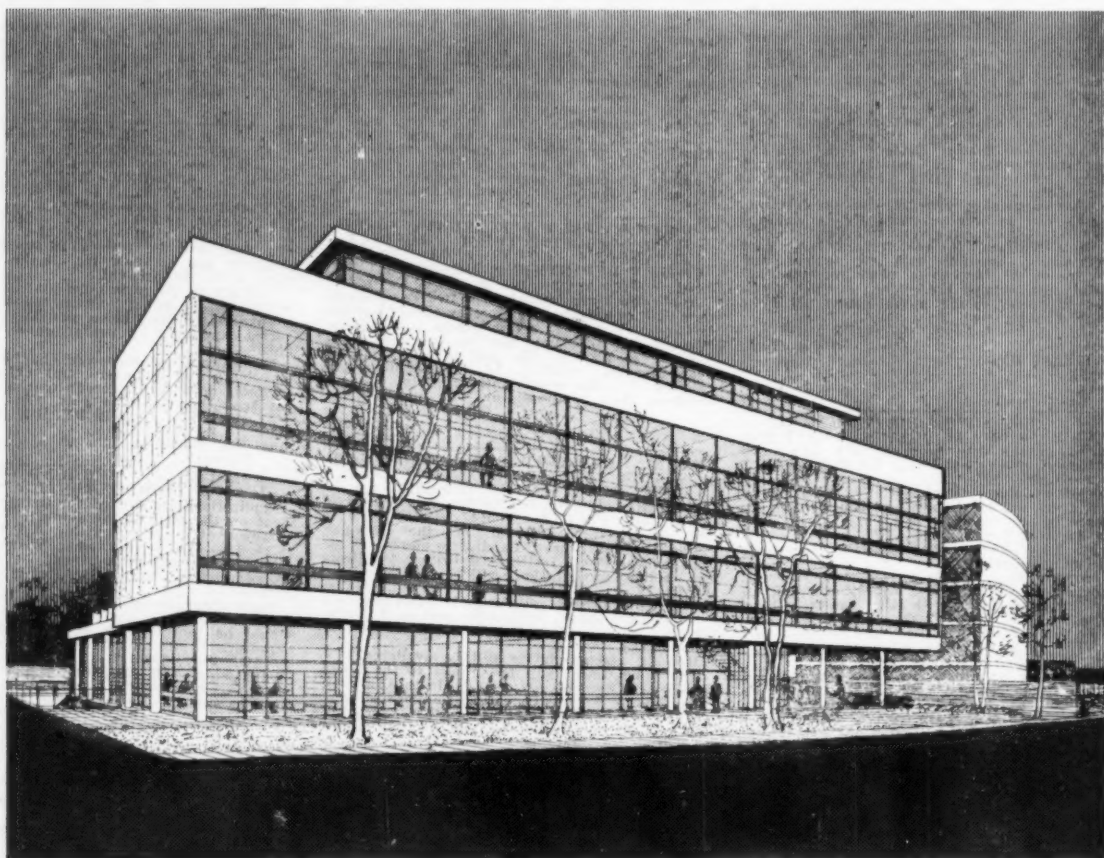
TECHNICAL COLLEGES

HEALTH CLINICS

YOUTH AND COMMUNITY CENTRES

OLD PEOPLE'S HOMES

FIRE STATIONS



The department is organised on a group basis under the direction of WHITFIELD LEWIS, F.R.I.B.A., and every opportunity is given to architects of ability to take full responsibility for the design, construction and management of projects. The architectural groups are supported by ancillary divisions; Quantity Surveying and Cost Analysis, Heating and Mechanical Engineering and Structural Engineering, and vacancies also exist in these sections.

Full details and application forms can be obtained from

COUNTY ARCHITECT, 1, QUEEN ANNE'S GATE BUILDINGS, DARTMOUTH STREET, S.W.1.

**OXFORDSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT**

Applications are invited from suitably qualified persons for the position of GROUP ARCHITECT (salary J.N.C. Scale "C" £1,560-£1,925) to work on an interesting and varied building programme. The Council will pay 50 per cent. of any removal expenses. Five-day working week. The appointment is permanent, superannuable and subject to a medical examination. Applications on forms to be obtained from the undersigned to be returned by 24th July, 1961.

ALBERT E. SMITH,
County Architect.

Park End Street Offices,
Oxford. 88368

**CAMBRIDGESHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT**

Applications are invited for the Appointment of an ASSISTANT ARCHITECT on Grade A.P.T. IV (£1,140-£1,310 per annum). Applicants should be Associates of the Royal Institute of British Architects and have had experience in the design and construction of schools and other County Buildings. The commencing salary will be in accordance with experience.

The appointment is subject to the Local Government Superannuation Acts 1937 to 1953, the National Scheme of Conditions of Service, a satisfactory medical examination and is terminable at one month's notice on either side.

Applications, stating age, present salary, present and previous appointments, details of training experience, together with the names and addresses of two referees, should be submitted to the undersigned not later than 24th July, 1961.

CHARLES PHYTHIAN,
Clerk of the County Council.

Shire Hall,
Cambridge. 8339
26th June, 1961.

**BOROUGH OF HESTON AND ISLEWORTH
APPOINTMENT OF DRAUGHTSMAN**

Applications are invited for the appointment of a DRAUGHTSMAN in the Architect's Section of the Borough Engineer and Surveyor's Department. Salary Grade A.P.T. I (£645-£815 p.a.), plus London weighting.

Candidates must be capable and expeditious draughtsmen and preference will be given to those with architectural experience.

The Council are unable to assist the successful candidate with housing accommodation.

Applications, on forms to be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, must be returned to him not later than noon on 24th July.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex. 88370

**BOROUGH OF WALTHAMSTOW
BOROUGH ARCHITECT'S DEPARTMENT**

Walthamstow is a municipal borough within the County of Essex, population 108,785, rateable value £1,788,707. It is a progressive authority and there is a large programme of interesting architectural and redevelopment schemes to be undertaken.

Applications are invited for the undermentioned vacancies on the permanent staff of the Borough Architect:

- (a) ONE SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,185-£1,355 inclusive of London weighting).
- (b) ONE ASSISTANT ARCHITECT, Grade A.P.T. III (£1,005-£1,185 inclusive of London weighting).
- (c) ONE ARCHITECTURAL ASSISTANT, Grade A.P.T. I/II (£645-£960 plus London weighting of £15-£40 depending on age).

Applicants for post (a) must be professionally qualified and have had extensive experience. Applicants for posts (b) and (c) should have the appropriate qualifications.

Housing accommodation will be made available if required, or alternatively the Council will make a 100 per cent. advance for house purchase within the Borough or in adjoining Boroughs.

Application forms, obtainable from the Borough Architect (P. G. Southgate, A.R.I.B.A., A.M.T.P.I., M.I.Mun.E.), Town Hall, Walthamstow, London, E.17, must be returned to the undersigned by Noon on Friday, 14th July, 1961.

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow, E.17. 8342
23rd June, 1961.

**HORNCHURCH URBAN DISTRICT COUNCIL
ARCHITECT'S DEPARTMENT
APPOINTMENT OF ARCHITECTURAL
ASSISTANTS GRADE A.P.T. III.**

Applications are invited from suitably qualified persons for the appointment of ARCHITECTURAL ASSISTANTS at a salary in accordance with the Grade A.P.T. III (£960-£1,140 per annum) with a plusage equivalent to London "Weighting." The commencing salary will be fixed according to the ability and experience of the successful candidate.

The Council's housing policy permits advances of up to 100 per cent. of the Surveyor's valuation to be granted to members of the staff, or alternatively, consideration would be given to the provision of housing accommodation.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, to the passing of a Medical Examination, the National Joint Council Scheme of Conditions of Service, and one month's notice on either side.

Forms of application can be obtained from the undersigned, to whom completed forms should be returned not later than noon on Friday, the 14th July, 1961.

P. L. COX,
Clerk of the Council.

Council Offices,
Bill Lane,
Hornchurch,
Essex. 8397

**SOUTH WEST METROPOLITAN REGIONAL
HOSPITAL BOARD**

ASSISTANT ARCHITECTS
Required to assist in a large programme of work ranging from major hospitals to smaller therapeutic, educational and residential buildings. They must be capable of interpreting and sustaining a high standard of design. Hospital experience, while desirable, is not essential.

INTERIOR DESIGNER
A designer is required to prepare, together with the architectural teams, complete schemes for the furnishings and fittings of major buildings. He will be responsible for storing all samples and catalogues in connection with this, and for the organisation of a general specification information service. Evidence will be required of a full appreciation of the detailing performance and maintenance of materials and finishes in modern building.

SALARY SCALE:—
ASSISTANT ARCHITECT: £905 × £35 (1) × £45 (6) × £50 (2)—£1,310. An additional London weighting of initially £40 and finally £50 per annum is attached to this scale.

Appointments may be made within the scale according to qualifications and experience.

INTERIOR DESIGNER: Commencing salary, in accordance with age, qualifications and experience, to be determined but at age 21 or over is likely to be not less than £600 per annum plus £20 per annum London weighting. (£30 per annum at age 26).

Applications stating age, qualifications, experience, present appointment and salary, together with the names and addresses of two referees, should be sent to the undersigned at 40, Eastbourne Terrace, London, W.2, by not later than July 13th.

E. G. BRAITHWAITE,
Secretary. 8341

**DERRYSHIRE COUNTY COUNCIL
COUNTY PLANNING DEPARTMENT
APPOINTMENT OF ARCHITECT OR
ARCHITECT-PLANNER**

(J.N.C. Scale "A" £1,370-£1,565)
Applications are invited from Architects or Architect-Planners for this appointment at Headquarters Office, Matlock. The person appointed will be required to lead the section engaged upon central areas, neighbourhood and housing layouts, elevational control, etc., and can be assured of an opportunity for interesting and creative work in a populous area. Experience in design associated with town and country planning is essential.

The appointment is subject to the Joint Negotiating Committee Conditions of Service, Superannuation Scheme and medical examination, and the commencing salary will be determined upon the basis of experience. The County Council has adopted a scheme of allowances towards removal and lodging expenses in appropriate cases.

Application forms may be obtained from the County Planning Officer, County Offices, Matlock, to be returned by 24th July, 1961, together with the names of three referees.

**OXFORDSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT**

Applications are invited from suitably qualified persons for the following appointments:—

- (a) SENIOR ARCHITECT, J.N.C. Scale "B" (£1,410-£1,670).
- (b) ASSISTANT ARCHITECT, Grade A.P.T. V (£1,310-£1,480).
- (c) QUANTITY SURVEYOR, Grade A.P.T. IV/J.N.C. (£1,310-£1,565).
- (d) QUANTITY SURVEYOR, Grade A.P.T. IV (£1,140-£1,310).

The Council will pay 50 per cent. of any removal expenses. Five-day working week.

The appointments are permanent, superannuable and subject to a medical examination. Applications on forms to be obtained from the undersigned to be returned by the 24th July, 1961.

ALBERT E. SMITH,
County Architect.

Park End Street Offices,
Oxford. 88369

QUANTITY SURVEYORS—OVERSEAS

AIR MINISTRY require chartered Quantity Surveyors for service initially in overseas areas on tours of 2 or 3 years' duration according to location.

Basic salary according to age and experience ranging from £961 at 25 to £1,298 at 34 or over to £1,470 max.). An increase of 95s p.a. (within max. of scale) after 2 years' satisfactory service subject to corporate membership of R.I.C.S. being held. In addition Tax Free foreign service allowance varying according to location, marital status, etc., e.g. total emoluments at Cyprus vary at age 25 from £1,286 to £1,736 (single man) and £1,646-£2,361 for married man.

Kit allowances and free passages for self, and family when accommodation arranged. Free medical and education arrangements. Five-day week, paid annual leave initially four weeks and two days.

Completion of tour to be followed by duties in U.K. with opportunities for further tours overseas. Appointments are non-pensionable but there are good promotion and pension prospects.

Application forms and full particulars from Ministry of Labour, Technical and Scientific Register (K), 26, King Street, London, S.W.1, quoting J.79/10/A. 87914

**CITY OF BELFAST
CITY ARCHITECT'S DEPARTMENT**

Applications are invited for the following posts:

(a) ARCHITECTS, CLASS I

Applicants must be Fellows or Associates of the Royal Institute of British Architects and Registered Architects, or Registered Architects by examination and have a minimum of four years' post qualification experience and be capable of supervising architectural staff. Extensive experience in modern design and construction and the carrying out of large contracts would be an advantage.

Salary: £1,205 × £55 (3) × £50 (5)—£1,620.

(b) ARCHITECT, CLASS II

Applicants must be Registered Architects. Experience in modern design and construction will be an advantage.

Salary: £1,050 × £40 (3) × £45-£1,215.

Commencing remuneration determined according to qualifications and experience. Superannuation contributions of approximately 6 per cent. of remuneration payable. Reciprocal pension arrangements exist between the Corporation and certain public authorities.

Preference given to suitably qualified ex-Servicemen candidates.

Canvassing will disqualify.

Application forms, etc., may be obtained from the City Architect's Office, 40, Academy Street, Belfast, 1. Completed applications must reach the undersigned by 27th July, 1961.

JOHN DUNLOP,
Town Clerk.

City Hall,
Belfast, 1.
P.O. Box 234. 8316

HAMPESTEAD BOROUGH COUNCIL

ARCHITECTURAL ASSISTANTS required in the Housing Architect's Department for new development including multi-storey blocks of flats. Salary will start at a point within A.P.T. Grades I-IV (£645-£1,310 per annum plus London weighting) according to qualifications and experience. Local Authority experience not essential. Group system of working. Advances for house purchase up to 100 per cent. of valuation will be considered in suitable cases. Applications with names of two referees to Town Clerk, Town Hall, Haverstock Hill, N.W.3. TC7886

The new aids to
Roof Construction

FULLY GUARANTEED

Patent No. 744973



ARCHITECTS' JOURNAL
INFORMATION SHEET AND
FULLY ILLUSTRATED
BROCHURE AND PRICE LIST
FROM

PARAMOUNT ASPHALTE
LIMITED

149 KENNINGTON PARK ROAD,
LONDON, S.E.11.

Tel.: RELiance 2373-2191

**LONDON COUNTY COUNCIL
BRIXTON SCHOOL OF BUILDING
FERNDALE ROAD, S.W.4**

Required to commence September, 1961, ASSISTANTS, GRADE B, to teach CONSTRUCTION and allied subjects in professional courses. Candidates should be corporate members of the R.I.B.A. or R.I.C.S. and have had appropriate professional experience. Teaching experience a recommendation. Consideration will also be given to candidates with experience of Town Planning Design.

Salary scale £738-£1,496, point of entry and maximum dependent on training, qualifications and experience.

Application forms (foolscap s.a.e.) from the Secretary, returnable within 14 days. Please quote (FE3a/A/1504/7). 8312

**LANCASHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
ASSISTANT ARCHITECT
A.P.T. IV (£1,140-£1,310)**

(Starting salary according to experience)

Applications are invited from qualified Architects of initiative, keen on design and modern constructional methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 28th July, 1961. 8318

SURREY COUNTY COUNCIL

Applications invited for following appointments:

1. ASSISTANT ARCHITECT, GRADE IV (£1,140-£1,310 p.a., plus £45 p.a. London Allowance). Approved removal expenses will be paid to successful candidates in this Grade.

Must be A.R.I.B.A. and have had experience in preparation of drawings and specifications, and be capable of assuming responsibility for medium to large scale contracts.

2. ARCHITECTURAL ASSISTANTS, GRADE II (£815-£960 p.a., plus up to £40 p.a. London Allowance, according to age).

Must be of good general training, preference given those who have passed Inter. R.I.B.A.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Full details, present salary and three copy testimonials, preferably one from present employer, to County Architect, County Hall, Kingston, as soon as possible 8802a

**CORBY NEW TOWN
ASSISTANT ARCHITECTS**

There are vacancies for Assistant Architects within the Department of the Chief Architect at a salary within Grade A.P.T. IV (£1,140 to £1,310).

The appointments offer exceptional experience and extensive development work will continue for many years.

Housing is available and removal expenses are paid. There is an obligatory Superannuation scheme either under the conditions of the Local Government Superannuation Act or under the New Towns' Pension Fund.

Apply before Monday, the 17th July, 1961, stating age, present appointment and salary, details of qualifications and experience, and the names of two referees, to R. F. Brooks Grundy, General Manager, Corby Development Corporation, Spencer House, Corby, Northants. 8317

**LANCASHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
ASSISTANT ARCHITECTS, A.P.T. V
(£1,310-£1,480)**

(Starting salary according to experience)

Applications are invited from qualified Architects of initiative, keen on design and modern constructional methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 28th July, 1961. 88319

**LANCASHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
SENIOR ASSISTANT ARCHITECTS
(N.J.C. Scale "B" £1,505-£1,670)**

Applications are invited from experienced Architects for posts on the permanent staff. The County Council has a large and extremely varied building programme, and posts will be filled by men of initiative, imagination and a flair for sensitive design.

Applicants are expected to be Registered Architects, as well as Associates of the Royal Institute of British Architects and, if appointed, will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and conditions of appointment are obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 28th July, 1961. 88321

**COUNTY OF ESSEX
COUNTY PLANNING DEPARTMENT
MINERALS, LANDSCAPE AND AMENITIES
OFFICER, J.N.C. "A" (£1,380-£1,565)**

Applications invited from qualified Planners, Architects or Landscape Architects for the above post. This is a new senior appointment at Headquarters office with important responsibilities for control of mineral workings (mainly sand and gravel, but also chalk) and for positive action in securing restoration of and appropriate after-use of worked-out pits. The Officer will be directly concerned in landscaping and tree planting schemes in these worked-out areas as well as advising generally in landscaping for active pits. He will also be in charge of the County Council's schemes of tree planting under Section 89 of the National Parks Act.

A five day week is in operation and this post is superannuable. Appointment is subject to medical examination.

Applications with names of three referees to County Planning Adviser, Broomfield Place, Broomfield, Chelmsford, Essex, by 21st July, 1961. 8396

**COUNTY BOROUGH OF ROTHERHAM
ARCHITECTS**

Applications are invited for the following appointments:

(a) SENIOR ASSISTANT ARCHITECT-A.P.T. V (£1,310-£1,480).

(b) ARCHITECTURAL ASSISTANTS-A.P.T. III/IV (£960-£1,310).

The department has a varied and expanding programme of architectural work including schools and large central redevelopment areas.

Candidates for (a) are required to be Associate Members of the R.I.B.A. and with a good general experience in design and construction, (b) are required to have passed Parts I and II of the R.I.B.A. Final Examination.

The commencing salary in the grades will be according to capabilities and experience.

Housing accommodation will be available if necessary.

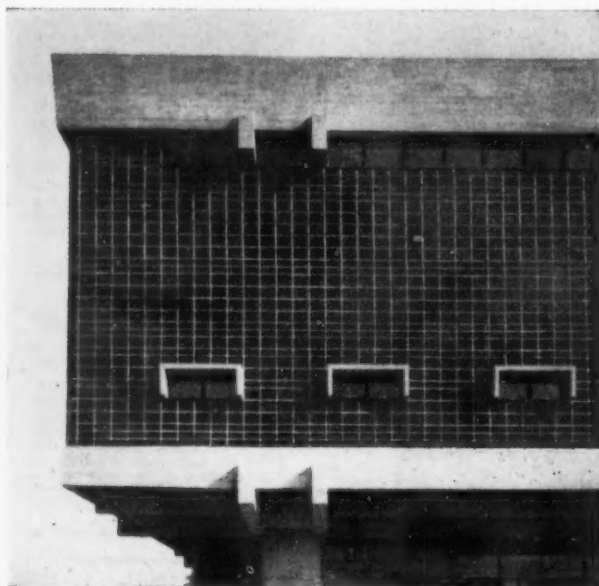
Applications to be endorsed "ARCHITECTS," stating age, qualifications and details of experience, together with names of two referees, should be received by me not later than Thursday, 20th July, 1961.

Canvassing will disqualify.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Rotherham,
June, 1961.

88314



New Japanese Architecture

by Udo Kultermann

The Architectural Press

9-13 Queen Anne's Gate, London, S.W.1.

Western opinion has an ideal image of modern Japanese architecture: spare, elegant, informal. While the work of Junzo Sakakura seemed to support this, there is an increasing awareness that in Kenzo Tange Japan possesses an architect who probably ranks with the world's top ten, but practises an entirely different kind of architecture.

Dr Kultermann's book shows how different the work of Tange and other leading Japanese architects has turned out to be. It is not afraid of mass, thickness and solidity; not afraid of bold plastic and sculptural forms; not afraid to mate the most advanced technology with the most hallowed traditional usages.

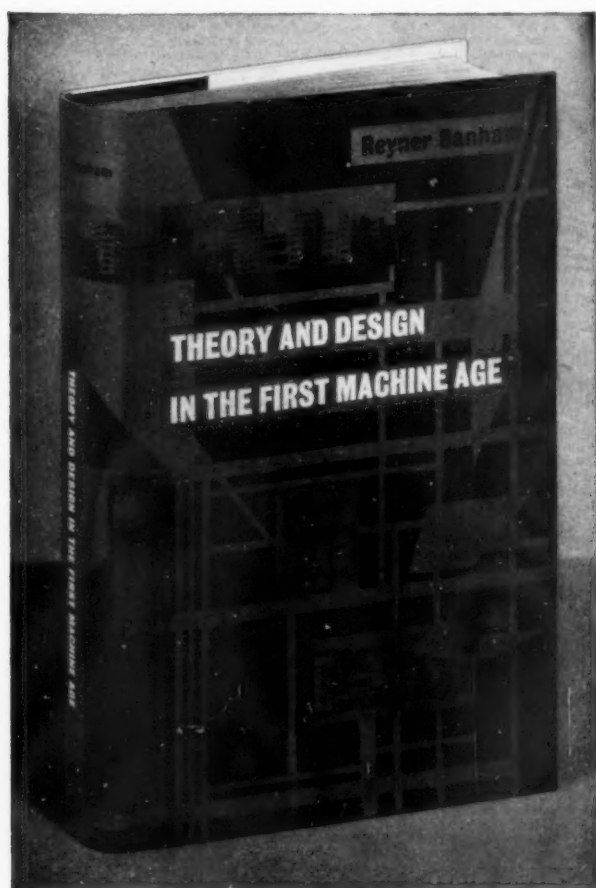
All these qualities are brought out in dramatic photographs, backed by analytical texts and biographies of leading architects. Since some of these men were born within a few years of Mendelsohn and Le Corbusier, the modern architecture of Japan rests on a tradition almost as old as that of the West. As a result, Japan's new architecture has nothing unpractised or unconvincing about it, but is already so secure in its aims that the Japanese themselves speak of it not as a foreign importation, but simply as the re-awakening of Japanese architecture.

Size 11½ × 8½ ins. 212 pages. 180 half-tone illustrations. 63s. net. Postage 2s.

THEORY AND DESIGN IN THE FIRST MACHINE AGE

REYNER BANHAM

IN THE FIRST THIRTY years of the twentieth century, architects made a tremendous effort to adapt themselves and their art to a new set of circumstances—life in a Machine Age. The whole theory of architecture was brought under scrutiny—some of it for the first time since Antiquity—in a wave of self-examination unparalleled in the history of art. Not only was a new climate of ideas created, but the Masters of Modern Architecture—Gropius, Mies van der Rohe, Le Corbusier and others of less fame but no less interest—used their writings to justify their buildings, and their buildings to confirm their theoretical writings. Dr. Banham's subject covers not only a mass of theoretical writings—much of



it unknown to English readers—but also buildings, projects, industrial designs, painting and sculptures—many of them illustrated in an English-language publication for the first time. Dr. Banham shows how one unifying theme finally emerges from this melting pot of exciting designs and excited discussion—the heme of a Machine Age Architecture; the architecture of the International Style, as the historians term it; Modern Architecture with its white walls, flat roofs and big windows, as the man in the street understands it. Into the growth of this theme went many highly inventive designs, which the author illustrates and analyses; many and varied publications, ranging from the scholarly to the scandalous, from which he quotes extensively, showing not only how the theories are related to the finished products, but also how the theories—and even the theorists—are related to one another.

The size of the book is $8\frac{1}{2} \times 5\frac{1}{2}$ in. 340 pages including over 150 half-tone and line illustrations. 45s. net, postage 1s. 9d. The Architectural Press, 9-13 Queen Anne's Gate, S.W.1.

Schools in the U.S.A.

This bulletin is a personal record of a visit to the U.S.A. made by two members of the Ministry of Education's Architects and Building Branch, and the wealth of material and experience that it contains will be of great interest to British designers. The pattern of American school design is being fundamentally altered to cater for team teaching, television, self directed work and other novel aspects of American school life. There are schools without daylight in the U.S.A. and several without windows, and the chapters on lighting and colour explore current American trends in this field. The book is well illustrated with photographs and diagrams.

Ministry of Education Building Bulletin No. 18

To be published July 7th. Price 15s. (post 1s.)

Village Schools

Village schools in which children aged 5-11 have to be accommodated in two or three classes present special problems. This bulletin describes one of the Ministry's development projects—a two class primary school in Oxfordshire. It also surveys some new village schools and suggests ways in which older ones can be remodelled and brought up to modern standards.

Ministry of Education Building Bulletin No. 3

Price 5s. 6d. (post 5d.)

The Story of C.L.A.S.P.

C.L.A.S.P. (The Consortium of Local Authorities Special Programme) shows how a group of public authorities have pooled their resources to develop a system of prefabricated parts which can be assembled to meet the requirements of different types of buildings and different sites. Besides the production advantages of standardised components, these building are flexible in design, can be speedily erected and do not require costly preventative measures when built on sites liable to mining subsidence.

Ministry of Education Building Bulletin No. 19

Price 5s. (post 5d.)

H M S O

From the Government Bookshops
or through any bookseller

THE ARCHITECTS' JOURNAL for July 5, 1961

AIR MINISTRY require **SENIOR WORKERS** UP in Quantities Division in London. Salary, which is dependent on age, qual. and exp., ranges from £1,045 to £1,188 (max.) on annual incremental basis. Five-day week with three weeks three days paid leave a year initially. Some promotion and pension prospects. *Quals.*: Applicants, who must be natural born British subjects, should hold O.N.C. or C. & G. (Quantities) or equiv. and be fully competent to work up entire bills of quantities. Financial assistance and time off allowed for recognised courses of study leading to higher quals. Forms from Manager (PE 519), Ministry of Labour, Professional & Executive Register, Atlantic House, Farringdon Street, London, E.C.4. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only applicants selected for interview will be advised. **S8144**

LANCASHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
ARCHITECTURAL ASSISTANTS
(within the salary range £645-£960 according to experience and ability)

Applications are invited from Architectural Assistants for appointments to the permanent staff of the County Architect's Department, which is engaged on a large and varied programme of major projects.

Applicants should have attained at least Intermediate R.I.B.A. standard and, within this stage of qualification, have a reasonably varied experience.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, should be returned by 28th July, 1961. **S8322**

Architectural Appointments Vacant

3s. per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

BRYAN & NORMAN WESTWOOD require **ASSISTANT ARCHITECTS** and **DESIGNERS**. Salaries up to £1,200. Apply to 21, Suffolk Street, S.W.1. Trafalgar 1106. **TC7932**

£850-£1,600. **ARCHITECTURAL ASSISTANTS** required. Long term prospects. Non-contributory pension and life assurance schemes. Five-day week. Telephone or write: Ronald Ward & Partners, 29, Chesham Place, Belgrave Square, S.W.1. Belgrave 3361. **TC6105**

SENIOR ASSISTANTS required. Please apply to F. G. Frizzell, A.R.I.B.A., 80, Portland Place, W.1. LAngham 1732. **TC4943**

ARCHITECTURAL ASSISTANTS of all grades required in a busy provincial practice. Good salaries to right applicants. Pension Scheme. Accommodation. Apply with full details to:

Ruddle & Wilkinson, F/L A.R.I.B.A., Long Causeway Chambers, Peterborough. **TC6984**

RALPH TURBS has vacancies for **ARCHITECTS** for a variety of interesting jobs including a new teaching hospital, a television centre and university hostels. Good opportunities for keen and competent persons. Pleasant office in Harley Street area. Phone WELbeck 2129 or write 46 Queen Anne Street, London, W.1. **8358**

£950-£1,500. **ARCHITECTURAL ASSISTANTS** with imagination and designing ability required to assist with large and important new developments in the central London Area. Telephone or write: Trehearne & Norman, Preston & Partners, 83, Kingsway, W.C.2. HOLborn 4071. **TC4934**

ARCHITECTURAL ASSISTANTS of all grades, particularly Intermediate standard, required on varied and interesting projects. High salaries will be paid in accordance with skill or experience of applicant. Lewis Solomon, Kaye & Partners, City 8811. **TC5970**

BRYAN & NORMAN WESTWOOD require **ASSISTANT ARCHITECTS**. Salaries up to £1,200. Apply to 21, Suffolk Street, S.W.1. Trafalgar 1106. **TC6736**

ARCHITECTURAL ASSISTANTS required in Busy Bloomsbury office with varied practice. Good salary and prospects for suitable applicants. Five-day week. Write giving particulars of age, qualifications, experience, etc., to Box 918, c/o T. Coptic Street, W.C.1. **TC5647**

SENIOR ASSISTANTS required for work on large Hospital programme, excellent opportunities for the right men, salary £1,000-£1,400. Luncheon Vouchers and five-day week. Write giving full particulars to W. H. Watkins, Gray and Partners, 57, Catherine Place, S.W.1. **TC5633**

SENIOR AND JUNIOR ASSISTANTS. Only those who prefer a small office and an interesting variety of work on both old and new buildings should apply to: L. H. Bond & R. W. Read, 44, Castlegate, Grantham. **TC6404**

LEICESTER, SENIOR ARCHITECTS AND ASSISTANTS required for general practice. Appropriate salary paid. Apply by telephone or in writing for an interview to Herbert, Son & Sawday, 18 Friar Lane, Leicester. Tel. 56476 **TC5307**

ELIE MAYORCAS requires **ARCHITECTURAL ASSISTANTS** with a minimum of three years' office experience in this country. Write, giving brief particulars of architectural education and experience, and salary required, to: 13, David Mews, Baker Street, W.1. **TC7014**

SENIOR ASSISTANTS required immediately Salary by arrangement. Theo. H. Birks, 38, Portland Place, London, W.1. LAn. 7236. **TC1486**

YORKE, ROSENBERG AND MARDALL have some vacancies for experienced **STAFF**. Starting salary according to qualifications and experience, in the range £950-£1,200. Ring AMBassador 4521 for appointment. **TC6200**

IMMEDIATE VACANCIES in leading Bristol office for all grades of **ARCHITECTS** and **ARCHITECTURAL ASSISTANTS**. Modern approach to design essential and considerable freedom of expression allowed. Top salaries paid according to ability and experience. Outstandingly good working conditions; five-day week; annual bonus; contributory pension scheme available; existing holiday commitments honoured. Apply giving particulars of age and experience to W. H. Watkins, Gray and Partners, 8, Colston Avenue, Bristol. Telephone Bristol 292333, reverse charge calls accepted. **TC7675**

SIR JOHN BURNET, TAIT & PARTNERS have vacancies for **ARCHITECTURAL ASSISTANTS** of all grades. Salaries from £1,000 per annum upwards. Non-contributory pension, life assurance, medical schemes and luncheon vouchers, five-day week, generous holidays. Apply 10, Bedford Square, London, W.C.1. **TC7640**

LANCHESTER & LODGE urgently require **ARCHITECTURAL ASSISTANTS** of all grades. Work includes hospitals, laboratories, universities, offices, housing, etc. Write full particulars or ring for interview: 10, Woburn Square, W.C.1. MUS 0845-6-7. **TC7248**

SENIOR and JUNIOR ASSISTANTS urgently required for busy City Office. Excellent modern facilities and long term engagements. Holidays with pay this year. Salary increments and bonus. Luncheon Vouchers. Qualifications unnecessary but experience and ability imperative. Salaries varying from £1,000 to £1,650 according to ability. Box 87642. **TC7248**

£1,000 / £2,000 p.a. will be paid to experienced competent **ARCHITECTS** by a private practice in the City of London. The work will be primarily on the drawing board on new and interesting projects of magnitude. A high standard of design and detailing ability is required. Please apply in writing to Box TC9360. **TC9360**

SENIOR ASSISTANT ARCHITECT required in private practice South East Coast town. Must be experienced with ability to handle contracts from sketch plan to completion. Work consists of industrial, flats, schools, shops, etc. Starting salary £1,200 or according to ability. Housing accommodation available. Apply in own handwriting. Box TC7452. **TC7452**

ARCHITECTURAL ASSISTANTS required immediately for interesting work in private practice situated 12 miles south of Birmingham. Five-day week and luncheon voucher scheme in operation. Apply Hasker & Hall, London House, High Street, Knowle, Solihull, Warwickshire. Telephone Knowle 3502. **TC7538**

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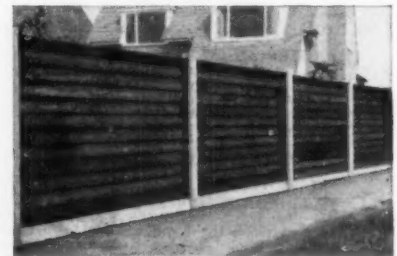
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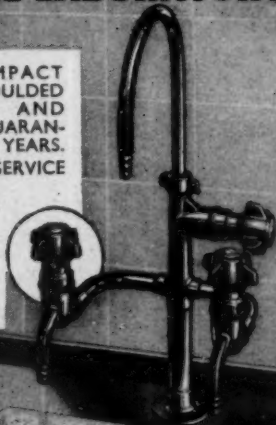
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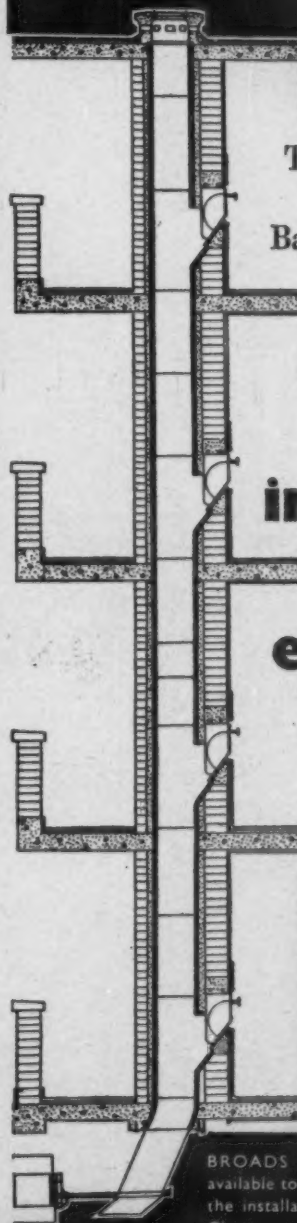
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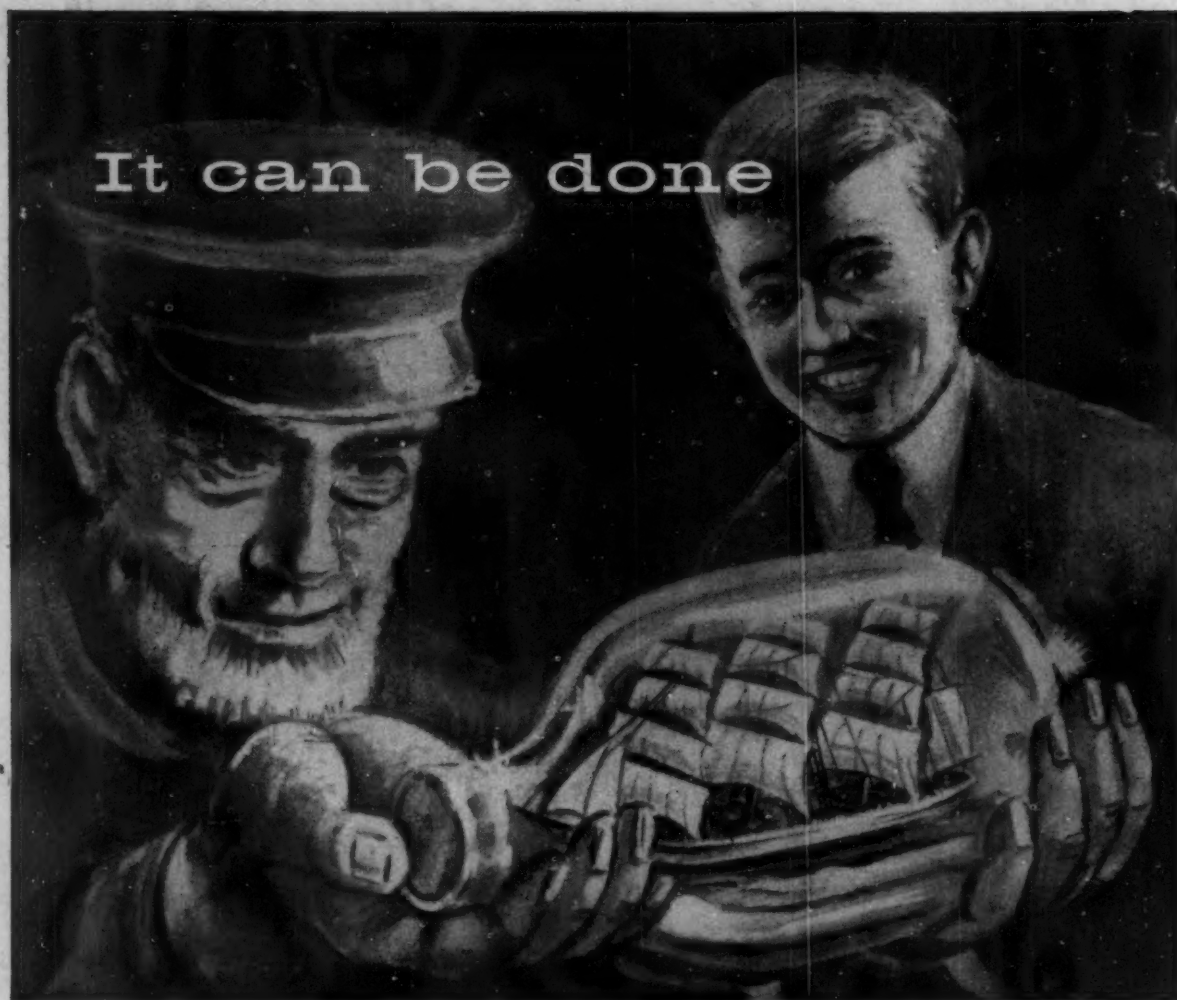
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