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November 19 1959

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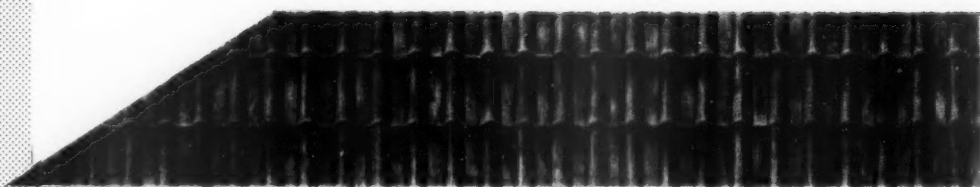
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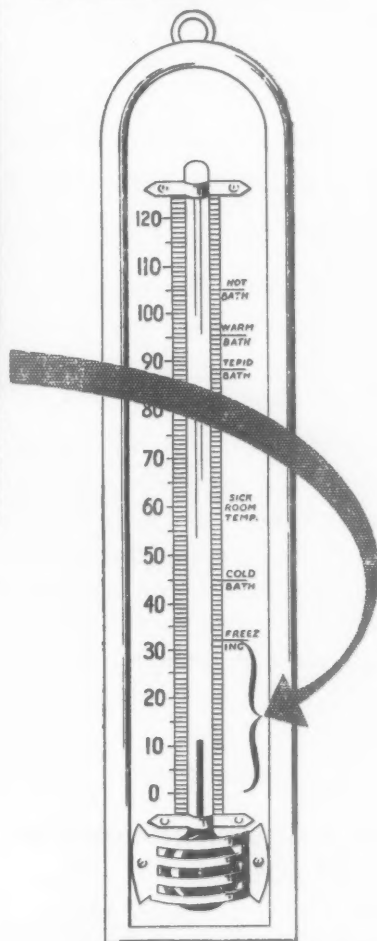


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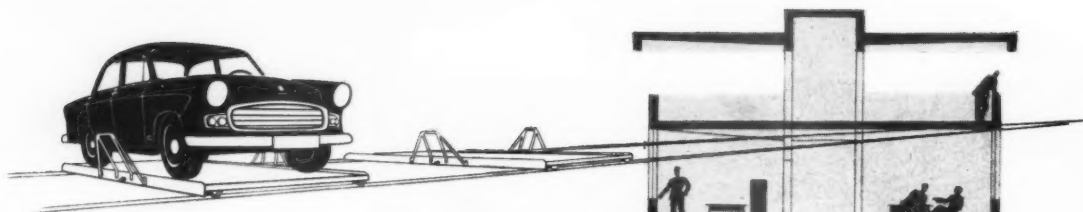
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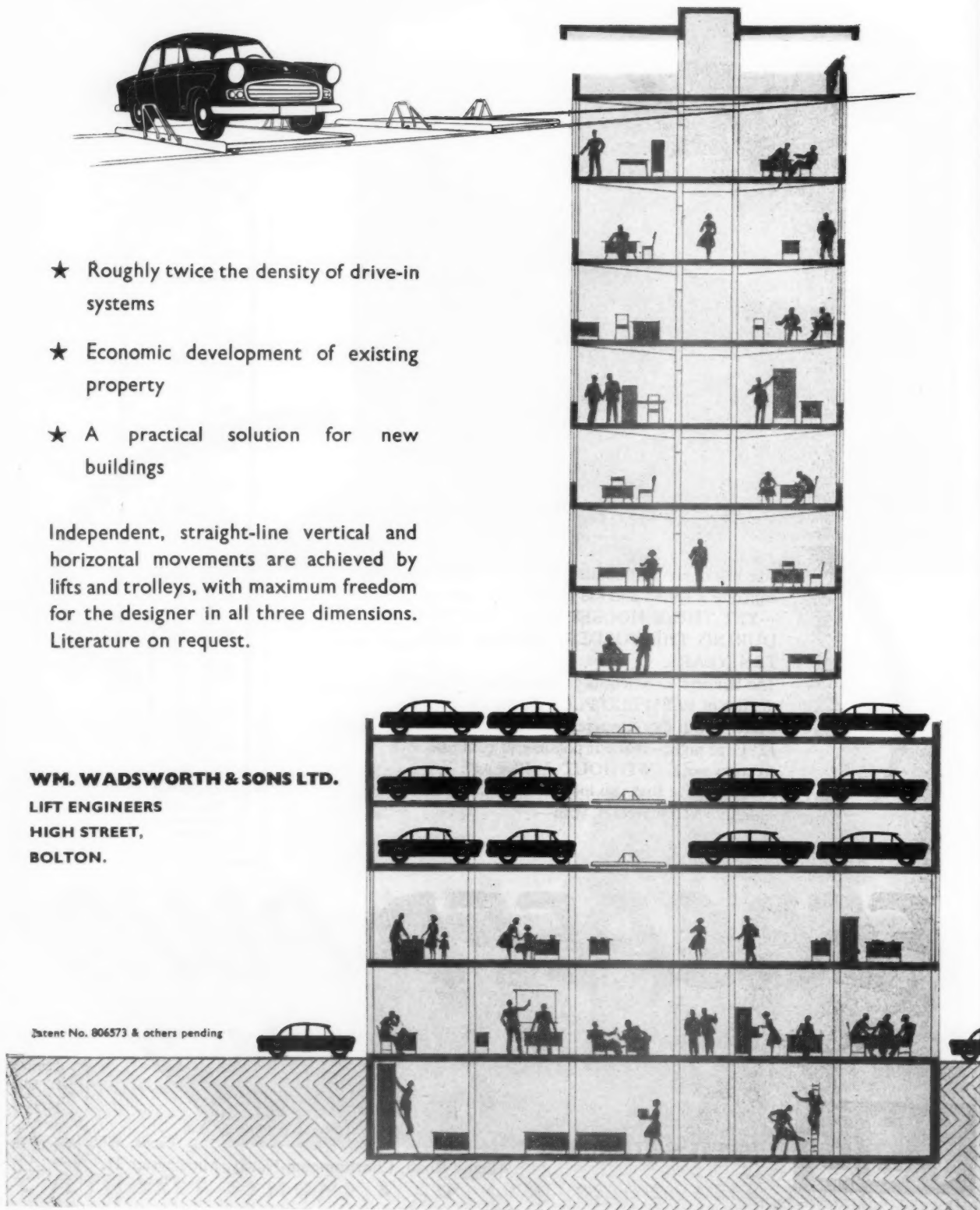


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Photograph by courtesy of  
Imperial Chemical Industries Ltd.

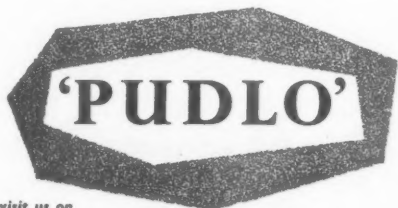
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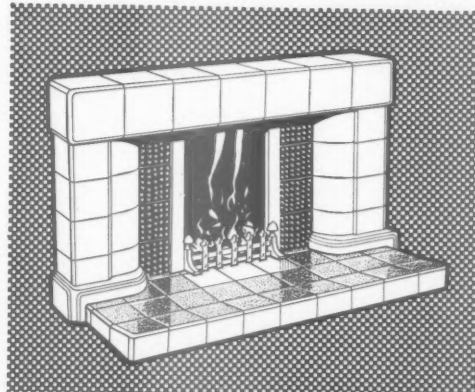
PLYWOOD



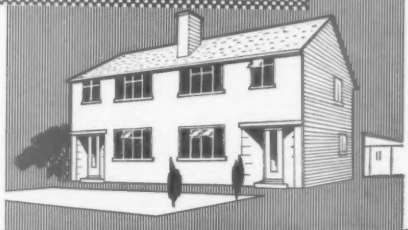
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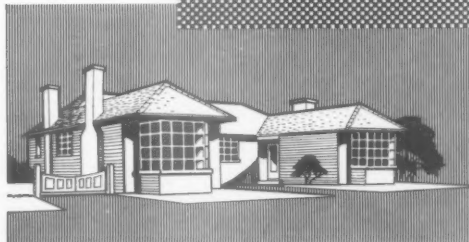
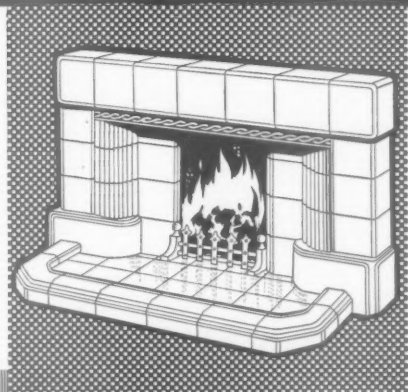


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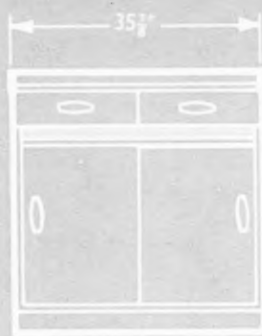




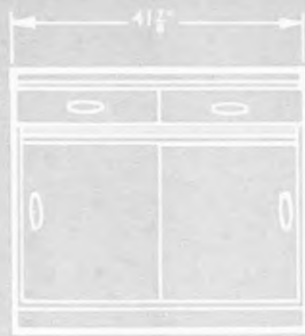
## FLOOR UNITS



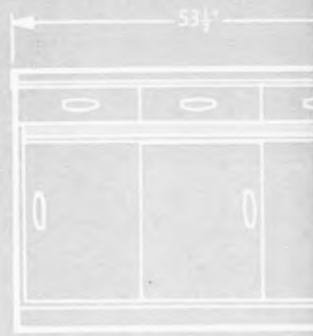
F.21/21.V or S  
F.21/18.V or S



F.36/21  
F.36/18



F.42/21  
F.42/18

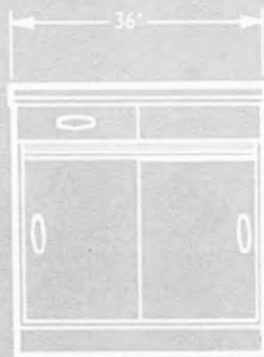


F.54/21  
F.54/18

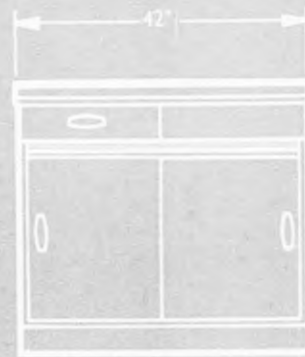
## SINK UNITS



END ELEVATION  
OF  
SINK UNITS



FS.36/18

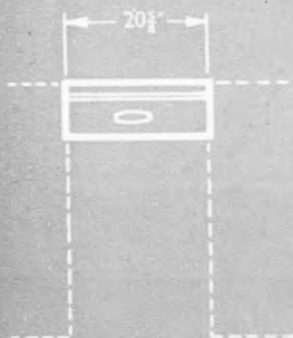


FS.42/21 SINGLE DRAINER,  
FS.42/21.DB. DOUBLE BOWL  
SLIDING DRAINER

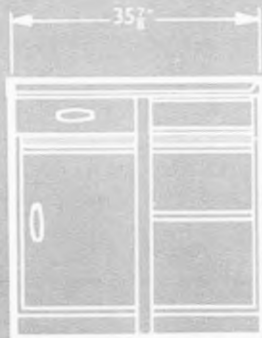


FS.54/18

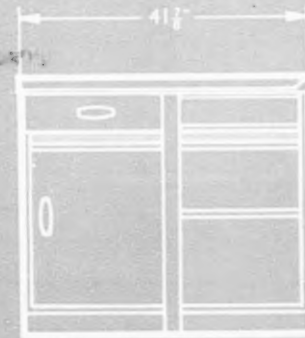
## CORNER AND END ARRANGEMENTS



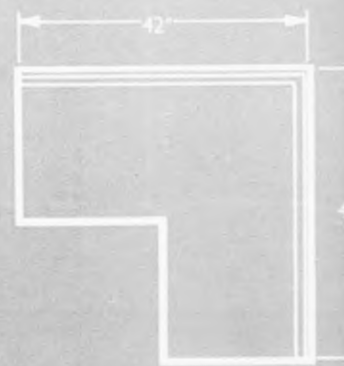
F.21/21.K  
F.21/18.K  
KNEEHOLE UNITS



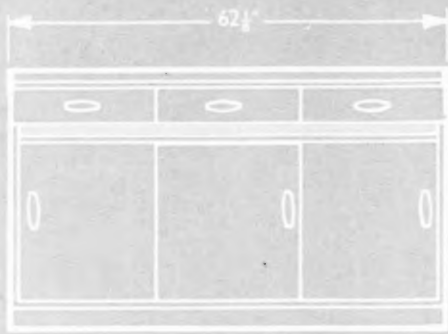
F.36/18.OE



F.42/21.OE



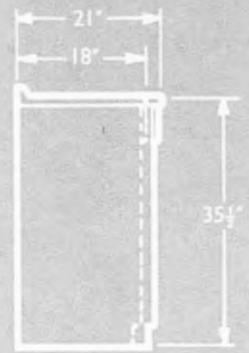
F.42/42/21  
PLAN ONLY



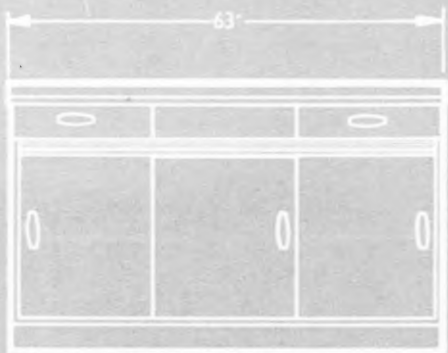
F.63/21  
F.63/18



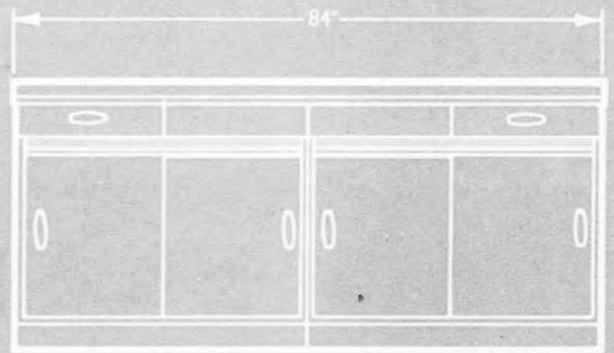
F.21/21.D  
F.21/18.D



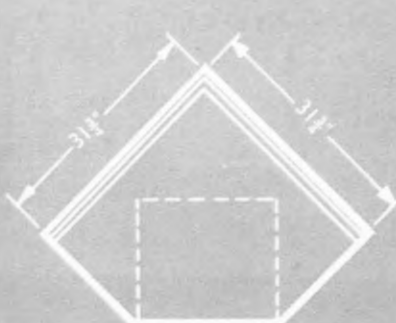
END ELEVATION  
OF  
FLOOR UNITS



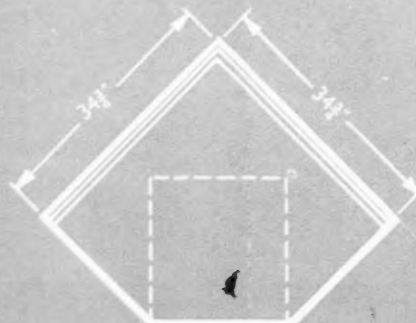
FS.63/21



FS.84/21 DB.



CT.C.32/32/18  
PLAN ONLY



CT.C.35/35/21  
PLAN ONLY



BU.EN.12/21  
F.EN.12/18



F.PA.15/21  
F.PA.15/18



BU.EN.12/21



PLAN VIEWS F.PA.15/21



F.EN.12/18



PLAN VIEWS F.PA.15/18

9, 1959



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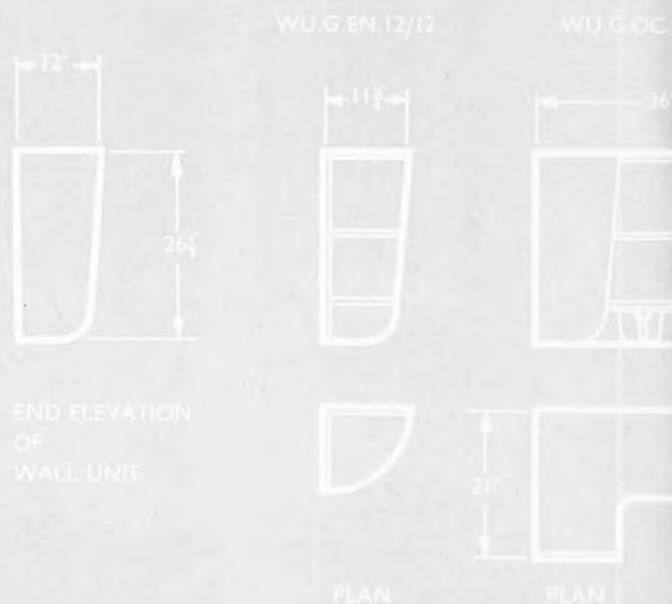
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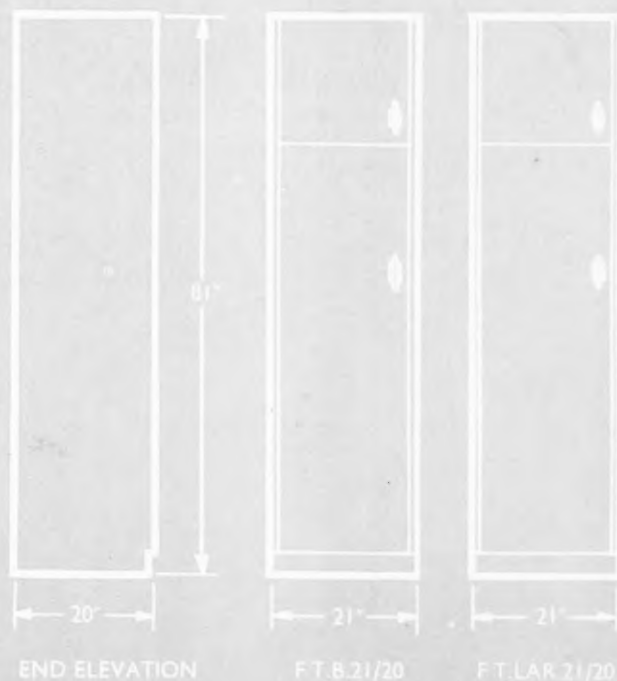
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## TALL UNITS

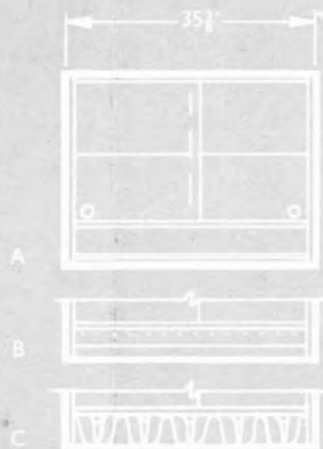
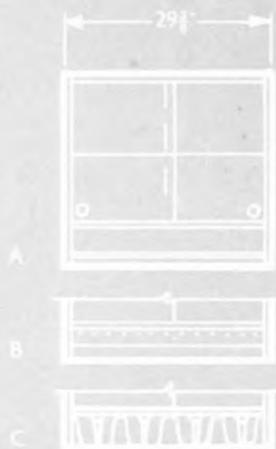


OC.36/21/12

WU.G.30/12

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WU.G.42/12



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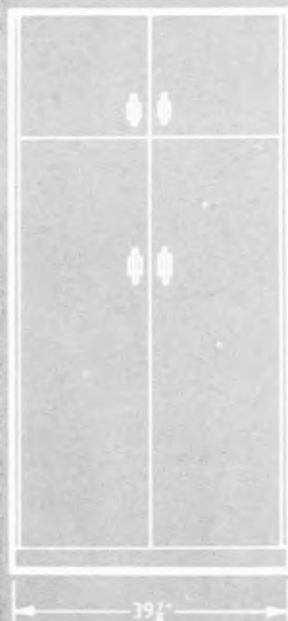
FT.FS.23/20



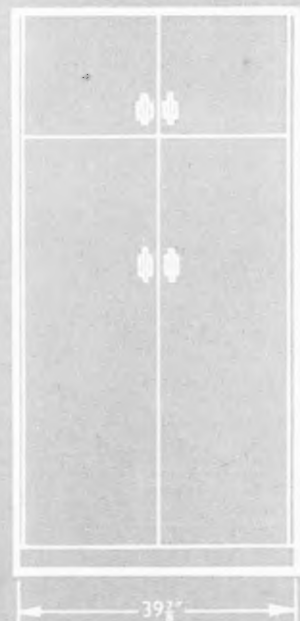
FT.RF.EL.23/20



FT.RF.PR.23/20



FT.B.40/20



FT.LAR.40/20





DOUBLE BO  
842/21DB 21  
width 36". Av  
Vitreous Ena



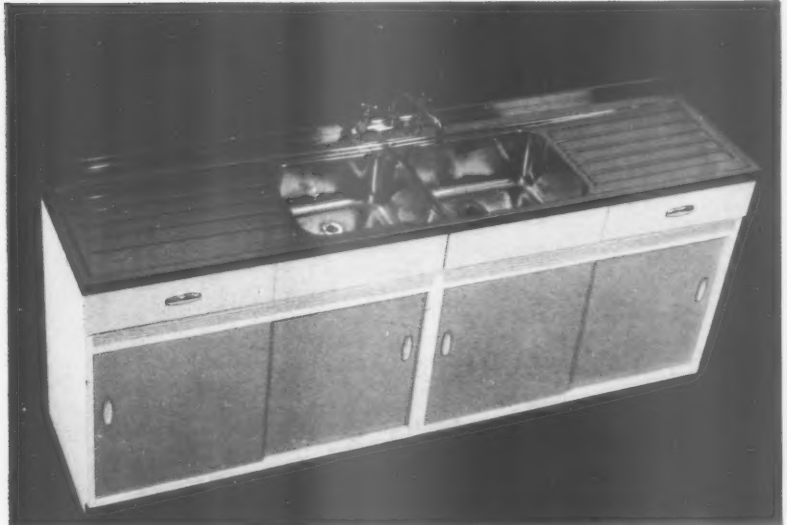
SINGLE BO  
842/21 21" r  
width 36". A  
Vitreous En



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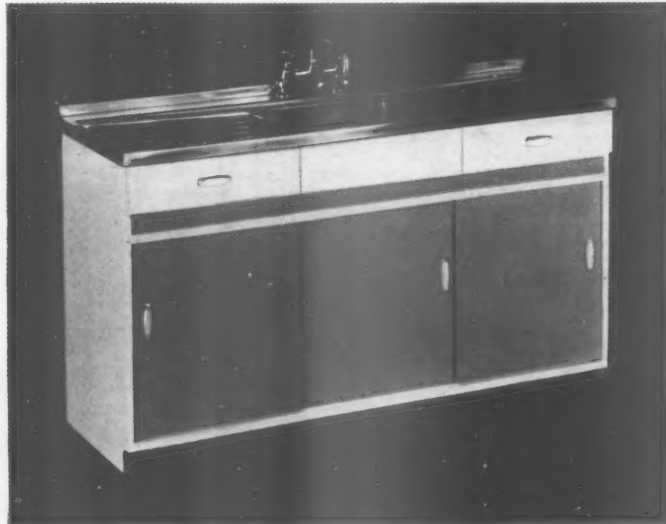
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*second impression*



## CHAPEL IN CONCRETE

By Diana Rowntree

**The Chapel at Ronchamp.** By le Corbusier. Architectural Press. Pp. 120. 25s.

"Never in my life have I 'explained' a painting. The painting will go out and will be loved or hated, understood or not." So says le Corbusier in his preface. Happily he does not apply the prohibition to buildings. People who have been inside the Ronchamp chapel always feel the wonder the architect strove for. Others, even lifelong Corbusier addicts, have felt disquiet. This book, written and designed by le Corbusier himself, shows with beautiful economy the long, silent process, the struggle, and the moments of certainty that produce a work of art, that between 1950 and 1955 produced this building.

First the finished building is shown by photographs of the kind that need no captions. We see black nuns praying against a light-pierced wall, the distant rolling landscape, and on the opposite page the immediacy of the simple concrete. Later, 'interspersed among sketches, calculations, photographs of models, and some very fine architectural drawings, "Corb" lists the workmen's names, tells with inimitable brevity how a crab shell lying on his drawing board gave the idea for the concrete shell of the roof: how the massive walls were compiled from ruined stones: how when the foremen picked up the cross and carried it up the nave the workmen began to crack jokes so as not to weep.

This is a most moving book for architects, children, poets, copywriters, and all who have eyes to see.

THE MANCHESTER GUARDIAN

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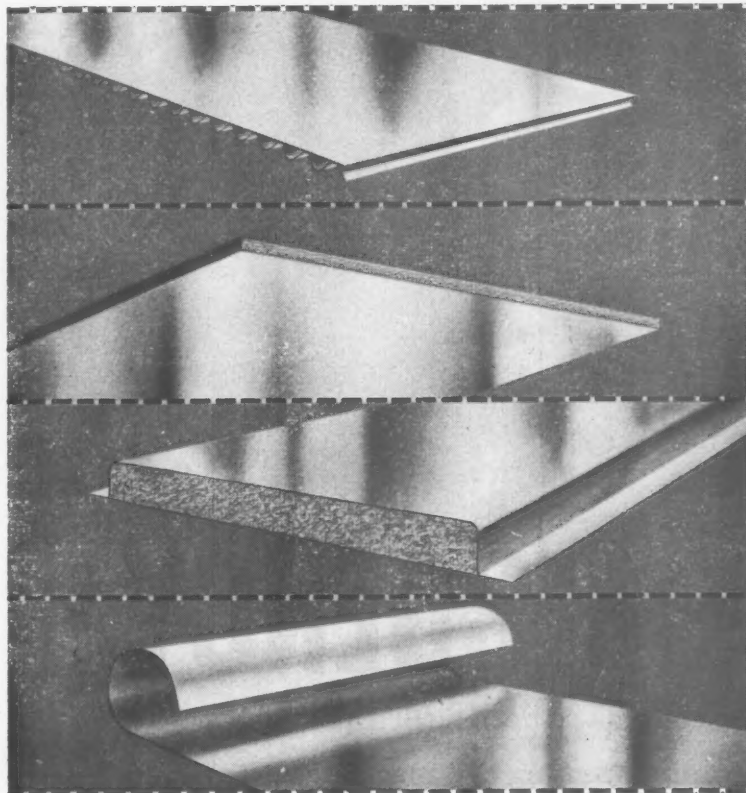
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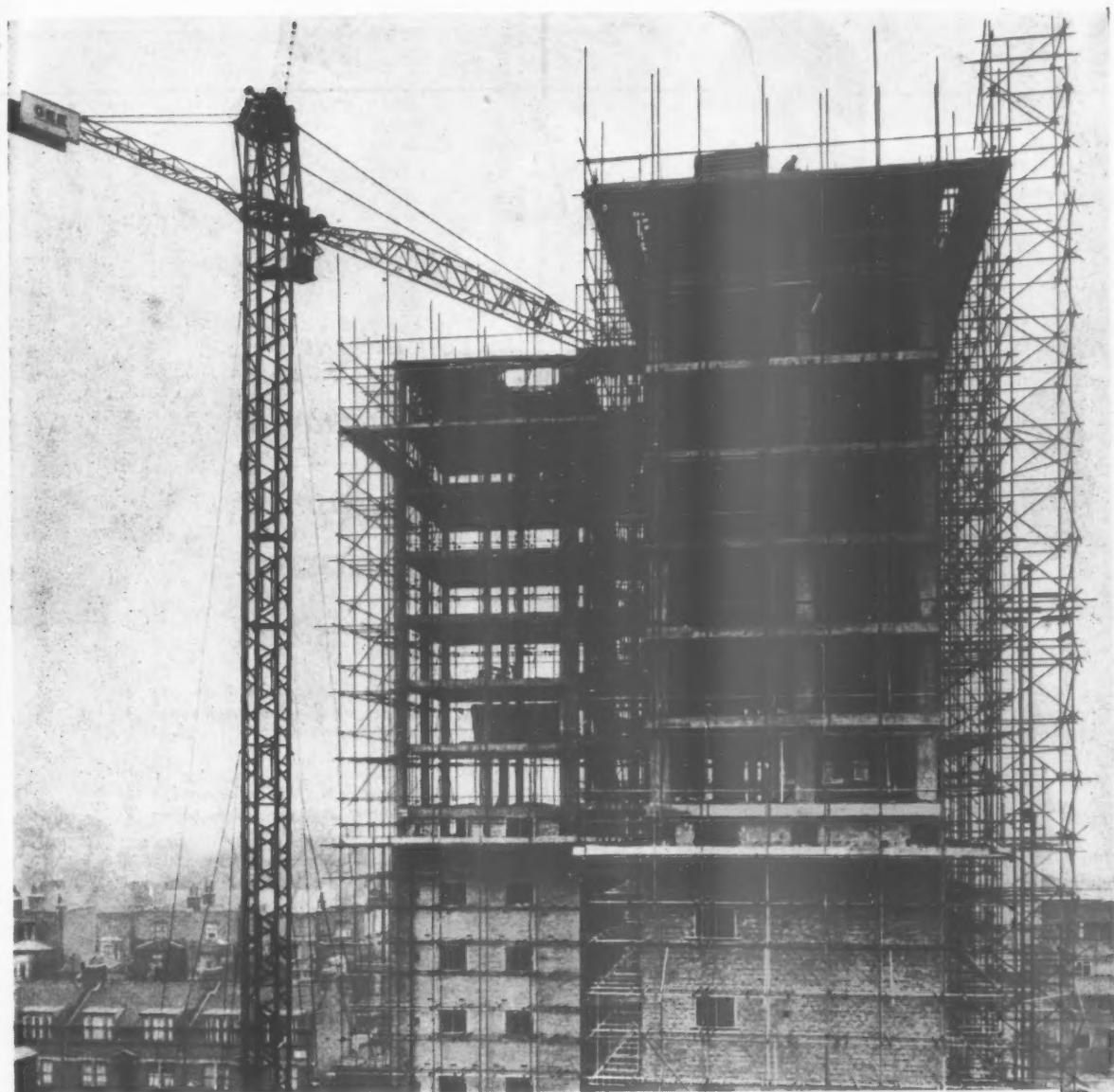
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N131





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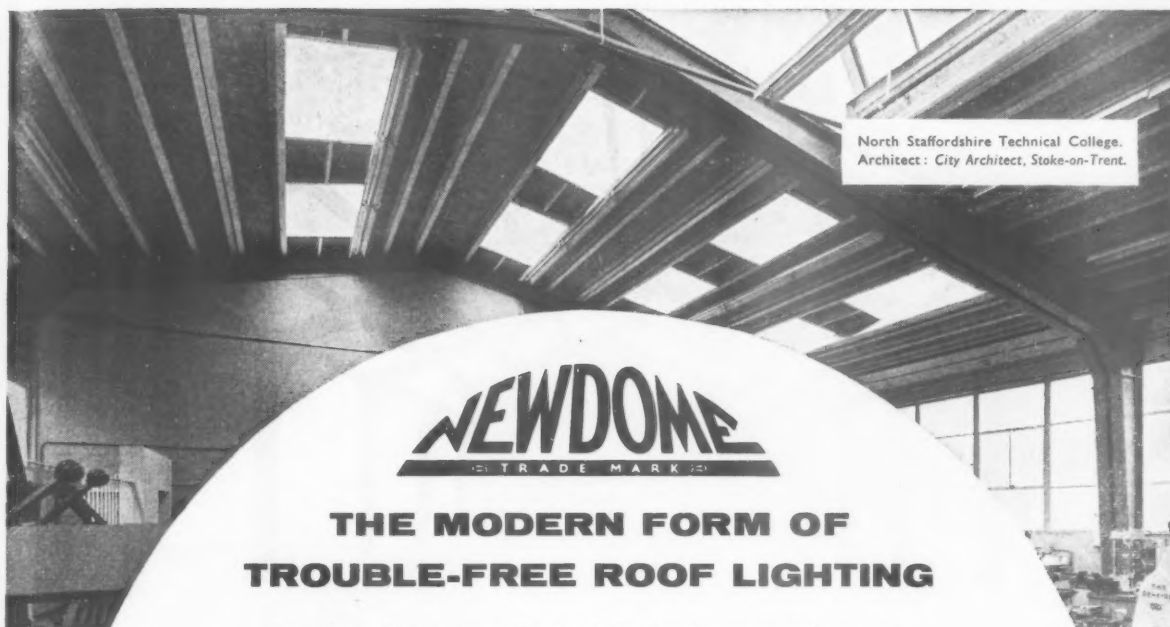
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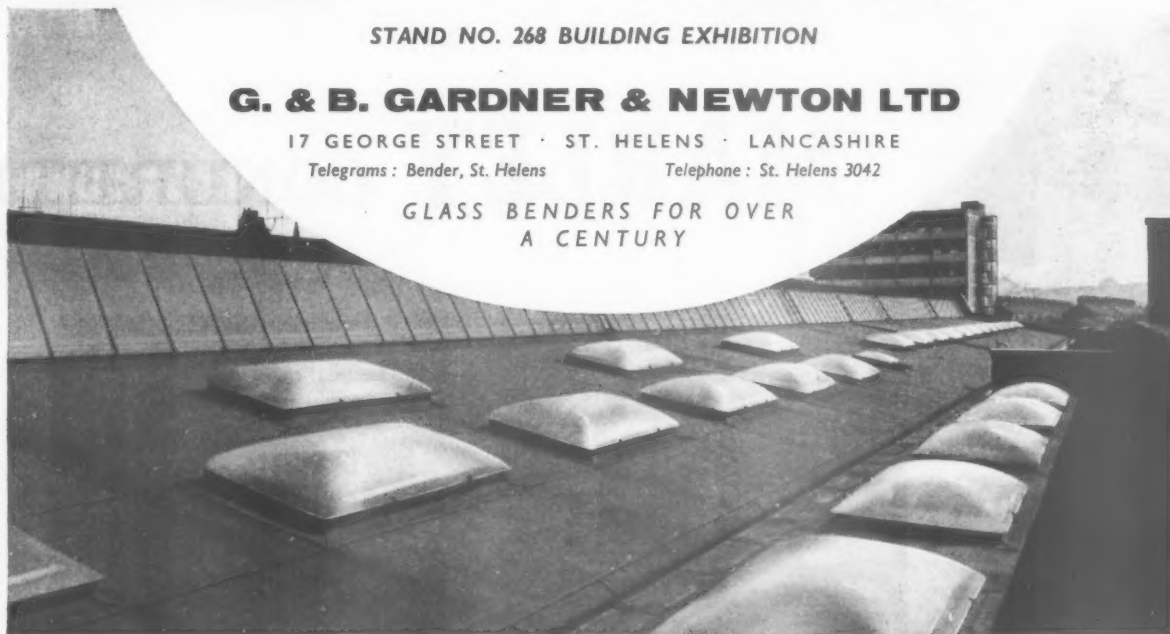
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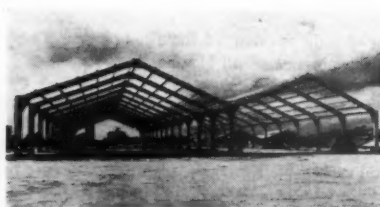
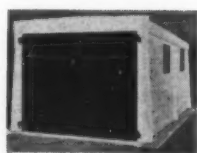
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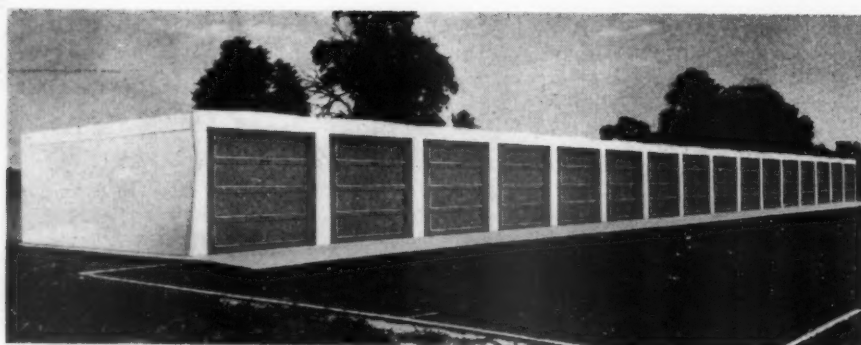
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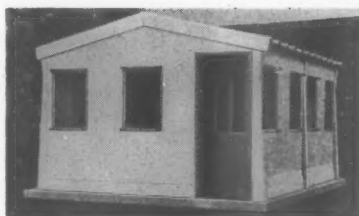
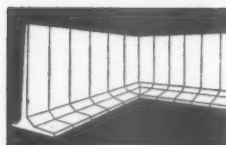
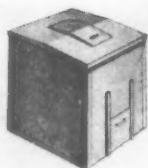




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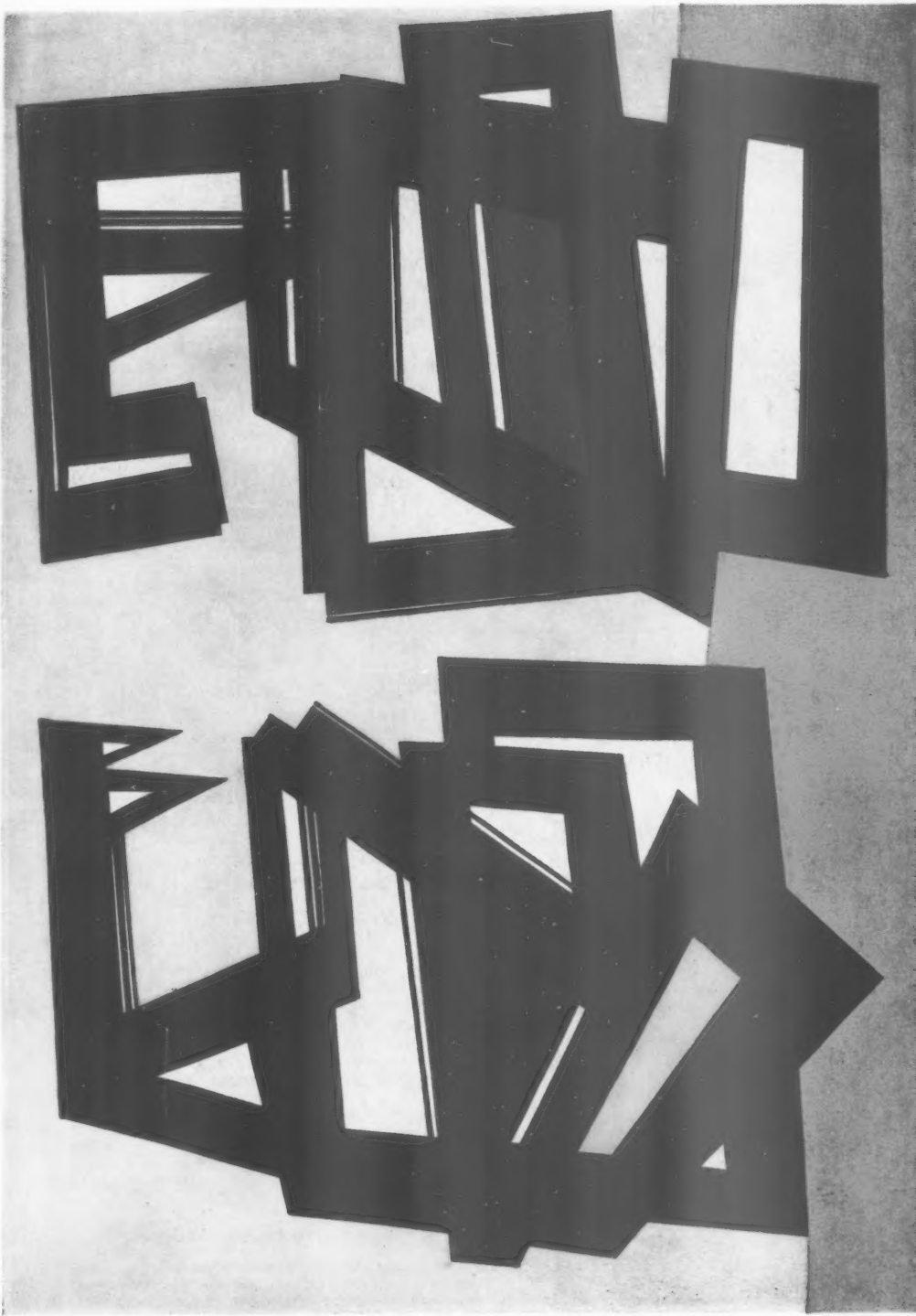
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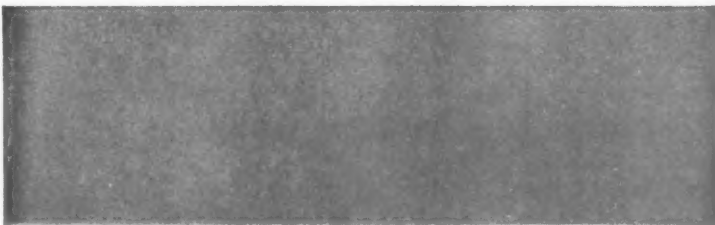
*Design by Merlyn Evans for a mural in Polyester-coated Asbestolux.*

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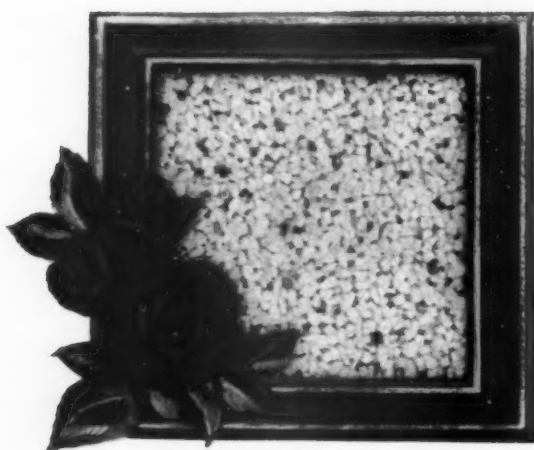




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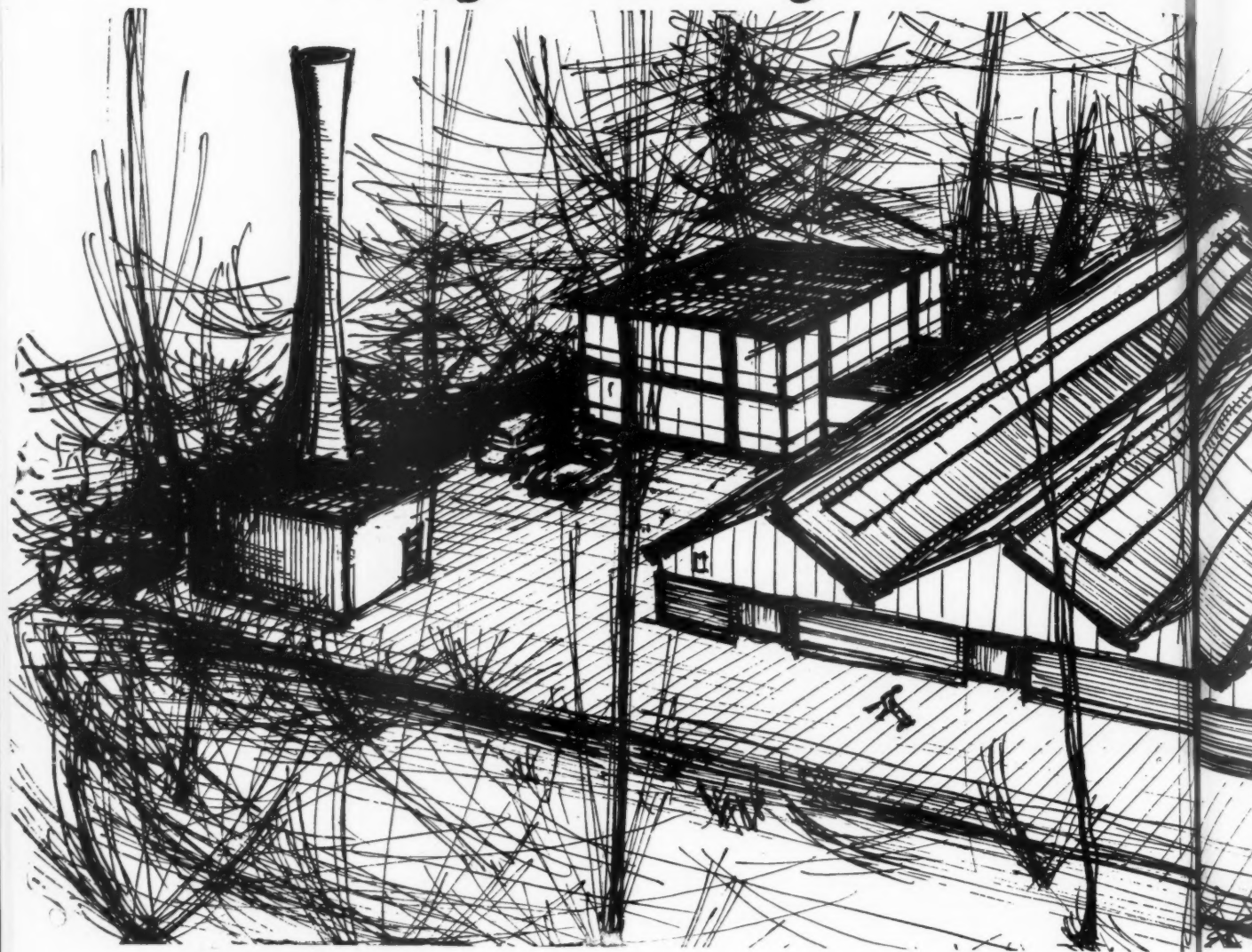
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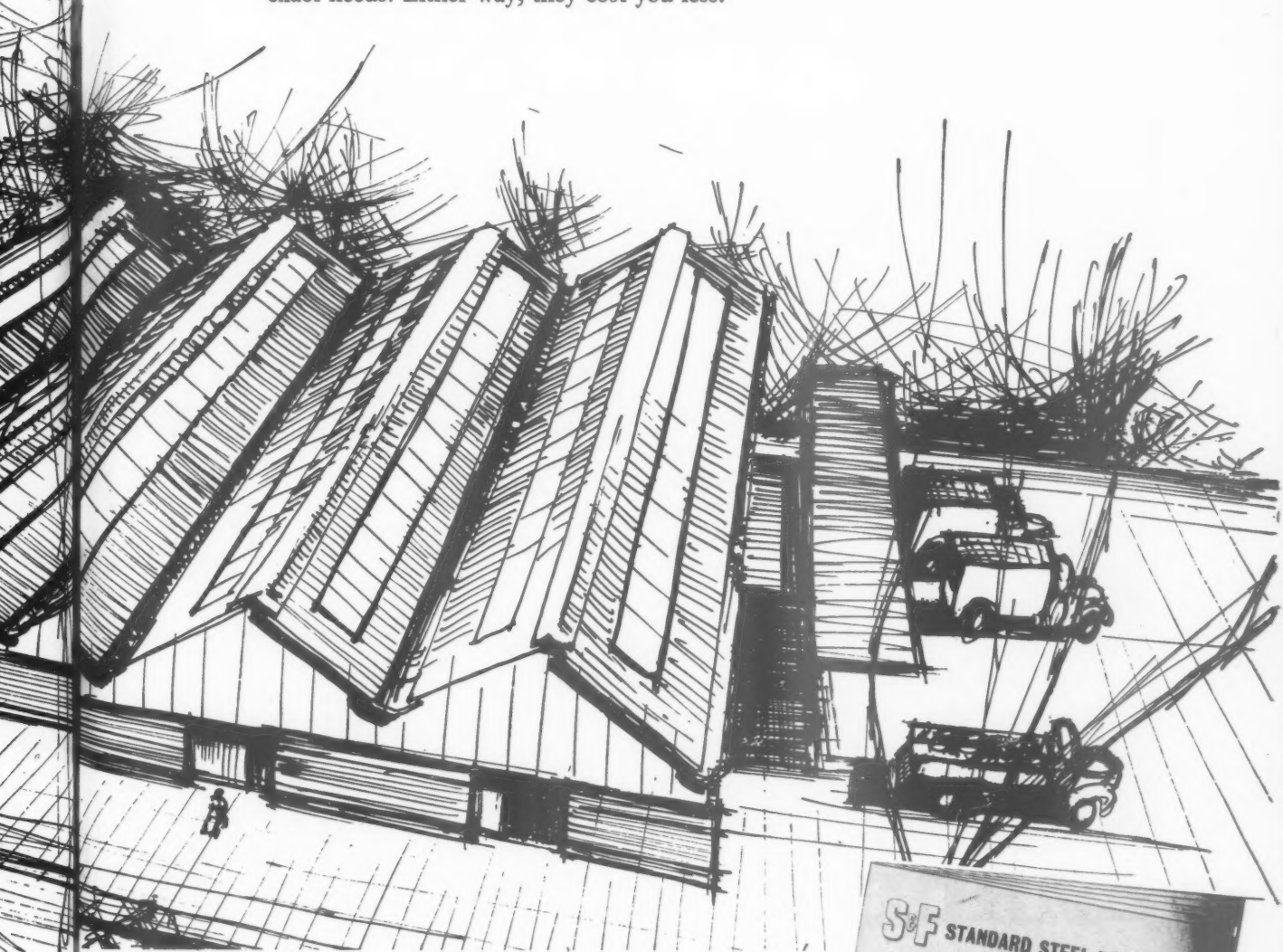
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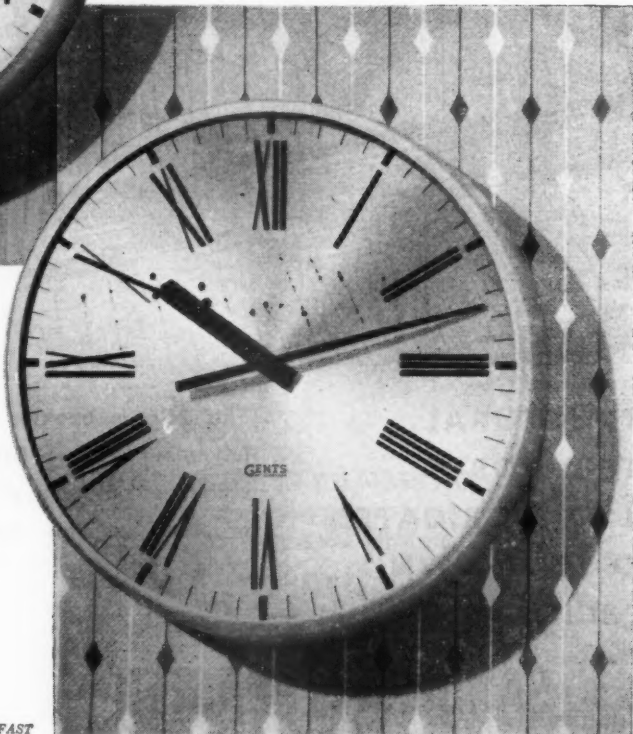
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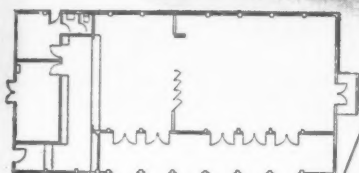
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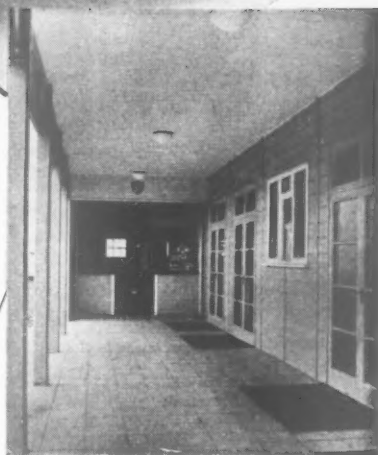
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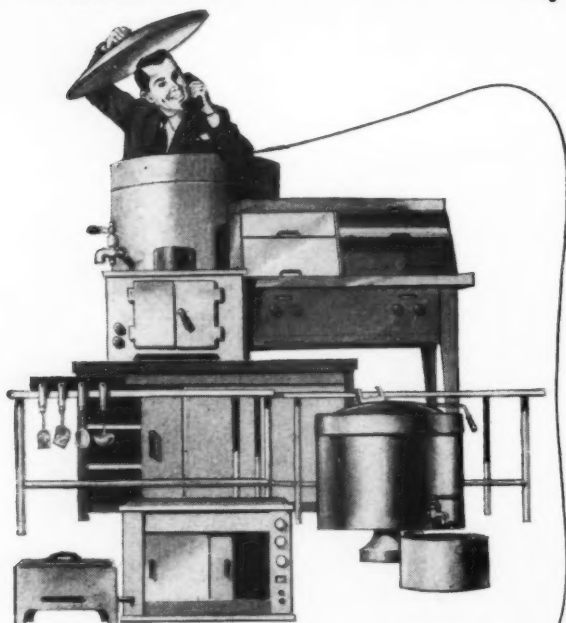
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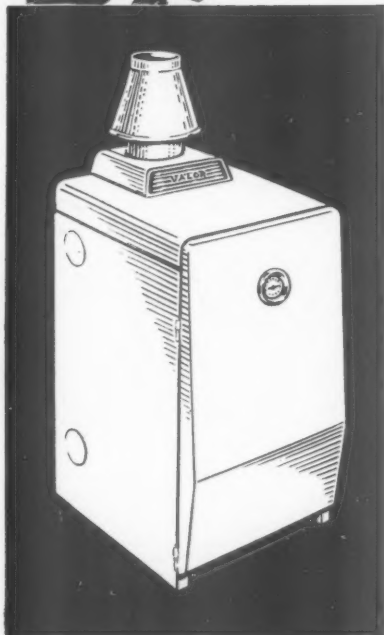
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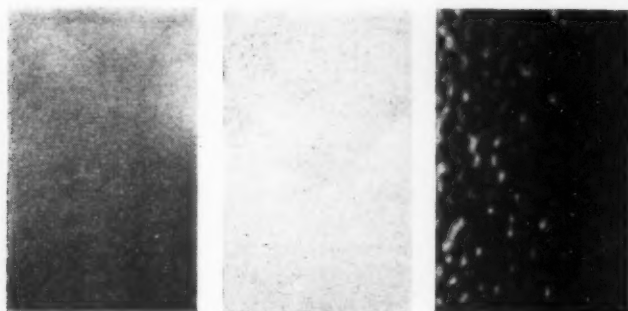
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\* Curran vitreous enamel is a true glass surface fired at 860°C on steel; it is permanent, will not fade and is highly resistant to chemical attack.

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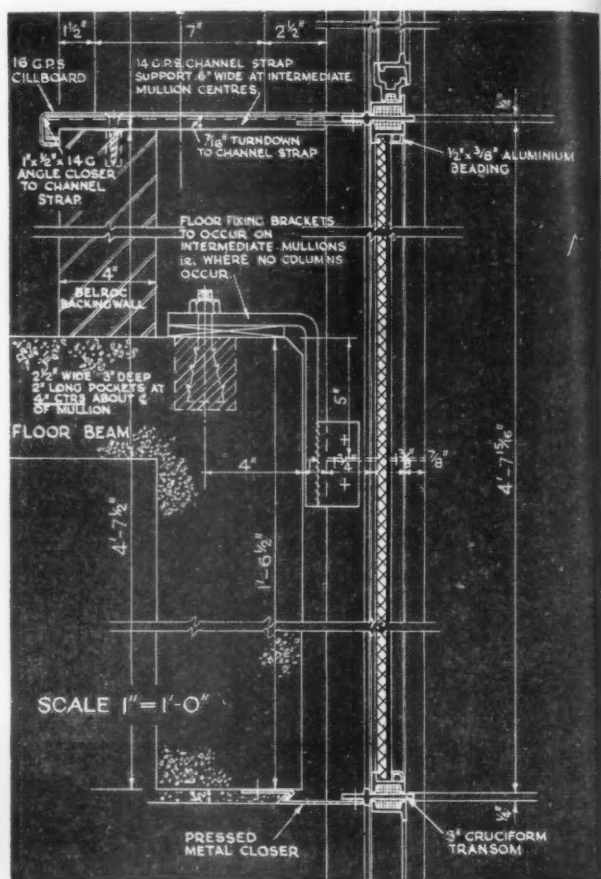
All panels used are Seaporclad Type 7—a modified version of Type 5. It consists of a flat vitreous enamel steel sheet finished in full gloss and bonded to  $\frac{3}{8}$ " Asbestolux, without the back-up sheet of electro-galvanized steel used in Type 5. The panel edges are sealed all round with P.V.C. tape. Total Surface Area: 1228.43 sq. ft.

Architects: City Architects Department, Cardiff.

Contractors: John Laing & Sons Ltd.

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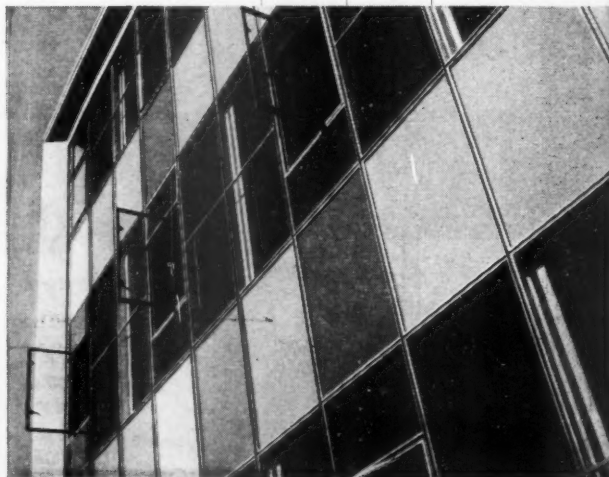
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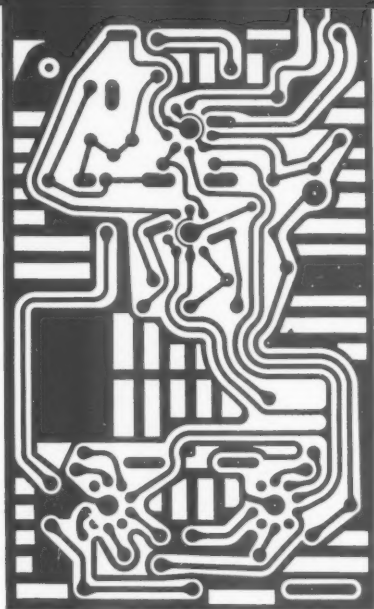
MINIUM

CTION

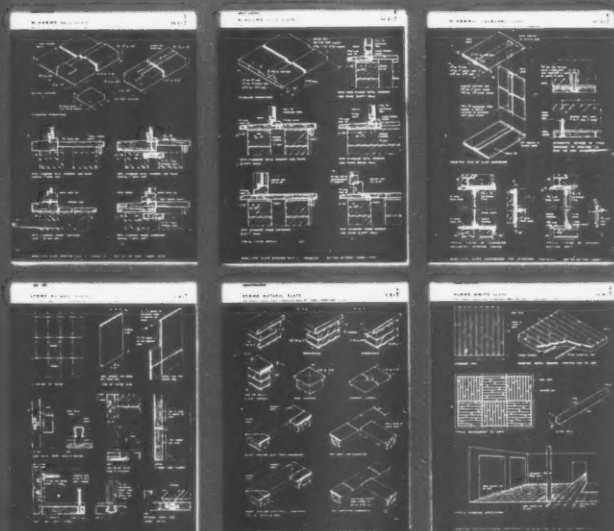
02







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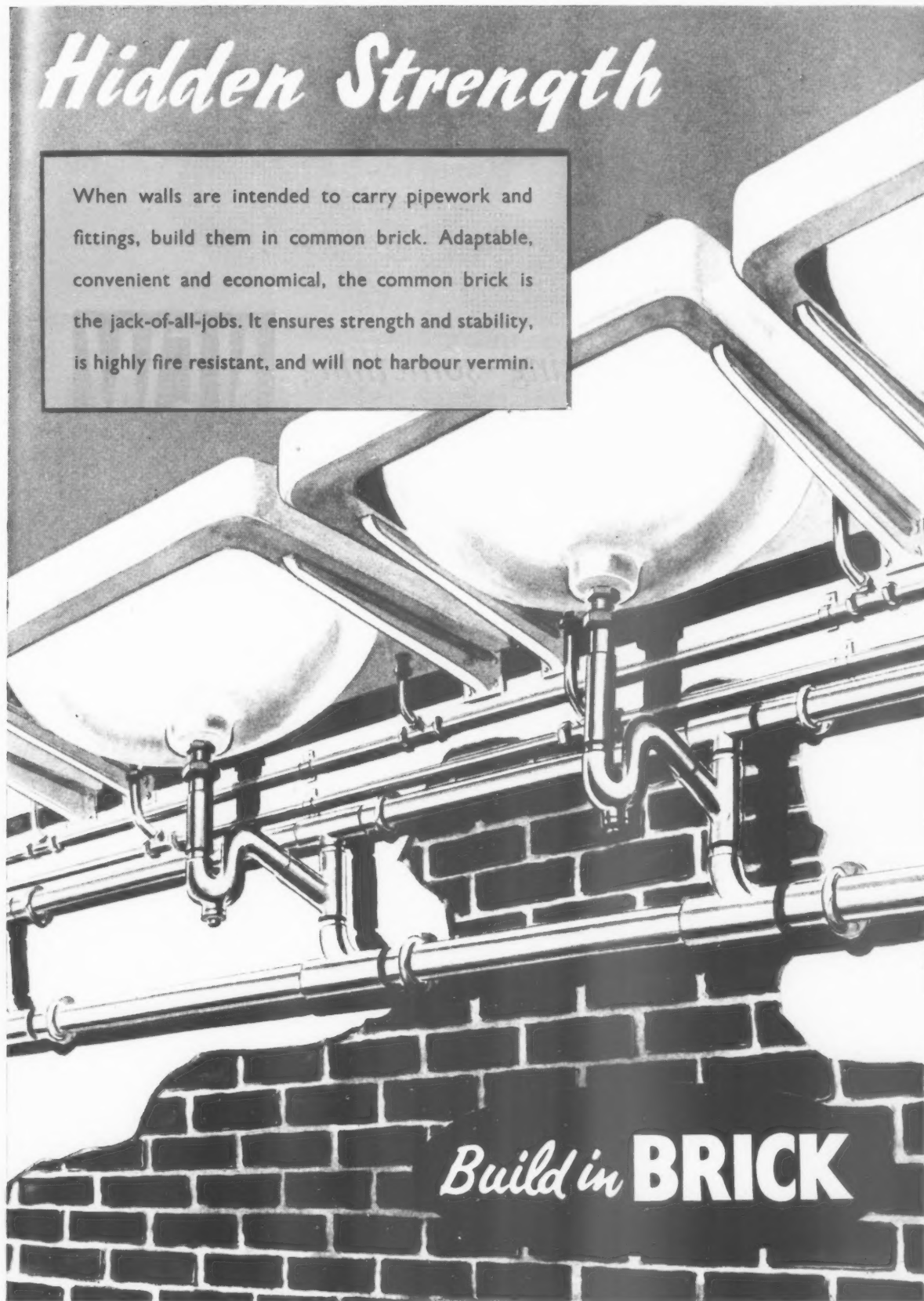






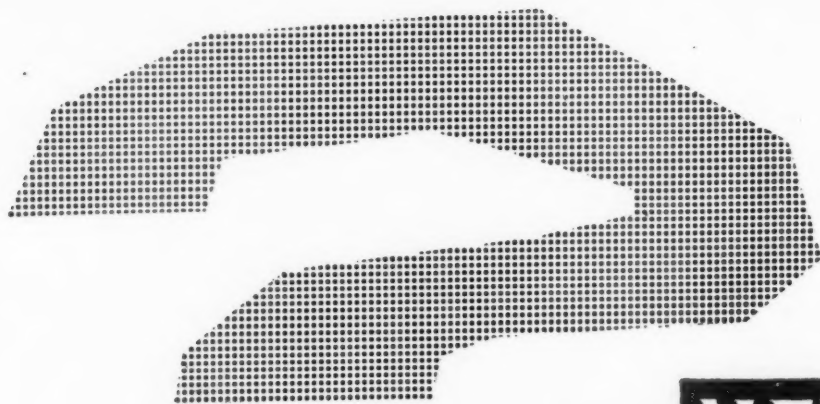
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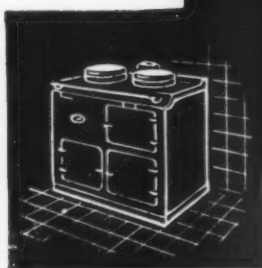
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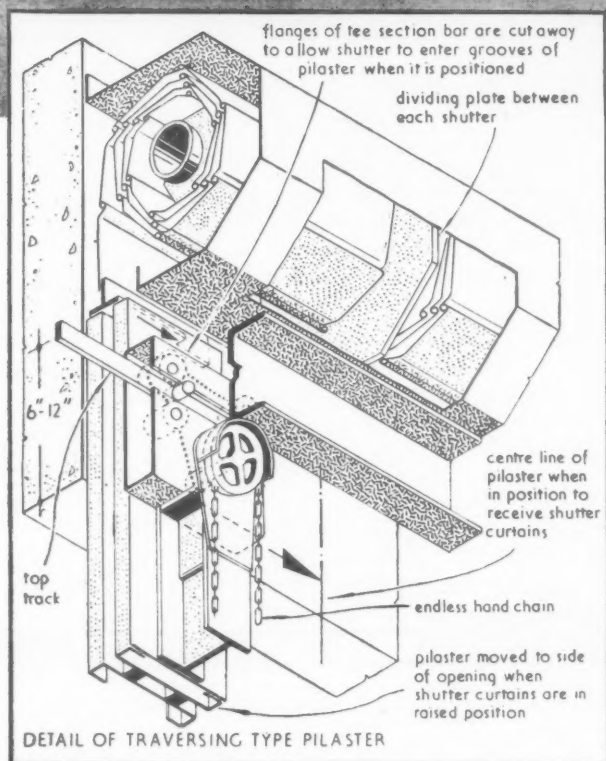
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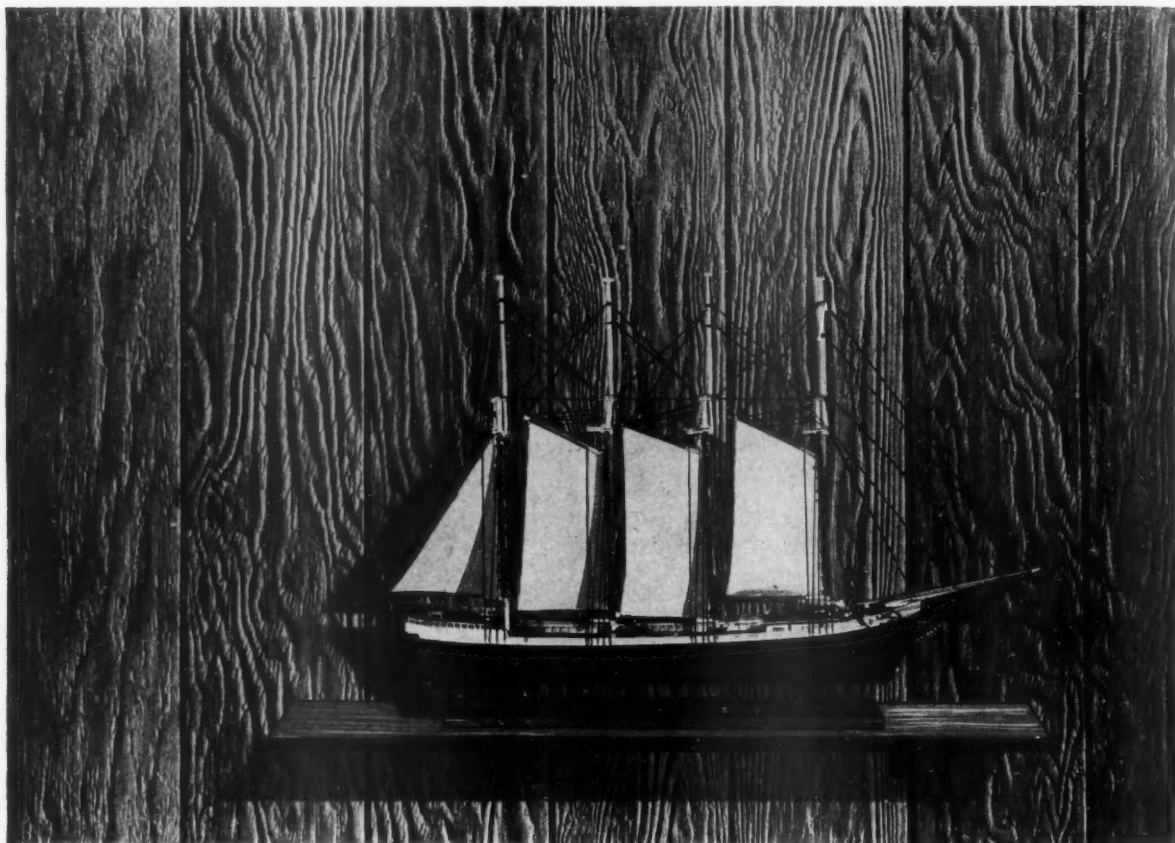
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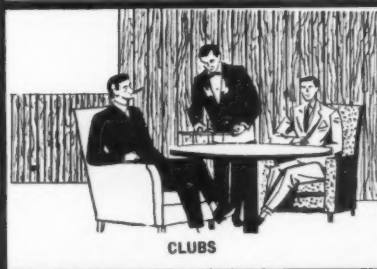
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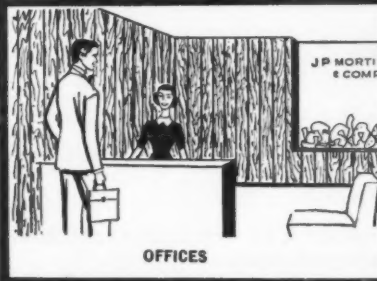
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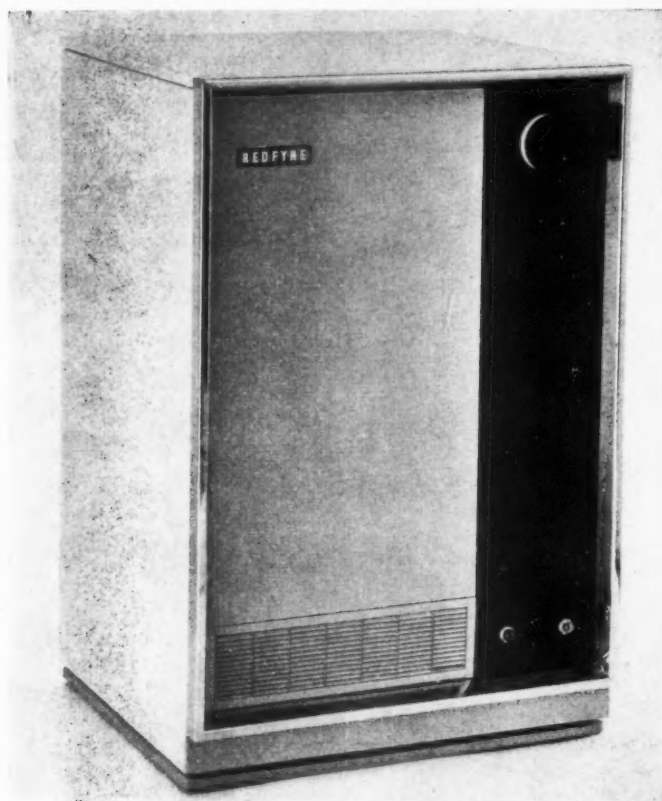
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The Centramatic described here is the Centramatic 50. But there is also available a larger version, the Centramatic 80, with an hourly output of 80,000 B.Th.U.'s. It has all the good points of the Centramatic 50, is cylindrical in shape (22" diameter by 54" high) and compact for its output.

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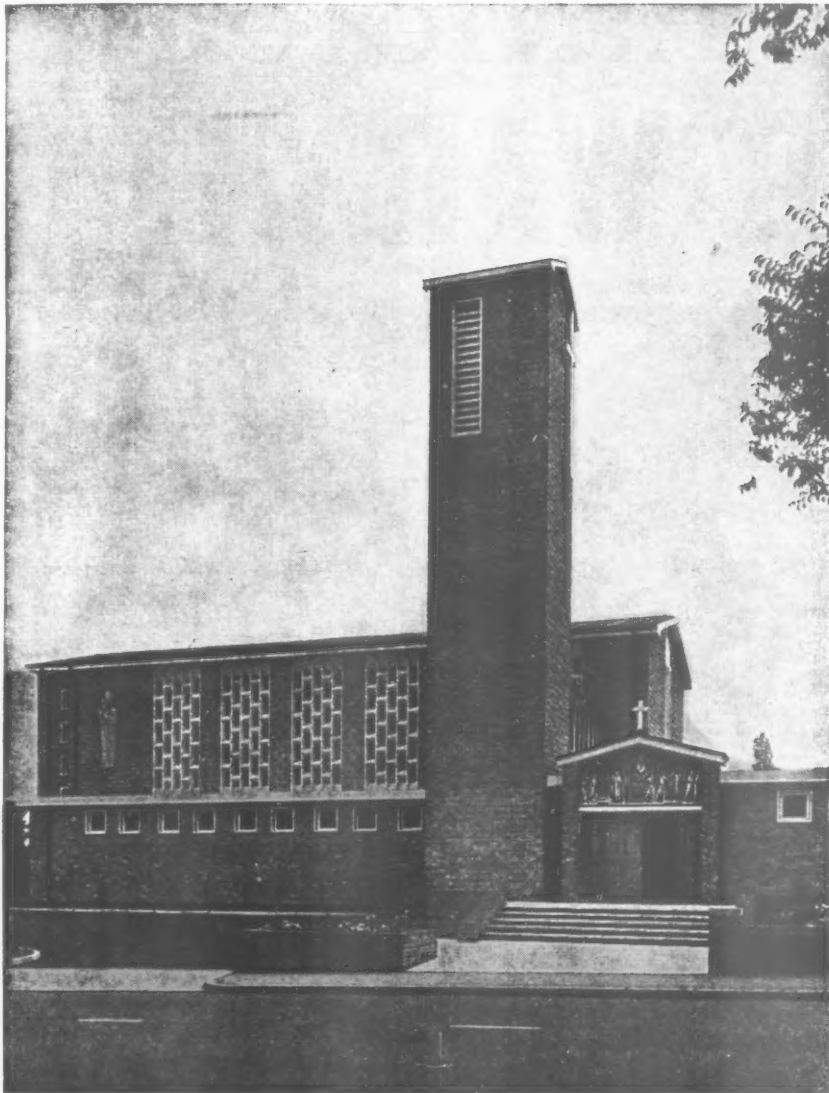
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Full technical specifications of the Redfyre Centramatic oil-fired boilers are available on request. Please write to Newton Chambers & Co., Ltd., Redfyre Products, Thorncliffe, Sheffield.

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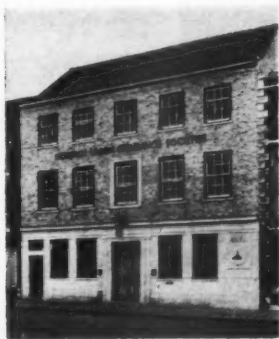
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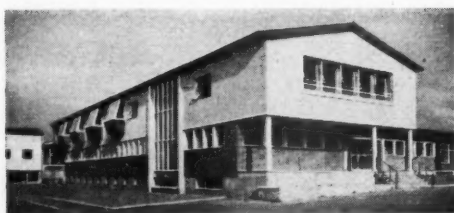


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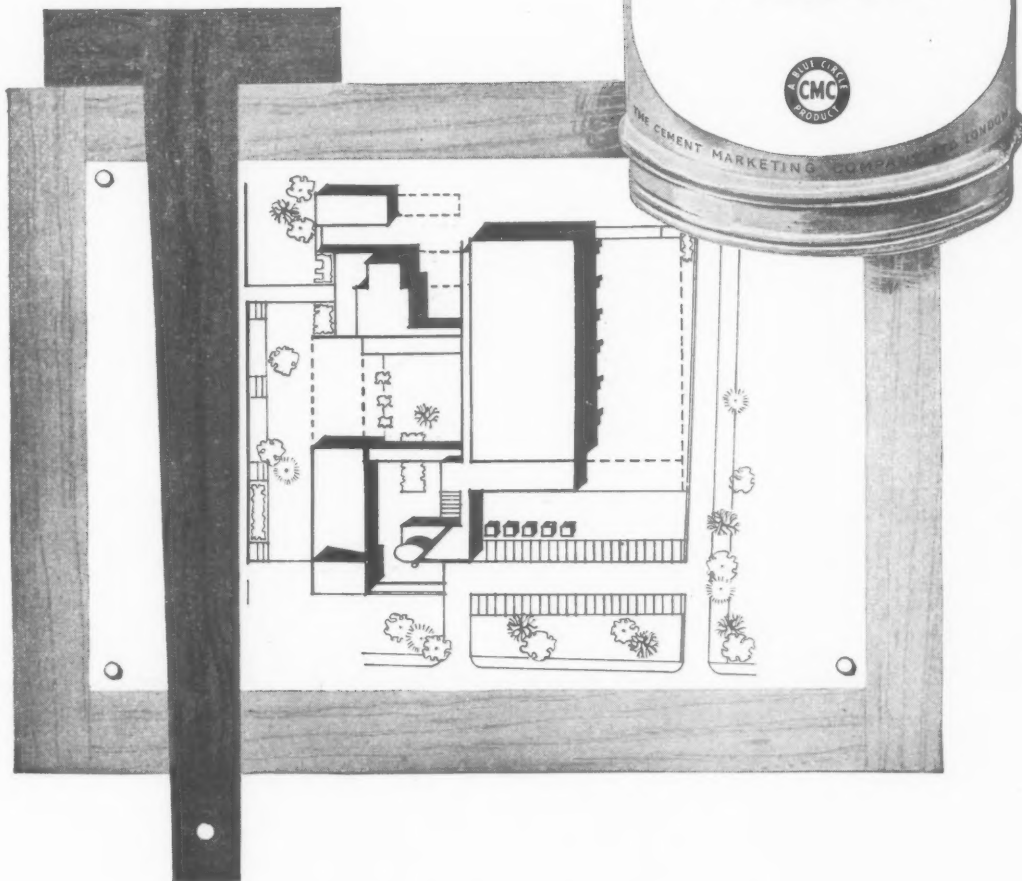


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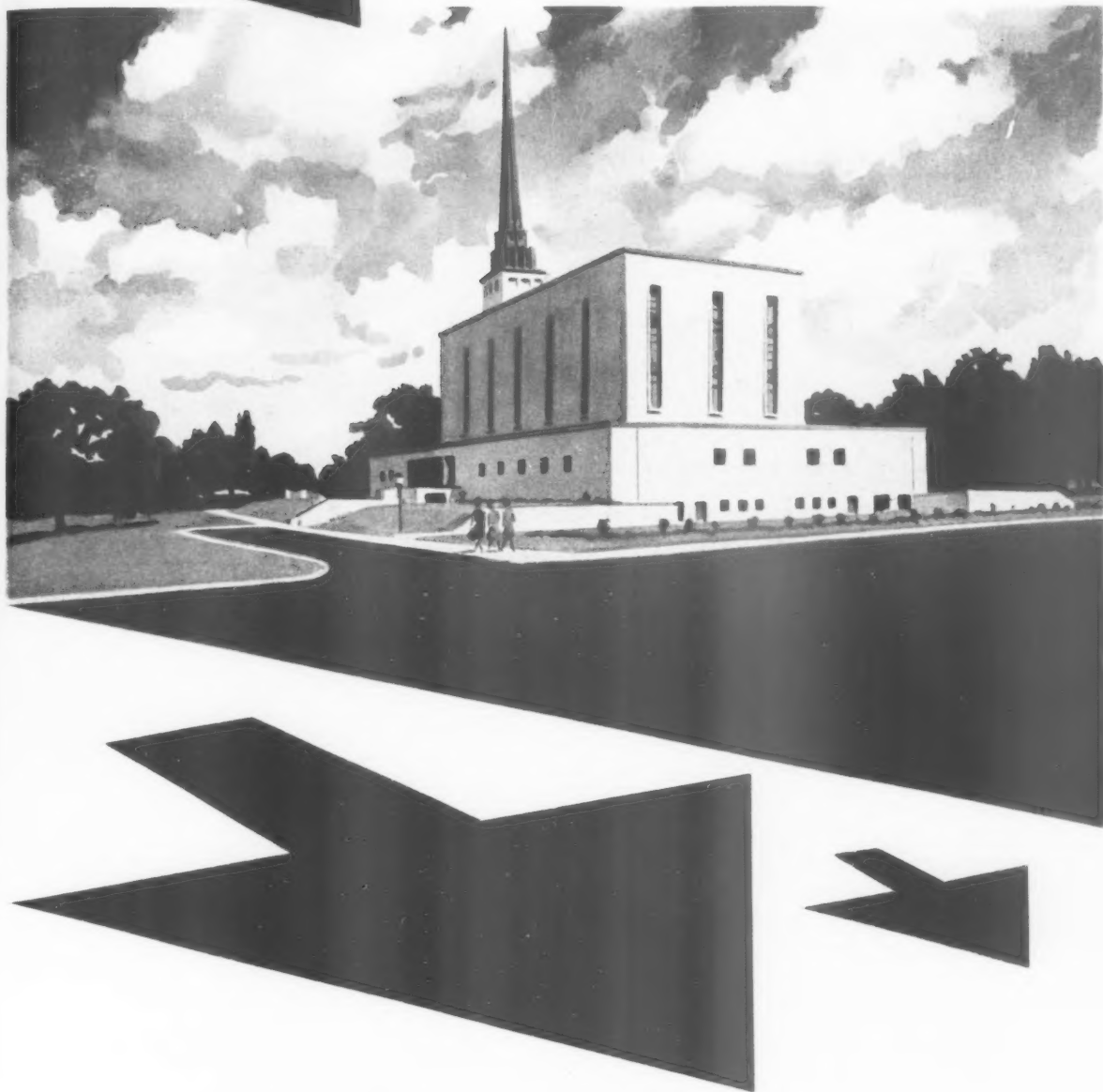
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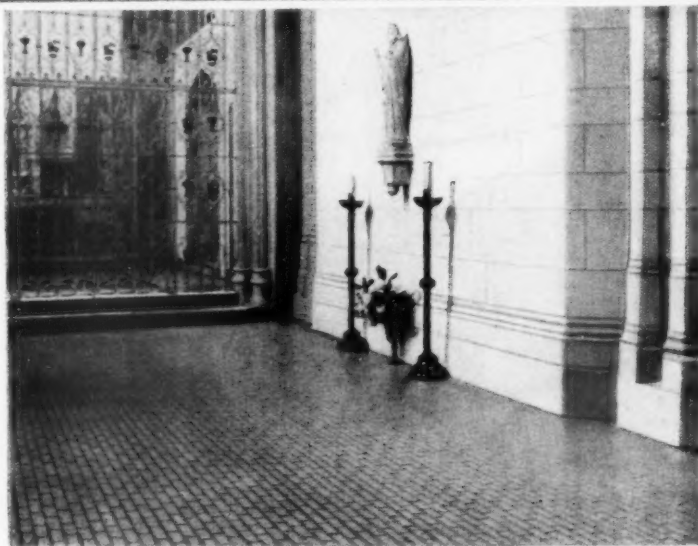
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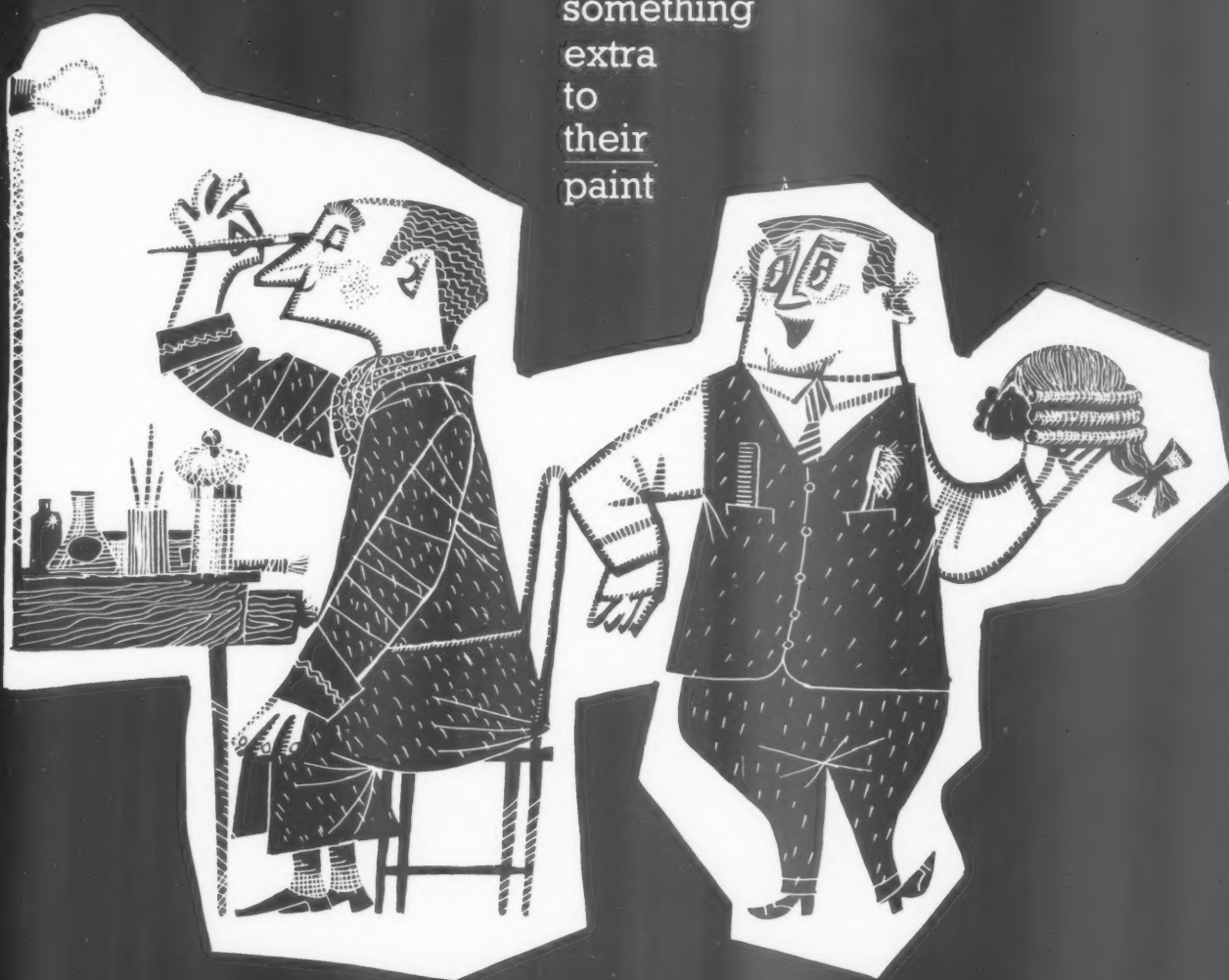
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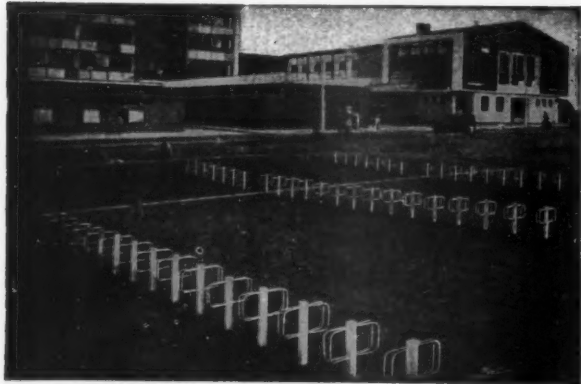
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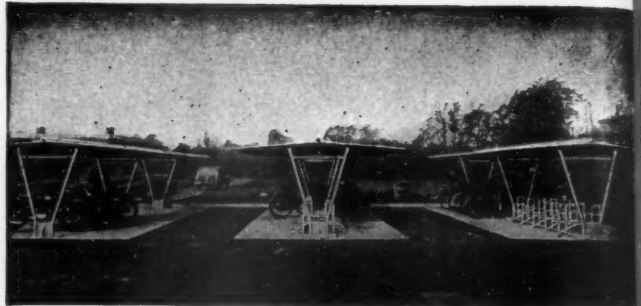
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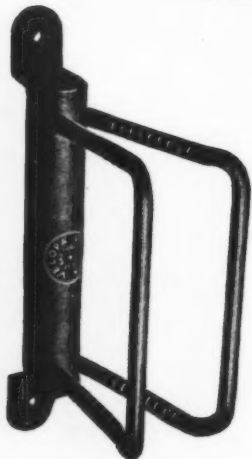
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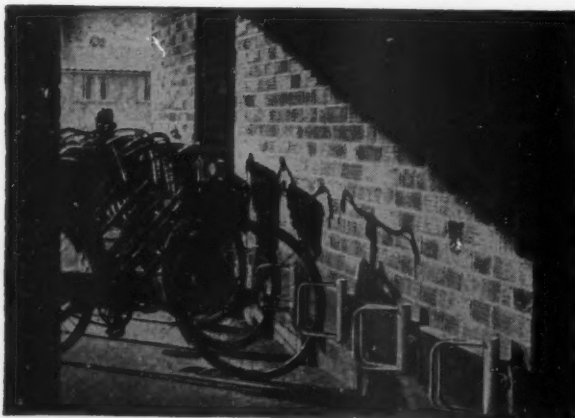
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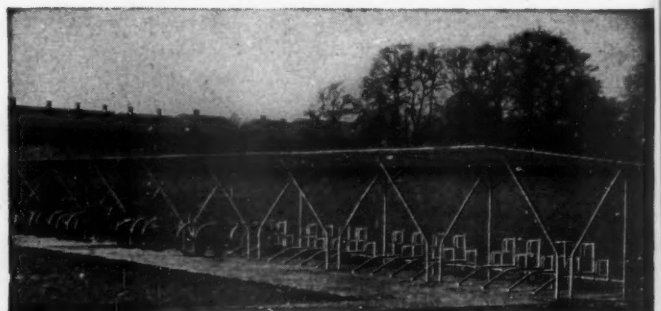
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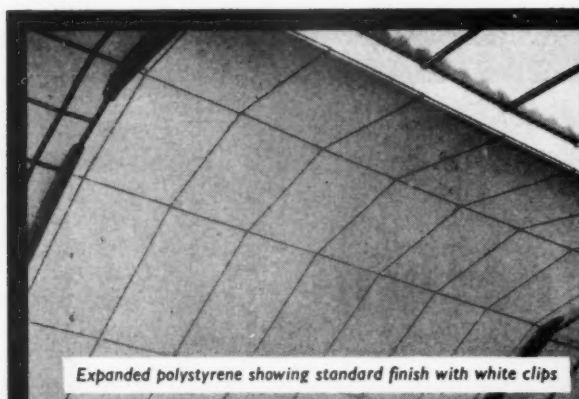
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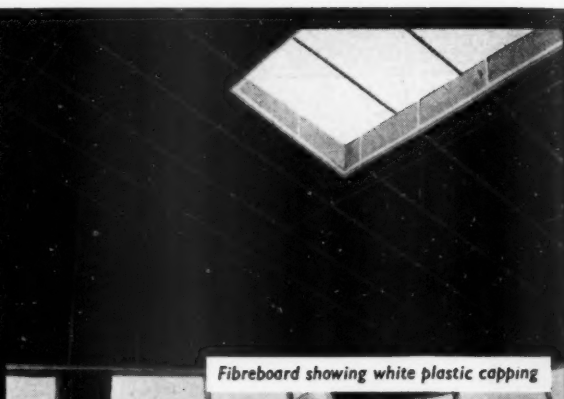
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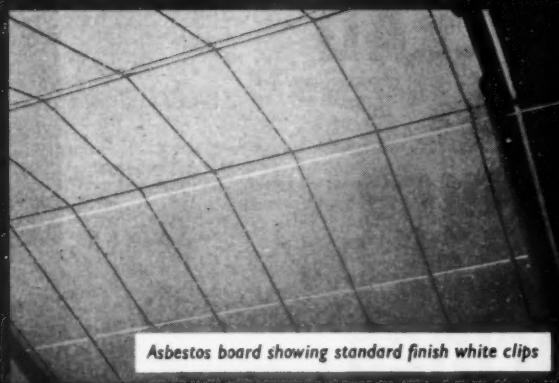
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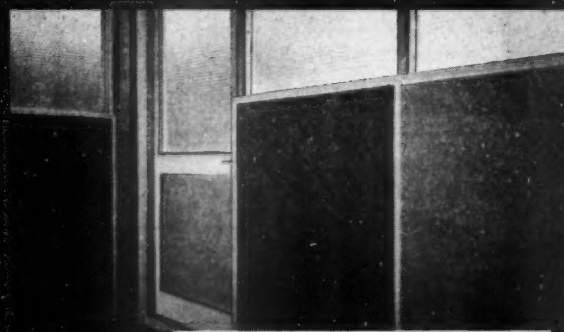
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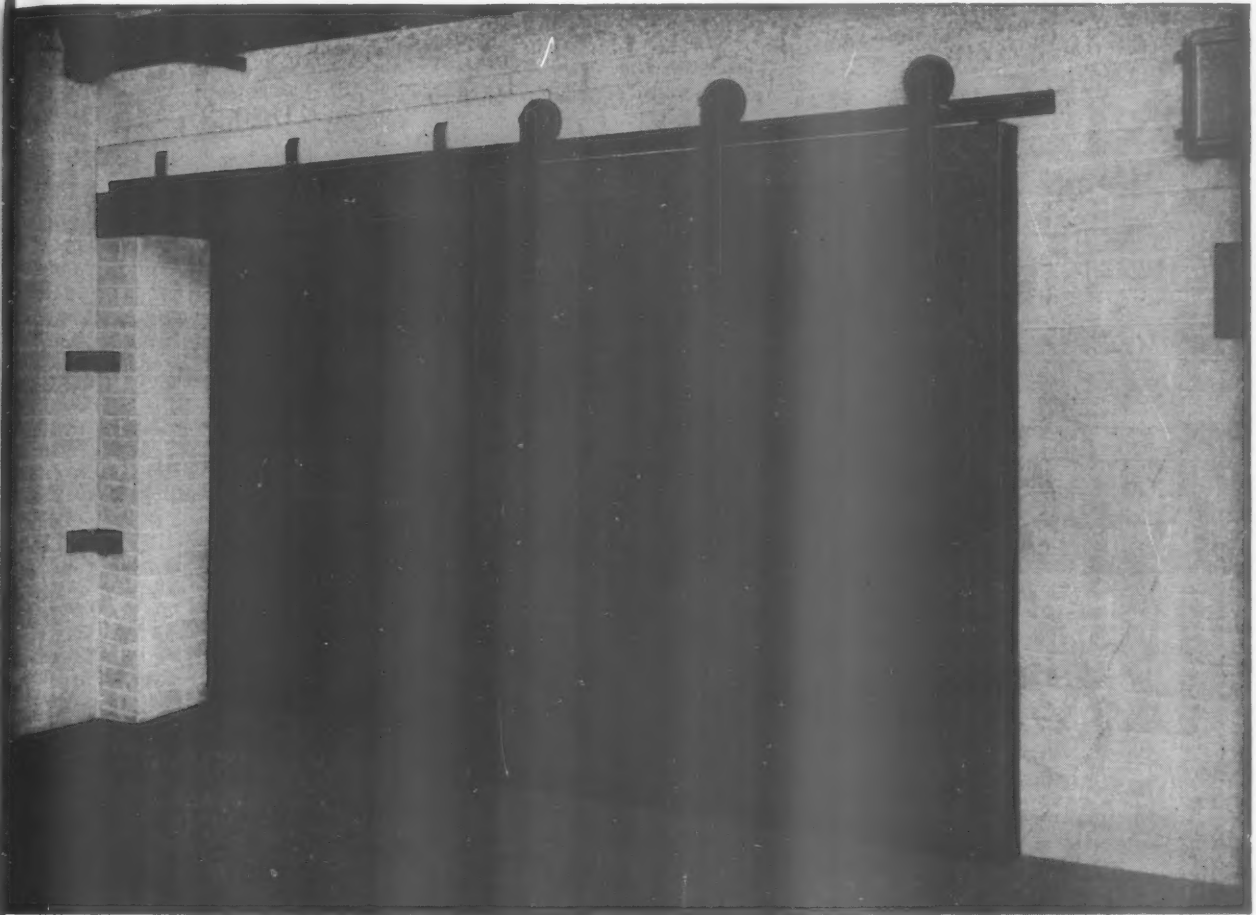


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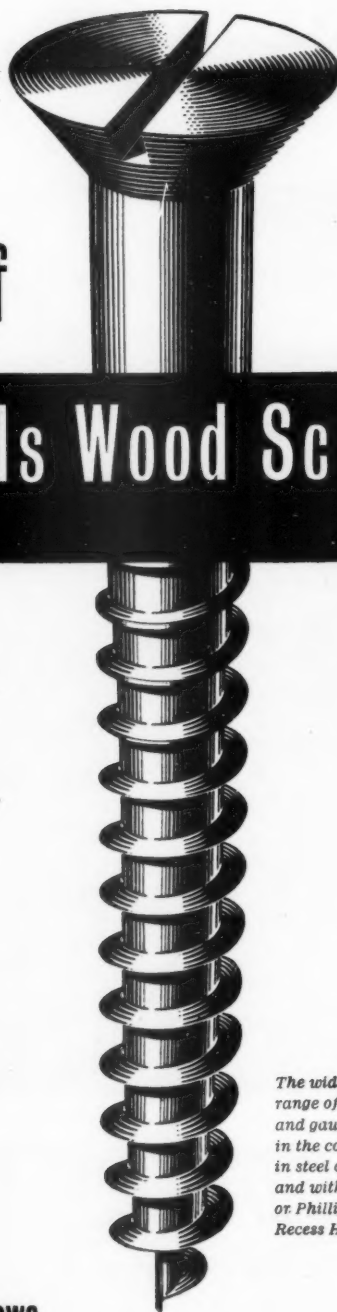
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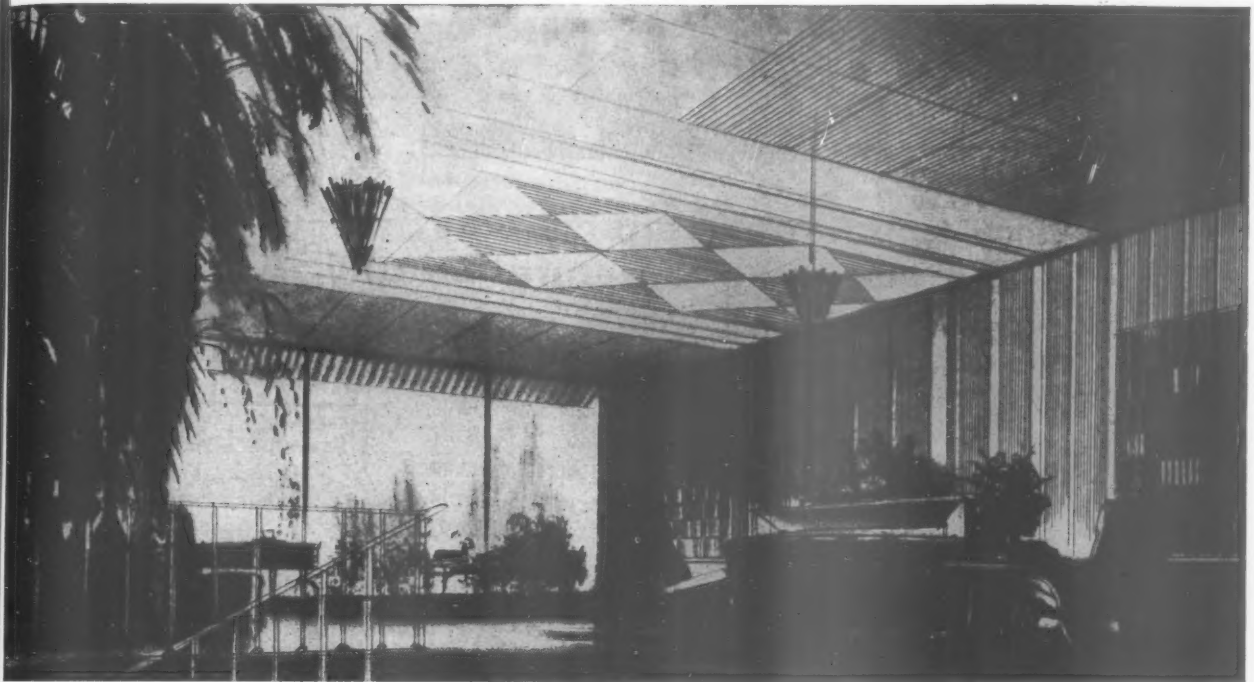


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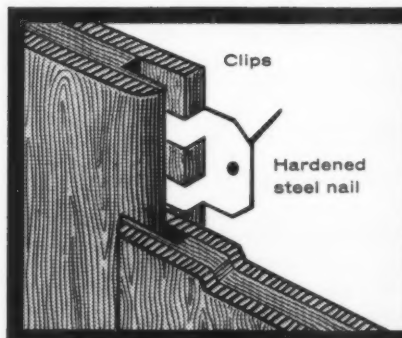
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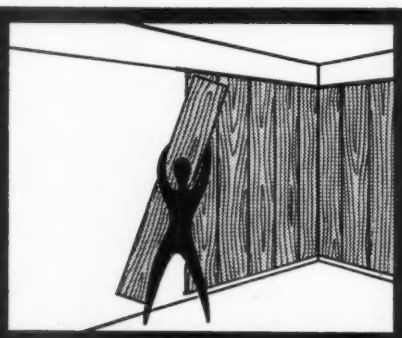
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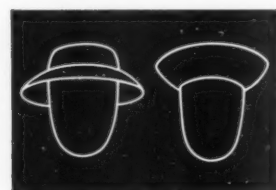
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INTERNAL DESIGN TEMPERATURE (5 ft. from floor level)	MAXIMUM 'U' VALUE (British Units)
70°F	0.30
65°F	0.34
60°F	0.40
55°F	0.48

Since the lower the 'U' value, the higher the standard of thermal insulation, 'Maximum "U" Value' here means the *minimum* permissible standard of thermal efficiency.

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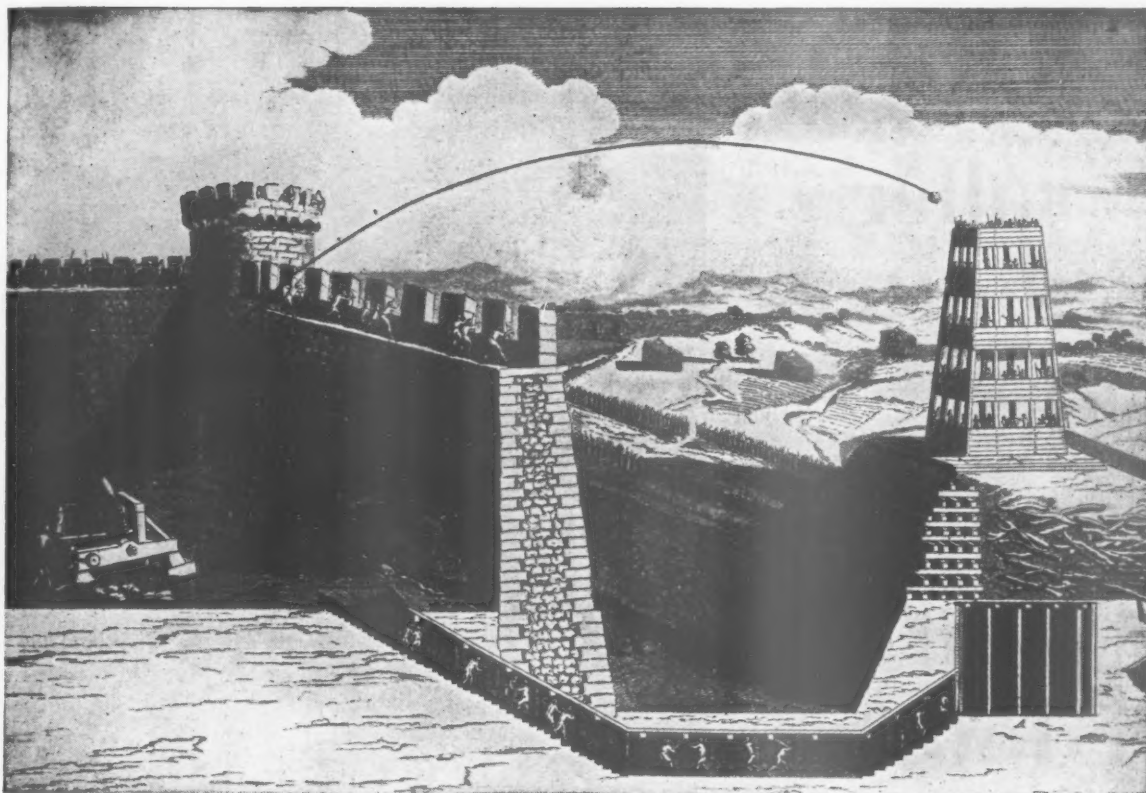
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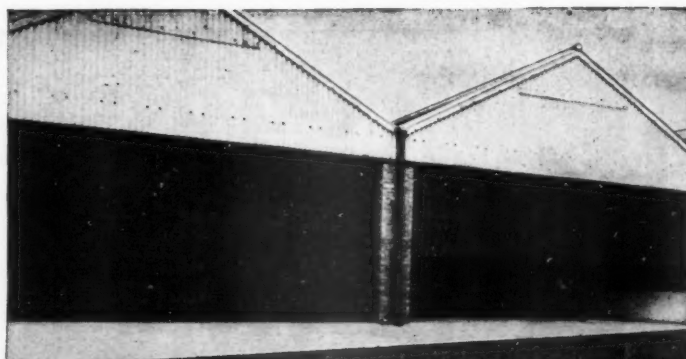


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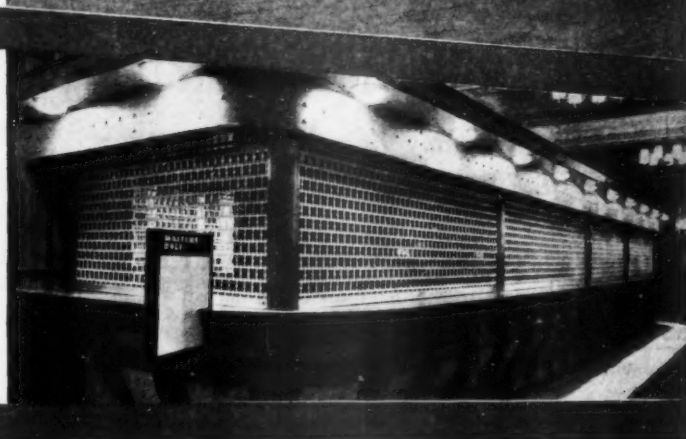
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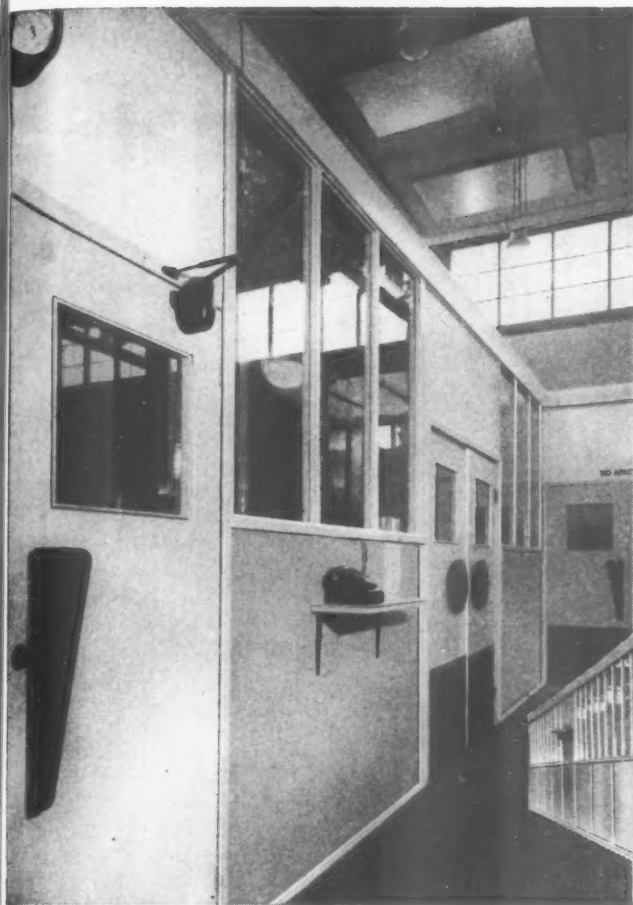
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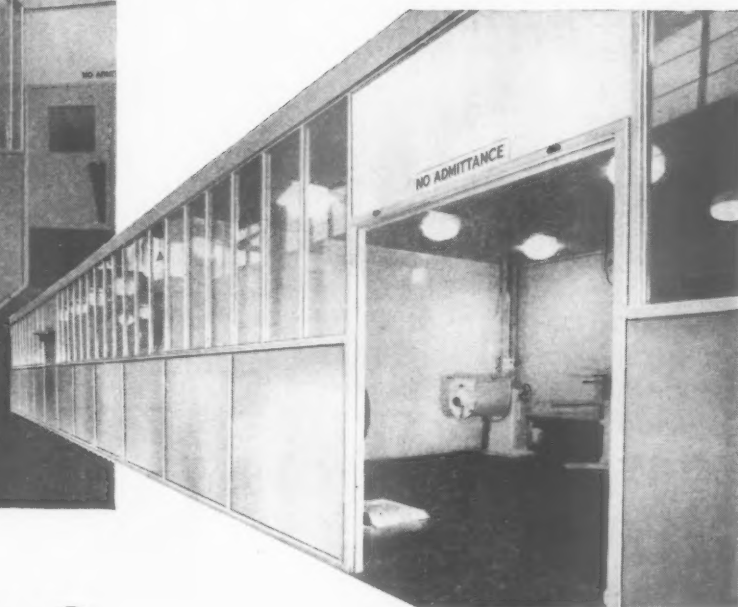


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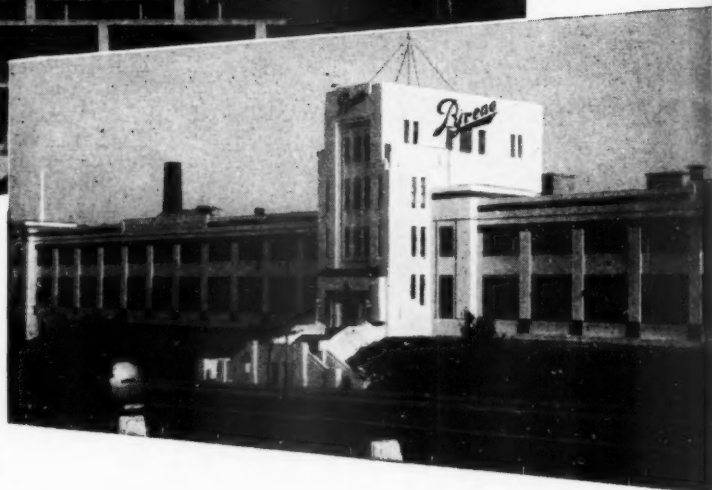
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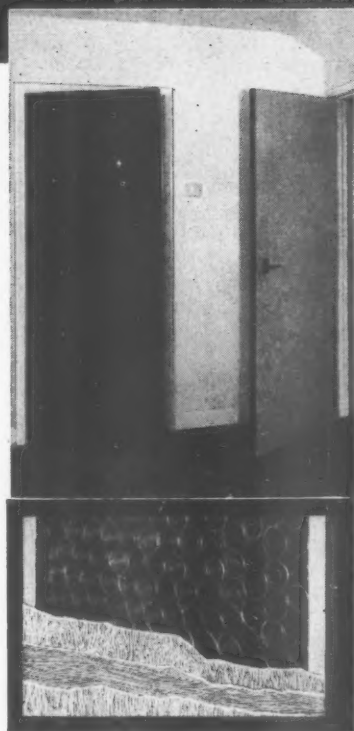


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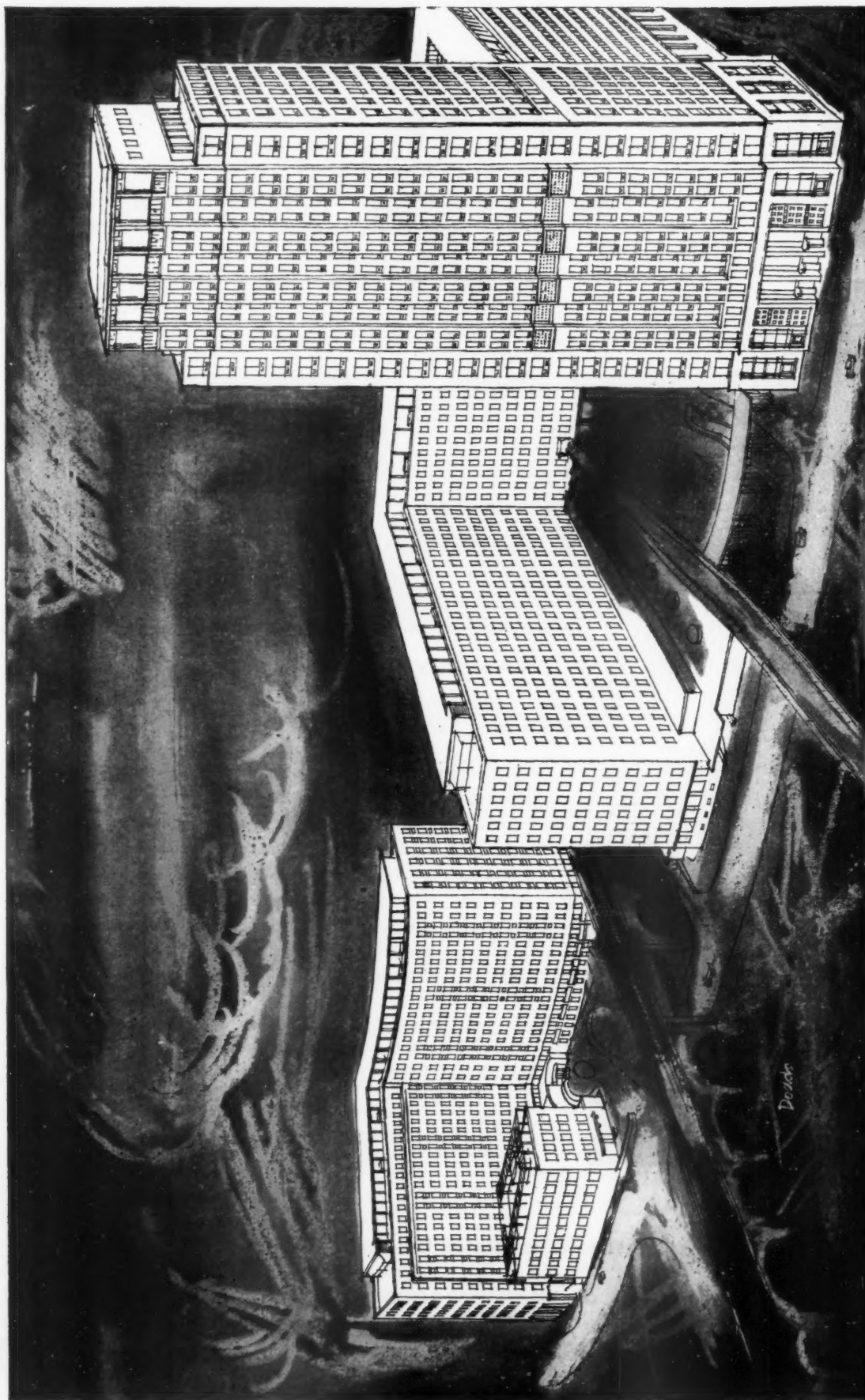


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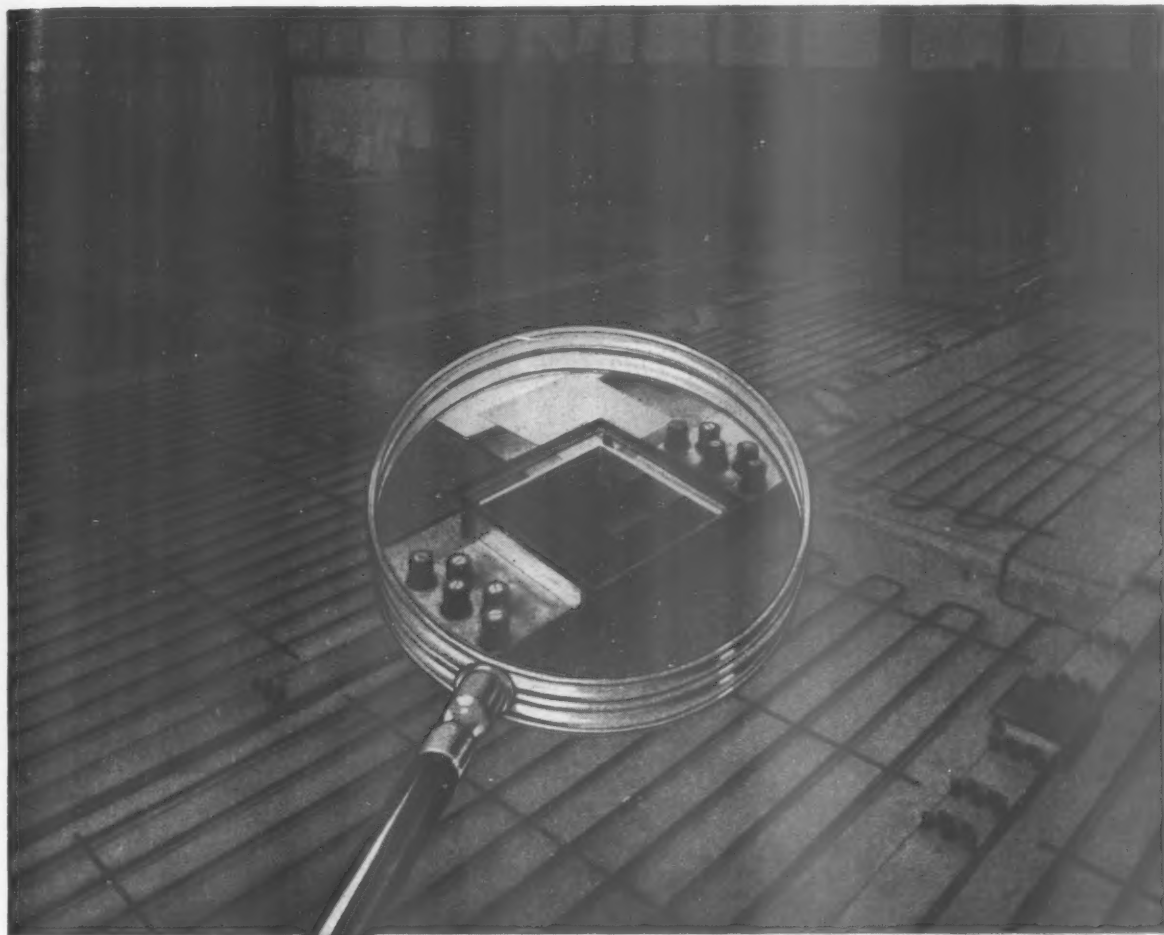


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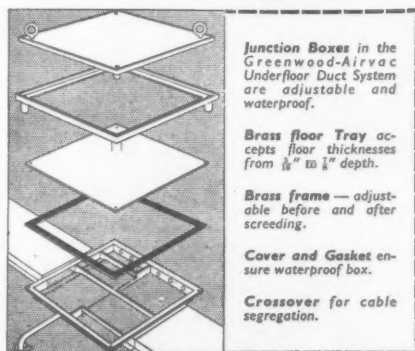
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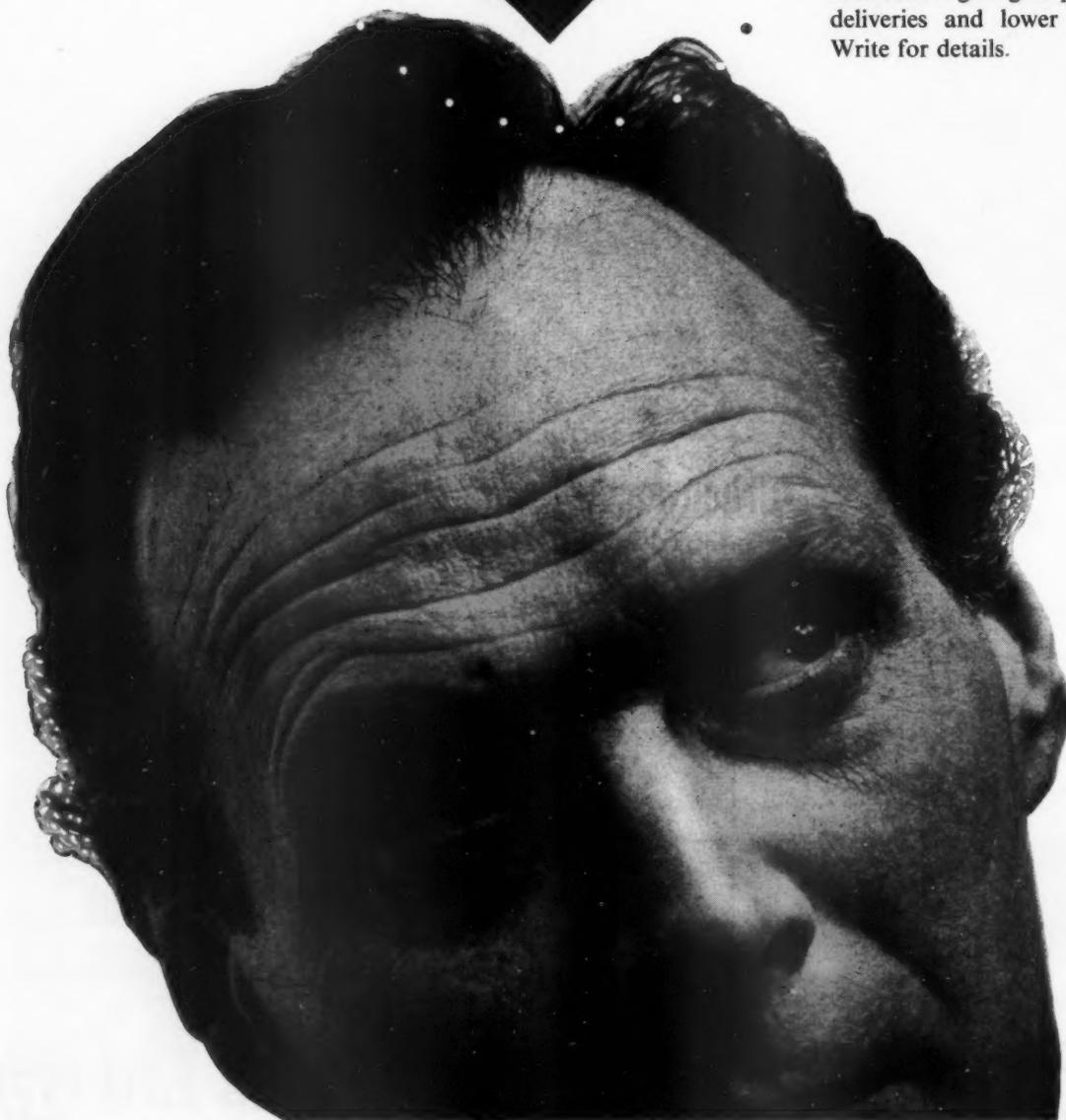
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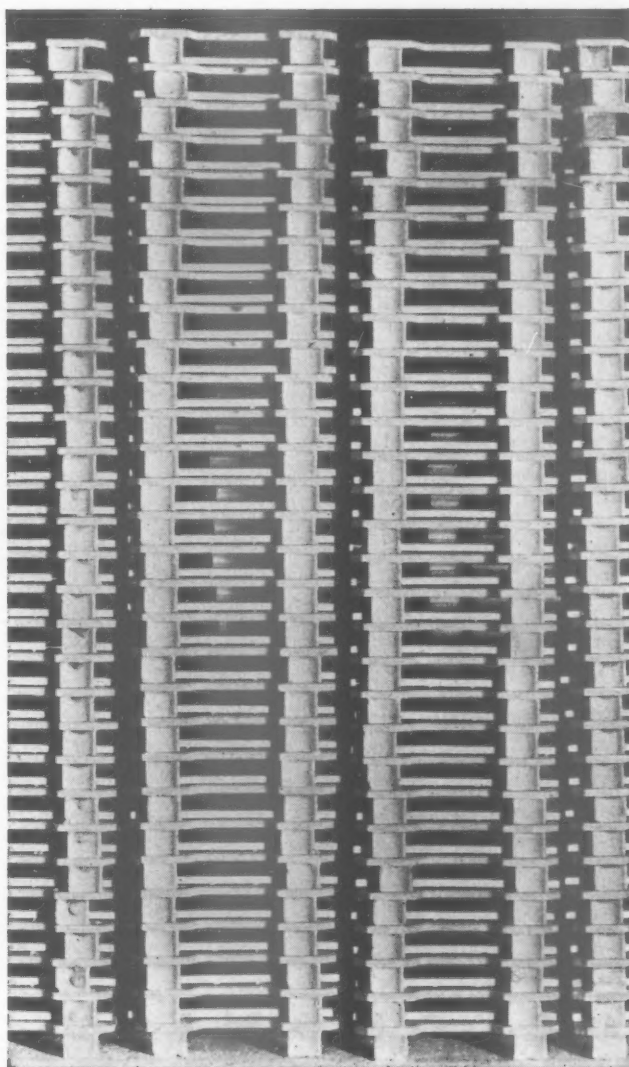
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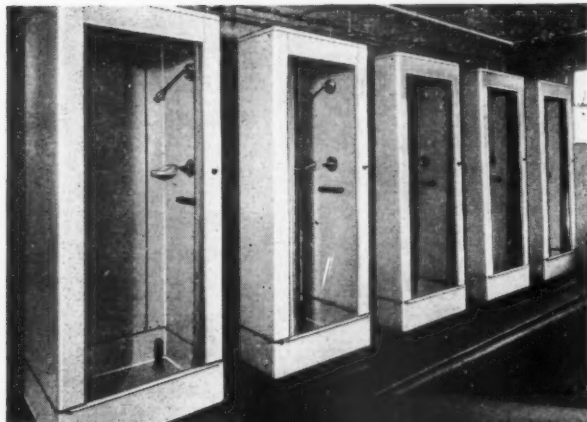


*Eric de Maré*

You might think that this was a new office block somewhere in the Americas, either affected by catastrophic Act of God, or deliberately built thus by man in a cranky attempt to mitigate by imprecision the mechanical regularity of the modern cellular structure. In fact these are biscuit cranks (not at all cranky but taking the cake for functionalism) in use at the Carter factories. They are open shelves of fireclay on which rest, in careful separation, the newly glazed tiles as they pass through a tunnel of fire at some 1,000 degrees Centigrade.

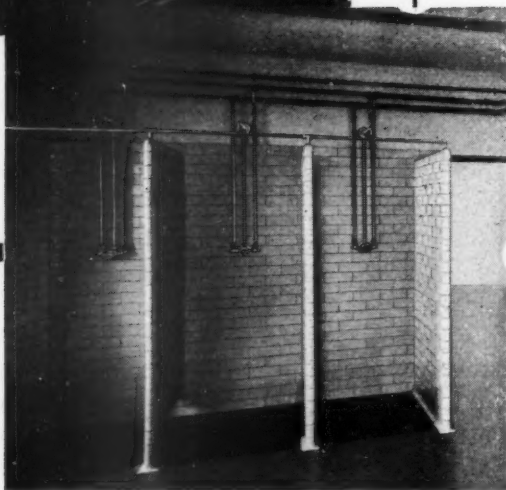
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— new needs*

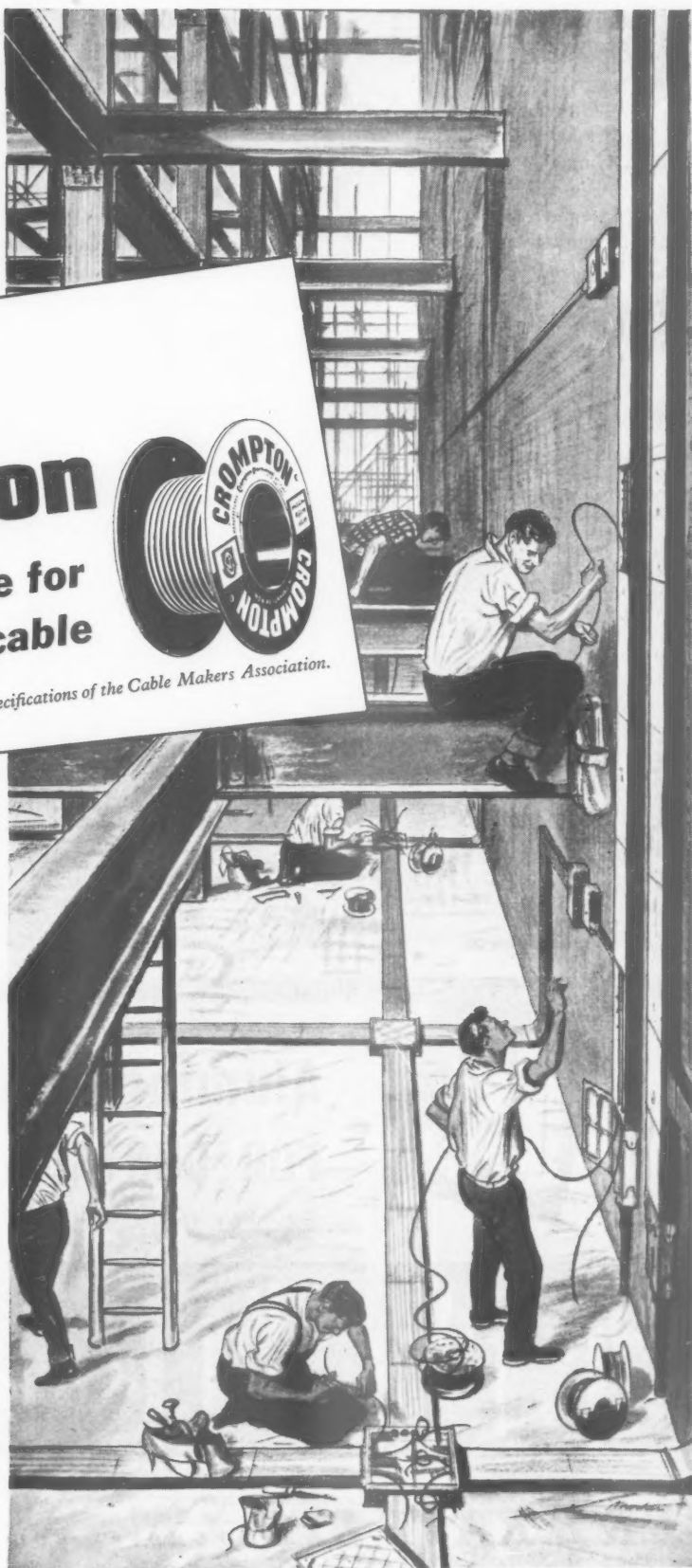
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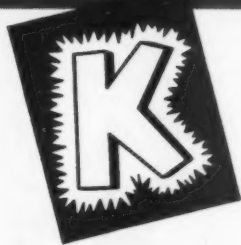
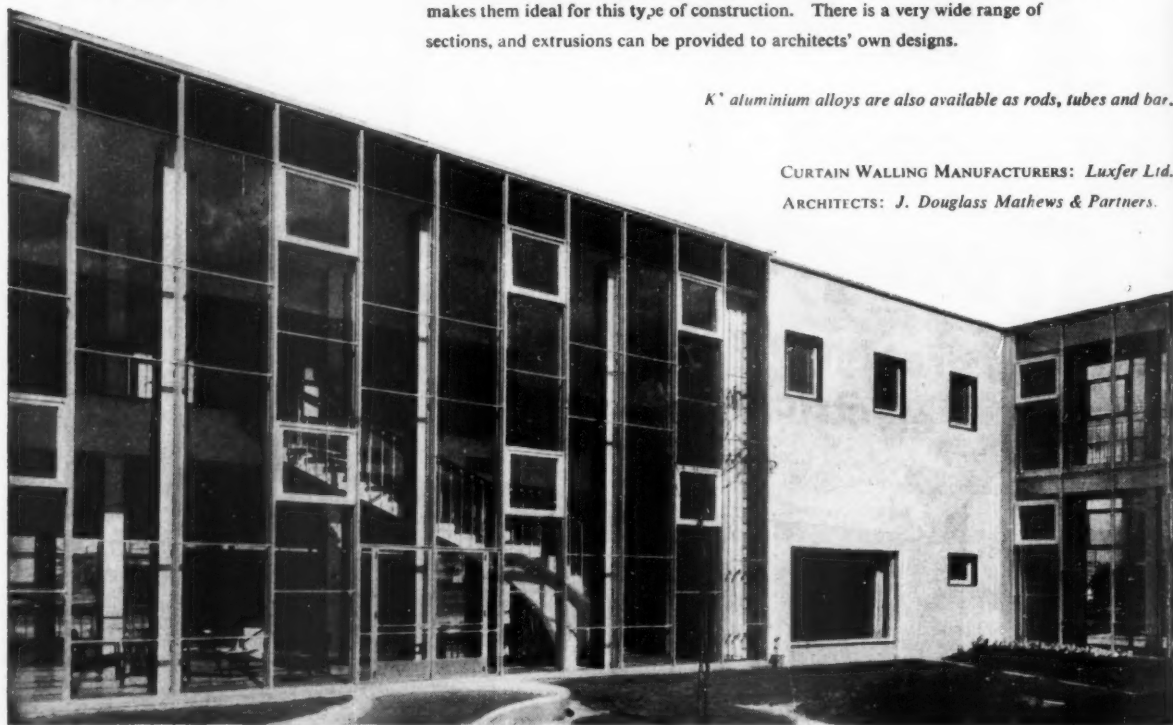
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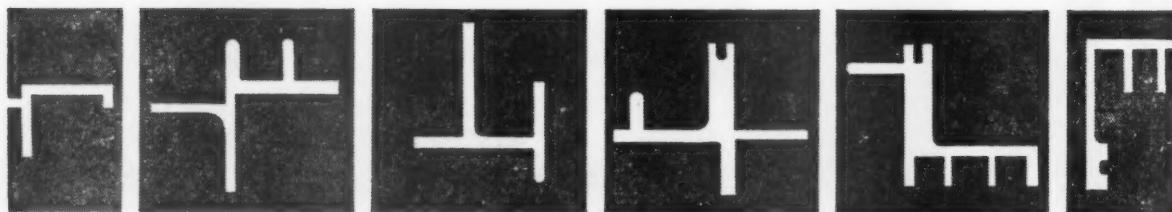
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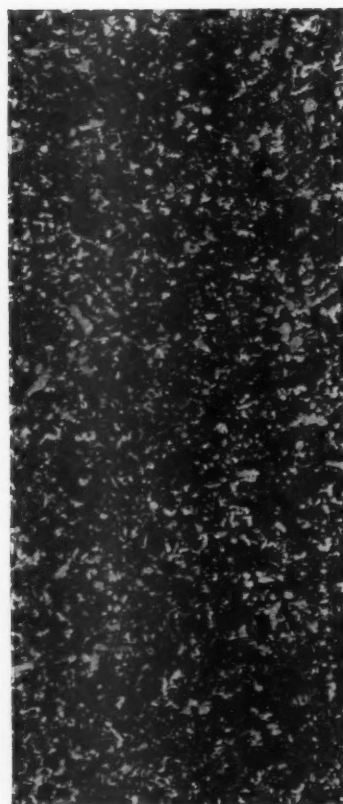
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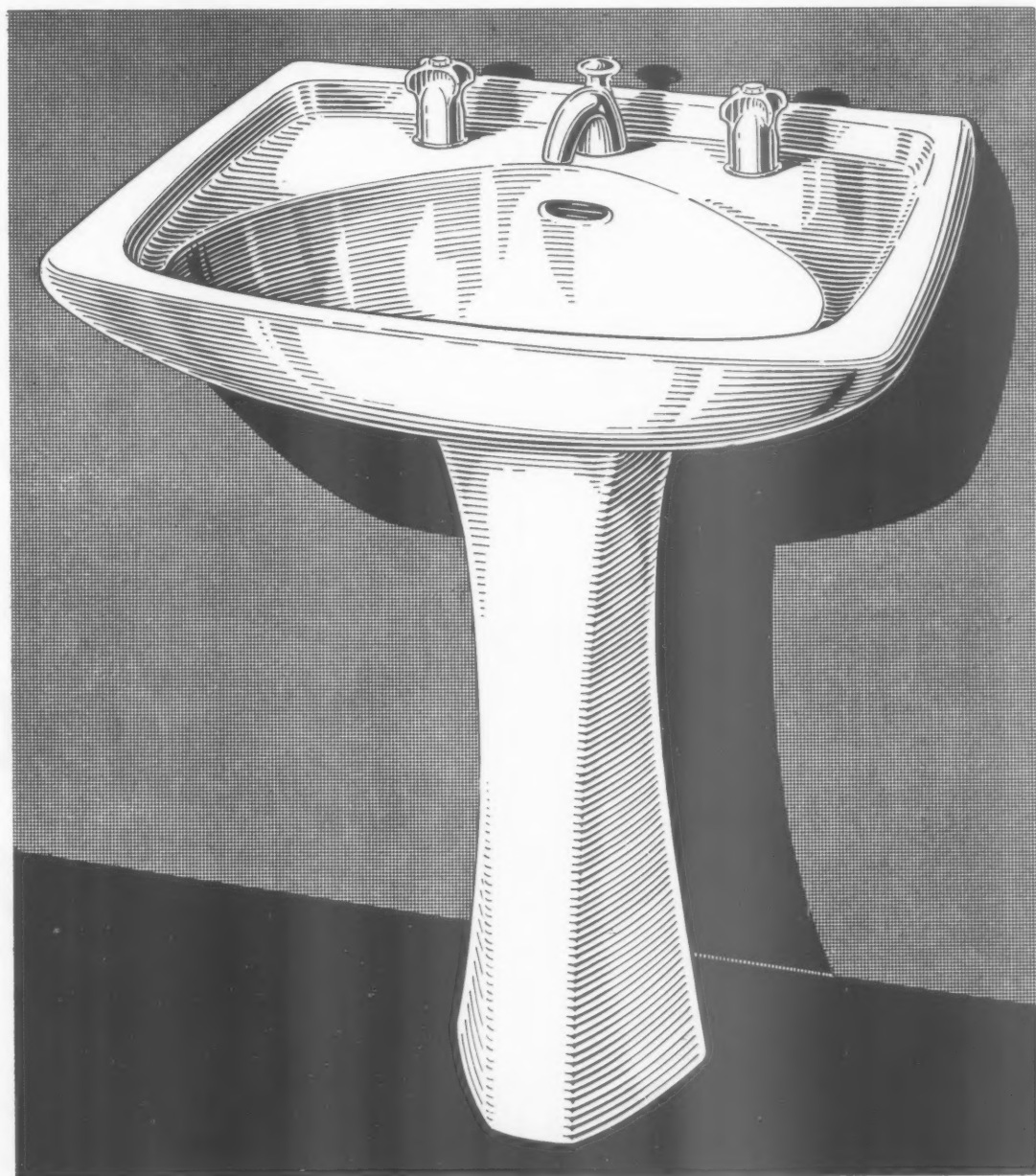


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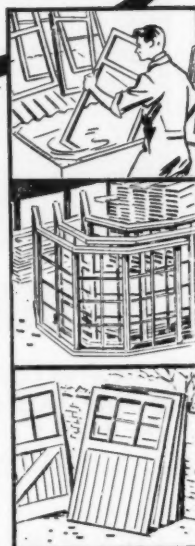


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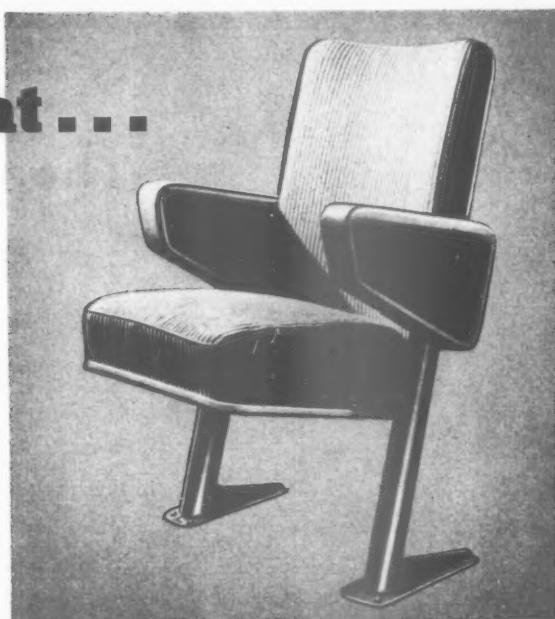


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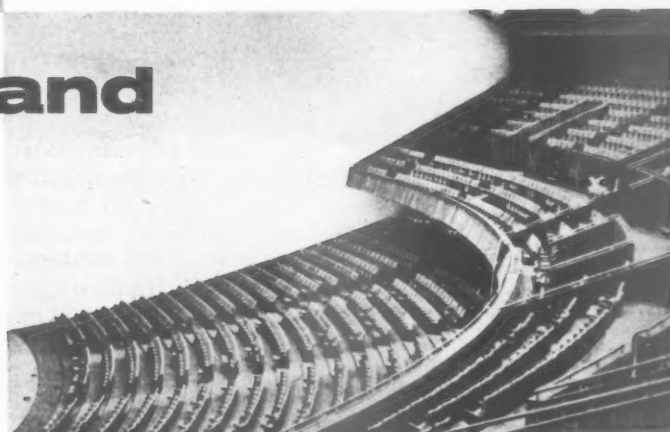
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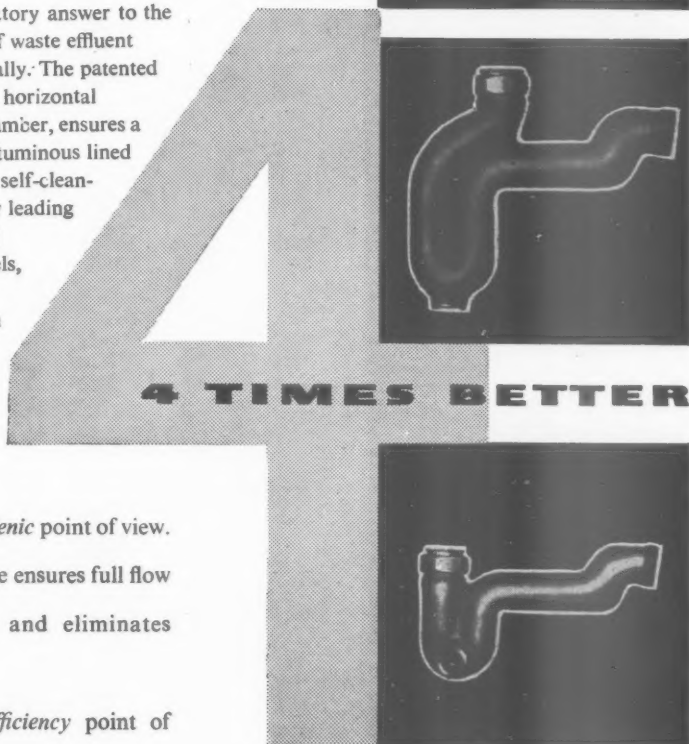
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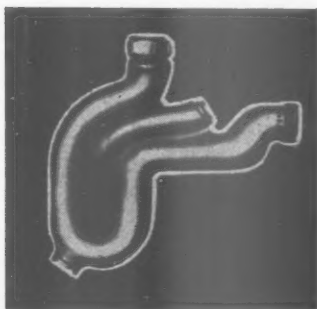
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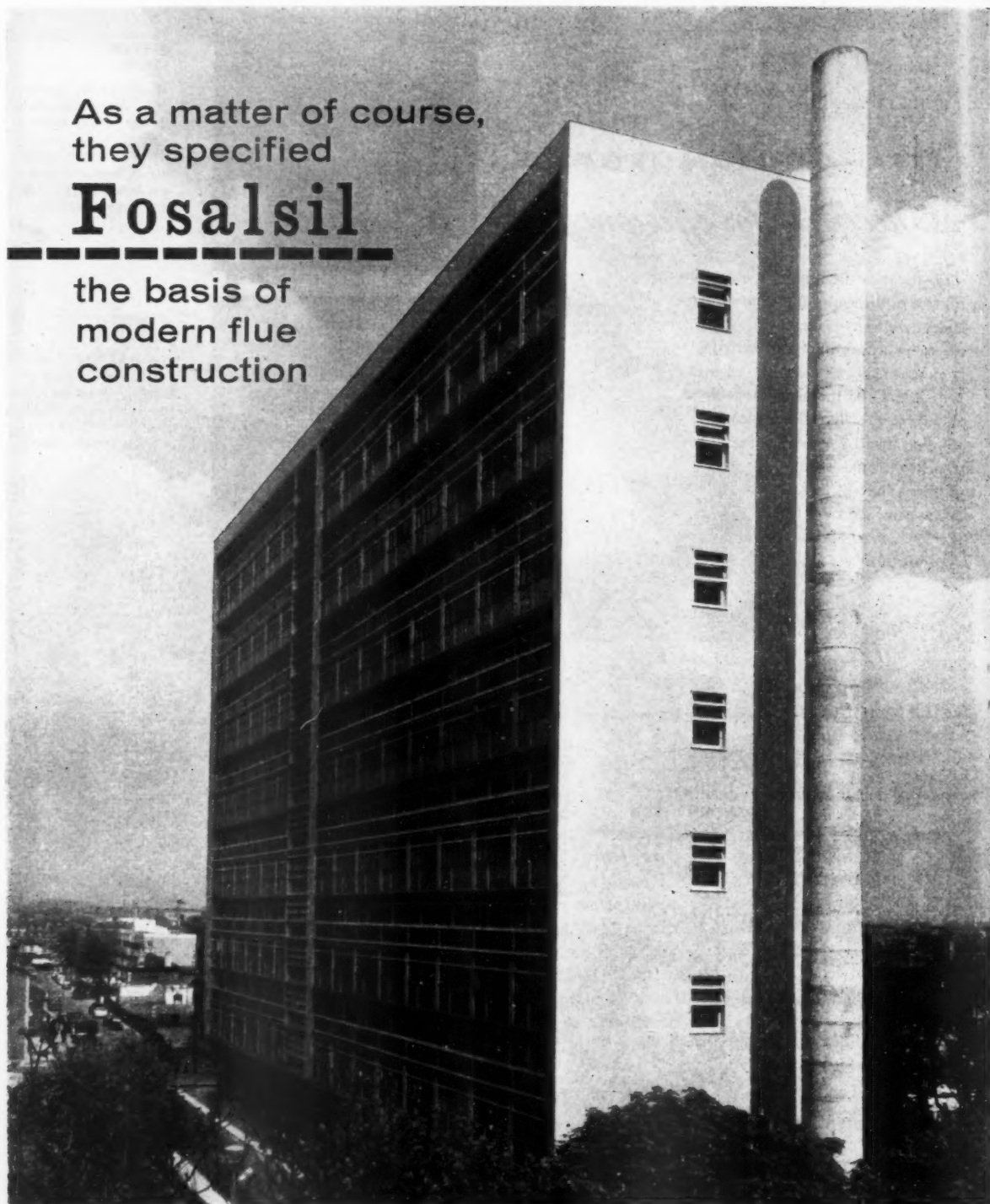
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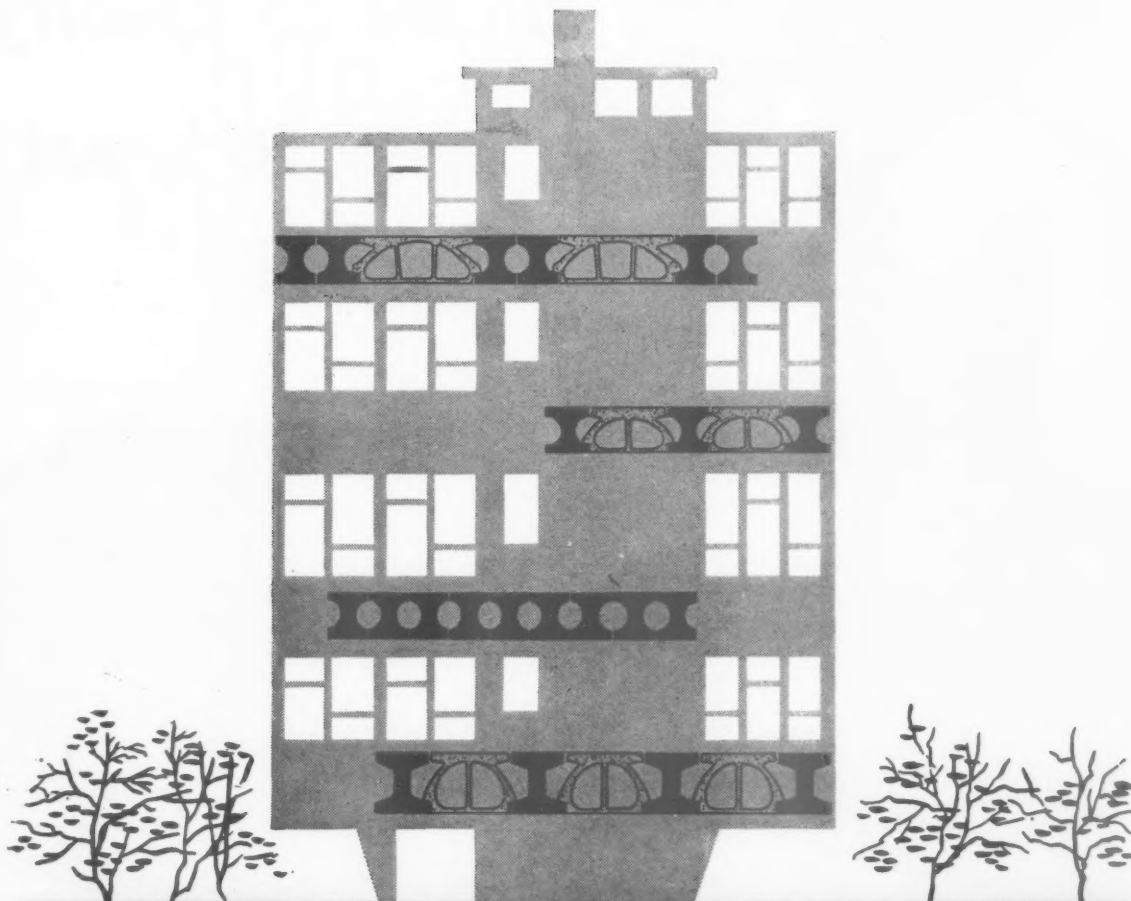
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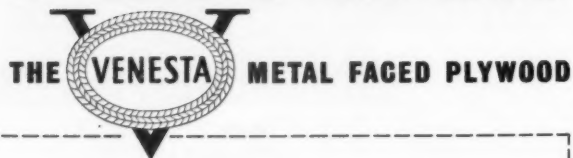
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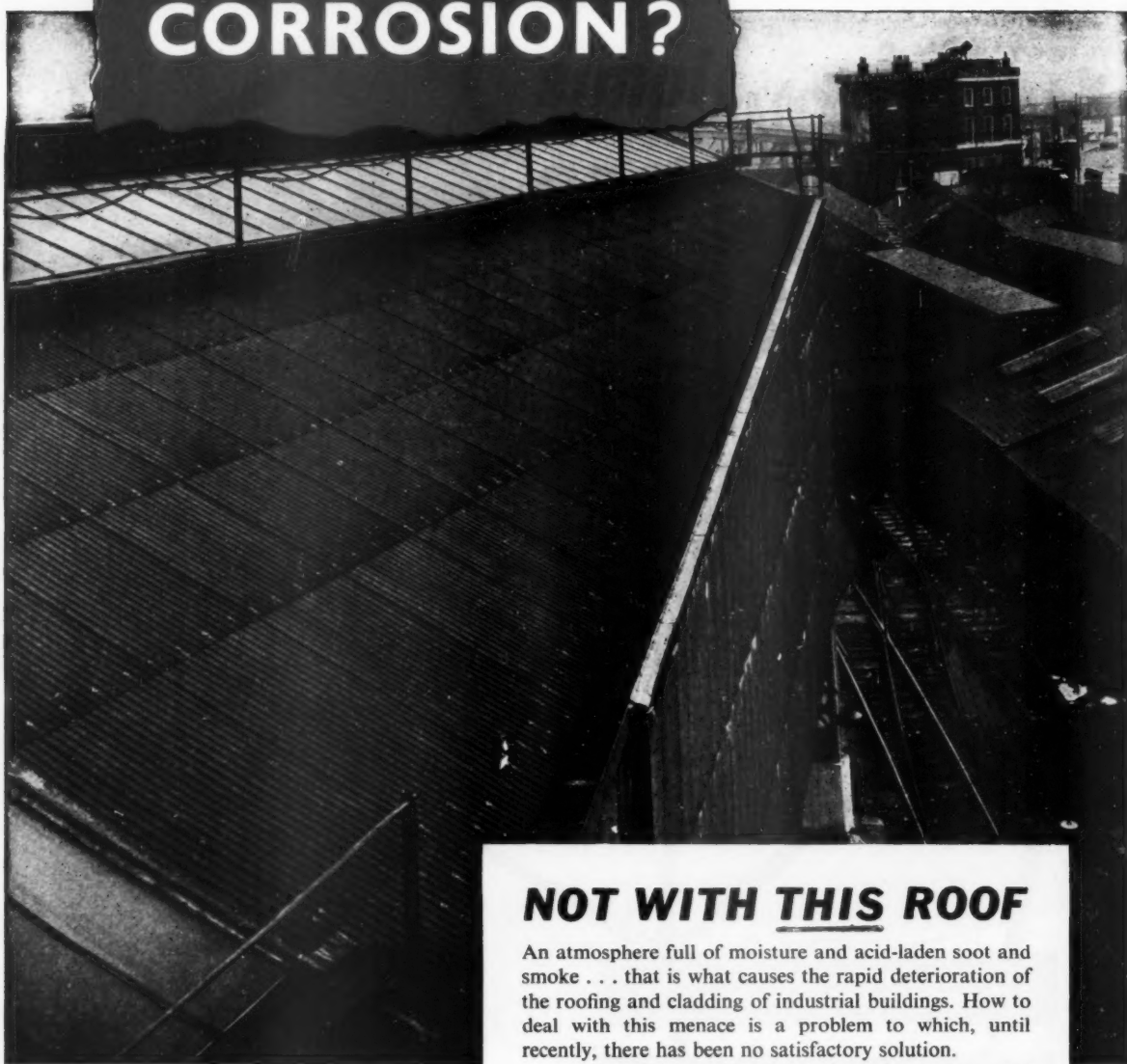
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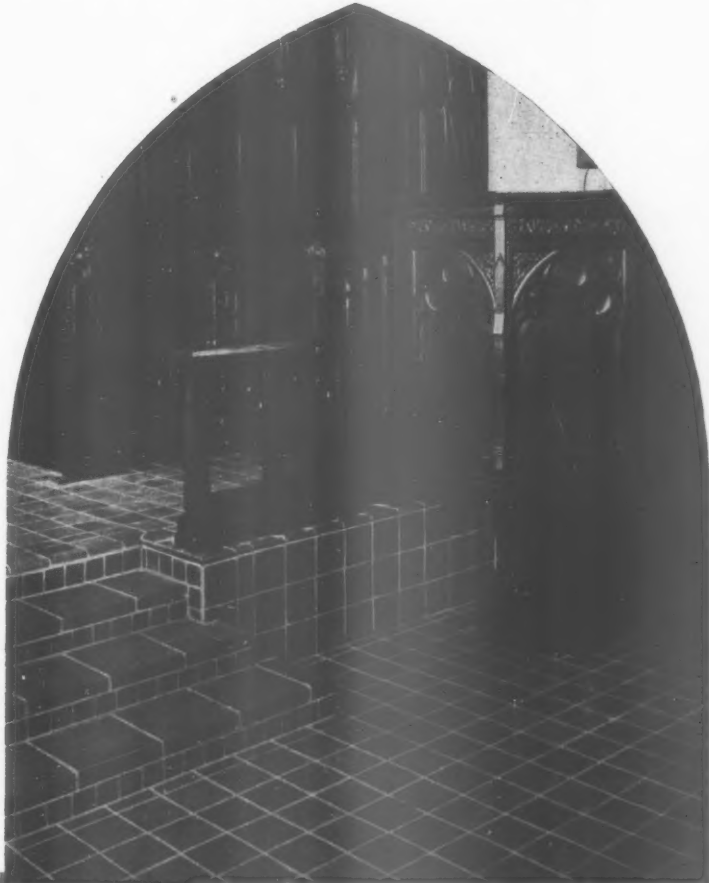
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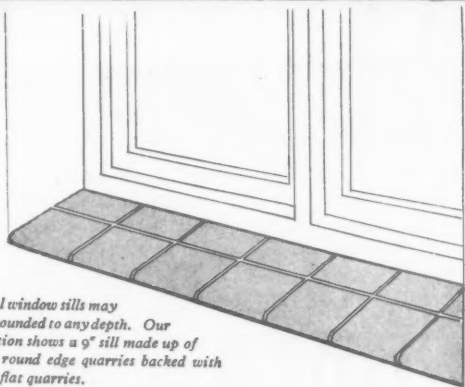
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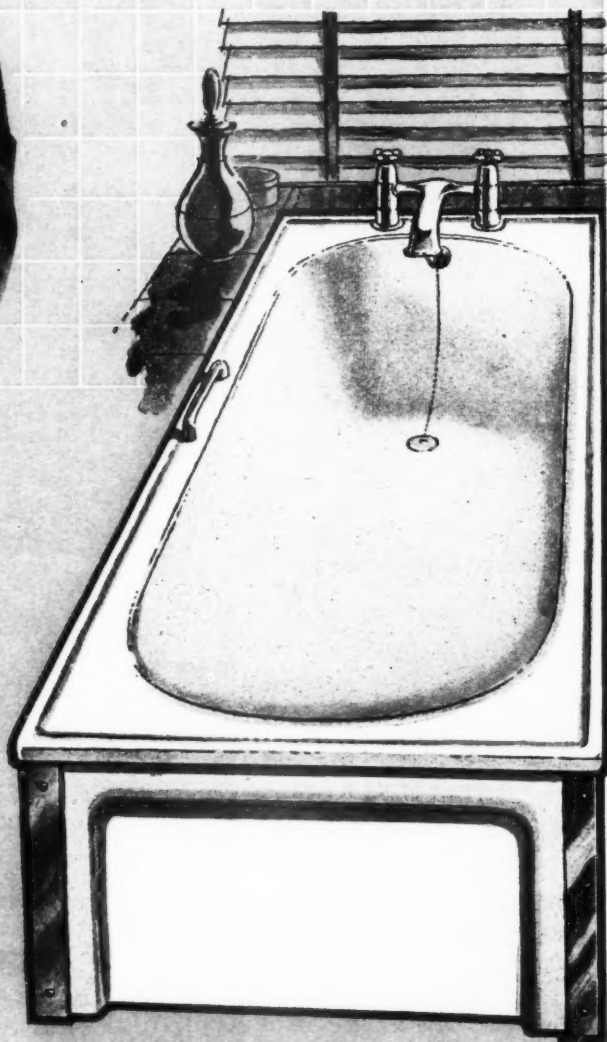
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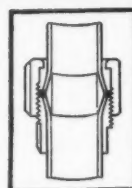
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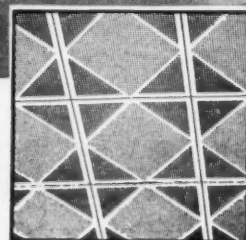
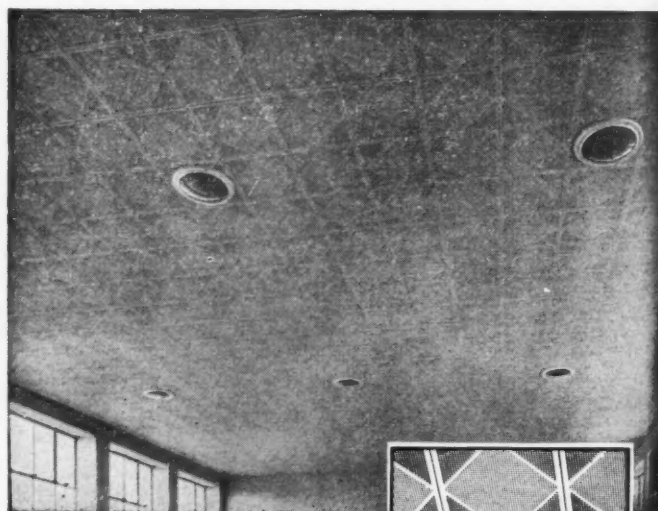
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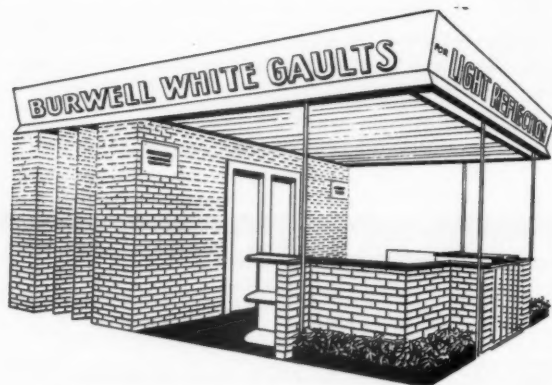


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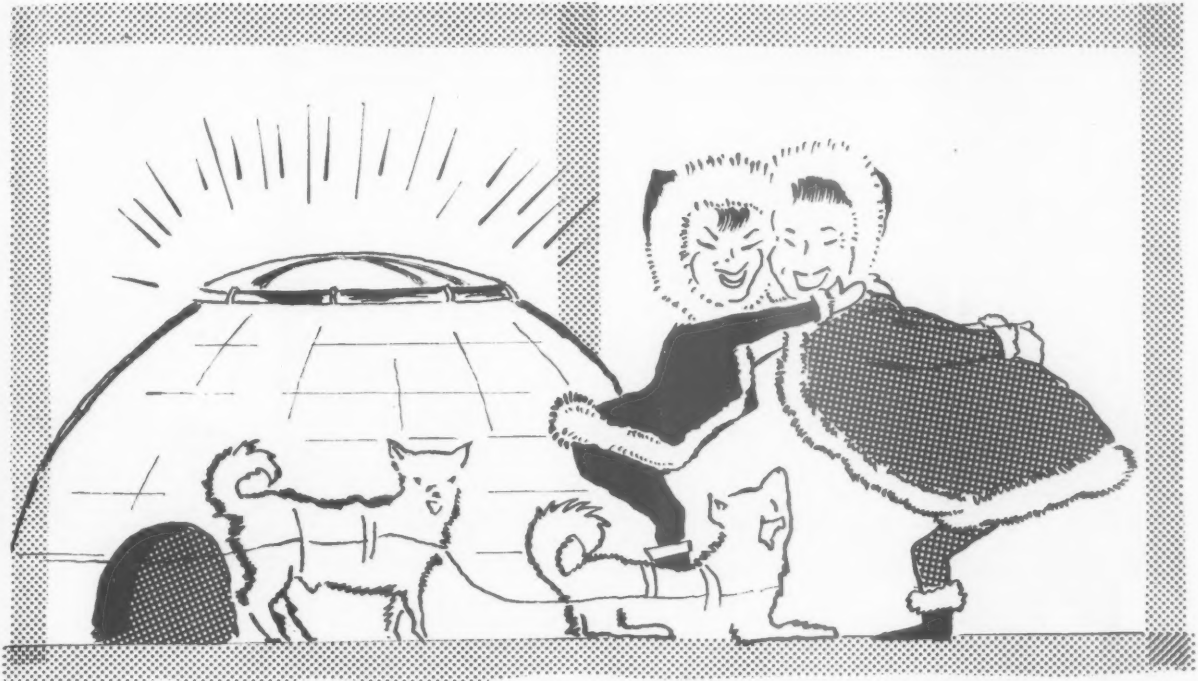


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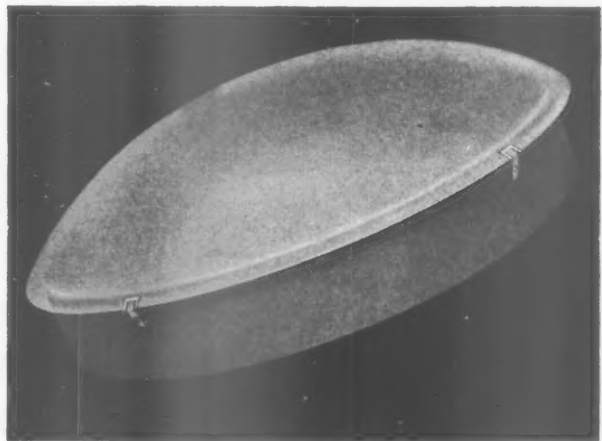




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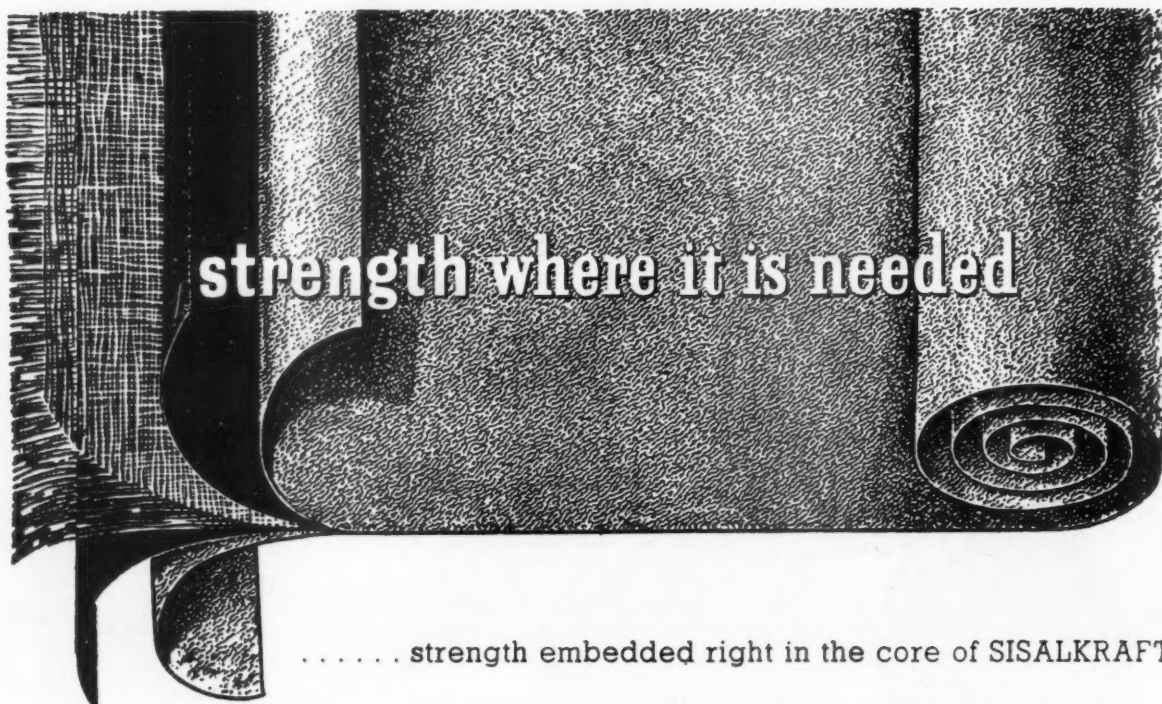
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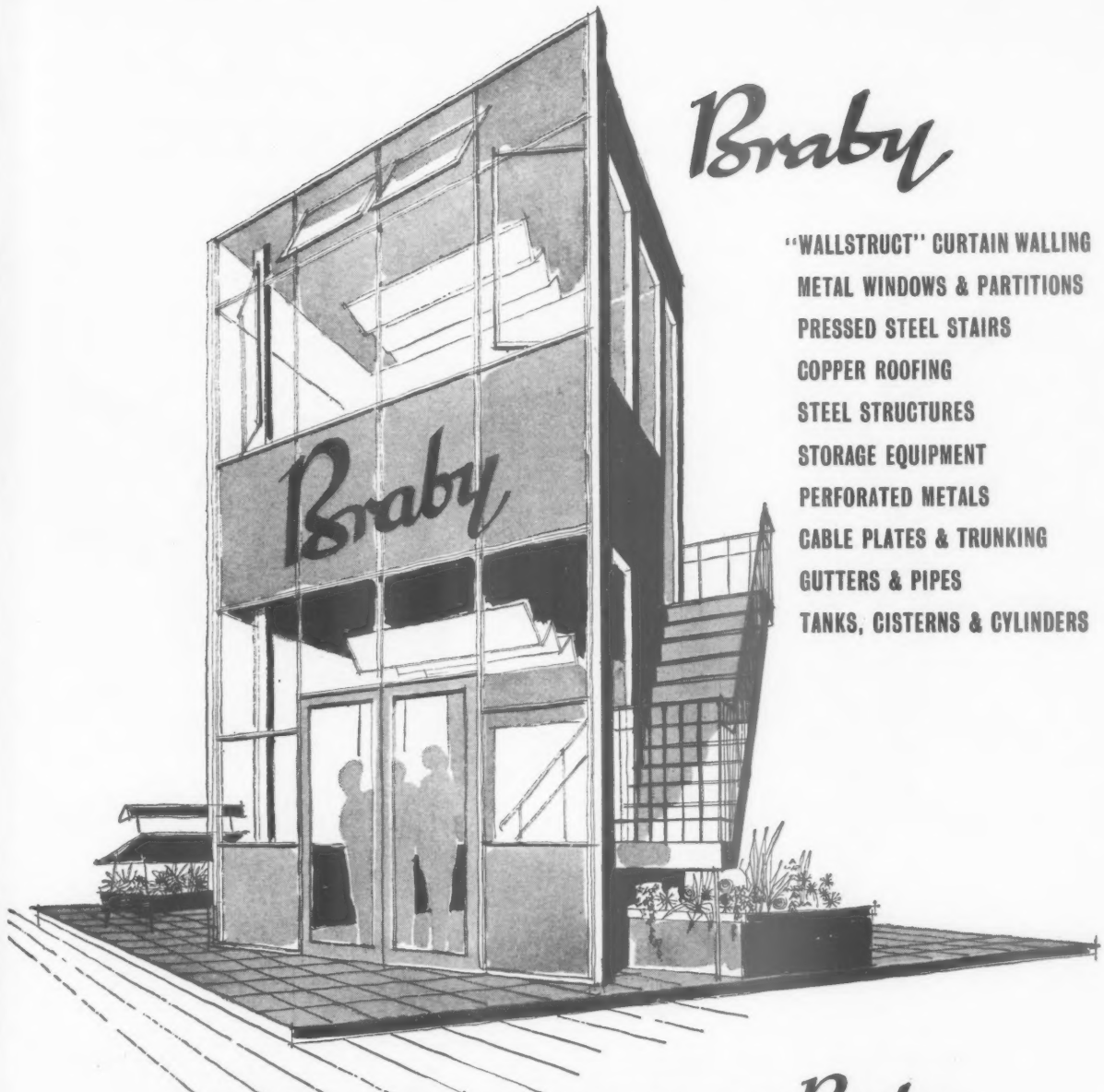
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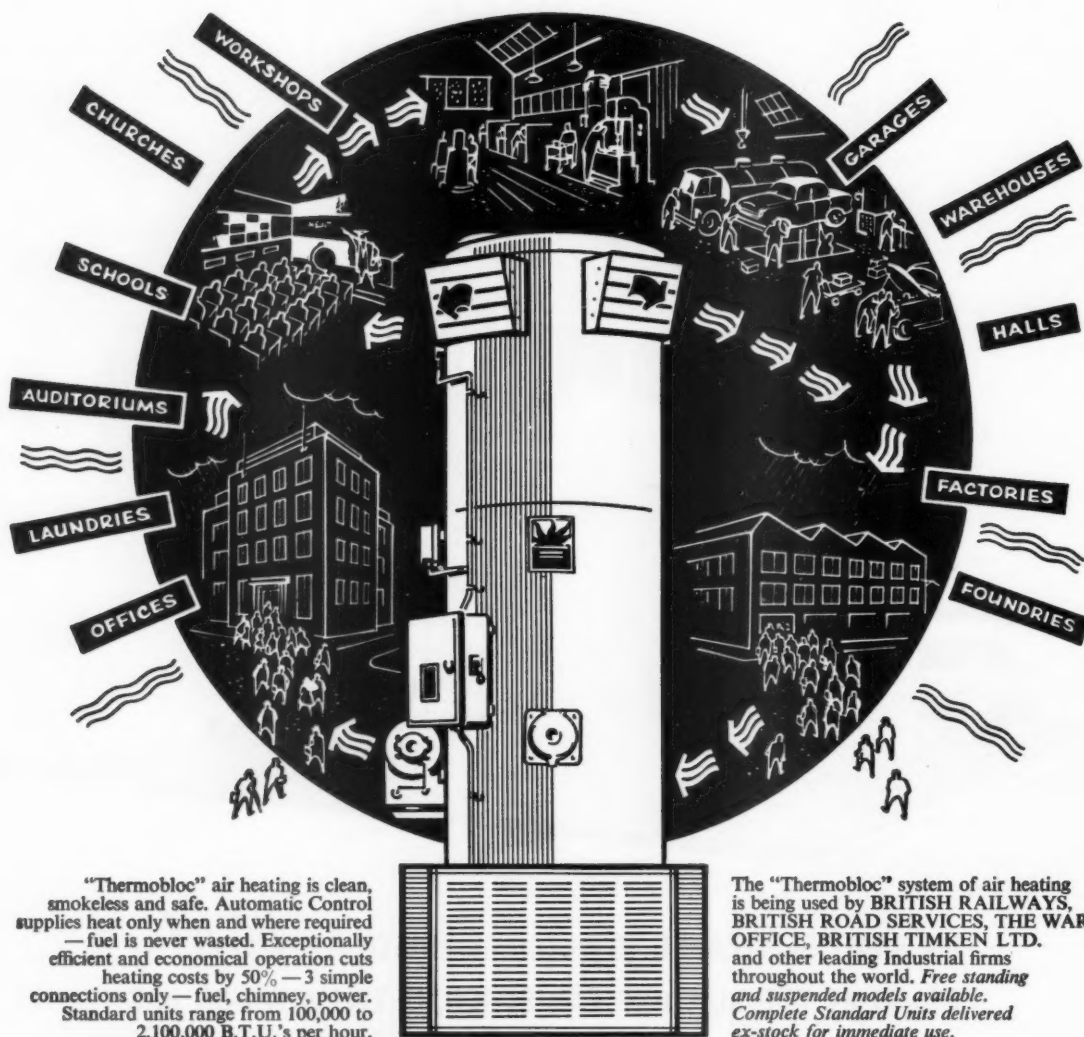
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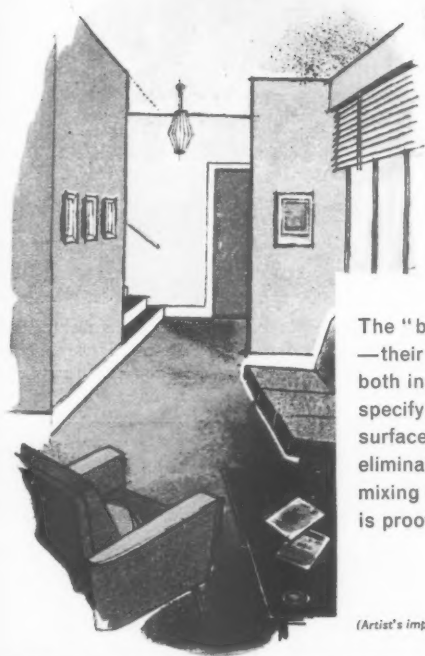
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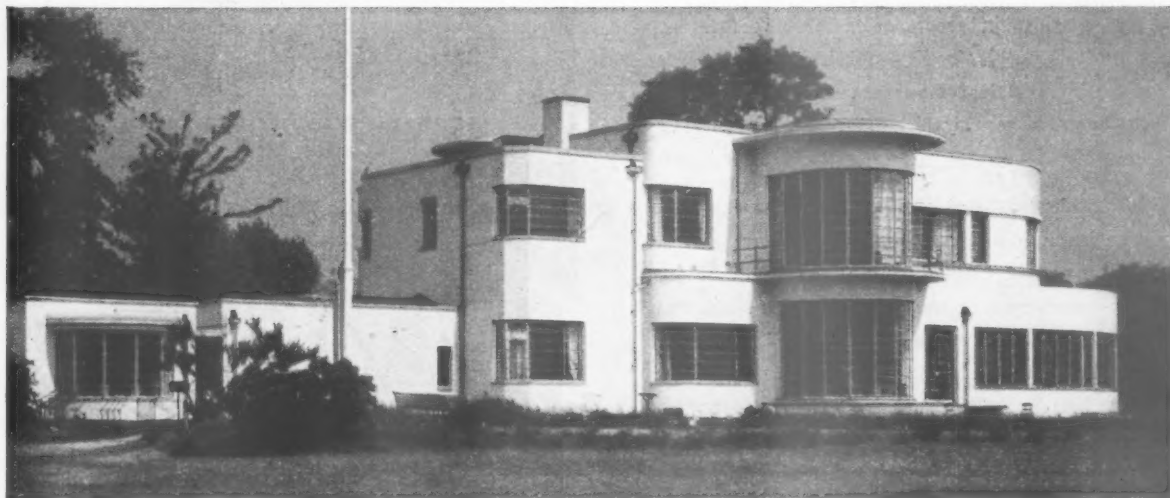
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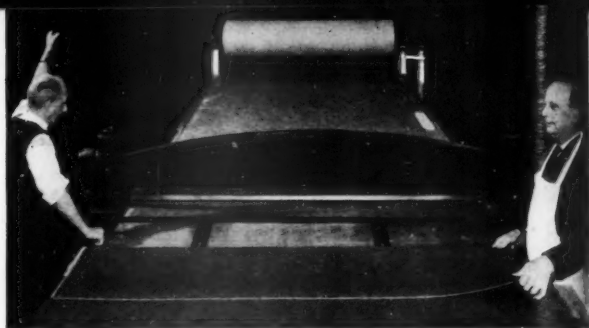
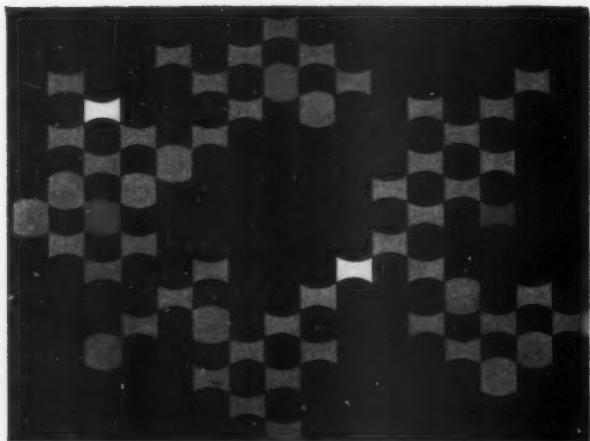


*This is the second in a series of articles designed to interest and inform architects on the techniques and scope of linoleum opportunities open to them with modern linoleum floorcoverings.*

# linoleum contractors' techniques

To an increasing extent in the last few years, flooring contractors have cut linoleum into tiles instead of laying it in the form of sheet; some of them say that they use tiles for 90% of their work. This article explains some of the reasons for the change and suggests ways in which the architect can turn this new flexibility to advantage.

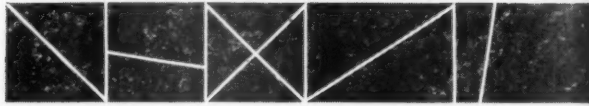
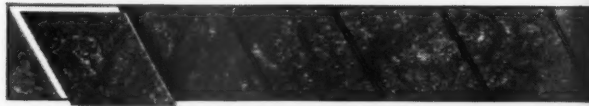
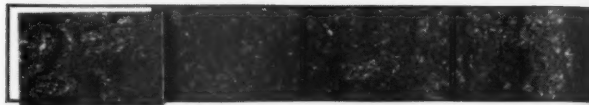
Linoleum in sheet form is still cheaper to lay when large unobstructed areas are to be covered; but when faced with complex outlines and central pillars, especially in cramped areas, flooring contractors have found that they can install tiles with very little waste of material, and at costs that are competitive with sheet linoleum. It is here that some knowledge of the contractors' techniques and working methods can help the architect to design interesting floors and still keep down costs.



Photos of guillotining and die-cutting: Courtesy E. J. Elgoed Ltd.



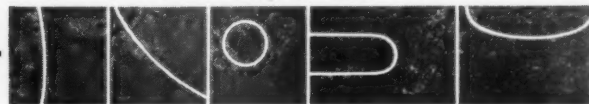
**Cutting tiles** The contractor uses a guillotine to cut 'slabs' of linoleum across the roll, wide enough to allow a small margin for trimming the tile later. The tiles themselves can be hand-cut by knife—a slow and expensive process—guillotined, or die-cut.



**Guillotining** Hand-operated or power-driven guillotines can cut squares, oblongs and triangles almost equally economically.



**Die-cutting** Some contractors have semi-automatic machines that cut tiles up to 18" square in one movement. These machines also accept special dies to cut other shapes—such as those below—simultaneously with the rectangular tile. (Both parts of the tile should be used in the design to minimise waste.) The design of such shapes should avoid running the shaped cutter into the corner of the tile, where it would create strong side pressures during cutting.



Strip cutti  
1/2-inch to  
use as bo  
larities of  
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**Strip cutting** Lacing strips and border strips, in widths ranging from  $\frac{1}{2}$ -inch to 18 inches, are used to form decorative effects or borders. (For use as borders, they are cut slightly wide to allow for fitting to irregularities of the wall line.) The cutting machine slices almost through the thickness of the linoleum to make the strips, which are then finally separated as required by the layer on site.

**Economical tile sizes** Since linoleum is delivered in rolls 72 inches wide, contractors find the following sizes the most economical to cut:

NOMINAL: \* 9 inches, 12 inches, 18 inches, 24 inches, 36 inches.

\* Actual sizes are approximately  $\frac{1}{8}$ -inch less than the nominal sizes of all purpose-cut tiles.



#### THE USES OF SHEET LINOLEUM

This article does not, of course, set out to show that tiles have entirely replaced the traditional way of laying linoleum in sheet form—even where the architect wants to introduce designs in his floor. Below are three ways of using sheet linoleum in individual situations:—

**Hand-cut designs** Linoleum is easier than most floor coverings to cut into individual designs, and cutting by hand offers the designer the greatest possible freedom of treatment in producing a spectacular floor like the one shown below. At such a focal point—it was, in fact, John Piper's 'Baroque Room' in *The Observer's* Film Festival—the extra cost would be amply justified.

*Courtesy Design magazine*



THE SYMBOL DESIGNED BY RAYMOND LOEWY  
Courtesy International Harvester Company  
of Great Britain Limited

**Hand-cut motifs** Most contractors employ craftsmen who will enjoy reproducing in linoleum a motif like this one, being laid in the entrance hall of International Harvester's offices in City Road, London.

**Repeated motifs hand-cut by template** For special purposes, the contractor can make a hardboard or metal template to cut out several motifs—and the corresponding spaces for them in the background colour.

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A full-colour book illustrating new directions in floor design will soon be available to all interested architects. If you would like to receive a free copy immediately upon publication, please write to: Michael Nairn & Company Limited, P.O. Box 1, Kirkcaldy, Scotland.

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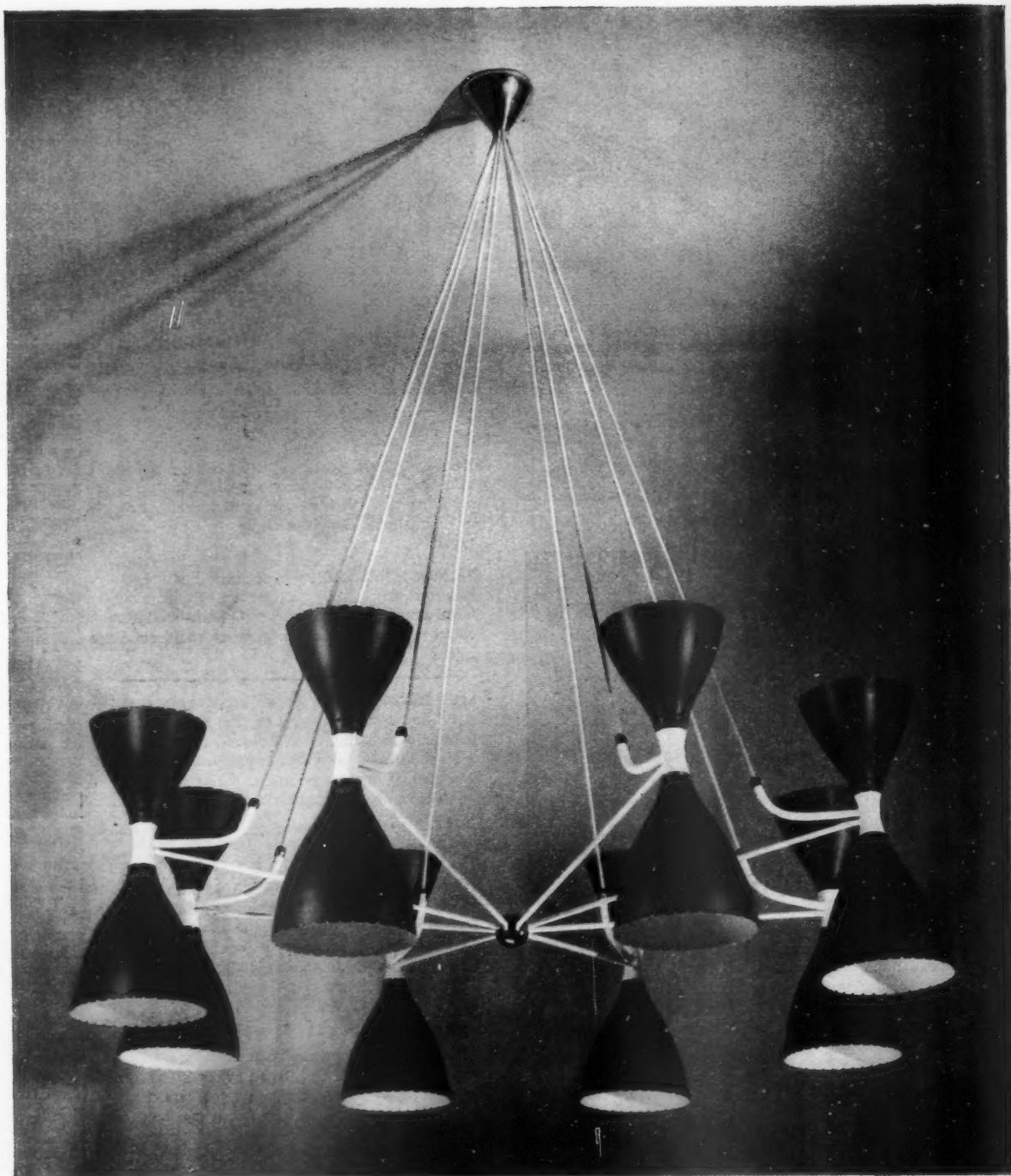
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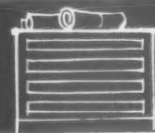
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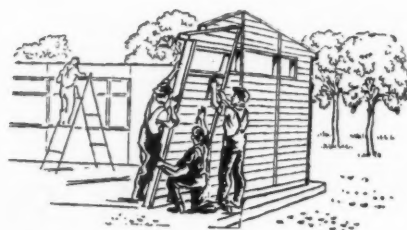
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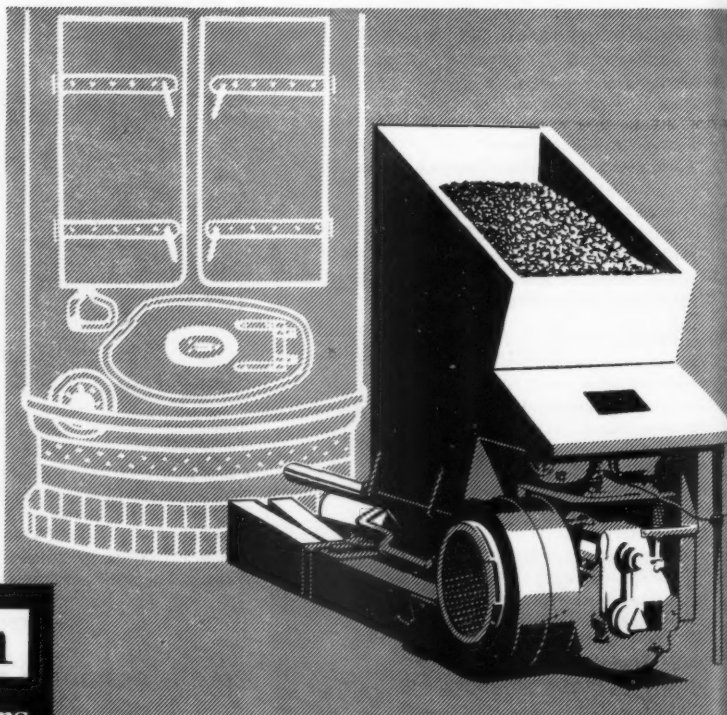
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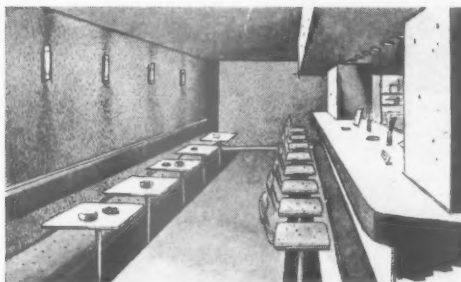
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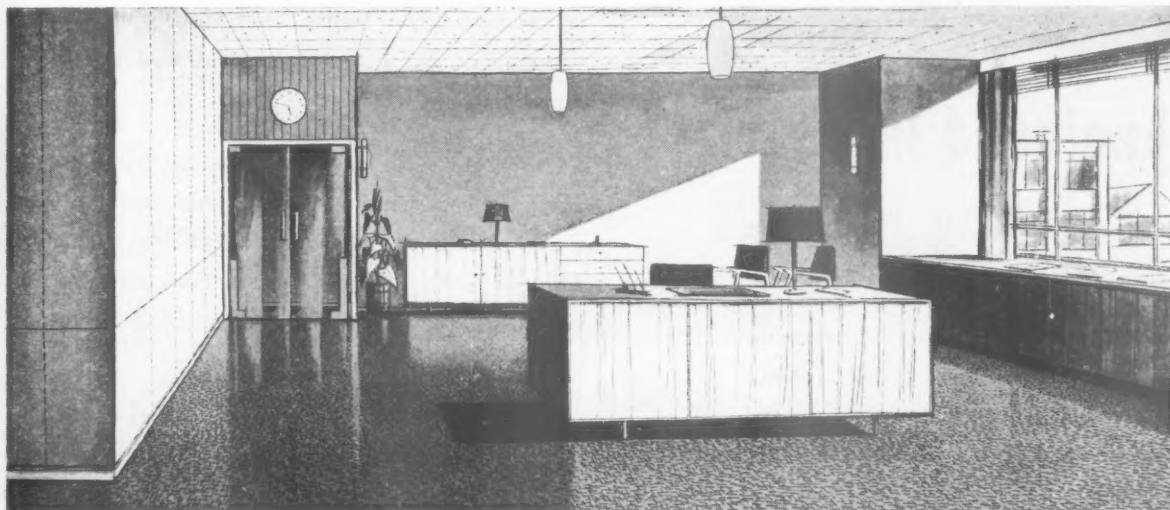
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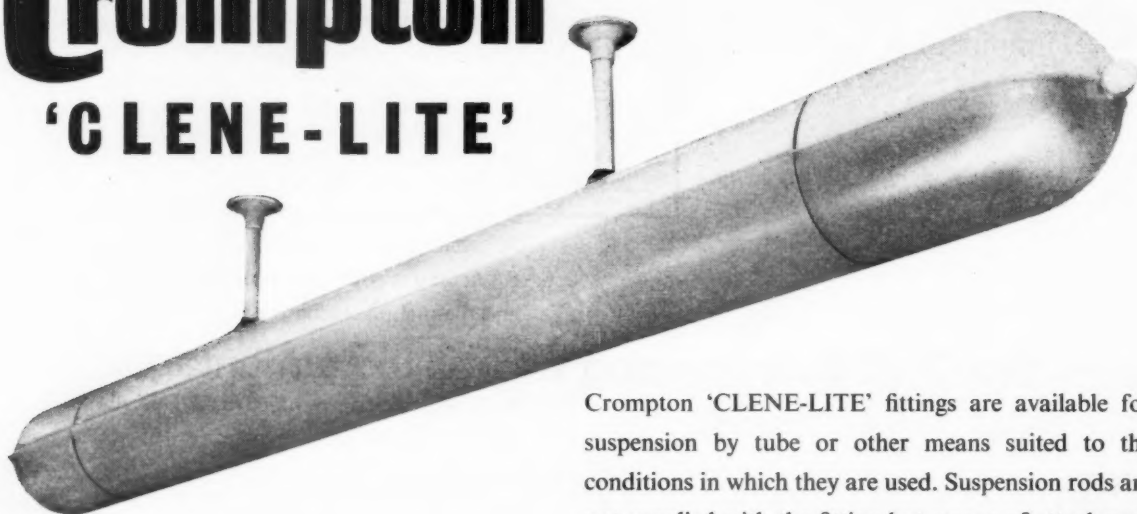


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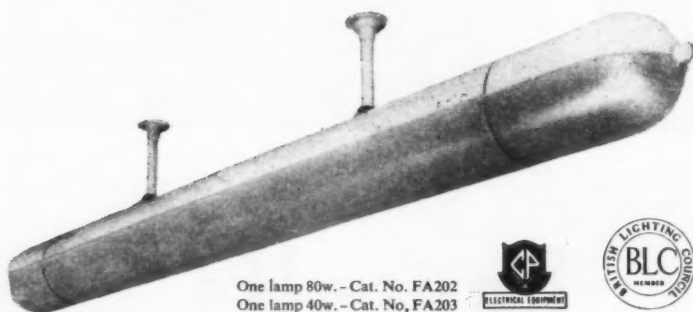
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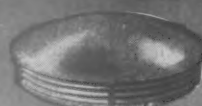
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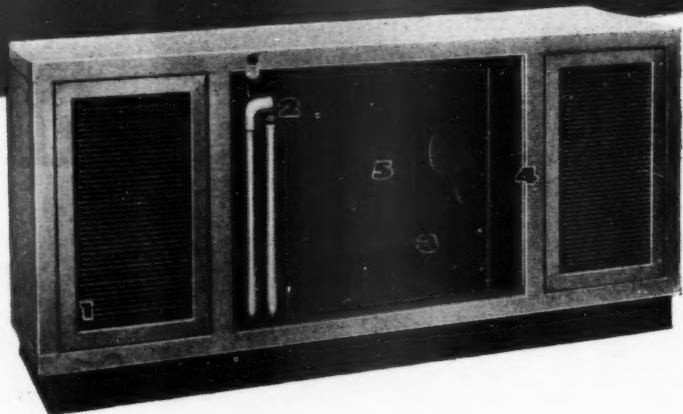
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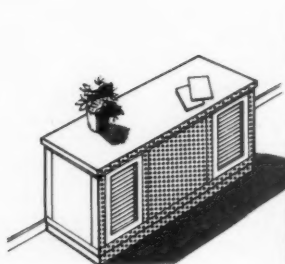
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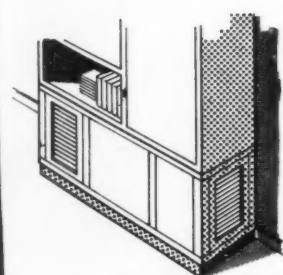


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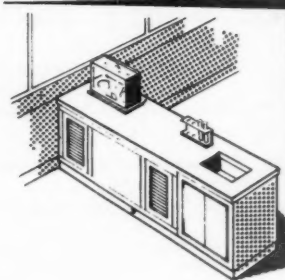
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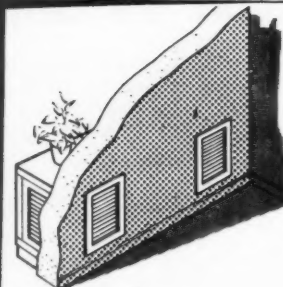
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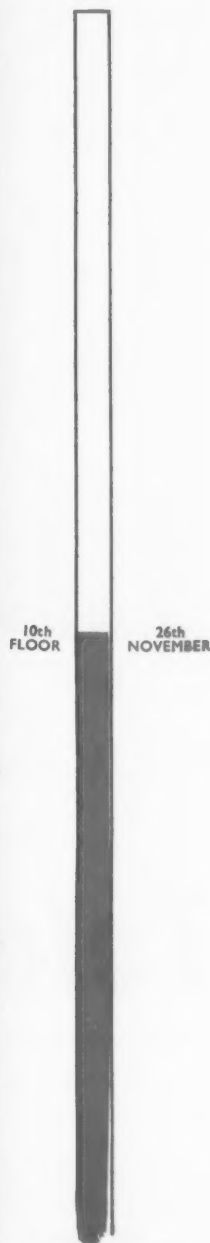
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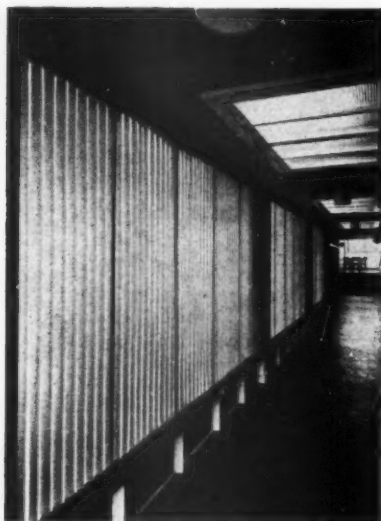
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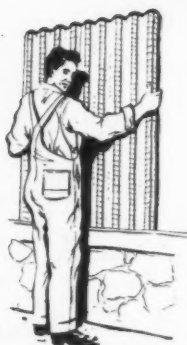
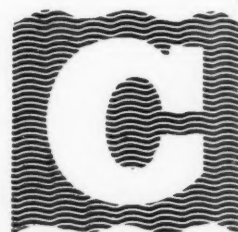
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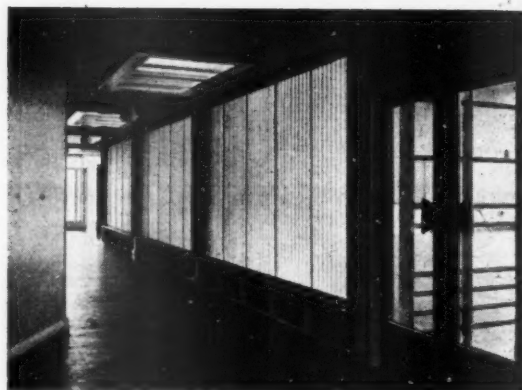


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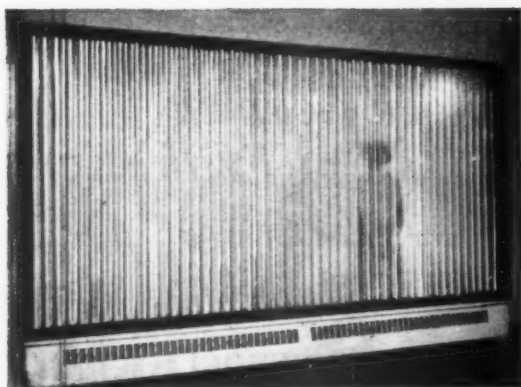


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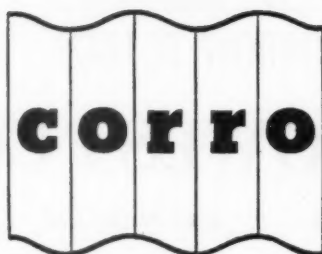
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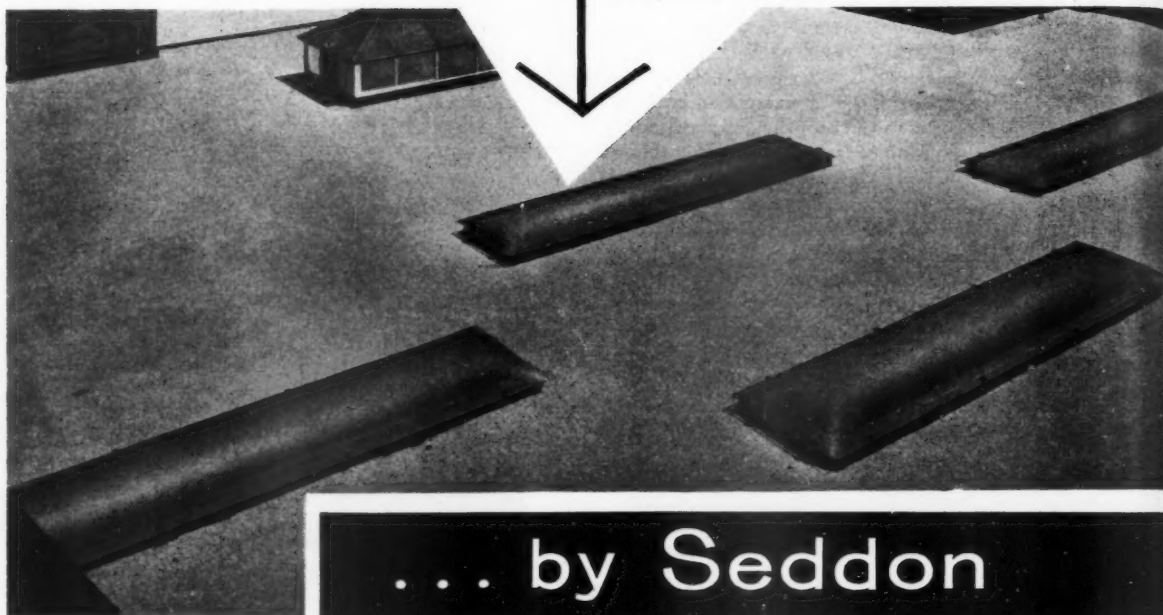
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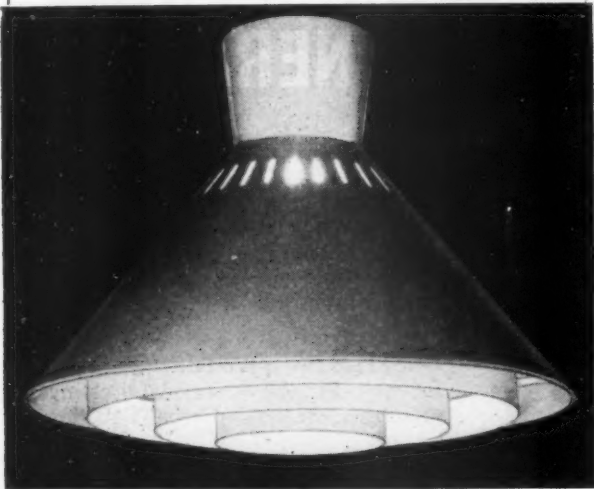
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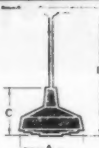
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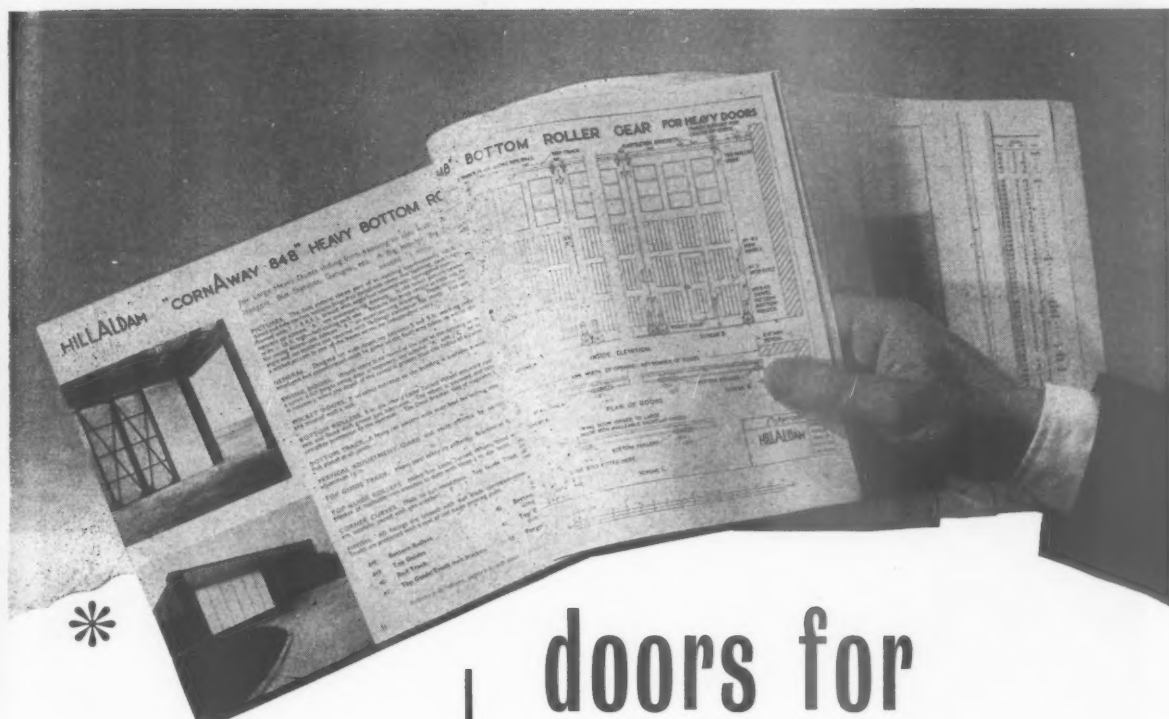


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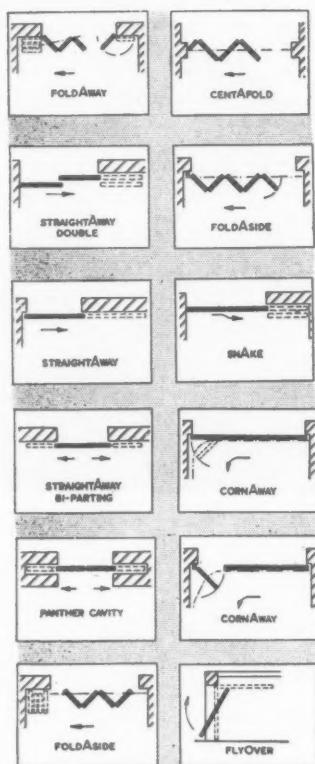
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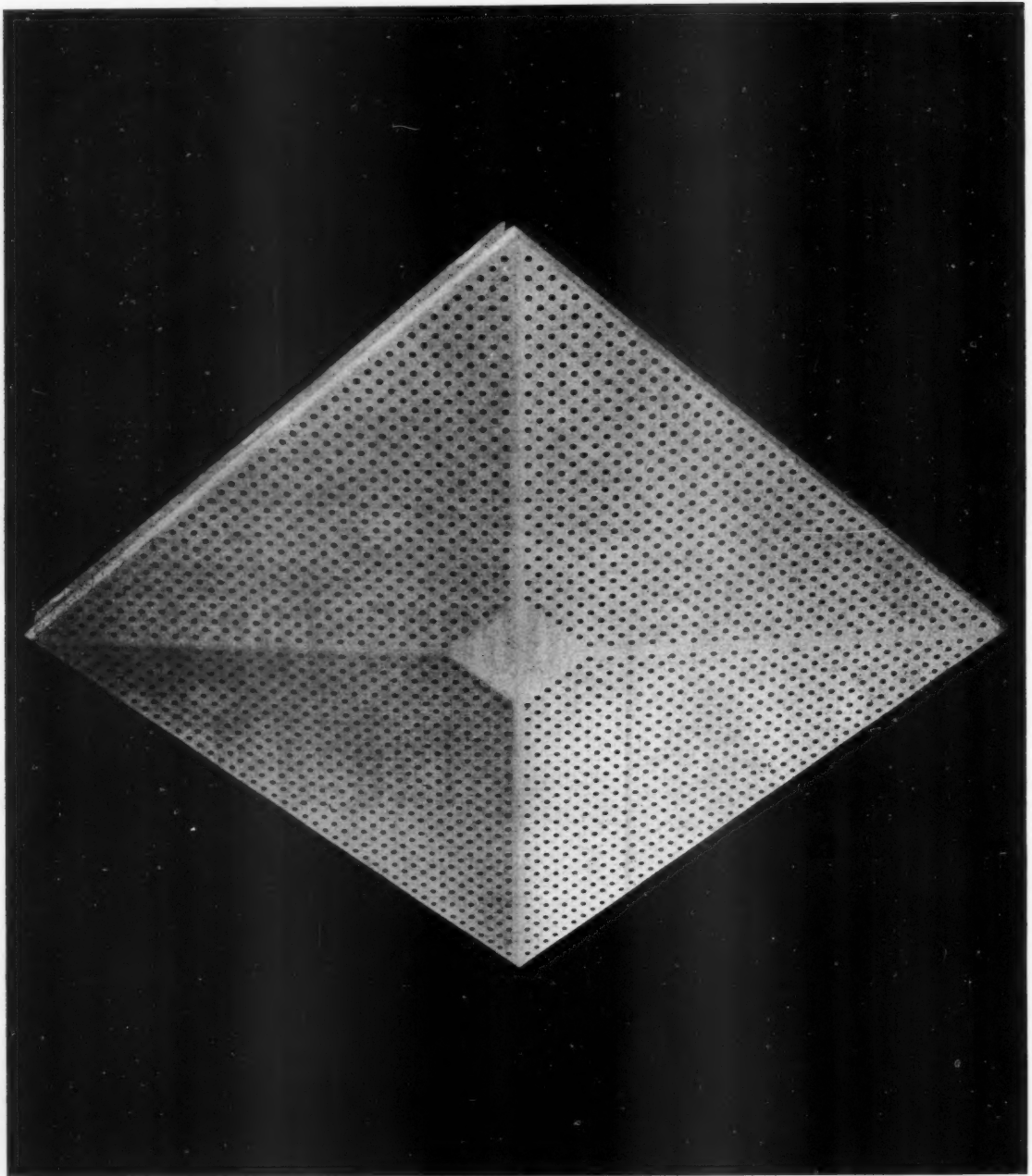
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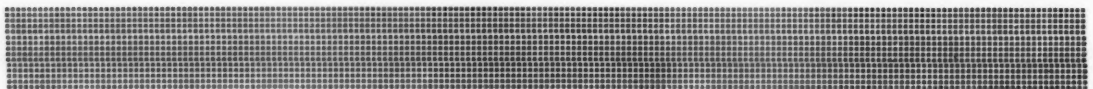
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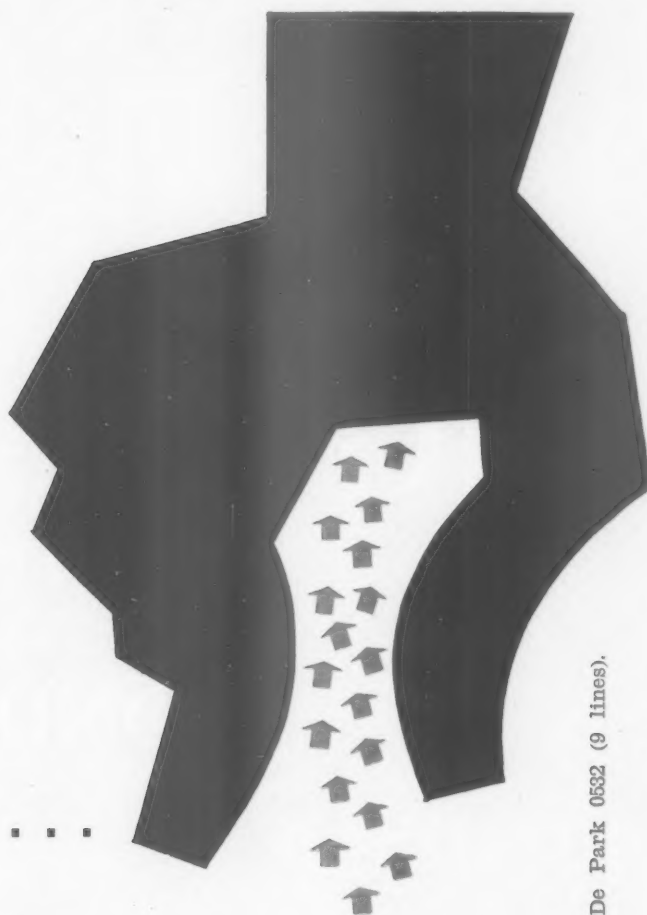
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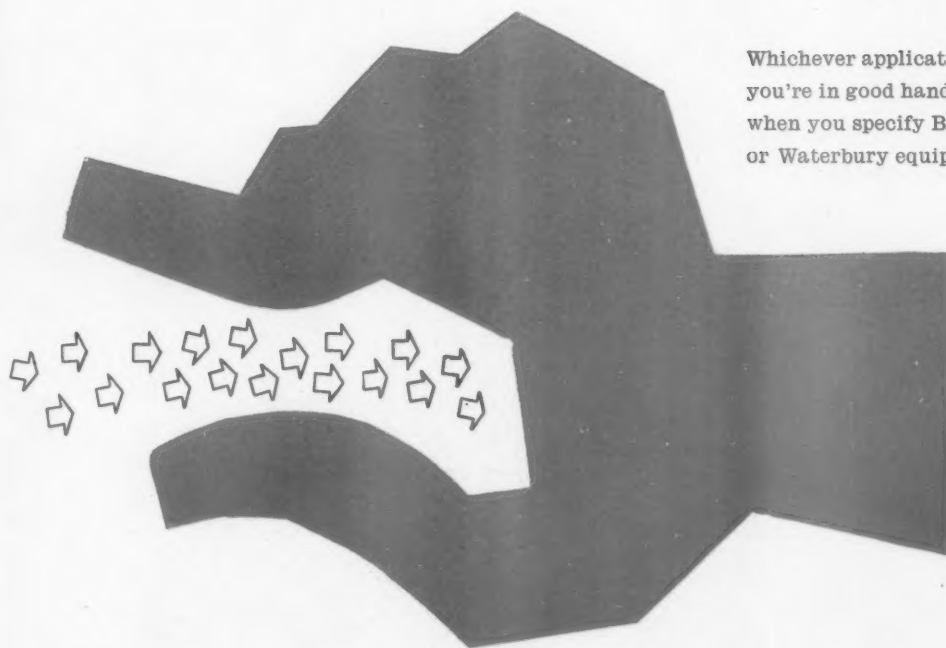
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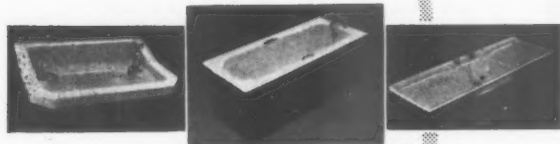
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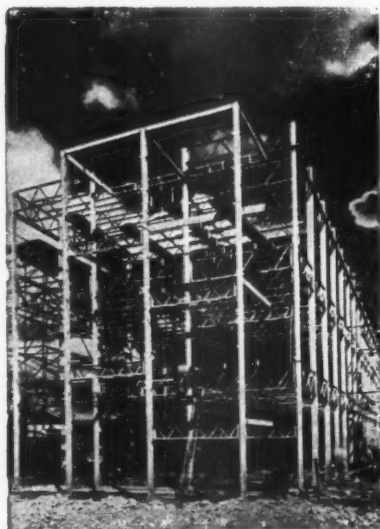


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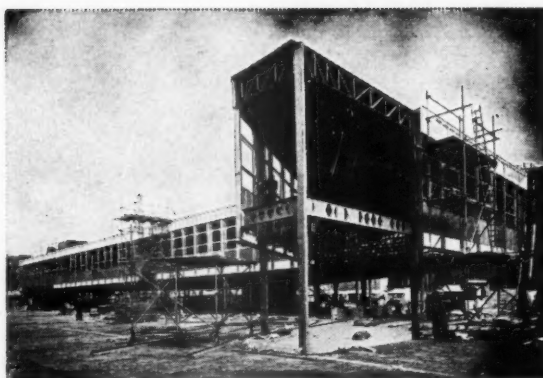
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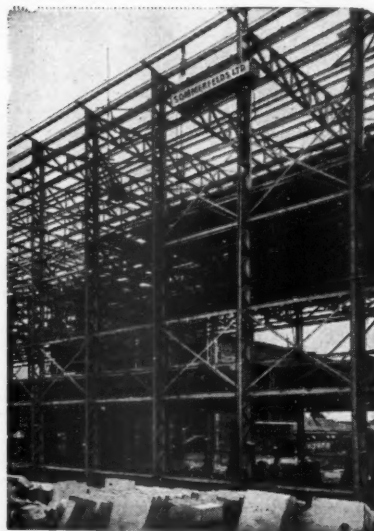
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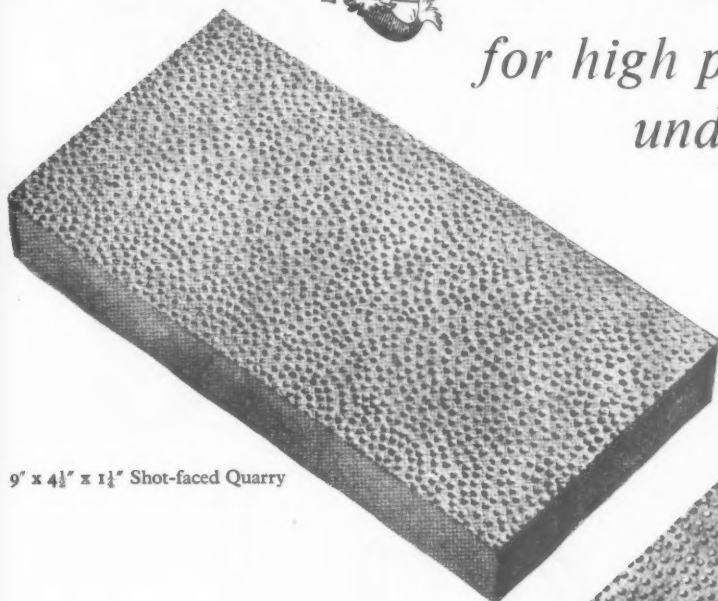
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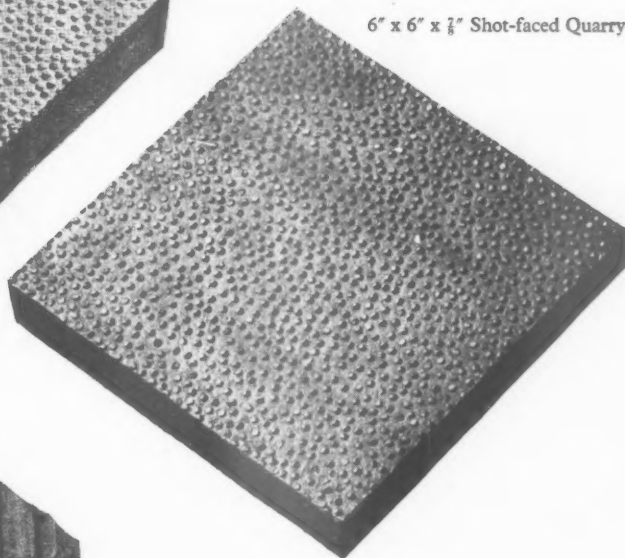


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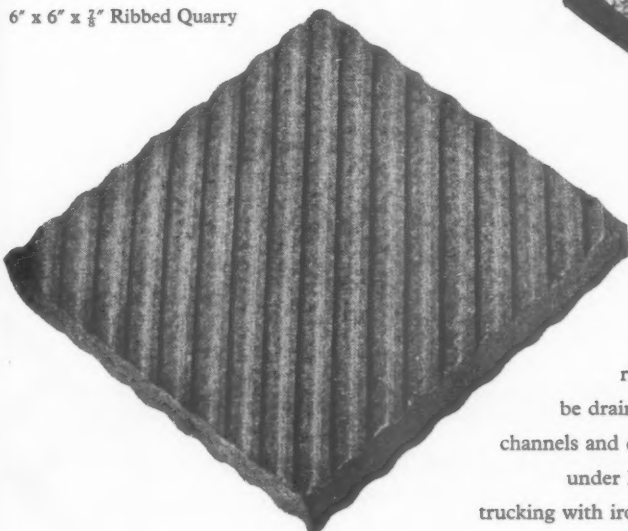
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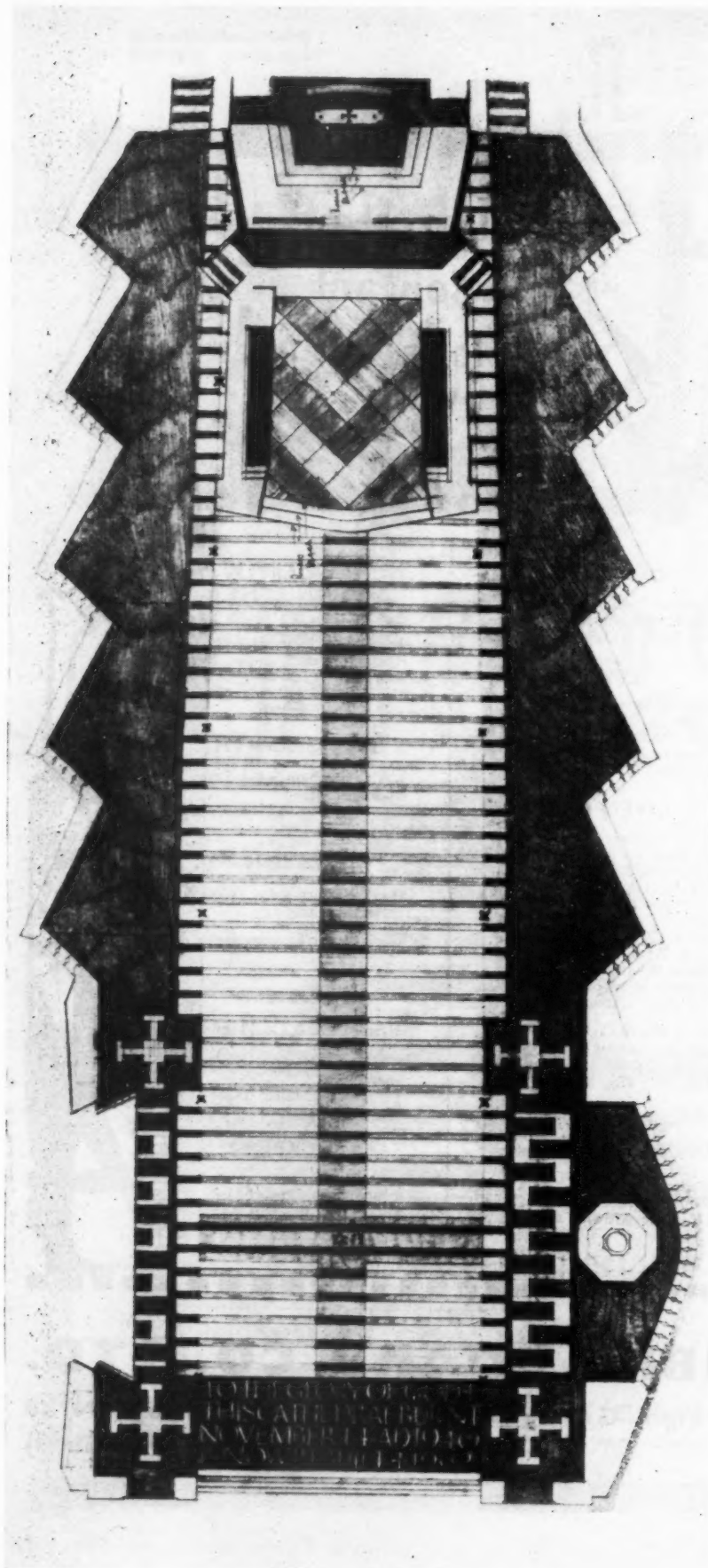
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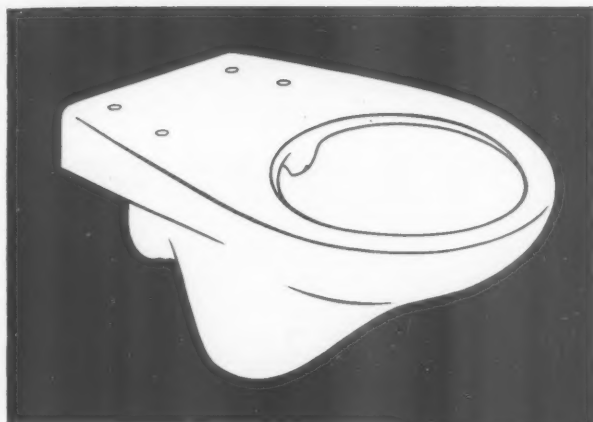
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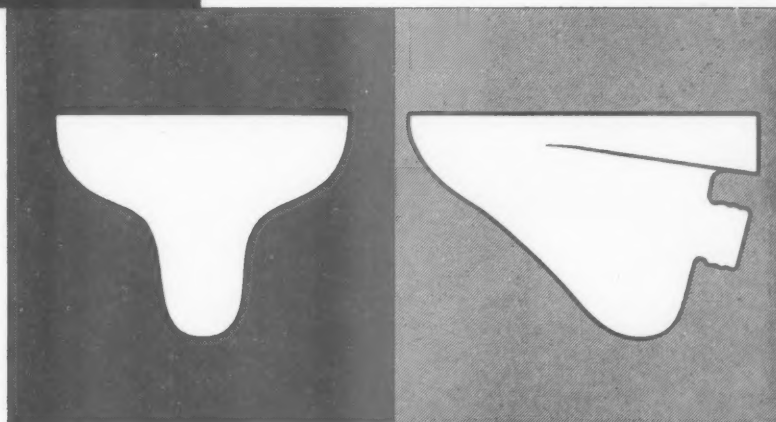
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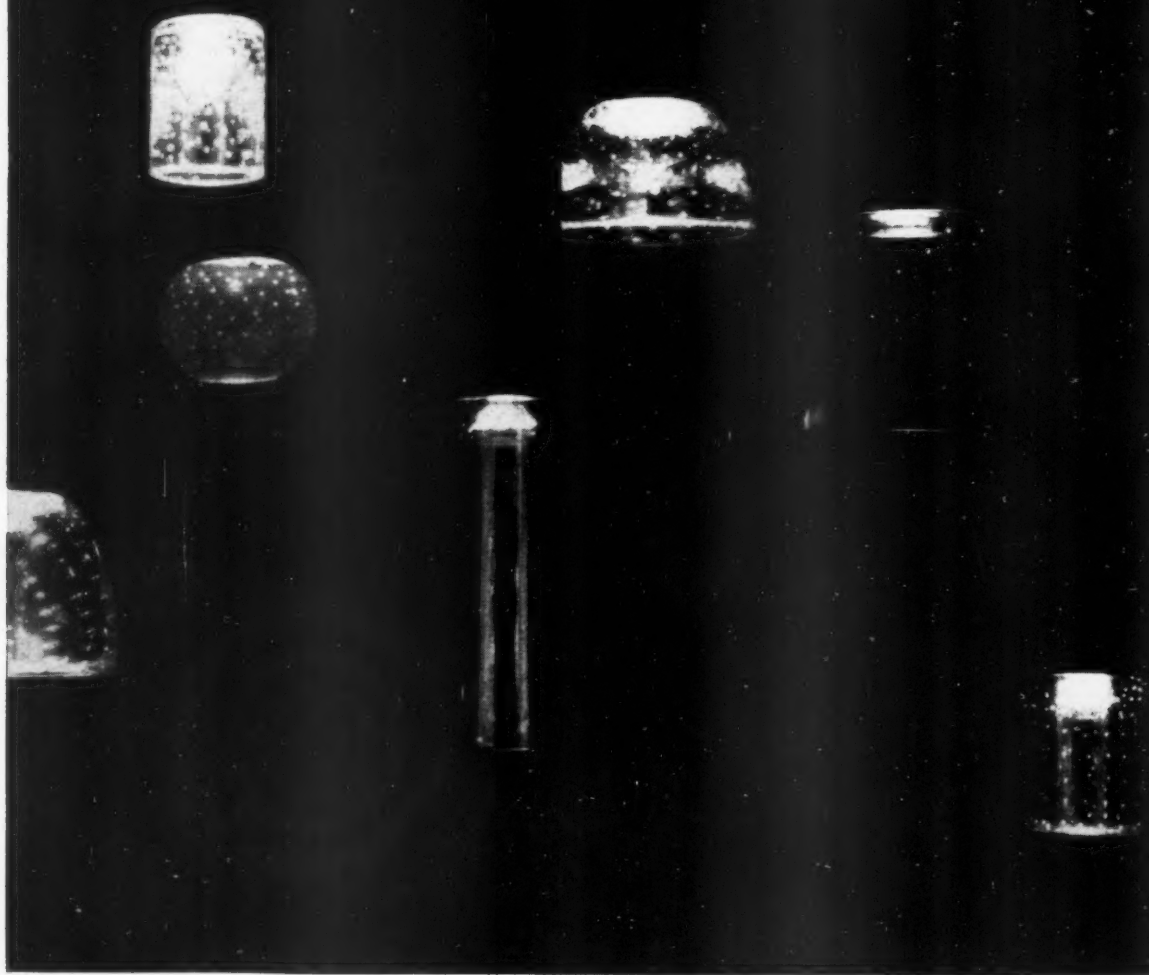
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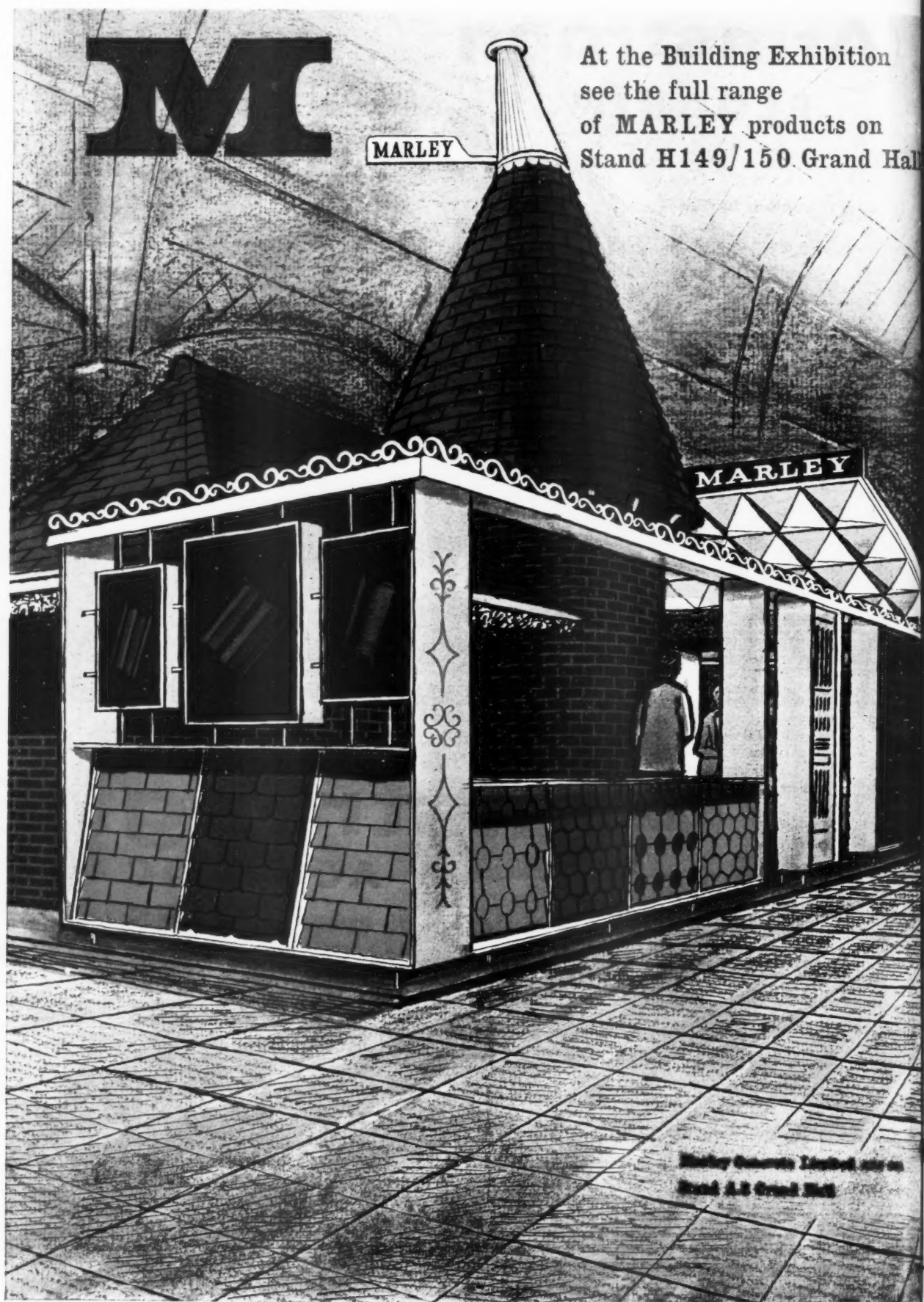
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A black and white architectural illustration of a Marley exhibition stand. The stand is a small, rectangular building with a prominent conical roof covered in shingles, topped with a decorative finial. A sign with the word 'MARLEY' is attached to the side of the roof. The main body of the stand is constructed from brick, with decorative white scrollwork along the eaves and vertical panels on the walls. Large display windows on the left side show various roofing materials, including shingles and tiles. A decorative metal railing with a circular pattern runs along the front of the stand. The stand is situated on a floor made of large, square tiles. In the background, the curved, ribbed structure of a large exhibition hall is visible. A large, bold letter 'M' is superimposed in the upper left corner of the illustration. Text in the upper right corner provides information about the stand's location at a building exhibition. In the bottom right corner, the company name and address are listed.

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NOT QUITE ARCHITECTURE

### *Start reading the Brick-breeder now!*

We've had that House of the Future, and the Appliance (Electrician's Paradise) House, and Jacques Tati's nephew's father's house, but what about the self-reproducing house?

\*

It seems the architectural profession in the Fifties have been behaving like a lot of ostriches. Professional house-keeping (and cleaning), wage problems, status, recognition, education, have all been tilted at, and yet, not three hundred yards, apparently, from the last and most beautiful windmill—the Future of the Architectural Association—not three-hundred yards from Bedford Square, there have been men, working, with things they call "bricks," making SELF-REPRODUCING MACHINES.

So you will all be out of a job in about forty years.

\*

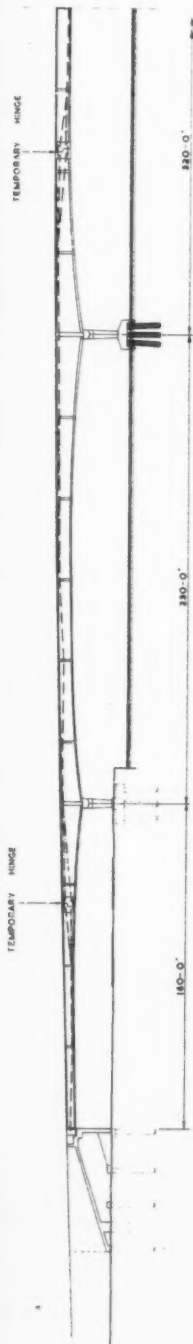
I thought this summer was more than the end of the Fifties. I have said to everyone, the cleaning woman, the print man, the tea boy, the foreman, the Liberal, I said, if it goes on much longer this fine weather I believe it's the end of something.

\*

Well it is, it's the end of my job—there's my woman's intuition for you! These men who have been working—Department of Eugenics, University College, Gower Street, W.C.1—make these "bricks" like Noah's ark animals out of thick plywood only shaped more like toy tanks (the simple ones that is) and put them in a long wooden box and they slide up and down nose to tail and nothing much happens. But rock the boat (which is how you recognize an avant-gardeist according to Lawrence Alloway on "The Fifties" at the ICA the other night) rock the boat and one slides up over another and they hook together and once they've done that and got tilted they ride

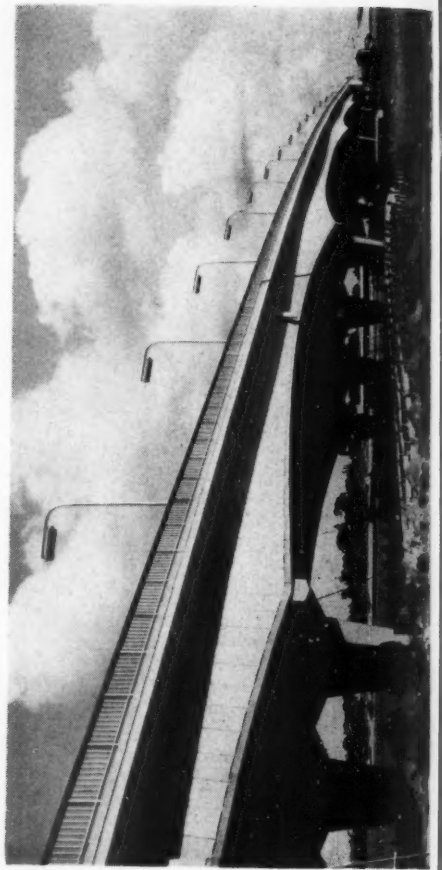
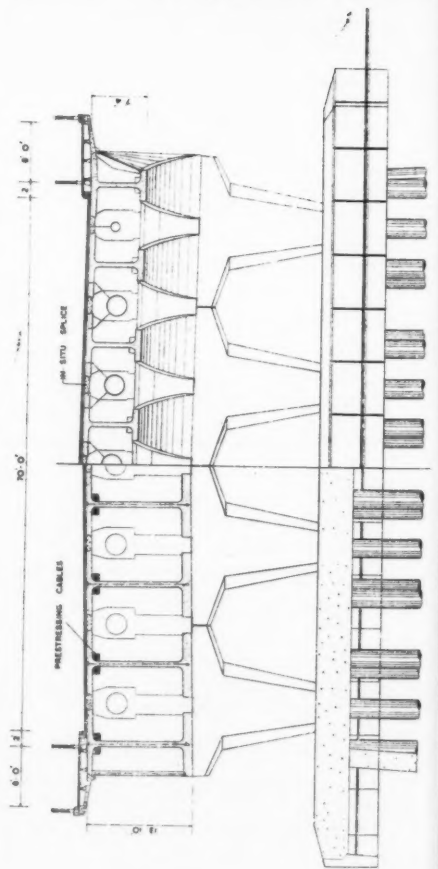


## The Longest in the World



"You've done the right thing," said C. W. Hamilton, vice-president of the Prestressed Concrete Development Group, addressing E. K. Hoar, Agent-General of Western Australia, at the Press showing of Perth's new prestressed concrete bridge. "I wish we had the opportunities here." It makes a pleasant change to hear of a British engineering achievement which breaks a record. This 1,100-ft. bridge across the Swan river, Western Australia, has a main span of 320 ft., which is the longest prestressed concrete span of its kind in the world. The consulting engineers were G. Maunsell and Partners, the consulting architects were William Holford and Partners and the consultant engineer for the prestressed deck was the brilliant E. W. H. Gifford. The typical sections below show the construction of the bridge. The four columns for each pier have curved bearing plates at the top and bottom, thus becoming large roller bearings and permitting the minimum frictional resistance to expansion and contrac-

tion. It is perhaps unfortunate that the columns are not directly related to the bearing points of the beams. The beams consist of 10-ft. precast units of a constant top section and a varying bottom section which were jointed and stressed together *in situ*. To keep the walls and flanges as thin as practicable to save weight, the longitudinal prestressing was applied by external cables whose position is shown by the broken line in the half elevation. These are hidden by the white, quartzite-faced panels which are attached to the outer faces of the parapet beams. The panels, as the general view shows, emphasize the slim lines of the bridge, but they also produce rather disturbing shadows in the oblique view. This raises the query whether the frank expression of the beams, the anchor blocks and the curving line of the prestressing cables would not have produced a more interesting and exciting effect than the tasteful masking by the slabs.



Self-

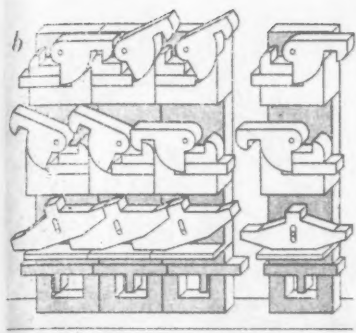
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Self-reproducing machine

over or under the others as they slide up and down the box until they all get tilted and hooked as well.

After this it gets a bit complicated, and they have four-storey "bricks" with pushing-apart units and hooking-up units and tilting-up units each on a different level and still at the wooden-toy level of technology like any old-fashioned dad could have made with his Hobby's kit. The way it is with these four-storey versions, it is built into them to stick together in semi-det pairs. You can have a lot of separate individual ones in a row, but push one of these semi-det pairs into the end of the row so that they all close up into a terrace, when you next go to look at them you find they are all in pairs like the semi-det you started with, it has reproduced itself all down the street. All you have to do is be careful what you first thought of. Think of this applied to a load of "bricks" in forty years; makes all that talk of modular co-ordination sound like a third-rate Boulting Brothers (mind you, I said so when it started back in the '50's") and even the techniques of Levitt-Town like Hancock's Half-Hour.

Forty years on and you will just knit it up; two plain, two purl, slip one (all lab. workers will be supplied with tin hats) . . . Come to think of it—

This is right up my street, and I look good in white, get me an overall and a tin hat and I'm all right Jack.

It's you chaps who are out of a job.

Banham always told you you read the wrong magazines—the *AJ*, the *RIBA Journal*, the *AA Journal*, instead of *Life*, *Look*, *Esquire*, *L'Espresso*, *Astounding*, the Japanese one about wrestling and *Civilta delle Machine*? But so much even for Banham of the Fifties and his ploy that everything you simply must have read appeared like as not in one of these and most likely in the last (which is the one he writes for). Too bad you don't read the right mags. I feel sorry for you. Feiffer told you you were missing out (and the *Observer* made it easy for you) It was *Scientific American* you should have been reading right along. See.

MARGARET GILL

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

## The Editors

### MORE BRAIN POWER REQUIRED

SIXTY-THREE per cent of the students at recognized schools have not achieved the new educational standard (two "A" level passes in the GCE examination) which the RIBA Council approved last March. Setting this standard will probably mean that the 27 Listed and Facility schools will have no students, and therefore no purpose, in seven or eight years' time when the present students attending have passed out. The Council envisages that students will in future attempt to secure places at the 25 Recognized schools.

The Report of the Committee\* on the Oxford Architectural Education Conference, on the basis of which the RIBA Council came to the above decision, states that the size of the profession will not decrease through putting up the standard of entry. This is merely expected to reduce the present rate of growth of the profession and to maintain it at its present size.

On the other hand, the Council is very interested in the possibility of training "technicians and technologists" outside the profession, and is appointing a further committee to put forward proposals for an approved form of training for technicians and technologists. The report states, but gives no evidence to prove, that there exist 10,000 unqualified assistants in the UK, and because some architects at present rely on such assistance to run their offices it is proposed in the report of the Committee on the Oxford Architectural Conference that a special training, based on that required for the National Certificates and Diplomas in Building, be started and that graduates of such a four to six year sandwich course would join some professional organization which might or might not be linked with the RIBA. The committee envisages that this technician would assist in what they describe as the "production" side of building, and they state: "This specialization of labour would be clearly understood in other industries where overall decisions made at the design stage are frequently put into the form of production drawings by technicians." It would be worth knowing what other industries the committee had in mind and whether the products of the other industries were of better or worse value than the products of the architectural profession, before basing not only a new training but a new type of career on it.

\* The members of the Committee on the Oxford Architectural Education Conference (appointed May 19, 1958) were: Professor Sir Leslie Martin, Chairman, William Allen, G. Grenfell Baines, D. H. Beatty-Pownall, Kenneth J. Campbell, F. Chippindale, Anthony W. Cox, R. Llewelyn Davies, Professor R. Gardner-Medwin, D. E. E. Gibson, A. Esmé Gordon, Professor Denis R. Harper, Professor R. H. Matthew, Michael Patrick, Robert J. Potter, E. M. Rice, and Richard Sheppard.

In this, and in one or two other arguments, this high-powered committee shows that its report is probably not based on the fundamental research which one would have thought was second nature to the eminent architects on it.

The committee did, of course, make a survey of a small number of offices in order to find out what work was done by unqualified assistants. None of them was concerned with "production drawings." They largely did site surveys and supervision, or working drawings. In other words, they were either acting as surveyors or as architects. A few did such tasks as draughting, model making or perspectives.

The Committee and the RIBA Council may well be right in deciding that a higher educational standard is required for students. Certainly the architects' job is potentially so exacting that the profession should endeavour to obtain its full share of the nation's talent. It is also true to say that there is an ever-increasing number of professions amongst whom the nation's talent has to be shared. The profession will always be able to receive those dedicated youths to whom architecture is a vocation (if they can acquire two A level passes); for the remainder, and they are many, the decision whether or not to become an architect will depend on the prospects. Has this RIBA committee proved that the best architects are those with two "A" level passes and higher? Unfortunately they have not. A number of university schools have been producing architects of the desired academic standard for years. Do these graduates do the best work, or the bulk of it? Such a fact would not be impossible to establish and it would have been valuable to have.

If architecture should become largely taught at universities, as the committee claims, what are the prospects of closer liaison with builders or even artists, sculptors and industrial designers (who are not)? Is the committee quite convinced that there is no place for architects in the colleges of higher technology?

At the present time, with so many points unanswered one can give only the most cautious approval of this committee's report. Despite the pages of appendices which, to a cursory inspection, give the impression that a lot of work has been done, the mistake even of this high-ranking committee is the usual one: a lack of fundamental research, and a lack of a synoptic view.

Before undertaking anything so extreme as introducing deliberately a technician who has been taught *everything* except architectural design into the architects' office it might be as well to review education in the whole building field—architects, surveyors, engineers and builders—and try and evolve a better break-down of responsibilities and a better coordinated building team. At a time of rapid social change it is surely imperative to take a wide view. Perhaps the new committee which the RIBA Council is forming "to put forward proposals for an approved form of training for technicians" will do some of the basic thinking which escaped the attention of Sir Leslie Martin's Oxford Committee.



#### THE SHORTER THE LONGER

If Messrs. Laing can build fifty-five miles of twin-track and 132 bridges in eighteen months, how long will it take for the half-mile underpass at Hyde Park Corner to be completed? The answer, according to the Ministry of Transport, is two years. No doubt we shall hear again the Chiswick Flyover excuse that traffic mustn't be interfered with. But my guess is that tenders will be based on day work, which is ridiculous on a key job that should be done on three shifts. I know shift work would cost the Ministry more, but when you think how much time and money will be lost by road users (buses and lorries, as well as motorists) it's clear that higher rates would produce an overall saving. But of course no-one bothers to add up the odd pence and shillings lost by tens of thousands of individuals.

#### THE PRICE OF JAM

The cost of delays in road transport is discussed in *Highway Priority* (made by British Films Ltd. for the Roads Campaign Council), which not only shows how delays affect the price of consumer goods, but also appraises present-day road conditions. This sensible film presents the solutions to traffic problems—motorways, by-passes and pedestrian segregation—but insists that better roads should not

be constructed at the expense of historic town centres. The film tells us—among other things—that 25 per cent. of the traffic travels on one per cent. of the roads, and that 100 people are killed each week in accidents which cost £175 m. a year.

#### YOU'RE ALL RIGHT, JACK

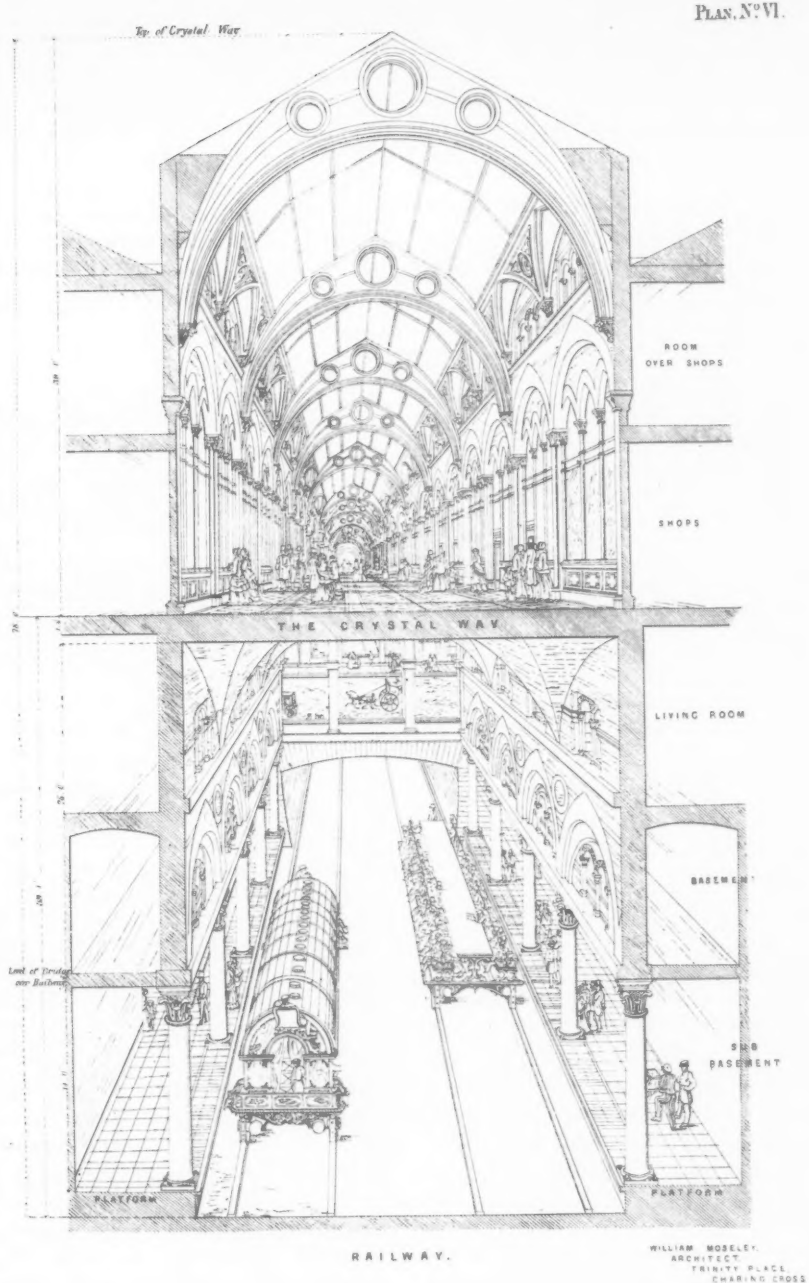
Talking of money, isn't it heartening—after nearly twenty years of capital movement restriction—to hear of British money paying for one-quarter of the skyscraper office to be built over the tracks at New York's Grand Central Station. The architects will include Gropius and Pietro Belluschi, and most of the British money will come from Jack Cotton, whose partners (Ballard and Blow) are architects for the Monico building in Piccadilly Circus. Incidentally, here's another teaser: if it takes twenty-one months to build the 2.4 million square feet of skyscraper, how long will it take to build the 200,000 square feet of Piccadilly offices? Answer: thirty months. A correspondent in the *Economist* finds this "hardly credible." I know it's not sensible to relate building time too closely to the size of the job: the larger the building, the easier it is for labour and plant to be absorbed without confusion and collisions. But I'd like to hear a good reason why a building should take two-thirds of the time needed for something one-twelfth its size.

#### CAPITAL PUNISHMENT

The Piccadilly building got a nasty knock at the Architecture Club last week when Lord Conesford—describing himself as an angry old man—said it was "something to be ashamed of, which no civilized country would allow in the centre of the capital." Lord Conesford, who is introducing the subject in the House of Lords this week, said he had seen the LCC's original proposals in the *Architect's Journal* and that "everything of merit in the first design had been chucked away."

\*

This attack was made in a debate on the motion that "the Architecture Club deplores the architecture of recent office buildings in London." Raymond Erith proposed and Guy (Bowater House) Morgan opposed—neither of them very lucidly. If I got it right Mr.



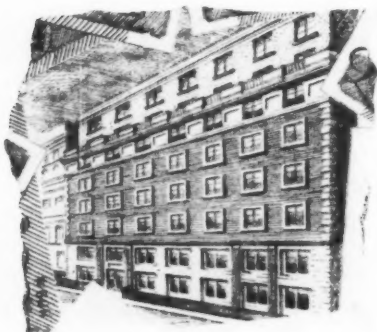
The Victorians produced many suggestions for multi-level traffic: a relatively little known one, above, was shown by Nikolaus Pevsner in his lecture last week at the Courtauld Institute on Victorian Town Planning (see ASTRAGAL's note "Not quite a Penguin"). It is a design by William Moseley for a two-level route from Oxford Circus and Piccadilly Circus to Cheapside. A railway, 12 ft. below ground, was covered by a pedestrian arcade 25 ft. above. Existing streets cut through at an intermediate level as can be seen in the background. Planned to go through the backyards of those "areas of vice, dirt and misery" such as St. Giles and Long Acre (things haven't changed much today), Moseley calculated that the line would cost £2m. to build and would transport 25,000 people each way for a toll fee of one penny each.

Erith's main argument—apart from his criticism of town planners, who should "do the whole thing or interfere as little as possible"—was that too little money was spent on buildings

and too much attention was given to consumer goods. Mr. Morgan, who praised Basil Spence's Thorn Electric block, said we won't get better architecture without better clients.



Although no one had been invited to speak, there was some good stuff from a dozen people, including anti-preservationist Raglan Squire, Cecil Elsom ("architects are ultimately responsible



*This poor line engraving of a pompous and cumbersome-looking building accompanies an appeal for £1m. by the Imperial Cancer Research Fund, who want to build the most advanced cancer research centre in Europe in Lincoln's Inn Fields. ASTRAGAL hopes you will enclose a protest about the appearance of the building with your generous contribution.*

for deplorable design") and Richard Edmonds, who said the boroughs must lead in design standards.

#### NOT QUITE A PENGUIN

Anyone who has tried to take short cuts with a car in the Ladbrooke estate area of Notting Hill will have been tangled up in double crescents. They won't have guessed that this obsolete urban pattern was created because the area was originally intended as a race course. This is one of the facts unearthed by Nikolaus Pevsner and his fellow researchers and revealed by Dr. Pevsner last week in his illustrated paper on Victorian Town Planning at the Courtauld Institute. Another surprise for most people in the audience was the slide of William Moseley's visionary Crystal Way (1885) from Oxford Circus to the City—a continuous pedestrian shopping arcade above the roads, with a railway underneath. Dr. Pevsner took us on a brisk tour of the main visual incidents of 19th century planning and demonstrated very clearly that no new planning occurred between Nash and Norman Shaw's Bedford Park. But he didn't try to explain why. He managed to talk for an hour without reference to the astonishing urban population growth,

the redistribution of wealth and patronage and the influence of the sanitary reformers on bye-law planning. And he only made the smallest reference to how people lived at the time. The talk was a little disappointing, coming as it did from the man who is making us forget we once thought of town guides and histories as melancholy affairs of sentimental or archaeological impressions.

#### DO WHAT YOU MUSTN'T

A Danish friend tells me that a new feature in Copenhagen's Tivoli Gardens isn't doing as well as expected. It's called The House of Forbidden Games, and is provided so that children can do there what they mustn't do at home. The experiment seems to show that there's only one place where children want to do what they mustn't do at home—and you can guess where that is. However, the Scandinavians certainly have the lead on us when it comes to the design of playgrounds. A little while ago *Panorama* showed a Swedish playground, of the kind that has separate sections for different age groups, and introduced us to one of the trained "play leaders"—a very different girl from the sour supervisors in English municipal parks.

\*

Some of the New Towns have provided improved play areas, and so have Powell and Moya at their Pimlico scheme, but not nearly enough has been done and I was glad to hear John Stillman asking for better playgrounds at a recent one-day conference held by the World Organization for Early Childhood Education. Too many local authorities still think in terms of asphalt, swings, see-saws and spiky iron railings.

#### NO TASTE BUD?

A Chicago lecturer has accused the British Government of persuading the middle classes to spend their money on escaping from "quaint and cosy squalor." It's a nice thought. Let's hope they won't get as inhibited as middle-class Americans. According to a survey reported in *Fortune* magazine, many of them have given up buying furniture altogether because "they know they ought to have good taste but don't know quite what it is."

ASTRAGAL



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Manchester College of Technology

A. G. Wise, F.R.I.B.A.

William McCallum, L.R.I.B.A.

#### What Side Is The LCC On?

SIR: In a criticism of the Piccadilly Circus proposals you rightly comment on the total lack of pedestrian/vehicle segregation. You suggest that this would be sufficient grounds for the rejection of this scheme, but I cannot feel that any such segregation is really favoured by the LCC Planners in general. Otherwise, surely Notting Hill Gate redevelopment would be taking a very different form. And wouldn't the future Knightsbridge roundabout and the Elephant & Castle show a great deal more awareness of the need to separate feet from wheels? A comparison of the original layout of the South Bank site with that finally approved does nothing to clear doubts.

The LCC now have before them a Planning application for a scheme which will rebuild the 900-ft. frontage from the Kensington Gardens to Kensington Church Street. Amongst other uses, it plans for ground and first floor shops facing on to the very busy through traffic artery of Kensington High Street, on the other side of which are more shops. Crossing this road is pure luck and absolute hell.

There is enormous scope in this situation for multi-level circulation and planning which would tie up in future years with the redevelopment of the other side of the road. Will the LCC give its blessing to a scheme which permits the continuation of the present intolerable noisy death alley conditions?

The LCC as the Planning Authority has, it seems to me, a special responsibility to en-

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sure that the principles of good, forward looking and creative planning are adhered to. They have all the power they need to insist on adequate accommodation for car parking, on complete pedestrian/vehicle segregation, and can regulate the traffic generating capacity of redeveloped sites. They are not doing this and the failure is going to be very difficult in time to overcome.

GORDON MICHELL

London

## Engineers as Directors

SIR: It appears from A. J. Harris's remarks that architects wishing to avoid paying a consultant's fee for professional advice, employ the services of low status firms of commercial designers and combine with them to fleece the unsuspecting client. As a result of these nefarious practices engineers employed by such firms receive no honours from professional bodies.

If these assumptions were true it is surprising that very many of them have been in business for so long in this highly competitive world.

A glance at the list of past Presidents of the Institution of Structural Engineers shows that many illustrious holders of that high office have been members of commercial undertakings. No sir! There is a distinction between a director of a firm of reinforced concrete designers, the principal of a firm of builders and the partner in a firm of consultants—all of whom are professional engineers—but, we suggest, no essential difference.

Competition between designers, whether they be employed by consultants, builders, or commercial undertakings serving the concrete industry, is desirable. We suggest that reinforced concrete would not have become a principal building medium unless the despised commercial firms had blazed the trail at the beginning of this century and continue to do so today.

M. G. COWLISHAW  
GKN Reinforcements Ltd.

## Motropolis

SIR: Newspeak and Subtopia advance together. So contorted is the English of two correspondents that only Mr. Webb's slangy "I like it that way" and Sir Leonard's job suggest that they are attempting to justify the conspicuous consumption of motor-cars. In private enterprise, "commencement salary" may be an acceptable phrase; but Mr. Webb has few chances of getting that £3,000 Government post until he learns to ask for a commencing salary. Sir Leonard's sentence "Inevitably, the use of motor vehicles will expand globally because of social and economic implications" is just meaningless. Let us simply rejoice that his mind was momentarily diverted from filling British roads with motor-cars to help "this country's economy" (how?), to considering the effects thereof.

Despite Mr. Webb, only a minority of Birmingham municipal flat-dwellers own cars,

and that minority's chief need is parking-space for decaying prestige-symbols whose hire-purchase instalments leave no margin for tax, petrol and garage rent. The largest group of car-owners seem to be the lower managerial class, for reasons connected with company-tax; the upper classes are definitely abandoning the private car in favour of the taxi or even the private aeroplane. Personally, I retain a furtive regard for Mr. Webb's despised invention, the human leg.

ROBERT J. HETHERINGTON

Birmingham.

## Two Bridges

SIR: The English genius for compromise has, by arranging a marriage between the concrete bridges crossing the London-Birmingham motorway and the brick arches that span the railway, produced a new form of Sharawadgi. Seen from a train, the results are even more entertaining.

JOHN GLOAG

London

## Ghoul Architecture

SIR: Your issue of November 5 contains an illustration of the proposed front elevation for Goole Town Hall.

I would like to make it quite clear that it is



not "an architect's proposed front elevation" as you state. The Goole Corporation, who are responsible for this sketch elevation, do not employ an architect in their Surveyor's department, nor do they employ private architects.

P. G. KELSEY

Goole

We merely repeated the information given in a local newspaper. Perhaps the local Allied Society will inform the newspaper and the Goole Corporation of the error of their ways.—*The Eds.*

## Demountable but Unmoved

SIR: I am engaged in research into the design, manufacture and erection of non-structural partitions with special reference to the interrelation of these factors and the effect of one upon the other.

Whilst I should be pleased to receive comment from your readers on any of these aspects, I am particularly anxious to receive information regarding actual cases of the removal and reuse of demountable partitions. I am inclined to consider the number of such cases comparatively rare in comparison with the number of systems using this as one of their main attractions. Perhaps it

is the opportunity afforded to architect and client of evading an apparently final decision on partition positioning which gives these systems an added selling point!

ROGER A. BURGESS

Manchester College of Technology

## Dior or Chain Store?

SIR: According to a recent news item, the Wholesale Clothing Manufacturers' Federation reveal that master builders now lead architects and take seventh place as dressers in the occupational classification. "Poorly dressed architects," they say, "... spent time on building sites, crouched over drawing boards, and had no time to be well dressed."

I am wondering if there is any connection between this alleged state of affairs and the present discussions about architects joining building companies.

It occurs to me that it is fortunate that my own personal clothing manufacturer gives an all-in service. If his cutter were so independent as to insist on being a free-lance designer, sending out his own accounts for services rendered, very likely I would dispense with him, buy the reach-me-downs, and be even more poorly dressed. Or consider circumstances in which the motor trade take to selling cars at factory prices, sending out accounts separately for their commission. I fancy many of the dealers would be seen in hell first. Yet this is much what we do. Surely our business psychology must be even worse than our clothes, particularly when we deal with the growing number of small clients spending their own hard-earned money.

I have a feeling that much building work is lost to the profession, and therefore worse than it might be, for no other reason than that design costs are shown as an extra and not as a normal overhead.

A. G. WISE

Launceston

## Sludge Gas

SIR: With reference to your issue of October 29, in describing the Northern Outfall Works at Beckton, Essex, you refer to this works as providing sludge gas as a source of power hitherto untouched by any other sewage works in the United Kingdom. I would point out that the sewage disposal works of the County Borough of Wigan at Hoscarr, West Lancashire, has for some time been using this sewage gas in connection with the generation of electric current. G. Keighley, Borough Surveyor, Wigan, was responsible for the design and execution of this sewage works which came into full operation in November of last year. Moreover, I am informed that this is not the only sewage works in the North propagating and using this gas for industrial purposes.

WILLIAM MCCALLUM

St. Annes-on-Sea



## RICS

### Redevelopment of Urban Areas

The RICS is to foster research into the problems of city redevelopment by private enterprise, said RICS President J. L. Postlethwaite in his address to members recently. After pointing out that there was little difficulty in getting the rebuilding of the central areas of cities carried out, because it was financially attractive, Mr. Postlethwaite continued: But the ring of obsolete or obsolescent property which surrounds most of our city centres presents a different problem. It may be financially less attractive, and the splitting of ownership may make it difficult to assemble the land in viable units. Here is a real headache, for which surveyors are perhaps best qualified to find a remedy. We have a long experience in estate management and development, and here is a pressing problem in that field. It was brought into prominence at the Chartered Surveyors' Annual Conference this year during our discussions on the economics of land development—and it was spotlighted as something which must be tackled soon—unless we are to accept that the only workable solution is to hand the whole task over to subsidized public enterprise. I believe that private enterprise still has an important contribution to make to land development and redevelopment in this country, and we have a duty to assist that contribution in the same way as we have played our part, as surveyors, in the many public works that have been undertaken since the war. It is for this reason that the Institution has decided to foster research into this important aspect of land planning.

## COID

### Waiting in Comfort

Diana Rowntree and Clive Latimer, writes a correspondent, have designed an ideal waiting room and a surgery and examination room respectively at the COID, 28, Haymarket, London. Compared with the brown linoleum, brown paint, brown bent wood chairs and mirrors on chains of suburban rooms, and the dark mahogany ponderousness of Harley Street, the waiting

room by Diana Rowntree is as prettily decked as such a limbo can be. Patients can sit on a low range of red wall benches, or in two chairs. Shelves cantilevered from a central post carry magazines. One wall is finished in natural vertical boarding, and visual interest is supplied by a doll's house, a case of stuffed fish, cases of butterflies and a brass clock. All pleasant pieces, but the doll's house would be liable to be rapidly denuded and rather unhygienic, and the entomologist doctor would so rarely have a nicely balanced display of cases to hang up (one is not supposed, surely, to hang up someone else's collection?). The main fault is the seating, which is low, and without arms, so the obese and the halt, once comfortably seated, might find it hard to regain their feet.

About twenty-five quantity surveyors attended a course on cost planning from November 9 to 13, arranged by the Brixton School of Building and sponsored by the Quantity Surveyors Committee and the R.I.C.S. Cost Research Panel. Though the lecturers presented a united front they were still unable to present a standard system of analysis.

## BRIXTON SCHOOL

### Post Graduate Course in Cost Planning

The setting for this course was the TUC Building in Great Russell Street. About 25 quantity surveyors attended and it was interesting to note that only a comparatively small number of them, three or four, were employed by government departments. Our representative was invited only to the summing up on the last day so until the full report on the course is published we cannot comment on it as such. However, a certain amount of interesting discussion took place on this last afternoon.

It appears that during the course of the lectures a lot of apprehension had been felt about the reliability of the information available for the compilation of analyses and thus cost plans. It seems that statistics show that builders' prices for the same things vary to a frighteningly large degree. Also the prices of raw materials. The latter sometimes as much as by 300 per cent. W. James, F.R.I.C.S., Chairman of the Quantity Surveyors' Committee, felt that prices were sadly neglected in the training of quantity surveyors. He also suggested that the RIBA and RICS might get together with a view to publicizing Cost Planning among interested parties. He thought that people with money to spend (the Institute of Directors?) should know about it. C. M. Nott of Hertfordshire County Council said that this would be premature because quantity surveyors did not themselves know enough about the subject and could be made to look rather silly if they offered a service which they were unable to carry out. Earlier in the day Mr. Nott had collaborated with P. Grafton in conjunction with Anthony Pott, of the MoE, in presenting a set exercise on cost planning. The significance of this combination may not be apparent to all, but it is sufficient to say that it might, if it were not

Two rooms, a consulting room and an examination room have been provided by Clive Latimer, designer-consultant to the Medical Practitioners' Union. They are separated by a corridor, and the idea is that undressing and dressing time need not be wasted as the doctor can be interviewing the next patient in the other room. This might be attractive to doctors but sounds unpleasant for patients waiting naked on the slab. The furniture provided is pleasant and not too clinical in appearance, but there would seem to be a shortage of storage space, and it appears matter for conjecture whether instruments and sterilizer should be in the surgery—where they are placed in the exhibition, or in the examination room, where they are equally likely to be used.

for what came out in discussion during the afternoon, have been taken as quite a big rapprochement between what have come to be called by some the "Grafton-Darlow" and the "Nott-Nisbet" techniques. It appeared, however, that Mr. Nott was only interested in presenting a united front to those attending the course in order not to make the subject more complicated than it must already seem to them to be. But in the afternoon he clung quite emphatically to his belief that costs of all buildings can be broken down into elements. This is the principles on which the two systems fundamentally differ.

There seems to be a feeling among some leading members of the RICS that Cost Planning is a "chic" new name given to something that has been done by them for years in order to give it a "sales boost."

## SCOTTISH HOSPITALS

### A Development Unit

Anticipating a steep rise in hospital building, the Department of Health for Scotland in Edinburgh are making ready for a big programme that may open up a new and highly interesting field to the architectural profession.

Some regrouping of the specialist staff in the Department has brought together a team of doctors, architects, engineers, quantity surveyors, nurses and work study experts to tackle jointly some of the basic problems in hospital planning. A steering committee will lay down the broad lines of study and it in turn will be advised by a medical committee on "future trends in medicine."

A full-time development unit has been set up with two immediate objectives; the draw-

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ing up—on a broad basis at first—of standards of space and cost in selected hospital departments and an intensive study of casualty departments. It is intended to build at one of the Scottish hospitals a demonstration casualty department embodying the findings of this inquiry.

The senior architect in the unit, John Ogilvie, has just come from five years in schools development which involved the building of six schools. Justin Blanco White is fresh from research in housing and the unit is fortunate in having a full-time quantity surveyor, D. J. Campbell, who is working on cost analysis. The unit will need to be expanded shortly.

Co-operating with the unit are a medical officer who was recently running a big hospital in Glasgow, and the new team for work study in the Scottish hospitals, which includes a nurse. They are helping to obtain the data required for the fundamental study of casualty departments. A close tie with the Building Research Station has been established and the Deputy Chief Architect for Health buildings, R. Scott Morton, is on the Board of BRS. Richard Llewelyn Davies of the Nuffield Foundation is being consulted on the research programme.

Hospital building procedure is identical in Scotland and England and the Building Bulletins on hospital planning will be published jointly by the Ministry of Health and the Department of Health for Scotland. The Department's architects are in close touch with W. E. Tatton-Brown, the new Chief Architect of the Ministry, and the two offices are integrating their work as far as is possible at a distance of 400 miles.

Architects working in the Department of Health for Scotland reap the advantages of being in a relatively small and varied organization. The Architects' Division under the Chief Architect and Technical Planner, T. A. Jeffries, serves all the Scottish Departments. Schools, colleges, housing, agricultural research buildings, laboratories and institutions come into their purview as well as hospitals and welfare buildings. Ideas, experience and methods of research can be easily exchanged both by discussion and by bringing individual architects across from one field into another. Buildings already put up by the Department's architects include the successful Scottish health centres, flats, maisonettes and experimental schools.

## EXHIBITION CENTRE

### £10 Million Proposal

A committee of the Federation of British Industries, which investigated the adequacy of exhibition facilities in this country, has reported that there is an urgent need for a new exhibition building in central London, on a minimum site of 26 acres, with 500,000 square feet of ground floor space, restaurants, conference rooms, offices and ample unloading yards and car parks. It estimates the capital cost at £10 million, plus operating losses for the first years, and recommends that this sum should be provided from public funds.

A site for clearance and redevelopment might be found, it suggests, as part of road improvement. It also asks the Government, in co-operation with industry, to take immediate steps to improve existing exhibition facilities.

In a covering letter sending the report to the President of the Board of Trade the FBI makes the following points: that trade fairs will play an increasingly important part in the promotion of the export trade; that existing exhibition halls are out-of-date (Olympia is 70 years old) and do not compare with the exhibition buildings recently erected abroad; that a first class modern exhibition centre would bring in many direct and invisible benefits to the nation as a whole.

The committee considered and rejected two alternatives to an entirely new exhibition building in central London. One of these was to continue to use Olympia and Earl's Court, but making drastic extensions and improvements to Olympia at a cost of just under £3 million. The main feature of this compromise scheme would be a new multi-storey building over the railway tracks, connected to the old building by escalators and bridges. The disadvantages are that Olympia is already more than 70 years old, and is situated in an area of London which is also showing its age and where traffic congestion has become a serious problem. The other alternative is the LCC's Crystal Palace site, which has many advantages: it would be provided free, the LCC would co-operate in the development and take a financial interest, and there is ample space for indoor and outdoor exhibits. But the transport services from central London are inadequate, it is inaccessible for hotels and entertainments, and many of the popular shows, such as the Motor and Radio Shows, would be unlikely to use it.

## COLUMN GROUP

### Public Meetings

The Column Group has again arranged an interesting series of meetings at Attingham Hall, near Shrewsbury. The speakers include Sylvia Crowe, Eric de Mare and Robert Jordan. Membership is open to anyone interested in architecture and the allied sciences (meetings are open to the public, too). Application for membership should be made to The Secretary, Column Group, Column House, London Road, Shrewsbury.

## BC

### New Materials

The November issue of the Monthly List of New Materials published by the Building Centre, will take the form of a list of the new products to be seen at the forthcoming Building Exhibition at Olympia. Anyone not already on the circulation list of this publication can obtain a copy, free, on application to the Building Centre, 26, Store Street, London, W.C.1.

## DIARY

*Building Exhibition.* At Olympia. Mon., Wed., Sat., 10-6; Tues., Thurs., Fri., 10-8.  
NOVEMBER 18—DECEMBER 2

*From Idea to Finished Structure—An Examination of Communications.* Yerbury Foundation Lecture. Speakers: Sir Thomas Bennett, A. Hudson Davies, W. James and J. M. Gillham. At the TUC Hall, Great Russell Street, W.C.1. 6.30 p.m.

NOVEMBER 19

*Services for Tall Buildings.* Discussions organized by the Technical Information Service of the MOW and the LCC Brixton School of Building in the Conference Hall, Olympia. 5 p.m.

NOVEMBER 20

*The Economic Forces Leading to Urban Concentration in Great Britain.* International Centre for Regional Planning and Development: British Group-Study Day. At the London School of Economics, Aldwych, W.C.2. 10 a.m.

NOVEMBER 21

*A Landscape Architect's View of America.* Talk by Peter Shephard at the AA, 34/36, Bedford Square, W.C.1. 8 p.m.

NOVEMBER 25

*Some Significant Experiments.* Illustrated lecture by Peter Hammond, organized by the University of London, Department of Extra-Mural Studies and the New Churches Research Group. At the Lecture Theatre, Institute of Archaeology, 31/34, Gordon Square, W.C.1. 6.30 p.m.

NOVEMBER 25

*The Protection of Historic Buildings.* Talk by the Earl of Euston in the Lecture Theatre, Victoria & Albert Museum, S.W.1. 6.15 p.m.

NOVEMBER 25

*Power Production and Transmission in the Countryside: Preserving Amenities.* Talk by Sir Christopher Hinton and Sir William Holford at the RSA, John Adam Street, W.C.2. 2.30 p.m.

NOVEMBER 25

*South-West Essex Technical College and School of Art Distribution of Prizes and Exhibition of Work.* At College Hall, Forest Road, Walthamstow, E.17. 7.30 p.m.

NOVEMBER 26

*A Commentary on the New British Standard 449 (1959). The Use of Structural Steel in Building.* By John Mason at the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. 6 p.m.

NOVEMBER 26

*Exhibition of High Buildings in London.* LCC, County Hall (North Block), London, S.E.1. Open from 1 p.m. on NOVEMBER 25 UNTIL DECEMBER 19

*Exhibition of Sculpture in Ciment Fondu.* At the Building Centre, 26, Store Street, W.C.1. NOVEMBER 26—JANUARY 2, 1960



## GUIDE TO A QUICK LOOK ROUND THE BUILDING EXHIBITION

*Every year (or to be exact, every other year) the Building Exhibition gets a little bigger. This year the trade stands have overflowed into the second floor of the Empire Hall and have nearly filled it. Considering that this further extension makes a new approach necessary, we have this year modified our traditional preview treatment. In the first place we have, reluctantly, omitted from our terms of reference the two large sections dealing with contractors' plant and woodworking machinery. This is a retrograde step, for the architect ought to be just as interested in these as the contractor. Further, it is one of the Journal's unfulfilled missions to give him this interest. But the preview issue is not the place to try to give it: today's architect does not get much joy or enlightenment from these classes of product and, in view of the many other and more accessible things calling for his attention, it seems best to ignore them. The second innovation is that we preface our usual stand-by-stand, section-by-section guide with a brief estimate (forecast would be a better word) of the Exhibition as a whole, followed by a suggested itinerary for those who have only half a day to spend looking round.*

In collating the handouts and telephone messages received from exhibitors at the time of going to press, we found that, excluding woodworking and contractors' plant, there were some 232 exhibits which are described by their exhibitors as "new." This is, of course, misleading, because to a manufacturer or distributor, a product is "new" which is new to him even though it may be quite old to his competitors; and no amount of enquiry through publicity agents and press officers can quite separate the wheat from the chaff. Nevertheless, it seems that the total volume of new products is considerably greater than before. Where can we begin? Our first thought was to preface this issue with a list of all "new" products, listing each in the category in which it belongs. This would have enabled readers to pick out in addition the subjects which most interest them. From our point of view, however, it has the great disadvantage of repeating the pattern which we use in the issue reporting the Exhibition (appearing in two weeks' time). Instead, we have taken it on ourselves to provide a suggested itinerary. The principles on which this has been drawn up are these. We are of the opinion that in half a day the determined architect can visit about 50 stands. In picking out our 50 stands, we have had regard in the first place to sectors of the industry in which development is clearly going on. Examples of this are curtain walling (though activity here is not so intense as it used to be), standard windows, acoustic materials, prefabricated timber beams, oil-fired heating and small bore central heating. We have accordingly listed virtually all the firms who have something "new" to offer in these categories.

Next we have made a list of separate items which are both new in themselves (or fairly new) and seem intrinsically interesting.

Lastly we have added a small number of stands on the strength of their good record in the past.

### Conspectus

The making of curtain walls and windows is, of

course, mixed up. So a number of manufacturers who have curtain walls to show have something new in windows also. Curiously, none of the exhibitors of curtain walls refers to his exhibit as "new," but we like to think that development and thence modification is going on all the time, and on this basis we have included all. There are eleven stands, of which ten are showing systems, and the eleventh is the Vitreous Enamel Development Council (142) who are devoting their stand to the uses of vitreous enamelling in curtain walls.

Most of the curtain wall people also have standard windows to show, though only one, Hope (78, 79), actually draws attention to new products. In addition, there are five firms showing new standard windows only: three of these, Jayanbee (534, 536), Austins of East Ham (588) and Ideal (701) show plastic faced steel windows. Jayanbee in addition show a horizontal sliding window, Tomo Trading (195) a new timber picture window and Cawood Wharton (772) a timber pivot window.

There is some activity in acoustic materials: both Kenyon (22) and Burgess (617) have new ranges of acoustic tiles, Brightside (663, 665) have a new acoustic ceiling which incorporates both air diffusers and lighting, Avery (539) show the new Danish product, the Dampa acoustic lath, which can be seen also on the Hursel stand (188, 189).

There is evidence of an all-out attempt by the timber interest to get back some of the markets lost during the era of timber shortage, particularly in the sphere of structural components. No less than three firms are offering off-the-peg prefabricated timber structural components: Newsum (736) with their most interesting Girdalinc system, Beves (650) with their HB system and Dexion (737) who are offering a new range of timber purlins, trusses and decking. To these we add the TDA stand (647) which is devoted to timber in cross walls.

Next comes heating. Here the manufacturing industry seems to have an unbounded confidence in the stability

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of the Middle East, for no less than nine firms are offering oil heating equipment. Fortunately for those who have to trudge round there is an admirable tradition among heating firms to keep their stands fairly close together, so we have included all those who are in the heating corner. For impartial advice you can go to one or other of the oil distributors, Charringtons (862, 863), Esso (723) or Shell-Mex (740, 741). In our itinerary we plump for Shell, but for no very decisive reason.

The second mode of heating which has excited the industry is small bore central heating. Yorkshire (113, 114) offer a new range of pipes for it, Kings Langley Engineering (509, 510) new fittings, Radiation (203, 204) offer a new wall-mounted gas fired boiler and Range Boilers (214) a new indirect cylinder, both specially for use with it. Both CDA (248) and CUC (200, 201, 202) devote their stands to an exposition of it. But we do not feel justified in directing our half-day architects to all of these.

Surprisingly there are no new products relating to underfloor electric heating, but information about it can be got from EDA (97, 98).

We come now to our selection of separate items. The racing term is right here, for stands have a disconcert-

ing way of not running to form. The list is as follows: Esavian (38, 39) for a new movable partition; Carters (73) for some prefabricated tile panels for curtain walls and also some new mosaic tiles; Adamsez (110) for some new sanitary ware; Gardiner (118) for some standard pressed metal stairs (they look terrible in the drawing but the idea is of interest); Metal Sections (127, 128) for a new range of steel and composite joists; Thermalite (161) for reinforced lightweight concrete roofing units; Cape Asbestos (239)—primarily for their good record, though they have some new p.v.c. and polyester coated Asbestolux to show; English Rose (249) for a combined heat pump and refrigerator; Radiation (Gas Division, 250) for a build-in cooker; MOW (551, 553, 555) for their discussion of the problems of building high; DSIR (552, 554, 556, 560, 562) for their perforated bricks (see also Sussex and Dorking, 117) and for their dry finishing; Cordar (639) for a hermetically sealed two-layer perspex dome light; the Consumers' Association (707 A) because architects ought to join it; Pilkington Tiles (757) for ceramic tile prefabricated panels; Nu-way (759) for a scheme for the centralized servicing of large boilers; UAM (782) for a new range of asbestos cement pipes and Finland (846, 847) for what we hope will be new thought on kitchen furniture, wallpapers and locks.

### *The itinerary*

#### **AJ Section 1—Start in the National Hall and visit stands in the following order:**

No.	Stand	What to see
250	Radiation (Gas Division)	Build-in gas cooker
249	English Rose	Combined heat pump/refrigerator
248	CDA	Small bore central heating
234	Holoplast	Curtain wall
236	United Steel	Curtain wall
239	Cape Asbestos	New pvc and polyester coated panels
217 }	Ideal Boilers	New oil-fired boiler
218 }		
221 }		
222 }		
225	Riley	Swiss oil-fired boiler which will burn rubbish also
214	Range	New oil-fired boiler
213	Potterton	New oil-fired boiler
210	Glow Worm	New oil-fired boiler
208	Watts	New oil-fired boiler
205	Newton Chambers	New oil-fired boiler
203 }	Radiation (Solid Fuel Division)	Wall mounted gas-fired boiler for small bore central heating
204 }		
200 }	CUC	Small bore central heating
201 }		
202 }		

#### **Pass through into Grand Hall—AJ Section 2**

195	Tomo	New picture window
161	Thermalite	New reinforced lightweight concrete beams.
118	Gardiner	Prefabricated staircases
78 }	Hope	Curtain wall, also new weather-stripped reversible window
79 }		
38 }	Esavian	New movable partition
39 }		

#### **Pass into AJ Section 4**

73	Carter	Prefabricated tile panels for curtain walls, also mosaic panels
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88 } 89 }	Crittall	Curtain wall
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**Pass into AJ Section 3**

110	Adamsez	New sanitary ware
131	Ajax	Curtain wall
127 } 128 }	Metal Sections	New range of steel and composite beams
155	Braby	Curtain wall
171	Janitor	New oil-fired boiler

**Pass into AJ Section 5**

142	Vitreous Enamel Development Council	Vitreous enamel for curtain walls
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**Pass into AJ Section 6**

97 } 98 }	EDA	Underfloor electric heating
57	Janes	Timber curtain walling
22	Kenyon	New acoustic tiles

**Climb to Grand Hall Gallery by staircase immediately behind Stand 20. Enter AJ Section 11**

551 } 553 } 555 }	MOW	Problems of building high; technique of precasting
552 } 554 } 556 } 560 } 562 }	DSIR	Perforated bricks; dry finishing

**Double back to enter AJ Section 12**

534 } 536 }	Jayanbee	New horizontal sliding picture window, also plastic faced metal windows
539	Avery	Danish acoustic "hats" and Dampa acoustic lath
525	Glamorock	New flooring

**Pass into AJ Section 13**

588	Austins of East Ham	Plastic faced window
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**Pass into National Hall Gallery, taking first AJ Section 10**

617	Burgess Products	New range of acoustic tiles
639	Cordar	Two layer perspex dome light
647	TDA	Timber in cross wall construction
650	Beves	HB timber system

**Pass through AJ Section 9 and on into Empire Hall, first floor, AJ Section 8**

782	Universal Asbestos	New range of asbestos pipes
740 } 741 }	Shell-Mex	Advice on oil-fired heating
737	Dexion	New prefabricated timber system
736	Newsum	New prefabricated timber system
701	Ideal Casement	Plastic coated steel window
729	Quicktho	Curtain wall

**Pass into AJ Section 7**

772	Cawood Wharton	New timber pivot window
757	Pilkington Tiles	Prefabricated panels of ceramic wall tiles
707A	Consumers' Association	How to obtain real facts on products
759	Nu-way	Centralized servicing for boilers

**Pass up escalator to second floor of Empire Hall and AJ Section 14**

846 } 847 }	Finnish Foreign Trade Association	Kitchen furniture, wallpapers, locks
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# The Building Exhibition, 1959

Olympia, November 18 to December 2

For those who have not read the earlier introductory pages, we must explain that we have divided up the Exhibition space differently from previous years. We have omitted altogether the areas (which amount to nearly half the total ground floor of the three halls) devoted to contractors' equipment and to woodworking machinery. We have divided the remainder of the Exhibition space into 14 manageable sections. Taking each of these in turn, we supply a plan of the section, a key plan showing where in Olympia the section is, a brief summary of what we think most interesting there, and a list in alphabetical order of nearly all those stands in the section which we know anything about. If you want to find a stand in a hurry, turn to the index (pages 562-568) where *all* stands are listed, note the section number (of course, contractors' equipment and woodworking machinery will have no number), turn up the section and find the stand. Incidentally, you may notice a different address given in the index to that given in the text. This is normally because, in the text, we have chosen (perhaps illogically) to give a London address when one has been supplied.

## Diary of receptions and meetings

<i>Date</i>	<i>Time</i>	<i>Place</i>	<i>Organization</i>
Wed., November 18	2.30 p.m.	Small Conference Room	Finnish Foreign Trade Association. Reception
	2.00 p.m.	Large Conference Room	Joinery Managers' Association. Meeting
Thurs., November 19	11.30 a.m. to 1.00 p.m.; 4.30 p.m. to 6.00 p.m.	Small Conference Room	Institute of Builders. Meeting
Fri., November 20	10.45 a.m.	Large Conference Room	Southern Counties Federation of Building Trades Employers. Meeting
	5.00 p.m.	Large Conference Room	Ministry of Works. Conference: "Services for Tall Buildings"
Sat., November 21	11.30 a.m.	Small Conference Room	National Association of Plumbing Teachers. Meeting
	2.00 p.m.	Large Conference Room	Guild of Bricklayers. Meeting
Tues., November 24	10.00 a.m.	Small Conference Room	National Association of Putty Manufacturers. Meeting
	5.00 p.m.	Small Conference Room	Vitreous Enamel Development Council. Meeting
	All day	Large Conference Room	Architects' Benevolent Society. Meeting
	2.30 p.m.	NFBTE Stand	National Federation of Building Trades Employers. Meeting
Fri., November 27	1.30 p.m.	Small Conference Room	NFBTE Foremen's National Joint Advisory Committee. Meeting
Sat., November 28	2.00 p.m.	Small Conference Room	Incorporated Institute of Certified Carpenters. Meeting
Tues., December 1	11.00 a.m.	Small Conference Room	Society of Estate Clerks of Works. Meeting
Wed., December 2	3.00 p.m.	Large Conference Room	National Joint Council for the Building Industry Apprentices Craft Competitions, Prize-giving

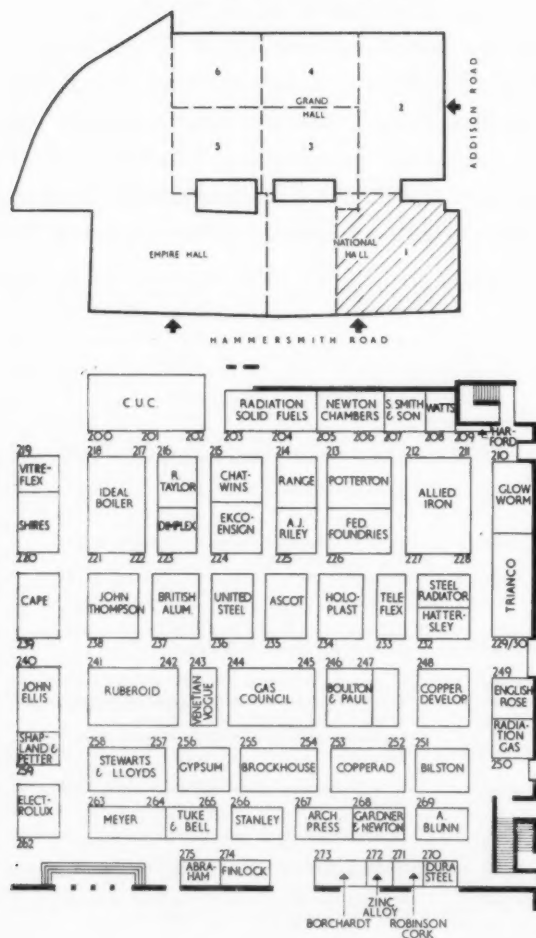
All times are subject to confirmation.

The  
Building  
Exhibition

Olympia 1959  
National Hall  
Section

# 1

For the architect this is probably the most important section at the Exhibition and a large proportion of the stands have been included in the half-day itinerary as worthy of a visit. The reader is asked to refer to the appropriate part of the itinerary for the firms concerned. Ruberoid (241, 242) claim to have produced a water-proofing system over concrete roofs which allows the concrete to "breathe." This is illustrated on their stand. Copperad Ltd. (252, 253) have a new range of unit heaters for industrial and commercial space heating and Ascot (235) a new wall mounted sink heater with gas, water and temperature control. The Copper Development Association (248) are exhibiting a working model of a small bore pipe heating circuit.



275

**Robert Abraham Ltd**

Features HARDROW concrete slates with roofing slates in various sizes suitable for pitches down to 15 deg. The stand also includes Hardrow paving slabs. 43, Bankhall Street, Liverpool 20 (Booth 2048).

211, 212, 228, 227

**Allied Ironfounders Ltd**

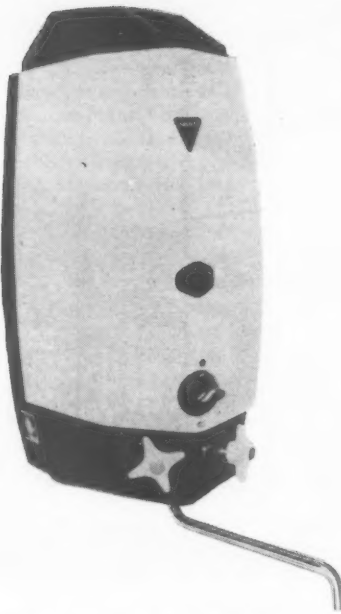
Allied Ironfounders Ltd. are exhibiting two stands. A two-storey stand devotes the upper level to baths and basins including the new Elgin bath and Braemar basin. The lower level will show a wide range of Agamatic oil-fired boilers, solid-fuel boilers, and Rayburn fires and cookers. The new SF20 solid-fuel boiler and the GF85 gravity-feed boiler can be seen. Whole house heating will be demonstrated by Agavector models and an Agamatic oil-fired boiler, the new Rayburn Regent cooker, and the Brook fire will be working. The second stand presents the new De Luxe kitchen. The design and layout of this unit will be of interest to architects. 28, Brook Street, London, W.1 (Grosvenor 8941).

267

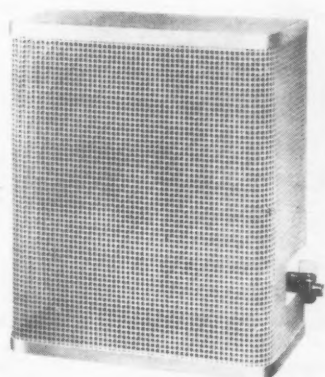
**The Architectural Press**

On the stand of the Architectural Press, publishers of the JOURNAL and the Architectural Review, are several important recently published books, including *The Chapel at Ronchamp* (25s.) written, designed and with a jacket by Le Corbusier; *The Design and Practice of Joinery* (42s.) by John Eastwick-Field and John Stillman; *The Landscape of Power* (16s.) by Sylvia Crowe; *The Functional Tradition in Early Industrial Buildings* (36s.) by J. M. Richards, with photographs by Eric de Maré; *Modern Flats* (63s.) by F. R. S. Yorke and Frederick Gibberd; *Architecture USA* (63s.) by Ian MacCallum; Frank Lloyd Wright's last and probably greatest, book *A Testament* (70s.); *Playgrounds and Recreation Spaces* (63s.) by A. Ledermann and A. Trächsel; *A History of Modern Architecture* (45s.) by Jürgen Joedicke; and the sixth volume of *Architects' Working Details* (25s.) edited by D. A. C. A. Boyne and Lance Wright (of particular interest because all the details illustrated are the work of foreign architects); among recent new editions, thoroughly revised, are *Fifty Modern Bungalows* (3rd edition, 18s. 6d.) edited by Felix Walter; *The Architecture of England* by Frederick Gibberd (3rd edition, 12s. 6d.); *Building Materials* by C. C. Handisyde (3rd edition, 30s.); *New Ways of Building* edited by Eric de Maré (3rd edition, 45s.); *Structure in Building* by W. Fisher Cassie and J. H. Napper (2nd edition, 30s.); *The Modern Factory* by Edward D. Mills (2nd





The Ascot De Luxe water heater.



The gas heater by F. A. Borchardt Ltd. with a metal guard.

edition, 36s.) and *London Night and Day*, edited by Sam Lambert, illustrated by Osbert Lancaster (7th edition, still only 5s.). Also on show are other Architectural Press books, current periodicals and AJ Information Sheets.  
9, Queen Anne's Gate, London, S.W.1. (Whitehall 0611).

235

#### Ascot Gas Water Heaters Ltd

The new ASCOT DE LUXE type G5/2 wall mounted sink heater with gas, water and temperature control, is the main feature of the Ascot stand. A full range of sink and multi-point water heaters is shown.  
255, North Circular Road, London, N.W.10 (Willesden 1234).

251

#### Bilston Foundries Ltd

Bilston Foundries Limited is making its first appearance at Olympia with a selection of their range of bath units and heating appliances. The Princess bath with wide front panel to form a seat and the Kleenair fires suitable for Smoke Control Areas are new and should be seen. The stand is designed by John and Sylvia Reid.  
Highfields, Bilston, Staffs.

269

#### Allan Blunn Ltd

Lightweight resin bonded glass fibre reinforced sheeting is displayed in its many uses, including corrugated roof lights, dome lights, decorative sheeting and composite panels.  
29, Craven Street, London, W.C.2 (Whitehall 8801/2/3).

273

#### F. A. Borchardt Ltd

A full range of principally gas heaters for domestic and commercial use is exhibited. An interesting innovation is a model incorporating a metal guard.  
506, High Road, Chiswick, London, W.4 (Chiswick 4466/7).

246, 247

#### Boulton & Paul Ltd

A new strip reinforcement for brickwork is on display. It comprises 17½ gauge 0.05 diameter tension wires and 20 gauge spacing wires.  
14, Stanhope Gate, London, W.1 (Grosvenor 4521).

237

#### British Aluminium Company Limited

A new product on display is Lokroll, a self-supporting roofing sheet with integral batten roll and gutter. The recently developed Rigidall Seamwall wall cladding is also on view as well as examples of vitreous enamelling on aluminium, anodising for interior and exterior use, tread and kick plates, roller shutters, venetian blinds and a range of patterned sheet.  
Norfolk House, St. James's Square, S.W.1 (Whitehall 7868).

254/5

#### Brockhouse Steel Structures Ltd

A prominent feature of the stand is a range of Modernfold expanding walls and doors. Also displayed are the Sun-Aire venetian blinds with S-section slats to prevent glare.  
25, Hanover Square, London, W.1 (Mayfair 8783).

239

#### Cape Building Products Ltd

This firm has designed its stand on the theme of colour in architecture and makes particular use of its Asbestolux products and Uxbridge Flint bricks for this purpose. Material on view for the first time includes nylon screw caps, butyl fillers, polyester coated asbestolux and p.v.c. coated asbestolux.  
Cowley Bridge Works, Uxbridge, Middlesex (Uxbridge 4313).

215

#### Chatwins Ltd

Recently marketed and on display at this stand is a new domestic boiler for low cost housing schemes or conversions. Also displayed is a new thermostatic boiler which fulfils the need for automatic control within the lower price bracket.  
Market & Phoenix Foundries, Tipton, Staffs (Tipton 1677/8).

200, 201, 202

#### Coal Utilisation Council

This is primarily an information centre for the public to display the possibilities of solid fuel for heating appliances and hot water. The display includes a small bore pipe central heating system.  
3, Upper Belgrave Street, London, S.W.1 (Sloane 9116).

252, 253

#### Copperad Ltd

New products exhibited include a range of unit heaters for industrial and commercial space heating. The Basic and Downstream types are principally for factories and garages; the Enclosed unit for retail stores, assembly halls, schools and churches. Another new product is the Unipump 77 which is claimed to generate a higher head, give a larger volume of water circulation and operate more quietly than any other pump of comparable type and price.  
Copperad Works, Poyle Road, Colnbrook, Slough, Bucks (Colnbrook 2521).

248

#### Copper Development Association

Copper tube is on display in the form of a working model of a small-bore heating circuit. Copper in sheet and strip form is demonstrated by an example of copper cladding on the facing of a large modern building. As usual a full range of CDA technical publications is displayed.  
55, South Audley Street, London W.1 (Grosvenor 8811).

section

I

continued

223

**Dimplex Limited**

Displayed for the first time are two ranges of all-in-one-piece pressed steel water radiators. One range is finished in high quality stove enamel in nine colours and the other is primer finished for installations where site painting is required. The electric heating appliances on show include permanently oil-filled thermostatically controlled electric radiators, domestic and commercial infra-red heaters, portable infra-red fires, oil-filled electric towel rails, skirting convectors and industrial and commercial overhead radiant heaters.

17, Shepherd Street, London, W.1  
(Grosvenor 1025/1254).

270

**Durasteel Limited**

This imaginatively designed stand by Dewar Mills Associates displays steel cored asbestos corrugated roofing sheets, steel-cored asbestos flat sheets, fire-resisting doors and a new fire-resisting ducting.

Oldfield Lane, Greenford, Middlesex  
(Waxlow 1051/2).

224

**Ekco-Ensign Electric Ltd**

The introduction of the Super Slim range of fluorescent fittings is noteworthy. The basic unit is 2½ in. wide and 3½ in. deep inclusive of top channel starter switch and tube. The 391 series with reeded Diakon diffuser and black polystyrene end plates will be of particular interest. The Essex range of industrial and commercial lighting fittings are also displayed. The reflectors and casing have a standard finish of white stoved enamel or Miracoat anti-corrosion finish to order. In addition to other lighting products, the full colour range of fluorescent tubes is on show.

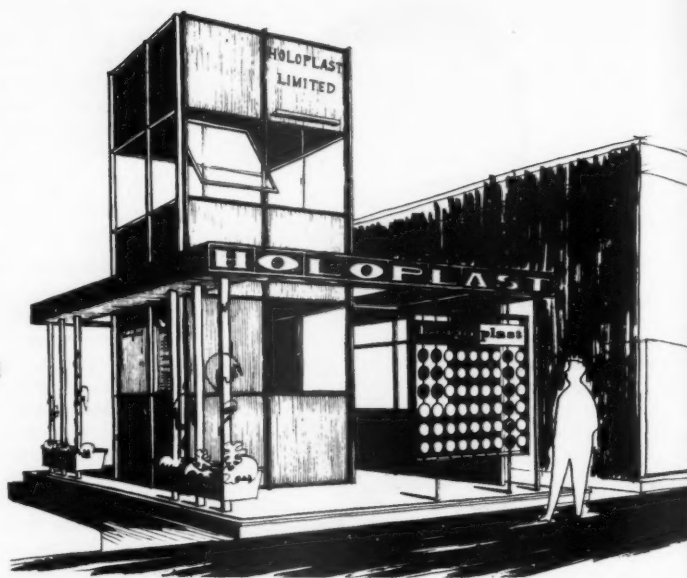
Preston House, 45 Essex Street, Strand,  
W.C.2 (City 8951).

262

**Electrolux Ltd**

The stand features the Electrolux model M.27 built-in refrigerator, designed for operation by either electricity or gas.

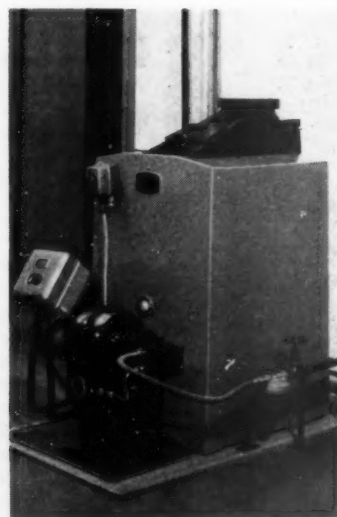
153, Regent Street, London, W.1  
(Regent 7252).



*Perspective of the Holoplast stand.*



*The Copperad space heater.*



*The Potterton oil-fired boiler.*

## 240

**John Ellis and Sons Ltd**

The "Reconstructed Stone," "Exposed Aggregate Finish" and "Mosaic Finish" cladding panels will be of particular interest. The stand includes a variety of cement finishes and paints and a wide range of accessories for external work including paving, coal bunkers, flower boxes, litter bins, bollards and fence posts.  
21, New Walk, Leicester (Leicester 56682).

## 249

**English Rose Kitchens Ltd**

A new combined heat pump and refrigerator unit will be shown by English Rose Kitchens Ltd. It consists of a stove-enamelled Zintec steel cabinet approximately 2 ft. x 2 ft. 6 in. x 5 ft. 6 in. high. It aims to provide 6 cu. ft. of refrigeration space, adequate hot water for bathroom and kitchen and air cooling for kitchen when required. Access is gained to the outside atmosphere, the main source of heat, through a 24 in. x 4 in. wall duct. The unit runs on a.c. 200/250 volts single phase, giving a loading of 2,800 watts and requiring a 13-amp 3-pin plug connection. The unit should be a most interesting innovation.

229, Regent Street, W.1 (Regent 2435).

## 226

**Federated Foundries Ltd**

In addition to a wide range of SOFONO convector fires and boilers, Federated Foundries will be showing a display of FF multi-branch plumbing fittings. This includes FF JOINTS, FF SPUN and SAND-CAST PIPES, a single stack plumbing installation for 4-in pipes and both 5-in and 6-in multi-branch fittings.

4, Stratford Place, W.1. (Mayfair 5054).

## 274

**Finlock Gutters Ltd**

The wide selection of Finlock gutters for pitched or flat roofs will be on show. The hot-rubberised-bitumen and aluminium lining for gutters will be of particular interest. Hollow concrete and solid concrete blocks will also be on show.

Finlock House, Frant Road, Tunbridge Wells, Kent (T. Wells 3396).

## 268

**G & B Gardner & Newton Ltd**

The principal feature amongst the NEWDOME series is the Newdome Liner. This makes shuttering unnecessary and incorporates a top channel that accommodates a p.v.c. tube to eliminate draughts. Newdomes include the one-piece glass roof lights, continuous barrel roof lights, conventional lanterns with opening sides and the Colt ventilated roof lights.

PO Box 45, 17 George Street, St. Helens, Lancs (St. Helens 3042).

## 244, 245

**The Gas Council**

Small bore pipe central heating and warmed air systems together with examples of modern flueing systems are the main features.

1, Grosvenor Place, London, S.W.1 (Sloane 4554).

## 210

**Glow-Worm Boilers Ltd**

The full range of this firm's products is displayed including solid fuel, oil and gas models and a high output back boiler set. All models are making their first appearance at the Building Exhibition, being either new appliances or completely redesigned versions of previous models.

47, Hatton Garden, London, E.C.1 (Chancery 6971).

## 232

**Hattersley Brothers Limited**

This firm is showing their new range of Vulcan Automatic gas-fired boilers. Vulcan No. 1 (33,000 B.t.u.) has been on the market some time: No. 2 (50,000 B.t.u.) has just gone into production and No. 3 (probably 75,000 B.t.u.) is on show for the first time.

Temple Chambers, Temple Avenue, London, E.C.4 (Fleet Street 0807).

## 234

**Holoplast Ltd**

The principal exhibit is the Holoplast curtain walling system which is featured in a two-storey tower on the stand, which makes use of decorative laminated plastic structural panels.

105, Piccadilly, London, W.1 (Grosvenor 6080).

## 217, 218

**Ideal Boilers and Radiators Limited**

This firm has two interests: sanitary ware and heating equipment. New on the sanitary ware side are a matching set including a lavatory basin, a w.c. pan and a bidet, a new Handspray wash basin for schools and a wall hung closet bowl. New on the heating side is the Elite range of solid fuel and oil fired boilers.

Ideal House, Great Marlborough Street, London, W.1 (Gerrard 8686).

## 263, 264

**Montague L. Meyer Limited**

Last Building Exhibition this firm of timber importers introduced Glamorock, a rendering compounded in part of natural rock. It has been much used since then and new techniques for applying it will be demonstrated on the stand.

14, Buckingham Street, Adelphi, London, W.C.2 (Trafalgar 7766).

## 205, 206

**Newton Chambers and Company Limited**

The most interesting exhibit on this stand is the new Centramatic 50, a small oil-fired boiler (50,000 B.t.u. rating) designed to stand in the kitchen and completely automatic—a quality

which is unusual in a boiler of this size. There is also a comparatively new solid fuel fire with underfloor draught and a large back boiler.

Grand Buildings, Trafalgar Square, London, W.C.2 (Trafalgar 5865).

## 278, 279

**The North British Rubber Co Ltd**

The emphasis is on rubber hoses for use in the building industry—air, water, suction, oxy-acetylene, sand and gravel.

62/64, Horseferry Road, London, S.W.1. (Abbey 7135).

## 213

**Thomas Potterton Ltd**

The newest appliance on show is the BOA series oil-fired boiler, manufactured in three sizes. This is a pressure jet boiler suitable for providing hot water supply and central heating to houses of from four to eight bedrooms. Whilst it is not recommended for installation in the kitchen it has the virtue of being a very small unit for the job it does. Cavendish Works, Buckhold Road, Wandsworth, London, S.W.18 (Vandyke 4521).

## 203, 204

**Radiation Group Sales Limited. (Solid Fuels Division)****Bratt Colbran Limited**

This year the Radiation stand is to be mainly devoted to central heating. The range of Ductair gas and oil fired warm air central heating units is not new, but there have been a number of developments. The first of these is a gas fired 20,000 B.t.u. version for fixing in the bottom half of an airing cupboard, but there will also be 22,000, 45,000 and 85,000 B.t.u. versions in both gas and oil. Another new product is a 60,000 B.t.u. Ascot wall mounted gas boiler for use with small bore central heating.

10, Mortimer Street, London, W.1 (Museum 9411).

## 250

**Radiation Group Sales Limited (Gas Division)**

This stand should be well worth a visit. It includes a new built-in cooker, a range of convector fires coloured to BS 2660, new balanced flue gas circulators (that is the sort that take their air from, and discharge it into, the outside air) and a sink water heater with much improved controls.

255, North Circular Road, Neasden, London, N.W.10 (Willesden 1234).

## 214

**Range Boilers Limited**

This firm specializes in a type of copper indirect cylinder which needs only one cold feed tank for both primary and secondary circuits. This year one such cylinder will be shown incorporated in a small bore central heating installation.

Cuffley, Potters Bar, Middlesex (Cuffley 3229).

section

1

continued

271

**Robinson Bros. Cork Growers Limited**

This old established firm of cork growers claims to be the first to offer cork tiles in colour, both plain and marbled.

54/62, Regent Street, London, W.1 (Gerrard 3965-8).

225

**A J Riley and Son Limited**

This firm manufacture the Hoval Boiler, a boiler which can be fired by gas, solid fuel or oil and which is characterized by combining the central heating boiler and the domestic hot water cylinder under the one casing. This year they have a new and what promises to be a very interesting development: the inclusion in an oil fired version of an incinerator for consuming rubbish.

Victoria Works, Batley, Yorkshire.

*The Ruberoid stand, designed by Brian Spearpoint.*

241, 242

**The Ruberoid Company Limited**

This should be a worthwhile stand on account both of the display technique used (the designer of the stand is Brian Spearpoint) and of the products shown. The firm claims to have overcome the difficulty of laying a water-proofing system over concrete while allowing the concrete to "breathe." This is done by laying a layer of granules on the underside.

Rubervent is the trade name. Another interesting product (though not new) is Ruberoid Copper Roofing in which 42 s.w.g. copper is laid in cold bitumen over glass fibre based felt. Commonwealth House, 1-19, New Oxford Street, London, W.C.1 (Holborn 9501).

220

**Shires & Co (London) Ltd**

The feature of this stand is the Uni-Lynx w.c. suite which is a close-coupled suite combining a plastic cistern with a pottery wash-down pan. Greenbottom Works, Guiseley, Yorkshire (Guiseley 1300).

257, 258

**Stewarts & Lloyds Ltd**

The emphasis of this display is on tubes for structural work and these are shown by photographs and examples. The products of three subsidiary companies—Tubewrights Ltd., who make bridges, jibs, towers, gantries and materials handling equipment and The Victaulic Company who make scaffolding tubes, and low and high density polythene tubes and John Russell and Co. Ltd., who make plumber's foundry products—are also exhibited.

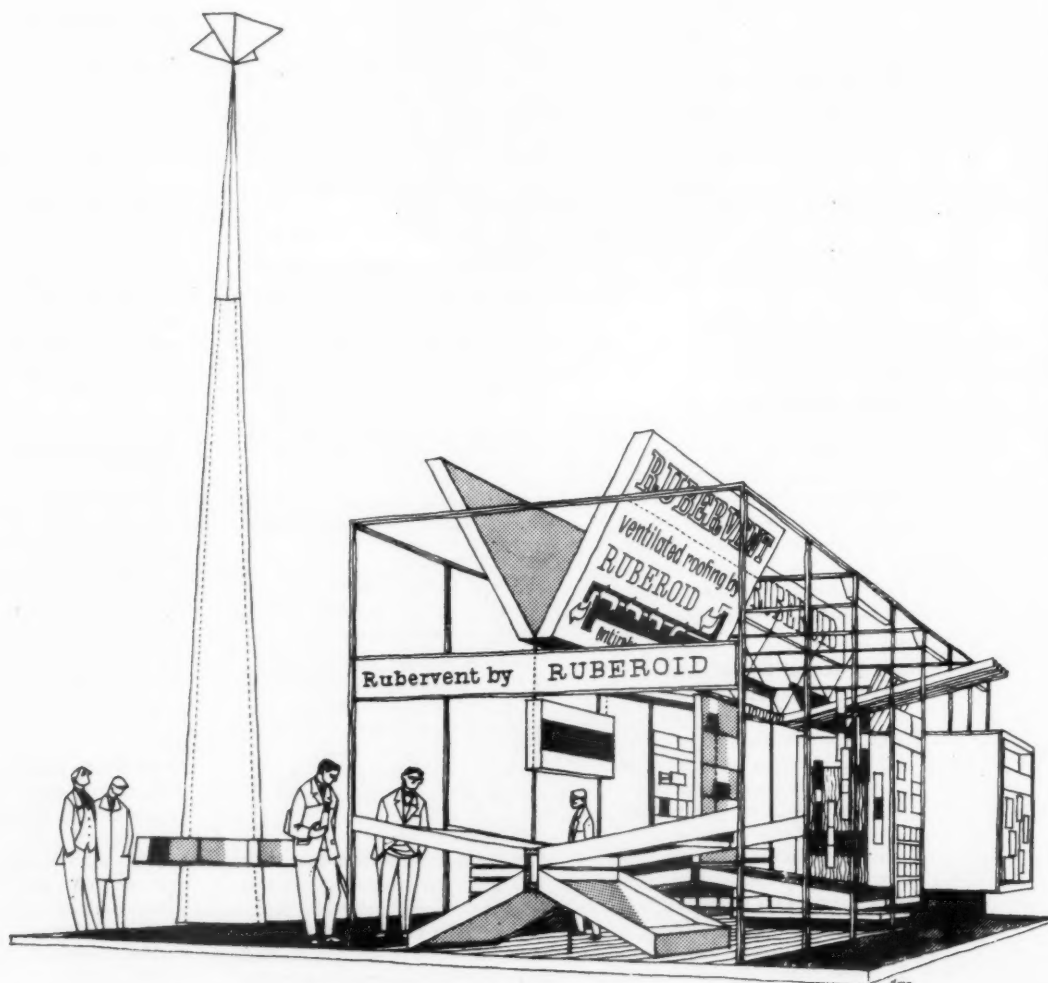
Brook House, Upper Brook Street, London W.1 (Mayfair 9861).

216

**Robert Taylor & Co (Ironfounder Sales) Ltd**

A number of solid-fuel boilers and heating stoves is exhibited as well as a new oil fired boiler, the Pacesetter 15, designed by Neville Conder, F.R.I.B.A., in conjunction with the company's technical staff.

170/172, Victoria Street, London, S.W.1 (Victoria 3972/3).





233

**Teleflex Products Limited**

This firm who manufacture remote control window gear, have a new type of Swan-neck gear designed to cut down the inner projection of the swan neck bend.

*Basildon, Essex (Basildon 22861).*

238

**John Thompson Beacon Windows Limited**

This firm manufactures products ranging from metal windows to oil-fired heaters, with tradesmen's delivery hatches and industrial flooring in between. But the important exhibits on this stand are the windows and curtain walling. New (and comparatively new) products include horizontal sliding aluminium windows, a steel casement window coated with an impervious layer of cellulose butyrate (which, it is claimed, needs no painting) and a steel window sheathed with plastic.

*Wolverhampton, Staffordshire (Bilston 41121).*

229, 230

**Trianco Ltd**

The stand is devoted to a display of oil fired and solid fuel boilers with capacities ranging from 50,000 to 200,000 B.t.u.'s. There is a new fully enclosed boiler for domestic use on display with a capacity of 100,000 B.t.u.'s.

*Imber Court, East Molesey, Surrey (Emberbrook 3300).*

265

**Tuke and Bell Limited**

Sewage treatment plant is to be seen on this stand.

*1, Lincoln's Inn Fields, London, W.C.2 (Chancery 8095).*

*The John Thompson Beacon horizontal sliding window.*

23

**The United Steel Companies Limited**

Two subsidiaries are exhibiting on this stand: United Steel Structural Company Limited, who contribute the stand itself (which promises to be very fancy) and Samuel Fox & Company Limited. The latter are showing their stainless steel curtain walling.

*17, Westbourne Road, Sheffield 10.*

243

**Venetian Vogue Limited**

New developments here include the use of Terylene "invisible" tapes which are only  $\frac{1}{16}$  in. wide the use of a 35 m.m. slat which gives a blind in between the standard 2-in. slat and the very small 1-in. slat used in caravans: also a new blind for sky lights.

*240-242, Bath Road, Slough, Bucks (Slough 24595).*

219

**Vitreflex Ltd**

A complete range of their acid-resisting vitreous-enamelled rainwater goods is exhibited. Bus shelters, litter bins and similar items, made by the same process, are shown for the first time.

*448, Grand Buildings, Trafalgar Square, London, W.C.2 (Whitehall 4523).*

208

**Watts Automatic Boilers**

These manufacturers of boilers (fired by both oil and solid fuel) are showing the first of a new series of totally enclosed domestic oil-fired models.

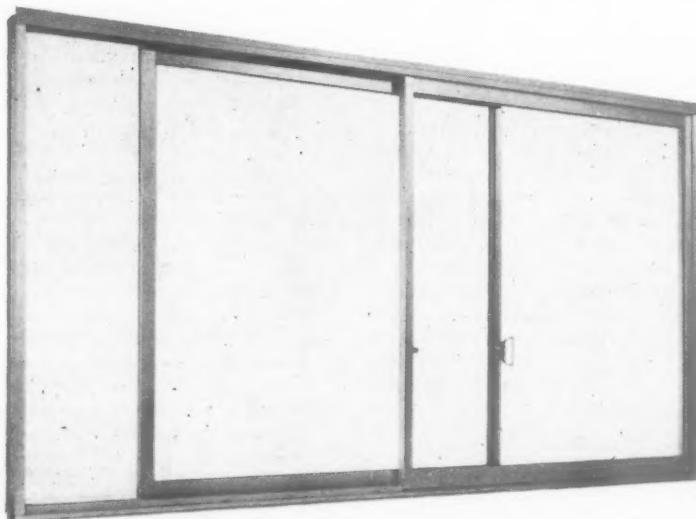
*High Street, Lydney, Gloucestershire. (Lydney 392).*

272

**Zinc Alloy Rust-Proofing Company Limited**

Information can be obtained here on the uses and cost of each kind of zinc finish.

*Minerva Road, London, N.W.10 (Elgar 6611).*



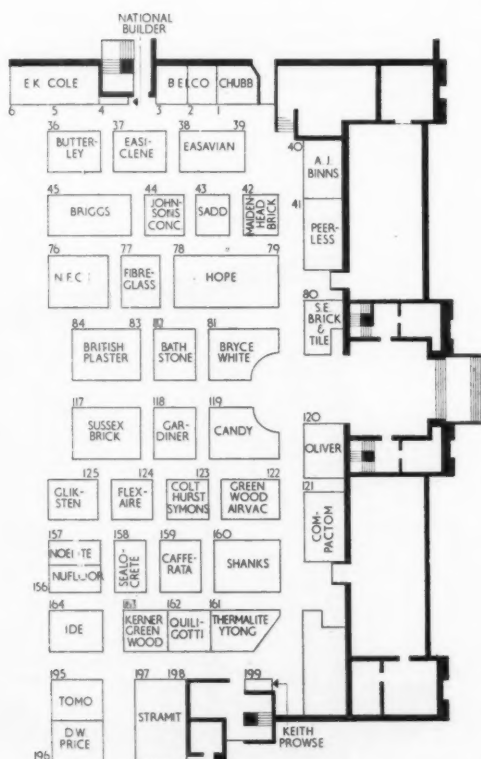
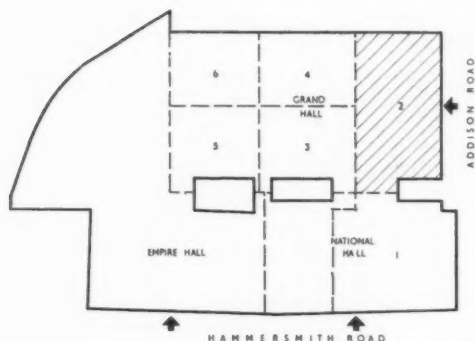
The  
Building  
Exhibition

Olympia 1959  
Grand Hall  
Section

# 2

There is quite a lot to be seen in this section. E. K. Cole Ltd. (5, 6), who produce the Ekco heater equipment, have a new range of forced-air unit heaters. The Dryad K42R lever handle chosen for a 1959 Design Centre Award is exhibited on the stand of A. J. Binns Ltd. (40).

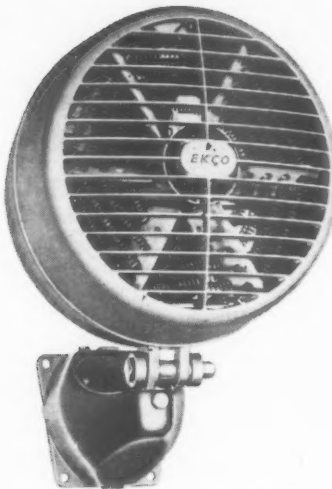
Casserata & Co. Ltd. (159) have on show a new lightweight roof constructed in steel framing and gypsum concrete. A stand which should not be missed is that of Gardiner Sons & Co. Ltd. (118) which displays an interesting approach to standardisation in staircase design and construction. Other stands which the energetic visitor should see are Tomo (195) for a new picture window, Thermalite (161) for a new reinforced lightweight concrete beam, Hope (78, 79) for a curtain wall system, Esavian (38, 39) for a new movable partition and the National Federation of Clay Industries (76).



**82**  
**The Bath & Portland Stone Firms Ltd**  
The emphasis of this stand is given to the use of masonry, the textured finish that can be obtained on stone and machine patterning.  
*Abbey Yard, Bath (Bath 3248).*

**40**  
**A J Binns Ltd**  
A. J. Binns are displaying a wide selection of architectural ironmongery including the Dryad K 42 R lever handle chosen for a 1959 Design Centre Award. Also a system of all-welded tubular cloakroom equipment with hat and coat hooks and lockers suitable for schools, factories and stores, will be on view.  
*29, Store Street, London, W.C.1 (Museum 5802).*

**45**  
**William Briggs & Sons**  
The latest techniques in the use of BITUMETAL metal deck roofs, and the ways in which interstitial condensation is counteracted, will be featured in the stand. An exhibit will show how Bitumetal conforms with both the requirements of the new Thermal Insulation Act and Byelaws regarding fire hazard in roofs. Also, a range of multi-layer bitumin roofing will be shown.  
*Vauxhall Grove, London, S.W.8 (Reliance 5961).*



The 3-kW Ekco forced-air unit heater.

### 83, 84

#### British Plaster Board Ltd

VARITILES, a new coloured plastic-covered ceiling tile system with an LCC class 1 Spread of Flame Certificate, and decorative plastic-faced dry partitioning up to 4 ft. x 12 ft. in size will be shown for the first time. The stand will include a Technical Advice Bureau to advise on internal partitions, internal linings and finishes.  
*Bath House, 82, Piccadilly, London, W.1 (Grosvenor 8311).*

### 159

#### Cafferata & Co Ltd

Architects who are looking for a light-weight roof which can be quickly erected and will provide a high fire resistance should look at the model of the Pyrodek gypsum concrete roof deck at this stand. It consists of steel T's tack welded to the purlins and incorporating permanent formboard onto which is placed galvanised reinforcing fabric. The Pyrodek gypsum concrete is pumped into place to form a monolithic reinforced slab with a minimum thickness of 2 in.  
*Newark-on-Trent, Nottinghamshire (Newark 2060).*

### 119

#### Candy & Co Ltd

The central feature of this stand is a display of fireplaces with various facings—tile, faience, mosaic and slate.  
*Heathfield, Newton Abbot, South Devon (Bovey Tracey 3141/2).*

### 123

#### Colthurst Symons & Co Ltd

Hand made clay roof tiles are the subject of this display, and include the popular Double Roman tile, No. 6 Pan tiles, No. 14 Reynardo tile, Bambino interlocking tile and the Spanish over and under type.  
*Bridgwater, Somerset (Bridgwater 2226-7).*

### 121

#### Compactom Ltd

A new product is Compactom Miniwall, a prefabricated timber-framed, hardboard-lined partition system with patent metal fixing clips to the floor.  
*Oxgate Lane, Cricklewood, London, N.W.2 (Gladstone 6633).*

### 5, 6

#### E. K. Cole Ltd.

The new range of EKCO unit heaters which operate on the forced-air principle are being shown for the first time. They are designed to provide large volumes of warm air for extensive space heating. A wide selection of convection heaters and radiant fires will be shown including the Radiant Glass Thermopanel, in which the 1 kW element is fused directly to the back of an armourplate glass panel. The EKCO Thermostat heater which is designed to build up a reserve of heat during the "off-peak" tariff periods can also be seen.

The EKCO W M Series wall mounting convectors were reviewed by Brian Grant in the *AJ* for March 3, 1959.  
*Ekco Works, Southend-on-Sea, Essex. (Southend 49491).*

### 38, 39

#### Esavian Ltd

The Esavian sliding folding window and loggia door in hardwood, an aluminium loggia door, and the new ESAFOLD room divider will be the features of this year's stand. The Esavian sliding folding windows and loggia door will be shown adapted for a semi-circular window. It consists of 2 ft. 6 in. units with top guide and bottom runner sliding gear. The ESAFOLD room divider is constructed of 1-in. blockboard, top hung and floor guide, 8 ft. high and the leaves are based on a 2-ft. module. A photographic display will show other Esavian installations.  
*Esavian Works, Stevenage, Hertfordshire (Stevenage 500).*

### 77

#### Fibreglass Ltd

CROWN glass wool insulation will be the centre of interest on the stand. It will be presented in four main categories. Crown 75 and Crown Interfill are flexible bonded mats for heat insulation. Crown 100 and Crown 200 are in roll and slab form for sound absorption. Fibreglass will also be showing a range of products including moulded pipe insulation, acoustic tiles, ceiling boards, and a translucent corrugated roofing sheet moulded in fibreglass reinforced plastics.  
*Ravenhead, St. Helens, Lancs (St. Helens 4224).*

### 118

#### Gardiner Sons & Co Ltd

In principle "Universal Stairs," the feature of this year's exhibit, is an approach to the standardization of staircases of significance. Three flights of stairs show how the standard pressed metal steps can be adapted to varying angles of slope. A variety of metal finishes will also be displayed.  
*Broad Plain, Bristol (Bristol 20011).*

### 125

#### J Gliksten & Son Ltd

The stand is constructed of a variety of flush doors, insulation boards, hardwoods, plywoods and decorative veneers. The most notable feature is the SILKSTONE flush door. This is a hardboard faced unit, sealed and primed at the factory and presented at the site ready for painting. Types of plywood suitable for concrete shuttering will also be of interest.  
*Carpenters Road, Stratford, London, E15 (Amhurst 3300).*

### 122

#### Greenwood's and Airvac Ventilating Co Ltd

The stand will feature a wide range of ventilating equipment. The "Powered and Natural Ventilation" section, a selection of roof extractors and louvred ventilators, includes three new roof extractors. The "Ventilation plus Daylight" section shows dome and continuous rooflight ventilators, Skyvent for flat glazed roof lighting, and dome upstands and linings. "Ventilation for Houses and Flats" consists of a variety of extract fans and both window and wall ventilators. One of these, the Mechavent Roofline ventilator, was reviewed by Brian Grant in *AJ* for February 19, 1959.  
*Beacon House, Kingsway, WC2 (Chancery 8135).*

### 78, 79

#### Henry Hope and Sons Limited

*Pièce de résistance* on this stand is a life size piece of aluminium curtain walling with sun breakers which the firm is making for an insurance company in Manila. This, of course, is a one-off job: new products include a new louvre which opens 15 deg. past the horizontal and, therefore, directs fresh air downwards and the "spinner" window, a new contribution to the problem of the window in the tall, air-conditioned building. This is clearly an important stand and should not be missed.  
*Smethwick, Birmingham (Smethwick 0891).*

### 164

#### T and W Ide Limited

This firm of glass manufacturers are showing among other things their continuous curved rooflights and a coloured glass cladding.  
*Glasshouse Fields, Ratcliff, London, E.1 (Stepney Green 2333).*

## section

2

continued

44

**Johnson's Reinforced Concrete Engineering Co Ltd**

Models and photographs display mesh brickwork and concrete reinforcement. Films are shown daily to demonstrate a new system of hooking and hinging to eliminate side laps in slab reinforcing mesh. An associate company, The Benfix Steel Co. Ltd., is displaying photographs, prefabricated joists and brackets.

*Artillery House, Artillery Row, London, S.W.1 (Abbey 2648/9/10).*

163

**Kerner-Greenwood and Company Limited**

On show on this stand is the Pudlo range of cement waterproofers, cement paints and concrete additives; also a fire cement for installing boilers, grates, etc.

*King's Lynn, Norfolk (King's Lynn 2293).*

76

**The National Federation of Clay Industries**

This stand has been designed by Handisyde and Taylor, A/A.R.L.B.A., to demonstrate the advantages and some applications of bricks and other clay products.

*30, Gordon Street, London, W.C.1 (Euston 2568).*

157

**Noelite Ltd**

The stand is devoted to samples of Noelite paving and walling.

*Noelite Works, Borough Green, Kent (Borough Green 2686).*

41

**Peerless Built-in Furniture Ltd**

This firm specialises in packaged furniture, that is to say cupboards, dressing tables and so on are manufactured in the factory, then packed in flat containers for transport to the site where they are assembled. Their range of products covers all types.

*8 and 9, Berkeley Street, W.1 (Grosvenor 4824).*

162

**A Quilgotti & Co Ltd**

This stand is concerned with floor finishes and displays terrazzo tiles, random marble tiles, cement based tiles, hydraulically pressed concrete paving flags and many others.

*Milton Street, Plymouth Grove, Manchester (Ardwick 4611).*

158

**Sealocrete Products Ltd**

The products displayed include cement and concrete additives to provide water-proofing, oil and grease proofing, and rapid hardening and also joint sealers and many others.

*Atlantic Works, Hythe Road, London, N.W.10 (Ladbroke 0015).*

160

**Shanks & Co Ltd**

The usual comprehensive range of sanitary fittings of all types from domestic lavatory basins to specialized hospital equipment is on show.

A feature of interest is a section of a syphonic water closet in operation.

*81, New Bond Street, London, W.1 (Mayfair 6812).*

43

**John Sadd & Sons Ltd**

This firm are timber suppliers and their stand incorporates a range of timbers used for various purposes—flooring, stairs, doors and windows.

*Maldon, Essex (Maldon 131.)*

197, 198

**Stramit Boards Ltd**

Two products are exhibited for the first time. One is a lightweight corrugated asbestos cement sheeting, approximately  $\frac{7}{32}$  in. thick and having  $\frac{1}{4}$ -in. deep corrugations. It is manufactured in a standard size 5 ft. long and 4 ft.  $1\frac{1}{2}$  in. wide and is intended as a weatherproof covering to Stramit roof decking. The second new product is a roof insulation slab, showerproof on one side and having a white vinyl facing on the other. The vinyl facing provides a vapour barrier conforming to the recommendations of the National Building Studies (Research Paper No. 23).

*Packet Boat Dock, Cowley Peachey, Uxbridge, Middlesex (West Drayton 3751).*

117

**The Sussex & Dorking Brick Co's Ltd**

This firm manufactured the new perforated brick, developed by BRS to replace two-skin cavity brickwork.

An example of this brick is displayed together with modular ceramic panels and structural facing bricks. This is a very important exhibit.

*Graylands, Horsham, Sussex (Horsham 2351-8).*

161

**Thermalite Ytong Limited**

The manufacturers of the celebrated lightweight load-bearing insulating blocks are showing some reinforced roof units which are now under development. The firm is a subsidiary of John Laing & Son Limited.

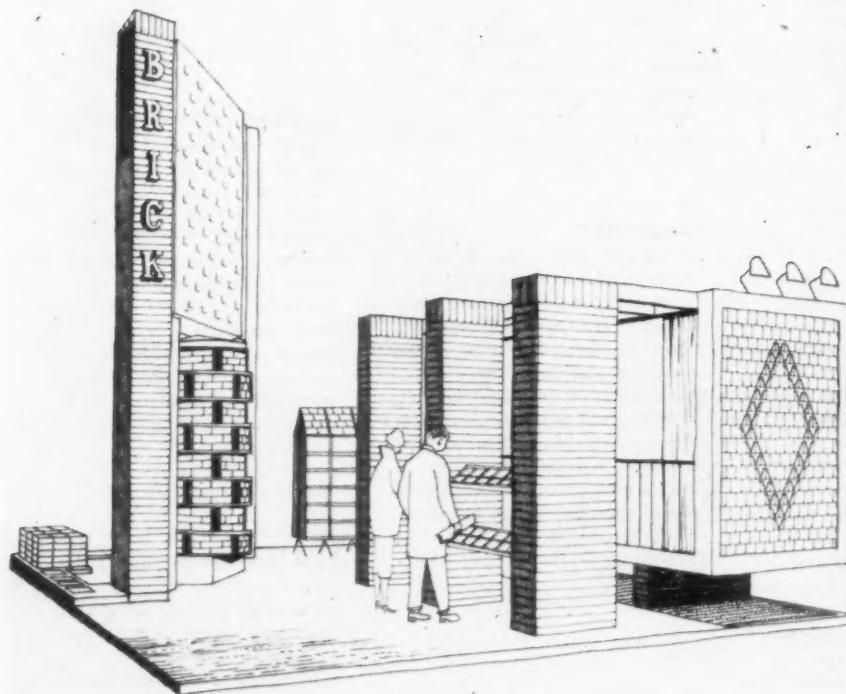
*Hams Hall, Lea Marston, Sutton Coldfield, Warwickshire.*

195

**Tomo Trading Company Limited**

This interesting firm is showing a new picture window 5 ft.  $11\frac{1}{2}$  in. by 4 ft.  $0\frac{1}{2}$  in. to BS 644 which, they claim, is the first of this type to be purchasable from stock. Also some door and window fittings from Sweden, some of which are in a new nylon plastic.

*Packet Boat Dock, Cowley Peachey, Uxbridge, Middlesex (West Drayton 3751).*



*The National Federation of Clay Industries stand designed by Handisyde & Taylor.*

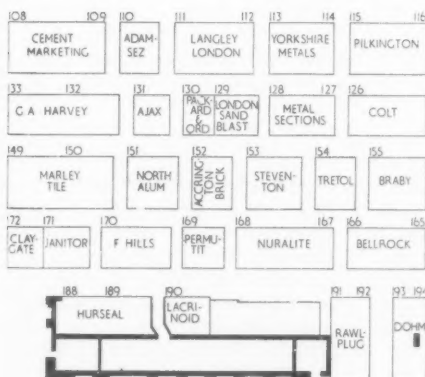
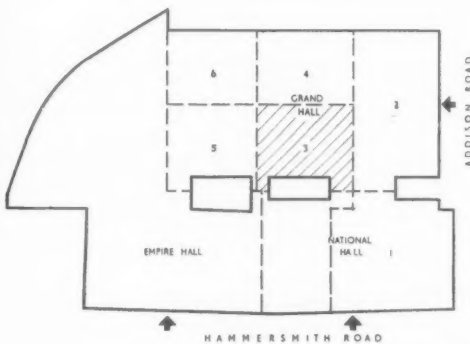


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Section

# 3

Ajax (131) and Braby (155) for curtain walling, Janitor (171) for oil-fired boilers and Metal Sections (127, 128) for a new range of steel and composite beams should be visited. F. Hills & Sons Ltd. (170) are showing a new timber surface treatment for sealing the wood and on the Hurseal Heating Group stand (188, 189) there is a wide variety of products ranging from weatherstripping to a new Danish acoustic ceiling which will be of interest to many. Adamsez (110) with a long tradition of good design, are showing a new range of pedestal basins and their stand should not be missed. At the Cement Marketing Co. Ltd. stand (108, 109) is a model of the prize winning design for a single storey reinforced concrete factory, together with samples of exposed aggregate facings.



152

**Accrington Brick & Tile Co Ltd**

This stand consists of numerous panels of brickwork showing a selection of colours and textures. It includes panels of 2-in brickwork and a new range of facings used decoratively. *Accrington (Accrington 2684).*

110

**Adamsez Ltd**

In addition to the existing range of Lotus designs, the new Leaf-Lotus and Stem pedestal basin is displayed. The Spiral Lotus developed for domestic use, a Lotus rimless closet and "an entirely new conception of bidet" will be of interest. New Lotus hospital designs are also shown.

75, Victoria Street, Westminster, S.W.1  
(Abbey 5846.8).



The new Adamsez pedestal basin.

131

**Ajax Architectural Products Ltd**

The most important exhibit on this stand is the Glass Span Curtain Wall. It consists of structural rear sections and decorative facing sections, adaptable to any module. JAXITE facing materials are also on display.

Kangley Bridge Road, London, S.E.26  
(Sydenham 7061-3).

165, 166

**Bellrock Gypsum Industries Ltd**

The stand designed by Alan Diprose, A.R.I.B.A., includes Bellrock load-bearing panels, a new plasterboard, a recent addition to the White Heather plasters in the form of a multi-purpose plaster, and a photographic display illustrating the manufacture and use of Bellrock products.

200, Westminster Bridge Road, S.E.1  
(Waterloo 3461.5).

## section

3

continued

155

**Frederick Braby & Co Ltd**

Braby products include curtain walling, metal windows, metal partitions, pressed steel stairs, metal storage equipment and furniture, gutters and pipes, rooflights, ducting, cable plates and troughing and many others, of which examples of the first five mentioned above are displayed. 352/364, Euston Road, London N.W.1 (Euston 3456).

108, 109

**The Cement Marketing Company Ltd**

For anyone interested in the use of exposed aggregate slabs and slabs with coloured glass set in a concrete matrix this stand should be worth a visit. Also on display is a model of the design awarded first prize in the Company's recent competition for a single-storey reinforced-concrete factory. Portland House, Tothill Street, London S.W.1 (Abbey 3456).

126

**Colt Ventilation Ltd**

This company is celebrating 25 years of continuous service to the industry. Included in their display is a new range of oil-fired air heaters, based on similar principles to the aero-jet engine and claimed by the manufacturers to provide economy and efficiency in operation together with a low initial cost.

Surbiton, Surrey (Elmbridge 6511).

193-194

**Dohm Limited**

The exhibit covers a wide field from Vermiculite for plastering, roof and floor screeds and loose fill thermal insulation to transformer plugs. 167, Victoria Street, London, S.W.1 (Victoria 1832).

132, 133

**G A Harvey and Company (London) Limited**

This stand is divided into two parts. One part is devoted to the firm's builders' merchants' goods; cisterns, gutters, ventilators, and the like. On the other is shown Harvey Office Partitioning which makes use of plastic coated steel panels. Woolwich Road, London, S.E.7 (Greenwich 3233).

170

**F Mills and Sons Limited**

This firm is showing a new timber surface treatment which "seals the wood surface in depth with its own lignins," also a new range of melaninic faced toilet cubicles. The stand is designed by Philip R. Middleton and Partner.

Sopers Road, Cuffley, Potters Bar, Middlesex (Cuffley 2824/5).

188, 189

**The Hursel Heating Group**

This stand is occupied jointly by Hursel Limited and Gulf Radiators Limited who make heating equipment and also by Sealdraught Limited who make weatherstripping and Dampa Acoustics Limited who make aluminium acoustic laths. The two heating firms in this Group have a steady turn-over of new models which are characterised by being cheap and efficient, but not always good looking. Among comparatively new products are combined towel rails and radiators, 11-in. high skirting heaters and a range of packaged oil-fired boilers. The Dampa acoustic ceiling is of Danish origin, but has been available over here for about a year. It is exceedingly neat.

229, Regent Street, London, W.1 (Regent 1051/6).

171

**Janitor Boilers Ltd**

The full range of solid-fuel and oil-fired boilers is represented, including the Janitor Junior (35,000 B.t.u.'s) and the A2 (80,000 B.t.u.'s), which are operated on anthracite, the Oil Junior (55,000 B.t.u.'s), the O1 (80,000 B.t.u.'s) and the O2 (125,000 B.t.u.'s) which are oil-fired and the No. 3 warm air convector cabinet of 25,000 B.t.u.'s capacity. A new oil-fired boiler of 40,000 B.t.u.'s output, available in a wide range of colours, is displayed for the first time. Vale Road, Camberley, Surrey (Camberley 2471).

190

**Lacrinoid Products Limited**

This firm is showing a new range of plastic cabinet handles and door grips which incorporate some of the Waverite patterns, so that they will match surfaces clad in Waverite veneers. Gidea Park, Essex (Hornchurch 52525).

111, 112

**Langley London Limited**

This stand shows what is almost certainly the most extensive collection of clay products in the Exhibition. This is not a field in which startling developments are to be expected, but among the less familiar exhibits are black and brown CDN glazed interlocking pantiles, vitrified ceramic stairtread nosing tiles and 3D relief wall tiles.

163-167, Borough High Street, London, S.E.1 (Hop 4444).

149, 150

**Marley Tile Company**

Of recent years, this firm has put on the market a number of useful and very diverse products. New (or fairly new) products this year include a folding door, vinyl rainwater goods, vinyl stairtread, acoustic pyramids and—the most recent of all—a new range of 12-in. by 6-in. vinyl asbestos wall tiles.

Sevenoaks, Kent (Sevenoaks 55255).

127, 128

**Metal Sections Limited**

This firm, who manufacture cold rolled structural sections, always have something worth seeing. New this year are woodfilled intermediate joists, Metsec Macomber Allspan steel joists; Metsec Macomber V-lock structural system (a structural system which uses rigid connections without bolts, rivets or welding and is, therefore, quick to put up) and interlocking roof and wall sheet and a lightweight metal ducting. Broadwell Road, Oldbury, Birmingham (Birmingham Broadwell 1541).

151

**Northern Aluminium Co Ltd**

Once again Snaprib is on view. There is an interesting display of sandwich wall construction and recent developments in decorative finishes are shown such as vitreous enamel on aluminium. Banbury, Oxfordshire (Banbury 2242).

191, 192

**The Rawlplug Company Limited**

On this stand is a very comprehensive display of mechanical fixing.

Rawlplug House, Cromwell Road, London, S.W.7 (Fremantle 8111).

167, 168

**The Nuralite Co., Ltd**

Normally used as a flat roofing material Nuralite is also on show on this occasion in a new role. Its composition of bitumen and asbestos has been used as a protective coating to rolled steel structural sections exposed to highly corrosive conditions. Whitehall Place, Gravesend, Kent (Gravesend 6176/8).

115

**Pilkington Brothers Ltd**

Pilkingtons are displaying their wide range of glass, from armourplate to hollow glass blocks of which there are several new patterns. This is a well designed stand on which material is intelligently displayed and architects should not miss it.

St. Helens, Lancashire (St. Helens 4001).

154

**Tretol Limited**

The new product on this stand is Tretol Multicolour, a polychromatic decorative finish for internal use which gives a high solids coating of up to 5 mils thickness at one spraying. The Hyde, London, N.W.9 (Colindale 7223).

113, 114

**Yorkshire Imperial Metals Limited**

This firm of pipe manufacturers (who work both in metal and in plastics) have a number of new and/or interesting exhibits. Among them are copper tubes designed for small bore central heating.

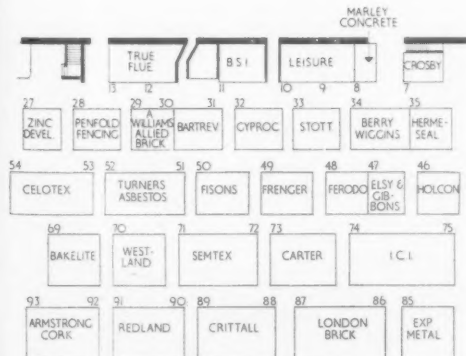
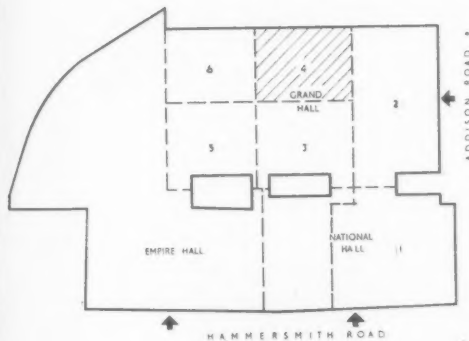
PO Box No. 166, Leeds, Yorkshire (Leeds 7-2222).

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# 4

The Zinc Development Association (27) have a very well designed stand, but quite apart from this their display is worth visiting. This shows the prize-winning entries for the zinc eaves gutter competition and many examples of zinc used as cappings, flashings and trim. There is an interesting display of stair tread sections on the Ferodo stand (48) and on the Semtex stand (71, 72), a subsidiary company of Dunlop Rubber, there is a new vinyl/asbestos wall covering. Carter Tiles (73), like Pilkingtons, have produced a system of prefabricated wall tile panels, in this instance designed for use in curtain wall systems, and Crittalls (88, 89) are showing a new curtain walling.



29

**Allied Brick and Tile Works Ltd**

Special quarry tile cills and new 6 in. x 3-in. glazed external facings are shown by the Allied Brick and Tile Works Ltd., with a selection of pressed and hand moulded bricks. 6/7 Queen St., London, E.C.4 (City 2725).

92, 93

**Armstrong Cork Co Ltd**

Promises to introduce "a unique line in Vinyl floorings" the ACCOFLEX range has been increased from 14 to 28 colours including some metallic shades. The qualities and finish of CUSHIONSTONE, TRAVERTONE and CORKOUSTIC will be of interest. The foamed plastic insulation for piping ARMAFLEX is also shown. Bush House, Aldwych, London, W.C.2 (Covent Garden 1101).

31

**Bartrev Board Co Ltd**

The BARTREV and AVTREV particle boards with a variety of wood veneer and decorative and hardwearing finishes is shown. Henrietta House, 9, Henrietta Place, W.1 (Langham 8041/8).

34

**Berry Wiggins & Co Ltd**

The theme of this stand is "Bitumen in Building." A wide range of products including AQUASEAL waterproofing, TENSULAC bitumen paints, bitumen adhesives, bitumen plastic compounds, and cold-applied bitumen emulsion, is displayed. Field House, Brems Buildings, Fetter Lane, E.C.4 (Chancery 4499).

73

**The Carter Group of Companies**

The design of the Carter stand was the subject of an architectural competition earlier this year won by Nigel Lewis, a student of Cardiff. On display are a number of new products including glazed mosaic and textured mosaic tiles, a textured 9-in. by 9-in. wall tile and some hand-painted designs for ceramic wall tiles. An interesting feature, new to the Carter stand, is the use of ceramic tiles in prefabricated panels for incorporation as cladding in a curtain wall system. The tiles are fixed into an aluminium frame and backed with Asbestolux with a cavity between which is filled with light-weight thermal insulating material. The aluminium frame is designed to fit into most of the popular curtain wall systems on the market. Poole, Dorset (Poole 125).

53, 54

**Celotex Ltd**

Most of the Celotex building boards are displayed including insulating board, acoustic tiles and hardboard. A newcomer is a patent system of metal fixing for suspended ceilings. North Circular Road, Stonebridge Park, London N.W.10 (Elgar 5717).

section

4

continued

88, 89

**The Crittall Manufacturing Co Ltd**

This stand, designed by Neville Conder and Michael Cain, F/A.R.I.B.A., shows a number of new products including a new aluminium double glazed window which is reversible and includes a venetian blind between the two sheets of glass, a metal core plastic-covered window and a horizontally sliding window in which one half slides and the other half is fixed.

210, High Holborn, London, W.C.1 (Holborn 6612)

47

**Elsy & Gibbons Ltd**

For use where electricity is the prime source of heat, the new range of electric/solid fuel combinations for water heating makes its debut. Haverlock Street, South Shields, Co. Durham (South Shields 2586/7).

46

**Ferodo**

The stand, designed by Keith Cunningham, A.R.C.A., shows the wide range of Ferodo stairtreads. The stairtreads are available in aluminium, silver bronze or manganese bronze channel with non-slip woven fabric or moulded material inserts.

Chapel-en-le-Frith, Stockport, Cheshire (Chapel-en-le-Frith 2520)

Model of the Ferodo stand, designed by Keith Cunningham.

50

**Fisons Ltd**

The Burwell white gault facing bricks, primrose gault facings and flushed gault facings are displayed, with a photographic record of brickmaking at the Burwell Works.

Harvest House, Felixstowe, Suffolk (Felixstowe 1441).

49

**Frenger Ceilings Ltd**

The theme of the Frenger stand is "freedom of choice." The object is to demonstrate that the Frenger heated ceiling can be used in conjunction with other ceiling tiles. Amongst the exhibits is a display which shows how the Frenger tile is made.

7/12, Tavistock Square, London, W.C.1 (Euston 6084).

32

**Gyproc Products Ltd**

GYPSTELE and PLAXSTELE suspended ceilings, roof and wall linings, GYPTONE acoustic tiles, GYPROC plank for encasing steel beams and columns and GYPKLITH wood wool building slabs are on show: nothing new but all quite interesting.

82, Piccadilly, London, W.1 (Grosvenor 4617)

35

**Hermesal Acoustics Ltd**

This is a firm of acoustic engineers who also market acoustic materials, roof insulants and weatherstripping.

4, Park Lane, London, W.1 (Grosvenor 4324).

74, 75

**Imperial Chemical Industries Ltd**

It is not possible to do justice to these comprehensive materials suppliers in a short note. Six divisions are represented on the stand. Though not new, the most interesting among the metals division's exhibits is Tube-in-strip, both in copper and in aluminium. Plastics Division show rigid p.v.c. sheet for downpipes, guttering, window surrounds and column cladding, also a perspex bath. ICI (Hyde) Limited show a semi-rigid p.v.c. foil with paper backing, to be used as a facing material for prefabricated panels. IC House, Millbank, London, S.W.1 (Victoria 4444).

86, 87

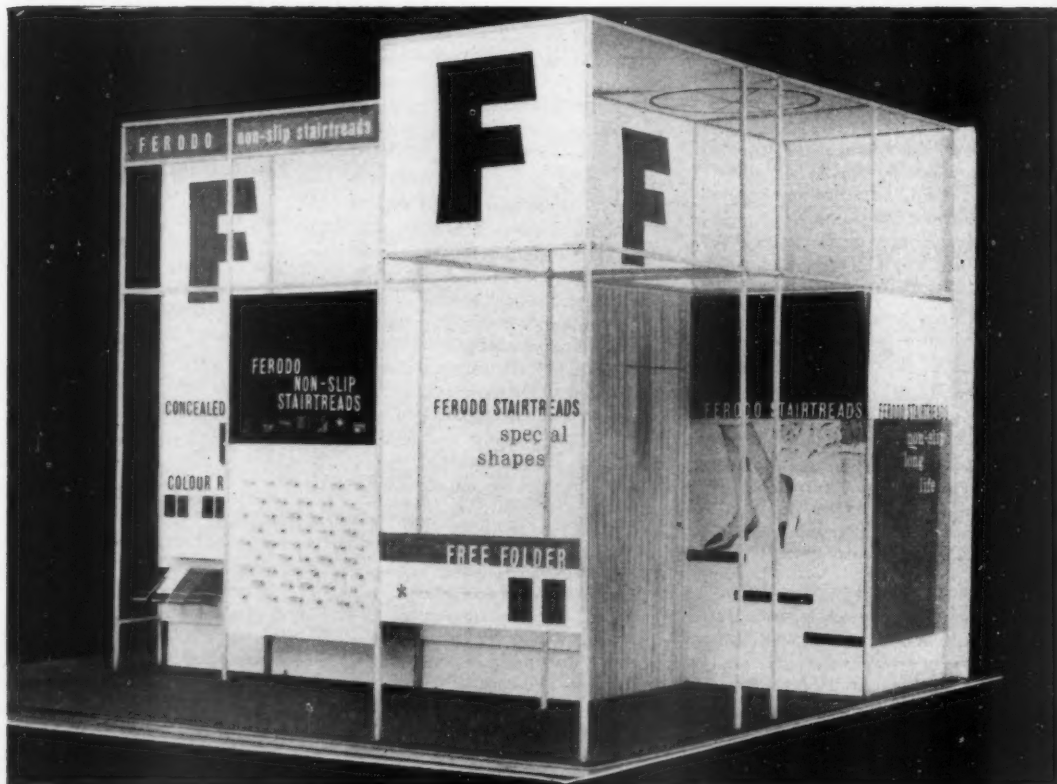
**London Brick Co Ltd**

The most likely exhibit on this stand is the display of cellular bricks. Information is available on the Company's recent demonstration of the virtues of clay blocks as against concrete blocks for internal skins of cavity walls. The stand is designed by John R. Harris, assisted by L. S. Davis. Africa House, Kingsway, London W.C.2 (Holborn 8282).

8

**Marley Concrete Ltd**

This stand is mainly photographic: illustrating precast concrete products ranging from poles for clothes lines to prefabricated buildings. Peasmarsh, Guildford, Surrey (Guildford 62986)





28

**Penfold Fencing & Engineering Ltd.**

Samples of chain link fencing accompany photographs of recent contracts.

*Kinnaird House, Pall Mall East, London, S.W.1 (Whitehall 0701).*

90, 91

**Redland Tiles Limited**

Comparatively new products on this stand are the Stonewold Interlocking Slate (introduced at the last Building Exhibition) and the Redland 52 English Pantile. The stand was designed by John A. Gosschalk. *Castle Gate, Castlefield Road, Reigate, Surrey (Reigate 4781).*

71, 72

**Semtex Ltd**

Displayed for the first time are a vinyl/asbestos wall covering, a rubber material floor covering with a simulated tweed design, a synthetic anhydrite screeding, a non-slip flexible rubber and resinous compound for use on steel, timber or any firm base, a lightweight waterproof brush applied covering for weatherdecking of small craft and a new surfacing material as a substitute for timber decks comprising a Neoprene latex with expanded hard rubber insulating slab and reinforcement.

*Semtex House, 19/20, Berners Street, London, W.1 (Langham 0401).*

12, 13

**True Flue Limited**

For all concerned in tall buildings to be heated by gas or solid fuel this stand is a "must," if only because this is the only firm making Shunt flues and SE-Ducts. Also to be seen are ventilating ducts made on the Shunt principle and some patent refuse chutes.

*Convactor House, Acacia Road, London, N.W.8.*

51, 52

**Turners Asbestos Cement Company Limited**

There is little on this stand that could be called "new." Asbestos-cement insulated double roof cladding with coloured weathering surfaces should be seen. Also a new range of textured asbestos cement flat sheets.

*Trafford Park, Manchester, 17 (Trafford Park 2181).*

33

**James Stott and Co (Engineers) Ltd**

Stotts of Oldham are specialists in the field of catering equipment and their stand is devoted to photographs of kitchens together with plans and technical information.

*Vernon Works, Oldham, Lancashire.*

70

**Westland Engineers Limited**

This firm of metal door manufacturers have two new exhibits on show: one of the domestic up and over type and the other for openings of greater height which folds upwards.

*8, The Sanctuary, London, S.W.1 (Abbey 4922).*

29, 30

**Dennis M Williams Limited**

This firm of mosaic manufacturers and importers are showing photographic blow-ups of the "first really large buildings in this country to be clad in mosaic"; also John Piper's work at Harlow. Swedish and Italian porcelain and ceramic mosaic and Czechoslovak glass mosaic will all be on show.

*43, Thames Street, Kingston-upon-Thames, Surrey (Kingston 9998).*

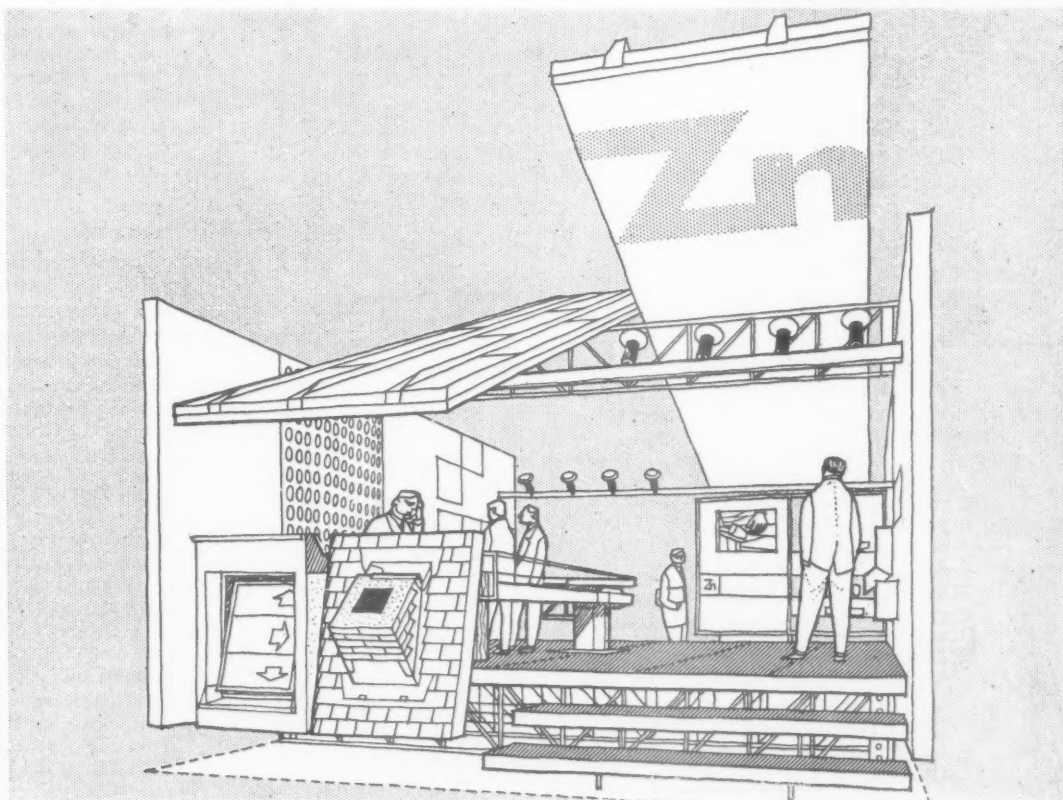
27

**Zinc Development Association**

This stand (designed by Gordon Cullen) should have much interest for architects. Methods of jointing, the prize-winning entries for the zinc eaves gutter competition and many examples of zinc used as cappings, flashings and general trim.

*34, Berkeley Square, London, W.1 (Grosvenor 6636).*

*The Zinc Development Association stand, designed by Gordon Cullen.*



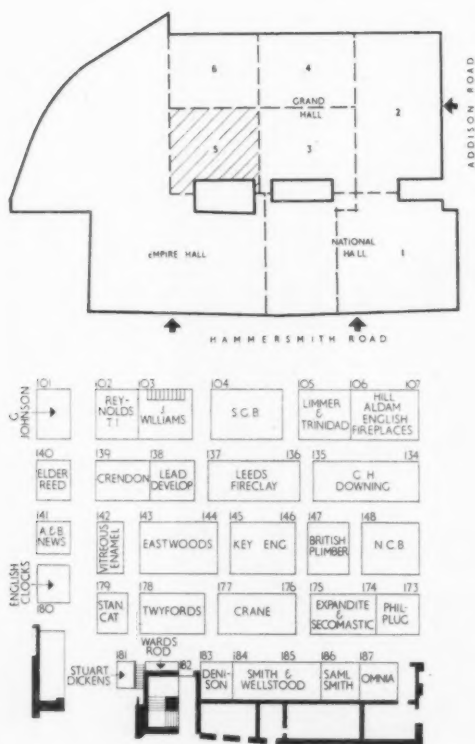
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Section

# 5

The Vitreous Enamel Development Council (142) concentrates on the use of this material in curtain walling and, since curtain walls are an almost unavoidable element in today's architecture, their stand should be seen.

Twyford Ltd. (178) are old faithfuls as far as architects are concerned, as are The Limmer & Trinidad Lake Asphalt Co. Ltd. (105) and their stands should be visited. We also recommend Reynolds Aluminium (102), who are amongst the most sophisticated of the aluminium manufacturers, and the Lead Development Association (138).



147

**British Plimber Ltd**

The wide use of Plimber boarding and the variety of finishes that can be applied are demonstrated.

Plimber 45 is now produced up to 4 ft x 16 ft and special grades are shown with high fire resistance and immunity to termite attack.

Rainham, Essex (Rainham 5262).

176, 177

**Crane Ltd**

A full range of boilers from 30,000 to 1,615,000 B.t.u. per hour output are displayed. They are of all types and the Whitehall range for large buildings include solid fuel—hand or automatically stoked—and oil burning. Also displayed are skirting heaters and concealed radiators.

15/16 Red Lion Court, Fleet Street, London, E.C.4 (Fleet St. 6511).

181

**Stuart B Dickens Limited**

This firm of concrete additive manufacturers which is a subsidiary of John Laing & Son Limited are showing photographs of how to use their products. The most interesting of their exhibits, however, is the Fisher Joint, a plastic extrusion for forming joints in concrete roads and runways. Manor Way, Boreham Wood, Herts (Elstree 2211).

143, 144

**Eastwoods Ltd**

The main theme of the stand is the manufacture and delivery of heavy building materials including cement, bricks, aggregates, concrete products and roofing tiles. The "Roofing Contracts" section includes the new GRECON fixing system for lightweight materials.

Eastwood House, City Road, London, E.C.1 (Clerkenwell 2040).

180

**English Clock Systems**

An extensive range of both standard and specially manufactured wall clocks is on display. Details of time keeping systems for industrial and public buildings are available at the stand.

179/185, Great Portland Street, London, W.1 (Langham 7226).

107

**English Fireplaces (Galleon) Ltd**

A wide selection of fireplaces and hearths in conjunction with various solid fuel appliances is on display. 216, Red Lion Road, Tolworth, Surbiton, Surrey (Elmsbridge 0191/4).

175

**Expandite Ltd**

Sealing compounds, jointing and waterproofing materials are the subjects of this stand.

Chase Road, London, N.W.10 (Elgar 4321).

101

**G Johnson Brothers Ltd**

Apart from their usual range of balustrades, bronze doors, grilles and nameplates and also the traditional type of shopfront moulding in bronze, stainless steel and aluminium on timber cores, this firm is exhibiting its patent louvre window and an entirely new range of p.v.c. coated steel and aluminium section shopfront mouldings. *Cornwall Road, London, N.15 (Stamford Hill 6601).*

138

**Lead Development Association**

Staff is available on this stand to answer questions about lead and its uses. The stand itself was designed by John Pinckheard, A.R.I.B.A. *18, Adam Street, London, W.C.2 (Whitehall 4175).*



*Stand for the Lead Development Association designed by John Pinckheard.*

136, 137

**The Leeds Fireclay Co Ltd**

The most interesting exhibits on this stand are a close coupled syphonic w.c. suite and a one-piece urinal. *Leeds House, Cavendish Place, London, W.1 (Langham 3511).*

105

**The Limmer and Trinidad Lake Asphalt Co Ltd**

In addition to applications of asphalt, this firm is showing built-up felt roofing, metal decking, asphalt floor tiles, vinyl and cork floors, bituminous paints and precast concrete products. *Trinidad Lake House, 232-242, Vauxhall Bridge Road, London, S.W.1 (Tate Gallery 4388).*

148

**National Coal Board**

When the mines were nationalized, they owned a number of brickyards which were nationalized too. This stand is, therefore, mainly devoted to bricks; but also to be seen are the coal by-products: Synthaprufe, the liquid waterproofer, Presotim, a decorative wood preservative and Presomet, a quick drying bituminous black paint. *Hobart House, Grosvenor Place, London, S.W.1 (Sloane 3401).*

187

**Omnia Constructions Ltd**

On show on this stand is a full-scale section of the Omnia part *in-situ*, part precast concrete floor. Also the Supira chimney terminal which is not new, but is interesting all the same. *121, London Wall, London, E.C.2 (Monarch 2272).*

173

**Philplug Ltd**

This firm specialises in cold caulking compounds and fixing devices. *Chase Road, London, N.W.10 (Elgar 4321).*

140

**A Elder Reed & Co Ltd**

This firm is concerned with flooring and wall finishes and is exhibiting glass mosaic, ceramic mosaic, magnesite, marble chippings and cubes and many others. *103/105, Battersea High Street, London, S.W.11 (Battersea 6652).*

102

**Reynolds TI Aluminium Limited**

This stand, belonging to the most sophisticated of the aluminium manufacturers, is worth visiting. It is mainly devoted to the uses of aluminium extrusions in building. *10, Buckingham Place, London, S.W.1 (Victoria 0902).*

104

**Scaffolding (Great Britain) Ltd**

The range of SGB equipment for sale or hire throughout the country is displayed on this stand where, also, technical advice may be received on the scope and nature of SGB contract services. *Mitcham, Surrey (Mitcham 3400).*

174

**Secomastic Ltd**

This stand is devoted to two subjects—joint sealing and the protection of ferrous metals from corrosion. A range of gun-applied sealants is exhibited all of which have the common property of being non-setting. A new product is Secoflex which is a bituminous sealant for very wide joints and for use in underwater joints. *Western Road, Bracknell, Berkshire (Bracknell 910).*

186

**Samuel Smith and Sons Ltd**

A number of solid fuel appliances are displayed which include combination grates, inlet open fires, convector fires, free standing openable stoves and continuous burning fires. *Beehive Foundry, Smethwick 41, Staffordshire (Smethwick 1251).*

184, 185

**Smith & Wellstood Ltd**

A range of cooking, space and water heating appliances is on show, including a new oil-operated water heater with forced draught burner, and a new convector fire with boiler for domestic hot water supply. *63, Conduit Street, London, W.1 (Regent 7791)*

178

**Twyford Ltd**

This old established firm has a number of new products to show. In the domestic field there are two new matching washtubs and w.c.s, one in vitreous china and the other in earthenware. For schools there are three new washbasins and a new w.c. and for hospitals there is a bath for babies and a new washbasin in enamelled fireclay. *Africa House, Kingsway, London, W.C.2 (Holborn 8606).*

142

**Vitreous Enamel Development Council**

This stand is mainly concerned with curtain walling and the stand itself (designed by Armstrong, Smith and Critchlow) incorporates some saw-tooth curtain walling originally developed by the Belgian licensees of Williams and Williams for the Russian pavilion at Brussels. Also there is a furnace on the stand to show exactly how vitreous enamelling is done. *28, Welbeck Street, London, W.1 (Hunter 2237).*

103

**John Williams and Sons (Cardiff) Limited**

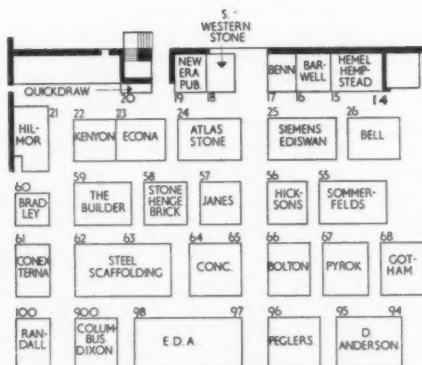
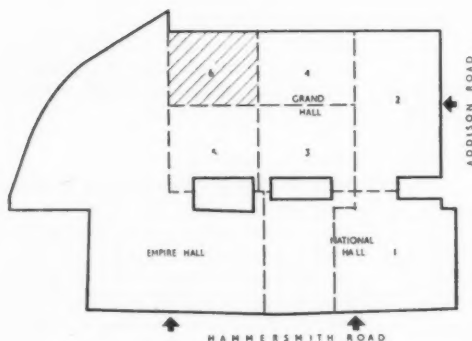
This firm of window manufacturers is giving a very complete display both of their curtain walling system and of their metal windows. To be seen here are most, if not all, of the new window dodges, most of these to meet the problems of tall buildings: the reversible picture window, double glazing, horizontal sliding for inside cleaning, internal glazing, and so on. The stand itself is designed by Philip Laurence of Verner Rees, Laurence and Mitchell, assisted by A. Rosco. *Bank Chambers, Finsbury Park, London, N.4 (Archway 1622).*

The  
Building  
Exhibition

Olympia 1959  
Grand Hall  
Section

# 6

We have already recommended the Electrical Development Association (97, 98), H. C. Janes Ltd. (57) and William Kenyon & Sons (22) in our half-day itinerary. But this is quite a full section from the architect's viewpoint and a number of other stands are really worth looking at if time permits. Concrete Ltd. (64, 65) is a case in point as there is a fairly comprehensive display in models, drawings and photographs of pre-cast, prestressed concrete products. Despite their name the Bolton Gate Co. Ltd. (66) is showing a range of doors, some of which are power operated. The Hemel Hempstead Engineering Co. Ltd. (14, 15) have a solid fuel burner on show, which may be fitted to nearly all types of boiler. The Pyrok stand (67) also is of some interest and for those who cannot resist displays of plumbing fittings the Sanbra Ltd. and Conex-Terna Ltd. stand (61) is worth visiting.



## 24

**The Atlas Stone Co Ltd**

Two new products shown are a reinforced concrete precast glazing unit which, when jointed in cement mortar, forms a self-supporting glazed wall; and a pressed concrete building block with a partially recessed face. *Artillery House, Artillery Row, London, S.W.1 (Abbey 3081).*

## 26

**A Bell & Co Ltd**

A selection of marble, slate and ceramic faience fireplaces is on display with the Bell SUPAHEAT underfloor draught fires, back boilers and convector units. The stand also includes the BELCO chlorinator. *Kingsthorpe, Northampton (Kingsthorpe 2540).*

## 66

**Bolton Gate Co Ltd**

This stand is entirely constructed of various types of doors, a number being power-driven. The GLYDOVER garage door in widths up to 16 ft will be of particular interest. A selection of lift doors and folding partitions, and a photo-cell operated glass door is also shown. *Waterloo Street, Bolton, Lancs. (Bolton 4240)*

## 64, 65

**Concrete Ltd**

Well worth a visit, this stand, designed by Stillman and Eastwick-Field, includes in its design elements of Bison prestressed floors and purlin roofs. The whole range of Bison products from hollow prestressed pre-cast floors to prestressed piles and sheet piles is displayed either by photographs, drawings or full-size and scale sections of actual units. Of particular interest are the hollow plank composite floors, pre-cast cross wall frame structures, system of cast-in ducting and prestressed bridge beams which are on show for the first time. Also displayed is a testing machine which applies one and a half times the design load simultaneously to the following: (a) a composite plank floor with the plank reaching short of the bearing; (b) a hollow composite floor supported by an *in-situ* beam within the floor thickness.

*16, Northumberland Avenue, London, W.C.2 (Whitehall 5504).*

## 97-98

**Electrical Development Association**

Using examples of all-electric houses, the Association is presenting "Floor Warming with Cheaper Electricity" and "Standards for Adequacy of Wiring" as the two main themes of this year's exhibit. In addition the accommodation needed for a wide range of electrical kitchen equipment is studied. *2, Savoy Hill, London, W.C.2 (Temple Bar 9434).*



68

**The Gotham Co Ltd**

This stand is an information centre on the qualities and characteristics of gypsum plasters, including the Carlite range of lightweight pre-mixed plasters.

*Bath House, 82, Piccadilly, London, W.1 (Grosvenor 2488).*

14, 15

**Hemel Hempstead Engineering Co Ltd**

The main feature of this stand is the Suxe solid-fuel burner which can be fitted to nearly all types of sectional and tubular boilers within the range 200,000 to 1½ m. B.T.U.s per hour. The makers claim that the burner, which can use a wide variety of solid fuels, all of the smokeless type, operates with such high efficiency that it can recoup its first cost in fuel saving within two years.

*Cupids Green Foundry, Hemel Hempstead, Hertfordshire (Boxmoor 3630).*

56

**Hickson's Timber Impregnation Co (GB) Ltd**

To be seen on this stand are timbers pressure impregnated with Tanalith (proof against insects and decay) and with Pyrolith (proof against flames as well); also a flame-proofed fibre insulation board.

*Castleford, Yorkshire.*

57

**H C Janes Ltd**

Demonstrating the adaptability of MODOLITE curtain walling, windows and panels. Coloured transparencies and photographs of completed contracts are on view.

*Barton, Beds.*

*A perspective of the Pyrok stand designed by John H. D. Madin, A.R.I.B.A.*

22

**William Kenyon and Sons (MetaMica) Ltd**

New on this stand is a cellular acoustic tile marketed under the name Kilnoise. A large surface is on show to enable visitors to appreciate the "faint swirl pattern" which they provide. Also to be seen are models showing the use of mineral wool in floating floor constructions and electric underfloor heating.

*50, Bloomsbury Street, London, W.C.1 (Museum 6363)*

96

**Peglers Ltd**

This firm claims to be the largest brassworks in the British Commonwealth and amongst new items displayed are sink mixers and sink fittings and a push-button operated gas storage water heater.

*Prestex House, Marshalsea Road, London, S.E.1 (Hop 2461).*

67

**Pyrok Ltd**

An interesting stand designed by John H. D. Madin, A.R.I.B.A., has as its theme the world wide distribution of Pyrok. Photographs show applications of Pyrok and samples of the colour range and textures of the many finishes are on display.

*401/404, Montrose Avenue, Trading Estate, Slough, Buckinghamshire (Slough 24061/5).*

61

**Sanbra Ltd and Conex-Terna Ltd**

This exhibit is one arranged jointly by Sanbra Ltd. and Conex-Terna Ltd. and covers a wide range of sanitary fittings and other plumbing materials. These include the Easilyn range of taps, mixers and combination lavatory basin and bidet fittings as well as bath, shower and sink mixers, etc.

*16, Berkeley Street, London, W.1 (Mayfair 0231).*

25

**Siemens Edison Swan Ltd**

A new product on display for the first time is a system of lightweight steel trunking to carry lighting fittings, cables or conduits in commercial or industrial buildings. Another feature is a planned house wiring display illustrating the correct and incorrect ways of connecting typical electrical equipment in the average home.

*155, Charing Cross Road, London, W.C.2 (Gerrard 8660).*

55

**Sommerfelds Ltd**

This firm are suppliers of all forms of structural steel though the emphasis of the exhibit is on their lattice beam. The two-storey stand has been designed to show the use of the lattice beam for floors and roof in conjunction with tubular steel columns.

*167, Victoria Street, London, S.W.1 (Victoria 1000).*

62, 63

**Steel Scaffolding Co Ltd**

The stand has been designed to illustrate the various products of this company—tubular steel scaffolding, welded steel lattice beams and expanded metal.

*82, Victoria Street, London, S.W.1 (Victoria 7453).*

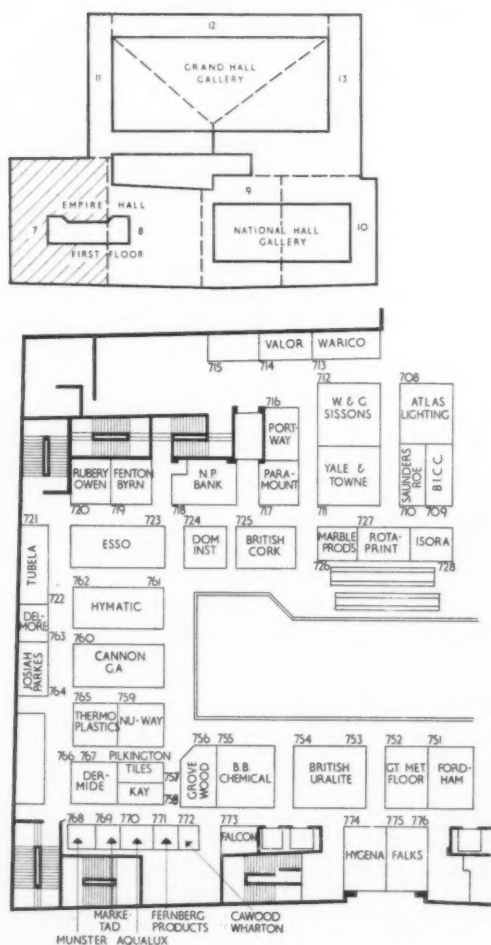


The  
Building  
Exhibition

Olympia, 1959  
Empire Hall (first floor)  
Section

# 7

Of particular interest is a display by Pilkington Tiles (757) of prefabricated panels of ceramic wall tiles, a technique hitherto not sufficiently exploited in this country. Those architects whose work includes the use of curtain walling should not miss the BB Chemical Co. Ltd. stand (755) where joint sealants for almost every conceivable situation are displayed. Cawood Wharton (772) who do good work in the field of structural timber products are featuring a new timber pivot window and Falk Stadelmann (775, 776) have a new suspended illuminated ceiling which is worth seeing. If you still have time, look at Yale & Towne's stand (711) and the Isora illuminated ceiling on the SFIM stand (728).



770

**Aqualux Ltd**

The associated companies of Aqualux Ltd. and Bullfinch (Gas Equipment) Ltd. are jointly displaying an extensive range of water softeners and bottled gas equipment and accessories.  
50, Lincoln's Inn Fields, London, W.C.2 (Holborn 7131).

708

**Atlas Lighting Ltd**

This stand shows a wide selection of fluorescent fittings including the first appearance of the DE LUXE NATURAL designed to give good colour rendering over the entire visible spectrum. In addition to display and decorative fittings, the Atlas lighting trunking is of interest.

Thorn House, Upper St. Martin's Lane, London, W.C.2.

(Temple Bar 2444)

755

**BB Chemical Co Ltd**

The use of BOSTIKOL sealer, PRESTIK sealing strip and BOSTIK gun applied mastics is illustrated in connection with curtain walling and other materials. NOXALL facade process, a weatherproof coating with a wide selection of colours and textures, and NOXALL wood finishing lacquers are also shown.

Ulverscroft Road, Leicester (Leicester 20175).

725

**British Technical Cork Products Ltd**

The range of BRITCORK flooring products has been extended to include four types of tile of different densities to suit all site requirements. The stand shows large areas of different tiles, with skirtings, stair treads, and cork wall panelling.

Caversham Mill, Mill Road, Caversham, Reading, Berks (Reading 71577.8).

753, 754

**The British Uralite Group of Companies**

Two associated companies are exhibiting on this stand. The Weatherall Roofing Co. Ltd. are featuring a scale model of a hyperbolic paraboloid roof covered with Nuraphate. The Cellactite Co. Ltd. are showing for the first time a new wall panelling unit to be used in conjunction with Cellactite fire resisting protected metal corrugated sheeting.  
Whitehall Place, Gravesend, Kent (Telephone Gravesend 6176).

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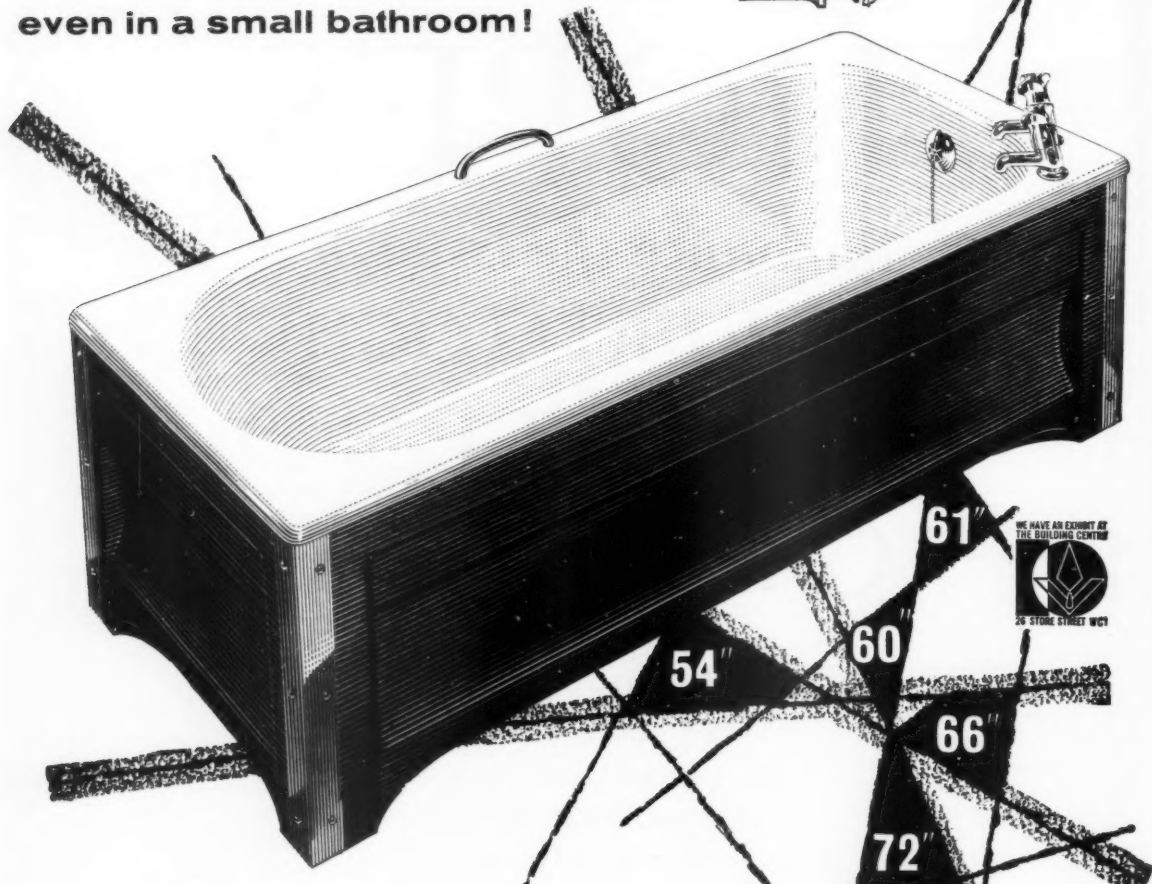
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## BILSTON the bath SPECIALISTS

Bilston Foundries Ltd., Bilston, Staffordshire. Illustrated literature available on request.



Section  
7  
continued

760

**Cannon (G A) Ltd**

A new gas cooker which incorporates a foldaway barbecue grill and a new all-purpose gadget which combines the duties of mixer, blender, juicer, knife sharpener and coffee mill is featured on this stand. Also on display is a radiant/convector room heater with thermostatic control which on account of its very economical consumption of gas is known as the GasMiser. The thermostat is fitted in the bottom of the fire where it is affected by air at room temperature being drawn in and does not, therefore, cut down the heat until the air throughout the room has been raised to the desired temperature.  
4, Park Lane, Piccadilly, London, W.1  
Hyde Park 4861-2).

772

**Cawood Wharton & Co Ltd**

This firm of timber roof specialists are featuring a new pivot window of Swedish design which is friction controlled and has the advantage of having the pivot gear completely sunk within the thickness of the frame.  
38, Buckingham Palace Road, London, S.W.1 (Tate Gallery 4009).

766, 767

**Dermide Limited**

This firm are displaying a new floor covering comprising a heavy coating of p.v.c. bonded to underfelt. It can be laid on a base of timber, tile, concrete or stone and is available in a wide range of colours. Also displayed is a wall covering comprising a p.v.c. coated fabric, produced in a variety of colours and patterns.  
Valley Mills, Meanwood Road, Leeds 7 (Leeds 4-4721).

723

**Esso Petroleum Co Ltd**

The Esso Petroleum Company stand is particularly concerned with the use of oil in various methods of domestic heating. Equipment provided by other exhibitors on show is used for demonstration.  
36, Queen Anne's Gate, London, S.W.1 (Whitehall 5151).

775/6

**Falk Stadelmann & Co Ltd**

The special feature of this firm of lighting specialists is a new suspended illuminated ceiling. Other new products exhibited include a range of fluorescent fittings and electric fires.  
91, Farringdon Road, London, E.C.1 (Holborn 7654).

719

**Fenton Byrn & Co Ltd**

Three new products displayed include a plastic window mounted ventilator, a kitchen canopy which is a complete unit with built-in fan and a horizontal warm air unit for domestic use as well as for public buildings.  
Airflow Works, Berrylands Road, Surbiton, Surrey (Elmbridge 6724).

751

**Fordham Pressings Ltd**

The ETERNA white plastic cistern will make its debut. The unit is moulded from high density polythene and is equipped with the Fordham all-polythene syphon and Aquasave ball valve. In addition, a range of Fordham seamless steel cisterns and the Fordham trough cistern will be shown.  
Dudley Road, Wolverhampton (Wolverhampton 23861/2).

752

**The Great Metropolitan Flooring Co Ltd**

The Knightsbridge parquet flooring is the main feature of this stand. The flooring gives a selection of hardwoods and patterns. It consists of a thin sandwich construction of two layers of hardwood parquet (the top layer is 5 mm. thick) joined by an adhesive. The combination is not fixed to the floor but, like a close fitting carpet, it is tailored to the particular room.  
73, Kinnerton Street, Knightsbridge, S.W.1 (Sloane 0047).

774

**Hygena Cabinets Liverpool Ltd**

This firm specialises in unit kitchen furniture and their display is divided into four sections of which two are complete kitchen interiors.  
Kirkby Industrial Estate, Kirkby, Liverpool (Symonswood 2614).

758

**Kay and Company (Engineers) Limited**

An old firm but a newcomer to the Exhibition, showing gunmetal pipe fittings.  
Bolton, Lancs.

759

**Nu-way Heating Plants Limited**

This firm which was among the earliest to market oil fired equipment for converting existing boilers is putting on show one new fully automatic industrial burner. Also on show is a system of oil firing for very large boiler plants which was first developed in Sweden. A number of installations in a central area are linked to the manufacturer's servicing depot and, when anything goes wrong, they automatically register the fact at the depot, thus making it unnecessary to keep a supervisor on the premises.  
110, Strand, London, W.C.2 (Temple Bar 5671).

717

**Paramount Asphalt & Flooring Co Ltd**

A feature of this display is the Paravent roof vent, designed for use on built up flat roofs in asphalt, bituminous felt and similar materials.  
149, Kennington Park Road, London, S.E.11 (Reliance 2372).

764

**Josiah Parkes & Sons Ltd**

A complete range of this firm's products in locks and door furniture is on show as well as brass foundry ware, including such items as floor springs by their associate company Edwin Showell & Sons Ltd.  
Bush House, Aldwych, London, W.C.2 (Temple Bar 6170).

757

**Pilkingtons Tiles Ltd**

This firm is exhibiting for the first time this year and their speciality is ceramic wall tiles in prefabricated panels forming self-supporting partitions. The panels comprise two outer surfaces of glazed tiles fixed together by ceramic spacer pieces at the intersection of the tile joints to form a double-sided hollow panel in thicknesses of 1½ in., 1¾ in., and 1¾ in. The panels, in sizes up to 6 ft. x 3 ft., are thus strong enough for transportation and erection, but light and easy to handle. When placed in position the panels are filled with concrete to make a strong and permanent partition.  
27b, Old Gloucester Street, London, W.C.1 (Holborn 2961).

720

**Rubery Owen (Heating) Ltd**

Two new products displayed by the Owen Organisation are an oil-fired boiler suitable for domestic use and a gas oil burner for large houses, offices, small factories, schools, etc. The boiler has a heat output of 30,000 B.t.u.s and is claimed to be adequate for a three-bedroom house, providing hot water, five radiators and a towel rail and has a very well designed cabinet.  
Kent House, Market Place, London, W.1 (Museum 8901-6).

728

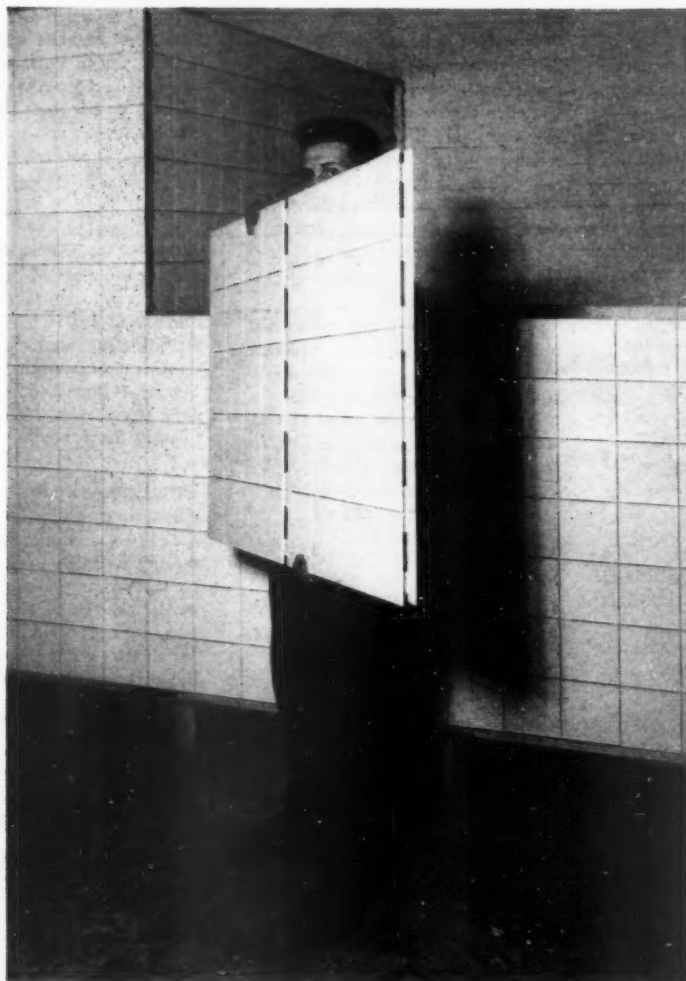
**SFIM (Great Britain) Limited (Isora Ceiling Division)**

To be seen on this stand is the very ingenious Isora illuminated ceiling which originates from France and employs a p.v.c. sheet stretched over steel frames. Also an AEI lighting bracket designed for use with the Isora ceiling.  
216/221, Bedford Avenue, Slough, Bucks (Slough 22228).

Section

7

continued



*Pilkington Tiles' new prefabricated wall tile panel.*



*A new aluminium letter plate by Yale & Towne.*

712

**W and G Sissons Ltd**

The stand displays a range of domestic stainless steel sinks and sink units and two full kitchen layouts. Amongst this material is a new range of cabinet designs and two new stainless steel sinks. Also displayed is a catering-size food waste disposal unit which is demonstrated under working conditions.

*Saint Mary's Road, Sheffield 2 (22118).*

765

**Thermo Plastics Limited**

This firm manufactures a large number of diverse products, ranging from glass fibre reinforced sheeting for curtain walling, to glass fibre ventilation cowls, fume extract ducting and combined sinks and draining boards. All of these are on show, also a new design for an acrylic bath. *Luton Road Works, Dunstable, Bedfordshire (Dunstable 1444).*

711

**The Yale and Towne Manufacturing Company**

This should be a stand worth visiting as there are a number of new products on show, many of which sound interesting. Among them are an aluminium letter plate to BSS/GPO size, a cylinder rim deadlatch for glass panelled doors, reversible forends which enable existing locks to be converted from stock and an automatic cupboard bolt for attachment to one leaf of a pair of closing cupboard doors and which bolts automatically when the second leaf is shut.

*4, Broad Street Place, London, E.C.2 (London Wall 4952).*



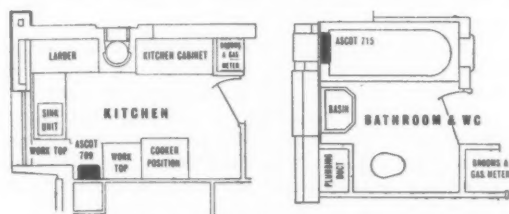
Caroline Estate extension, Hammersmith

## ASCOT IN NEW HOUSING (9)

Ascot instantaneous Gas Water heaters have been extensively used for providing hot water in dwellings comprising the London County Council's new Caroline Estate extension at Hammersmith, photographed above. In the eight-storey block, Joanna House, Ascot multipoints have been installed in the 30 three-room and two two-room flats. In the ten-storey block, Henrietta House, Ascot 715 'balanced flue'

multipoints are provided in 20 three-room and 18 two-room flats. For technical reasons, an alternative water heating system was necessary in two two-room flats on the ground floor of this block.

In all other maisonettes and flats on the Estate, back boilers have been provided for hot water, except in six maisonettes. Here, Ascot 715 multipoints are installed to obviate difficulties which would have otherwise resulted from having flues for solid fuel fires situated near the ten-storey block.



Two typical installations of Ascot Multipoints in a kitchen and a bathroom in flats on the Estate.

### RESPONSIBLE AUTHORITY

London County Council  
Architects: Edward Armstrong &  
Frederick MacManus, F.R.I.B.A.,  
Chartered Architects,  
28, Gloucester Place, London, W.1



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WALKER CROSWELLER & Co. Ltd., Cheltenham., Phone: Cheltenham 56317 or HOLborn 2986 (London)



## A large, bold, black number 8 is centered on the page.

780

Bendz Ltd., exhibiting at Olympia for the first time, are showing a wide selection of copper traps and plumbing. Emphasis is given to the TRAPESE joint and DREH compression joint.  
*Lister St., Birmingham 7*  
*(Aston Cross 3771-3).*

742

A wide variety of sheet steel products is exhibited, a feature of which is the variety of textures and finishes available. "Hot dip" galvanised steel sheets for roofing, decking and other building components are also displayed as well as plastic coated steel sheets for partitions, lift doors and furniture.

*Steel House, Tothill Street, London, S.W.1 (Whitehall 1030).*

703

The Bulgomme Silence Flooring composed of a cellular rubber base, fabric interliner and solid rubber wearing surface vulcanized together. This is an interesting floor and deserves a visit.

738, 739

A new product on display is what is called by the manufacturers a "packaged" air conditioning system central plant which allows engineers to design and lay out an air conditioning system with pre-determined information on the central plant—dimensions, rating data, output and service requirements.

24, Buckingham Gate, London, S.W.1  
(Victoria 6858).

707

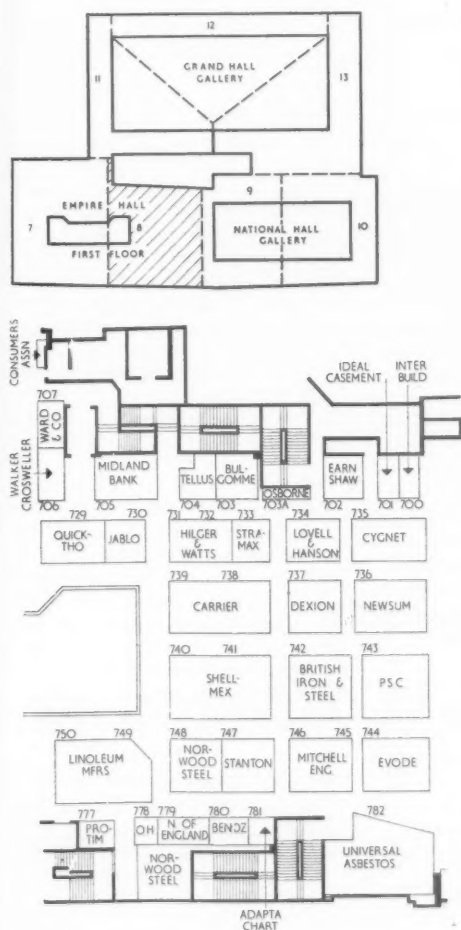
This is a non-profit making organization dedicated to the task of testing, on behalf of the consumer public, of whom nearly 150,000 are members of the association, anything from refrigerators to nylon stockings. A description and the results of these tests are published in their monthly journal *Which*. Their stand is in the form of an information centre for the public and the display aims to illustrate the work of the association.

333, High Holborn, London, W.C.1  
(Chancery 3593).

735

This stand takes the form of a modern laboratory layout and includes equipment constructed in oak, mahogany and softwood. A feature of the layout is the fume cupboards.

*Higher Swan Lane, Bolton, Lancs*  
(Bolton 84812).



## Section

8

continued

737

### Dexion Ltd

This firm, whose speciality is the slotted steel angle, has recently entered the field of timber engineering and are displaying purlins, truss components, gutter and decking units which combine plywood and solid timber. Dexion's subsidiary Petalon Ltd. are displaying a new floor seal which is resistant to most chemicals and water and has a semi-gloss non-slip finish, and a new cast iron rain-water outlet.

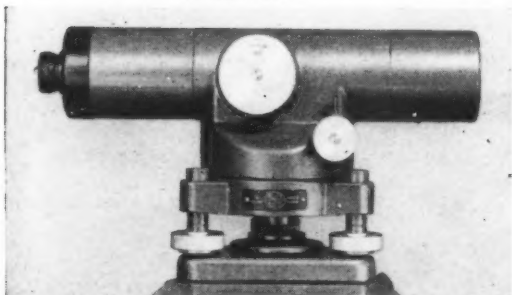
Maygrove Road, London, N.W.6  
(Maida Vale 6031).

744

### Evo-de Ltd of Stafford

The stand is designed to represent the four activities of the company. Acoustic tiles, plastic covered wall board, p.v.c. fabric and p.v.c. tiles, and blocks of expanded polystyrene are used to show the uses of Evo-de industrial adhesives. The second section is concerned with the application of mastics. The third section is devoted to the Building Chemicals Division and shows systems of roof water-proofing. Finally, the fourth section, the Paint Division, shows the use of rubber paints, antituberculous paints, bituminous paints and Evo Kote, a protective lacquer for timber.

82, Victoria Street, London, S.W.1  
(Abbey 4622).



The new self-setting level by Hilger and Watts Ltd.

Model of the Stand for Evo-de Ltd. of Stafford by David Dry, A.R.I.B.A., and K. Halasz, A.R.I.B.A.



731, 732

### Hilger and Watts Limited

In addition to their Cowley Level and Sitesquare, this firm are showing their new self-setting level called the Auto-set. According to the literature, "you have only to centre a circular bubble on the tribrach and the instrument is ready for use." This should be worth seeing.

98, St. Pancras Way, London, N.W.1  
(Gulliver 5636).

701

### Ideal Casements (Reading) Limited

There is a very interesting exhibit on this stand: the Ideal Mipolam steel cored plastic window which originates from Germany.

2, King Street, London, S.W.1  
(Trafalgar 3321).

730

### Jablo Plastics Industries Limited

This stand shows new uses which have been found for Jablite insulation, including its use in curtain walling, as permanent shuttering and as a dry screed.

Mill Lane, Waddon, Croydon, Surrey  
(Croydon 2201).

749, 750

### Linoleum Manufacturers' Association

In addition to a display of new colours and patterns, this stand shows a method of laying linoleum on a heated floor.

127, Victoria Street, London, S.W.1  
(Tate Gallery 4218).

745, 746

### Mitchell Engineering Ltd

This company has a joint exhibit with Unit Construction Company Limited with whom it is associated. It is exhibiting models and photographs of its structures which include garages and multi-storey car parks.

1, Bedford Square, London, W.C.1  
(Museum 5511).

738

### H Newsom Sons and Company Limited

Apart from the stand itself, which is roofed by a timber shell formed from the intersection of two hyperbolic paraboloids, this firm has an exhibit of the greatest interest: a range of pre-fabricated timber joists called Girdalinc. These are designed to compete with traditional wood joists at one end of the scale and with rolled steel sections at the other. Following the precedent set by both of these, the firm issues tables to enable the architect to select the correct beam for each job.

Mellin's House, 56-60, Hallam Street, London, W.1 (Langham 8423).

779

### The North of England School Furnishing Company Limited

This firm, a newcomer to the Exhibition, is showing laboratory benching, school furniture and sliding and folding partitions.

30, Bedford Row, London, W.C.1  
(Holborn 5221).

777

### Protim Ltd

The treatment of timber to preserve it from the ravages of fungus and insect attack is the subject of this stand. Protim Preservative contains metallic salts of pentachlorophenol in addition to chlorinated naphthalenes and Dieldrin and has a water repellent resin in it. It may be sprayed or brushed on to timber *in situ* or, alternatively, Protim treated timber is available for distribution to builders and builders' merchants. Also on display is the Protimeter "Surveymaster" Moisture Meter which will test the moisture content of timber, brickwork, plaster and concrete.

16/17, Devonshire Square, London, E.C.2 (Bishopsgate 0469).

729

### Quicktho Engineering Ltd

Features of this stand are an aluminium alloy curtain wall system and an integral curtain wall in which the walling structure is fixed back direct to the floor slabs, columns and partitions.

Point Pleasant, Wandsworth, London, S.W.18 (Vandyke 4115 and 4116).

740, 741

### Shell-Mex and BP Ltd

This stand is an information centre on oil-fired central heating and staff will give technical advice.

Shell-Mex House, Strand, London, W.C.2 (Temple Bar 1234).

782

### The UAM Group

This firm has distinguished itself by seeking architect advice in the presentation of its products, as regard both catalogue material (designed by Dargan Bullivant) and the stand (designed by Edward D. Mills). New products include pressure-moulded rainwater, soil and flue pipes and fittings, a new material for jointing industrial gutters and new (or fairly new) methods of fixing asbestos cement sheetings.

8, Upper Grosvenor Street, London, W.1  
(Grosvenor 5411).

706

### Walker, Crossweller and Company Limited

This firm follows up the Unatap (the first spray tap in this country, we believe) with another spray tap (the Mezatap): on pushing a button with your thumb, you get a 45 seconds spray of water. Also on show are two new thermostatic valves for showers.

Cheltenham, Gloucestershire  
(Cheltenham 56317).

707

### Ward and Company (Letters) Limited

This firm (who are one of the two who will give quotations for the official RIBA architects' signs) are displaying specimen lettering.

6-12, Wilder Street, Bristol 2  
(Bristol 21536).

# Revolutionary

THERE'S A NEW MATERIAL for insulating buildings. It's called Fibreglass Crown. This has all the advantages that Fibreglass has always had, only more so.

Crown is lighter and stronger. Crown is easier and cheaper to handle and store. Crown is more flexible and has a higher tear strength. Crown is more resilient and more compressible. Crown is the finest and most effective structural insulation ever produced by anyone. Including us.

Is it more expensive? No!—it doesn't cost a penny extra. In most applications it costs less.

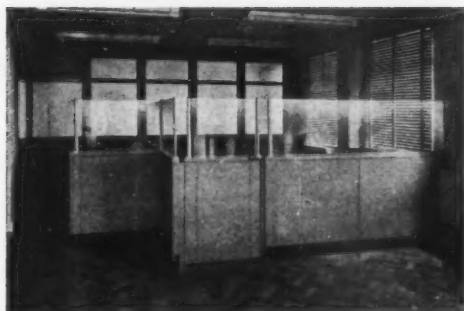
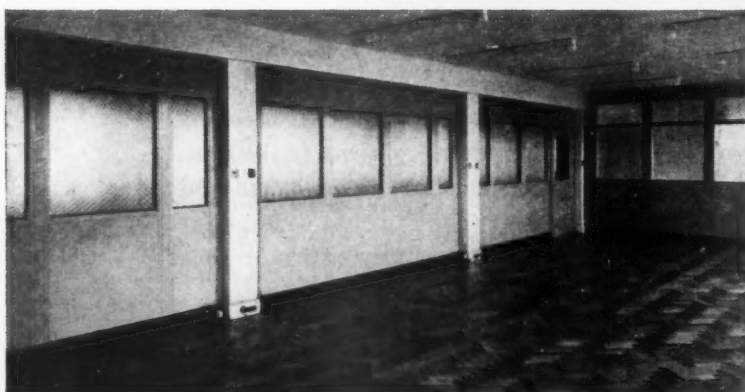
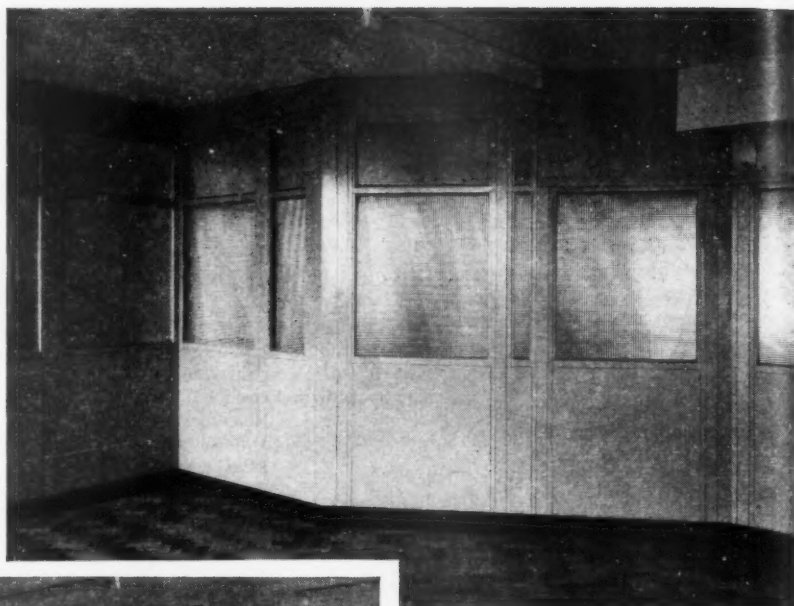


**Stand No. D77**

**Building Exhibition • Olympia**

**FIBREGLASS LIMITED, ST. HELENS, LANCs. TELEPHONE: ST. HELENS 4224**

**SPEEDY,  
RIGID,  
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*Photographs show an installation in the offices of Lloyd's Register of Shipping, Norfolk House, Croydon.*

Assembled from a range of standard units, Harvey Steel Partitioning provides a rigid yet easily erected structure with a high-grade stove-enamelled finish.

The system is very flexible, and adaptable to any layout.

Supplied in full height solid or glazed; or in glazed or unglazed barrier form.

Available in single or double cased construction; the double cased type providing a high degree of sound and thermal insulation. Wiring is concealed and flush fitting switches and sockets can be fitted. Partitions can be moved and the arrangement of panels varied as desired.



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SF 25



The  
Building  
Exhibition

Olympia 1959  
National Hall Gallery  
Section

# 9

This is not a very fruitful area for architects and few stands are worth visiting. An exception is The Adamite Co. Ltd. stand (677) where there is a display of new felt-backed p.v.c. floor covering called Vynoleum Triple-tone, the latter name deriving, no doubt, from the fact that it is in three colours. Richard Baxendale & Sons Ltd. (605) are exhibiting a rotary ashbox reviewed in the AJ earlier this year and Richards Tiles Ltd. (678) have new ranges of glazed wall tiles, mosaics and floor tiles on show. These are probably the pick of this section.

sound insulation and for air filtration and sound reduction in air conditioning systems. Bonded acetate fibre, faced with aluminium foil, is featured as a roof insulation and domestic water tank lagging.

22, Hanover Square, London, W.1  
(Mayfair 8000).

## 613

### British Werno Ltd

Timber framed flush wall partition units are shown with a variety of facing finishes. A new plastic sheet facing in various colours and textures is worth seeing.

79, Portland Place, London, W.1  
(Langham 7702/3/4).

## 610

### GB Educational Equipment Ltd

A variety of new educational equipment is on show. A sliding door storage unit for the storage of PE clothing in ventilated lockers, mobile hat and coat units and a patent dual art desk is displayed for the first time. Fresh Wharf Estate, Highbridge Road, Barking, Essex (Rippleway 4495).

## 667

### E & E Kaye Limited

This firm of non-ferrous metal manufacturers is showing its new alloy Durcilium N which is specially produced for welded structures: also a display of electrical conductors and alloy extrusions for general building use.

Ponders End, Enfield, Middlesex  
(Howard 1601).

## 675

### A Latter and Company Limited

These manufacturers of waterproof building and thermal insulation membranes show the full range of their products, including also a tool for levelling concrete. The stand is designed by Brunton, Baden Hellard and Boobyer.

43, South End, Croydon, Surrey  
(Croydon 9331-6).

## 662, 664

### W and J Lawley Limited

The chief exhibit on this stand is a range of overnight burning fires designed for smoke controlled zones. Britannia Works, Sams Lane, West Bromwich (West Bromwich 0195).

## 670

### North British Plastics Limited

This firm is showing different uses of blockboard faced with melamine. Blaydon, Co. Durham (Blaydon 346-49).

## 678

### Richards Tiles Limited

This firm is showing a new range of glazed tiles, also mosaics and floor tiles.

Grand Buildings, Trafalgar Square, London, W.C.2 (Whitehall 2488).

## 672

### Acrow (Engineers) Ltd

Used by this company abroad but only recently introduced here is a new system of concrete formwork, the basis of which is a standard plywood form panel set in a steel channel frame and supported on standard 6-in. × 4-in. × 8½ lb. r.s.j. beams on adjustable metal shores. Methods of fixing are very well worked out.

South Wharf, Paddington, London, W.2  
(Ambassador 3456).

## 677

### The Adamite Co Ltd

New on this stand is Vynoleum Triple-tone. It is a 3-coloured, felt backed p.v.c. flooring in 72-in. widths. The stand includes a range of p.v.c. tiles, safety treads, inserts for stair treads, floor and ceiling clips, and the cement ancillaries COLEMANOID, REDALON and ELLICEM.

94/98, Petty France, London, S.W.1  
(Abbey 5911).

## 605

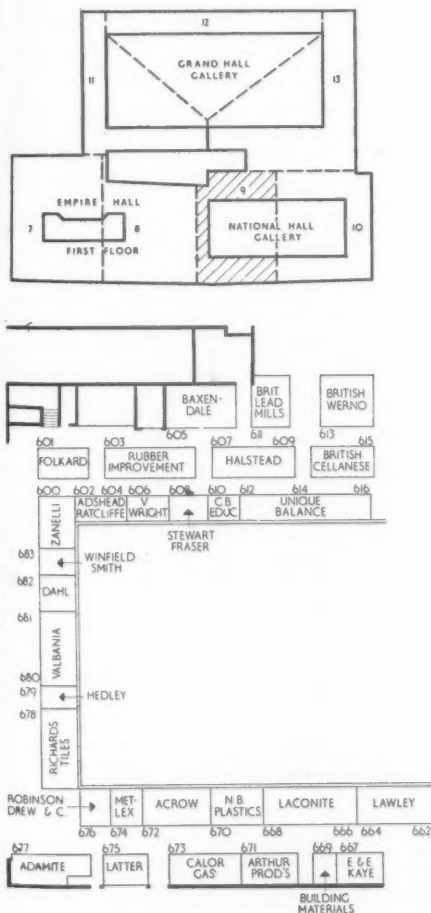
### Richard Baxendale & Sons Ltd

A full range of products including a BAXI FIRE in operation is displayed. The Rotary ashbox referred to by Brian Grant in the AJ for April 23, 1959 and the Radiator output boiler are new features of interest. Albert Street Foundry, Chorley, Lancs. (Chorley 2818).

## 615

### British Celanese Ltd

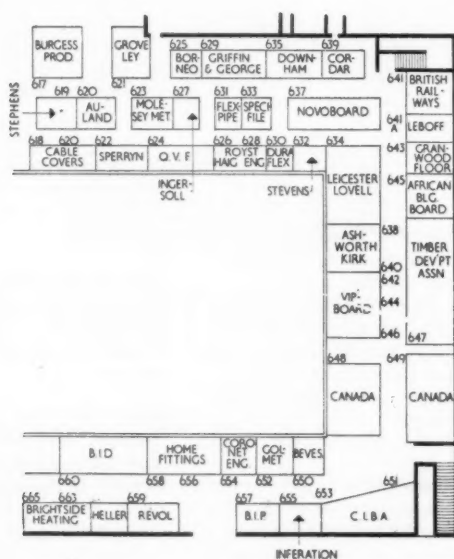
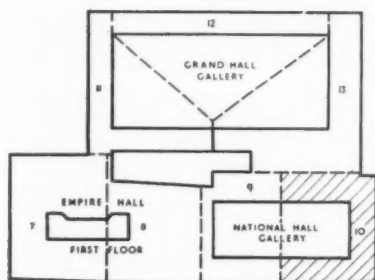
British Celanese Limited are displaying their latest developments in bonded acetate products for heat and



The Olympia 1959  
Building National Hall Gallery  
Exhibition Section

# 10

There are a number of stands of some interest in this section. Burgess Products (617), for example, are displaying a new range of acoustic tiles. Ingersoll Locks Ltd. (627) are displaying a type of deadlock, which by an extra turn of the key makes it impossible to operate the internal lever handle. Leicester Lovell & Co. Ltd. (634, 636) have an interesting display of timber engineering. The Timber Development Association (647) is worth a visit. Beves & Co. (Structures) Ltd. (650) and Cordar Ltd. (639) should not be missed.



645

**The African Building Board Corp Ltd**

A newcomer to Olympia, the stand features the uses of **TIMBERIT** hardboard; Standard Timberit for internal use, Tempered Timberit for external use, Armourboard for heavy duty concrete formwork and Perforated Timberit for display and acoustic finishes.

6, Great Winchester St., London, E.C.4  
(London Wall 7655).

650

**Beves and Company (Structures) Limited**

The Beves Group of Companies specialises in timber engineering, also joinery and flooring. Of particular interest is their HB system of construction.

110, Cannon Street, London, E.C.4  
(Mincing Lane 9161).

657

**BIP Reinforced Products Ltd**

The new **FILON** translucent and coloured structural sheeting made of polyester reinforced glass fibre and its various uses are to be seen on this stand.

Haymarket House, 28, Haymarket,  
London, S.W.1 (Trafalgar 3121).

663, 665

**Brightside Heating & Engineering Co Ltd**

The new **BRIGHTRAD** lighting and radiant heating unit is on display. Also the **BRAYMEX** containing an acoustic ceiling with air diffusers and integrated lighting. The air conditioning services include two units from the **BRIGHTAIR** range.

Vincent House, Vincent Square,  
London, S.W.1 (Tate Gallery 8722).

617

**Burgess Products Co Ltd**

The stand includes current types of acoustic ceiling and wall installation together with new developments. The ceiling tiles are now manufactured in 12 in. modules. Information is available on Burgess electrically heated acoustic ceilings, acoustic ducting, acoustic enclosures, and sound and fireproof doors.

127, Victoria Street, London, S.W.1  
(Tate Gallery 0251/2).

648, 649

**Canada, Office of the High Commissioner for**

The theme of the Canadian Government stand is the use of Canadian woods in timber frame construction. The exhibit includes a cut away section of a house.

Canada House, Trafalgar Square,  
London, S.W.1 (Whitehall 8701).



## YARDLEY · OLD BOND STREET · W1



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# New water heating **PARKRAY 6** convector fire replaces back boiler fires without disturbing the surround

The new Parkray 6 is supplied complete with concrete panels which form a quickly constructed recess to receive the appliance and, at the same time, a convection chamber of the correct size. It can be installed direct through fireplace openings 16" to 18" wide by 22" to 24"

high without disturbing the tiled surround. It is a highly efficient replacement for the back boiler or boiler flue set and greatly improves the space and water heating services. Finished in Lexos porcelain enamel in a choice of 6 colours.

## PERFORMANCE

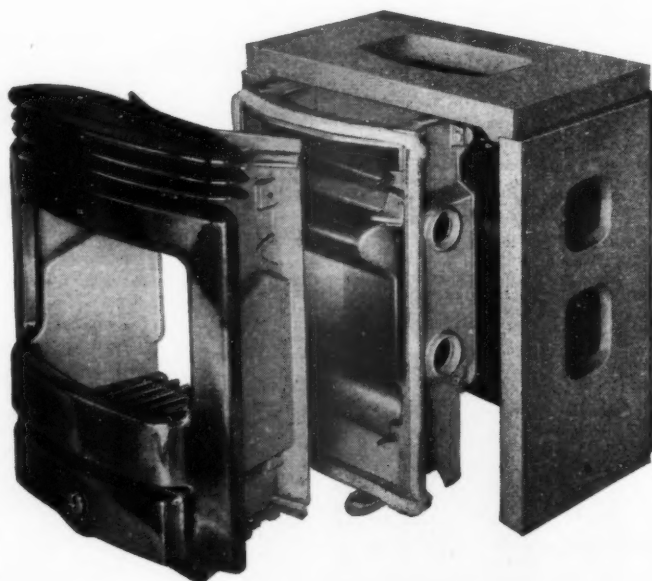
The Parkray 6 provides full space heating by radiation and convection in rooms up to about 1750 cu. ft. An adjustable throat restrictor cuts to a minimum the heat loss up the flue—achieving substantial fuel savings and increased comfort compared with the performance of a traditional open fire with back boiler.

Water heating outputs of 10,000 B.t.u./hr. with the damper open, and 7,500 B.t.u./hr. with the damper closed are easily maintainable. This will provide an abundance of hot water for all domestic purposes from a cylinder of about 30 gallons capacity.

The Parkray 6 splits into 2 units. This is a unique design feature which

- (a) enables it to be installed in existing fireplaces without damaging the tiled surround
- (b) gives full access to boiler and flue connexions
- (c) makes it easy for one man to handle.

The appliance backs into the pre-cast concrete convection chamber and is simply connected to the flue and fixed to the hearth. Boiler connexions can be made on either hand.



# Radiation

## PARKRAY 6

WATER HEATING CONVECTOR FIRE

RADIATION GROUP SALES LTD  
255 North Circular Road  
London N.W.10

### BUILDING EXHIBITION

See Radiation's new  
**Parkray 6**  
solid fuel convector  
water heater replacement  
for back boiler fires  
on Stand 203/4M  
National Hall



Section  
10  
continued

639

**Cordar Limited**

One feature of this stand is a domed rooflight which consists of two layers of Perspex hermetically sealed together thus providing a high thermal insulation value for the rooflight. Another feature is an expanded polystyrene insulation supplied in boards in thicknesses ranging from  $\frac{1}{2}$  in. to 14 in., and beads for cavity insulation.

34, Dean Street, Newcastle-upon-Tyne (Newcastle-upon-Tyne 26214).

630

**Duraflex Housecrafts Ltd**

The problem of draught proofing to doors is dealt with by a new sealing strip called Vinyl-Sweep. This is in two parts, a rigid vinyl plastic strip which nails to the bottom edge of the door and interlocks with a flexible vinyl plastic strip which drags along the floor providing the seal. Another product, called Nail Kwik, also in vinyl plastic, is intended to be fixed to the door frame and threshold.

192/204, Pentonville Road, London, N.1

631

**Flexpipe Ltd**

A range of the notable pitch-impregnated fibre pipes for sewer and land drainage, agricultural irrigation and electrical cable conduits is on show. The pipes are manufactured from 2 in. to 6 in. in diameter and are taper-end jointed.

Bowater House, Knightsbridge, London, S.W.1 (Knightsbridge 7070).

643

**Granwood Flooring Co Ltd**

A variety of floor patterns using Granwood composition block flooring available in 10 colours will be of interest to architects engaged in projects incorporating floor heating. Staircase coverings and floor maintenance materials are shown.

Riddings, Derby (Leabrooks 341/3).

629

**Griffin and George (Sales) Ltd**

A wide selection of laboratory furniture including a new range in all-metal unit furniture is of particular interest. The new range has non-projecting handles, 1½-in centres for shelving, piano-type hinges, adjustable feet, and rubber buffers on drawer tracks to make for quiet operation.

The stand also includes scientific apparatus for soil mechanics including Rigden's Apparatus, Slump Test, and Vicat Apparatus.

Ealing Road, Alperton, Wembley, Middlesex (Perivale 3344).

627

**Ingersoll Locks Limited**

One speciality of this firm is a type of deadlock which, by an extra turn of the key, makes the internal lever handle inoperable. Another exhibit is a braced mortise clawbolt deadlock which instead of weakening the door (as do most mortise locks) actually strengthens it.

91, Moorgate, London, E.C.2 (National 9144).

634, 636

**Leicester, Lovell and Company Limited**

This firm, who manufacture a range of specialized adhesives, are using their stand to display certain *tours de force* in timber engineering; stressed skin roofing panels in Douglas Fir plywood, laminated beams and office partitioning with Embossply panelling.

North Baddesley, Southampton (Rownhams 363).

637

**Novobord (UK) Limited**

This firm is showing what promises to be a very interesting exhibit: prefabricated cupboarding made of chipboard assembled on metal frames. 1a, The Parade, Haven Green, Ealing Broadway, London, W.5 (Perivale 8833).

624

**QVF Ltd**

This firm specializes in the disposal of noxious liquids from industrial laboratories. The exhibit comprises a full-scale laboratory which demonstrates its fittings.

Duke Street, Fenton, Stoke-on-Trent (Longton 32104).

647

**Timber Development Association**

This should be an interesting stand. TDA are concentrating (very sensibly) on roofs for cross-wall housing. They show ¼th full size models illustrating different solutions using in turn lattice purlins, plywood purlins, braced panels and end strutted purlins.

21, College Hill, London, E.C.4 (City 4771).

Leicester, Lovell & Co. Ltd.'s stand.

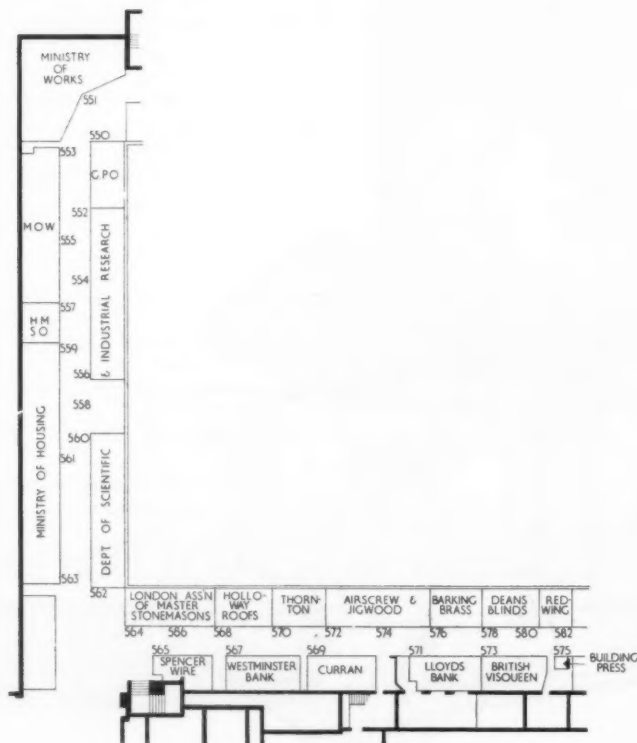
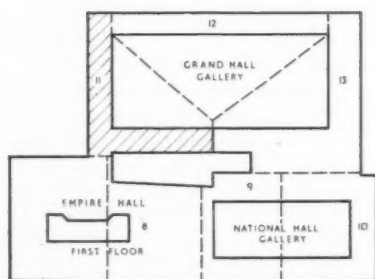


The  
Building  
Exhibition

Olympia 1959  
Grand Hall Gallery  
Section

# 11

Almost half the stands in this section are occupied by the government departments and in particular we recommend you to the Ministry of Works (551, 553, 555) and the Department of Scientific & Industrial Research (552, 554, 556, 560, 562). Look at the new electrically operated shop blind by Deans Blinds (Putney) Ltd. (578, 580) and the display of building boards by The Airscrew Company & Jicwood Ltd. (572, 574).



## 572, 574

### The Airscrew Company and Jicwood Ltd.

This is a display of building boards including Weyroc 38, manufactured from industrial wood chips, Weyroc 34, manufactured from chips produced from forest thinnings and Weydec which is a constructional board having a Weyroc core with a melamine decorative plastic surface.  
*Grosvenor Gardens House, London S.W.1 (Victoria 4527).*

## 576

### Barking Brassware Co Ltd

The selection of BB Co. fittings including the new BIFLO mixers for connection to multi-point geysers or storage heaters, the new hot spray attachment and the HIGH-LOW shower attachment is worth seeing.  
*5, River Road, Barking, Essex (Rippleway 3057/8/9).*

## 578, 580

### Deans Blinds (Putney) Ltd

Two items of particular interest are an electrically operated shop blind, which can also be operated by winch handle, and an accordin type door.  
*329/333, Putney Bridge Road, Putney, London S.W.15 (Putney 2533/5).*

## 552, 554, 556, 560, 562

### Department of Scientific and Industrial Research

Apart from publicising their information services, BRS are concentrating on two subjects: their perforated bricks and a technique which they have developed for jointing plaster-board in a sufficiently unobtrusive manner to enable it to be used as a dry finish. There is also a cinema.  
*5/11 Regent Street, London, S.W.1 (Whitehall 9788).*

## 559, 561, 563

### Ministry of Housing and Local Government

This stand is devoted exclusively to improvement grants, the emphasis being on the standard grants which came in last June to supplement the earlier "discretionary" grants.  
*Whitehall, London, S.W.1 (Whitehall 4300).*

## 551, 553, 555

### Ministry of Works

This year the MOW stand is devoted to three subjects: accidents, tall buildings and the use of precast concrete in buildings. The tall buildings section will be chiefly concerned with the problems the builder has to overcome but, of course, the more the architect understands these problems and helps with them, the better. Attention is being devoted to the use of precast concrete because MOW see this as a method of construction which gives savings on large and small jobs and which is insufficiently exploited.  
*Lambeth Bridge House, London, S.E.1 (Reliance 7611).*

# PERMANITE

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### "Have you received your 'PERMANITE' THERMAL INSULATION CALCULATOR?"

This calculator provides a quick reference to the "U" value of a composite roof structure, allowing for different types of roof construction, waterproofing systems and insulation materials. It is invaluable when designing factory roofs to comply with The Thermal Insulation (Industrial Buildings) Act, 1957, and also when calculating "U" values for the roofs of hospitals, schools and offices.

If you have not received one, please write in and ask for our representative to call to demonstrate and leave one of these calculators.

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**EXTRA INSULATION**

INSULATION	THICKNESS	"U" VALUE
1" TYPED 1/2" SITE	1"	0.18
1" TYPED 1/2" SITE	2"	0.36
1" TYPED 1/2" SITE	3"	0.54
1" TYPED 1/2" SITE	4"	0.72
1" TYPED 1/2" SITE	5"	0.90
1" TYPED 1/2" SITE	6"	1.08
1" TYPED 1/2" SITE	7"	1.26
1" TYPED 1/2" SITE	8"	1.44
1" TYPED 1/2" SITE	9"	1.62
1" TYPED 1/2" SITE	10"	1.80
1" TYPED 1/2" SITE	11"	1.98
1" TYPED 1/2" SITE	12"	2.16
1" TYPED 1/2" SITE	13"	2.34
1" TYPED 1/2" SITE	14"	2.52
1" TYPED 1/2" SITE	15"	2.70
1" TYPED 1/2" SITE	16"	2.88
1" TYPED 1/2" SITE	17"	3.06
1" TYPED 1/2" SITE	18"	3.24
1" TYPED 1/2" SITE	19"	3.42
1" TYPED 1/2" SITE	20"	3.60
1" TYPED 1/2" SITE	21"	3.78
1" TYPED 1/2" SITE	22"	3.96
1" TYPED 1/2" SITE	23"	4.14
1" TYPED 1/2" SITE	24"	4.32
1" TYPED 1/2" SITE	25"	4.50
1" TYPED 1/2" SITE	26"	4.68
1" TYPED 1/2" SITE	27"	4.86
1" TYPED 1/2" SITE	28"	5.04
1" TYPED 1/2" SITE	29"	5.22
1" TYPED 1/2" SITE	30"	5.40
1" TYPED 1/2" SITE	31"	5.58
1" TYPED 1/2" SITE	32"	5.76
1" TYPED 1/2" SITE	33"	5.94
1" TYPED 1/2" SITE	34"	6.12
1" TYPED 1/2" SITE	35"	6.30
1" TYPED 1/2" SITE	36"	6.48
1" TYPED 1/2" SITE	37"	6.66
1" TYPED 1/2" SITE	38"	6.84
1" TYPED 1/2" SITE	39"	7.02
1" TYPED 1/2" SITE	40"	7.20
1" TYPED 1/2" SITE	41"	7.38
1" TYPED 1/2" SITE	42"	7.56
1" TYPED 1/2" SITE	43"	7.74
1" TYPED 1/2" SITE	44"	7.92
1" TYPED 1/2" SITE	45"	8.10
1" TYPED 1/2" SITE	46"	8.28
1" TYPED 1/2" SITE	47"	8.46
1" TYPED 1/2" SITE	48"	8.64
1" TYPED 1/2" SITE	49"	8.82
1" TYPED 1/2" SITE	50"	9.00

**WATERPROOFING SYSTEMS**

SYSTEM	"U" VALUE
A. ASPHALT ON BLACK SHEATHING FELT	0.18
B. ASPHALT ON BLACK SHEATHING FELT TO CHIPPINGS	0.36
C. FELT ROOFING (UP OR OVER) - LAYER TO LAYER - ASPHALT FACED	0.54
D. FELT ROOFING (UP OR OVER) - LAYER TO LAYER - FELT FACED	0.72

**ROOF CONSTRUCTION**

ROOF CONSTRUCTION	"U" VALUE
1. 2" WOODPOOL TOPPED WITH 1" ASPHALT	0.18
2. 2" WOODPOOL TOPPED WITH 1" ASPHALT	0.36
3. 2" WOODPOOL TOPPED WITH 1" ASPHALT	0.54
4. 2" WOODPOOL TOPPED WITH 1" ASPHALT	0.72
5. 2" WOODPOOL TOPPED WITH 1" ASPHALT	0.90
6. 2" WOODPOOL TOPPED WITH 1" ASPHALT	1.08
7. 2" WOODPOOL TOPPED WITH 1" ASPHALT	1.26
8. 2" WOODPOOL TOPPED WITH 1" ASPHALT	1.44
9. 2" WOODPOOL TOPPED WITH 1" ASPHALT	1.62
10. 2" WOODPOOL TOPPED WITH 1" ASPHALT	1.80
11. 2" WOODPOOL TOPPED WITH 1" ASPHALT	1.98
12. 2" WOODPOOL TOPPED WITH 1" ASPHALT	2.16
13. 2" WOODPOOL TOPPED WITH 1" ASPHALT	2.34
14. 2" WOODPOOL TOPPED WITH 1" ASPHALT	2.52
15. 2" WOODPOOL TOPPED WITH 1" ASPHALT	2.70
16. 2" WOODPOOL TOPPED WITH 1" ASPHALT	2.88
17. 2" WOODPOOL TOPPED WITH 1" ASPHALT	3.06
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41. 2" WOODPOOL TOPPED WITH 1" ASPHALT	7.38
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43. 2" WOODPOOL TOPPED WITH 1" ASPHALT	7.74
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45. 2" WOODPOOL TOPPED WITH 1" ASPHALT	8.10
46. 2" WOODPOOL TOPPED WITH 1" ASPHALT	8.28
47. 2" WOODPOOL TOPPED WITH 1" ASPHALT	8.46
48. 2" WOODPOOL TOPPED WITH 1" ASPHALT	8.64
49. 2" WOODPOOL TOPPED WITH 1" ASPHALT	8.82
50. 2" WOODPOOL TOPPED WITH 1" ASPHALT	9.00

**BLANK TABLES INDICATE THAT THE PARTICULAR COMBINATION OF MATERIALS IS IMPRACTICABLE OR NOT RECOMMENDED**

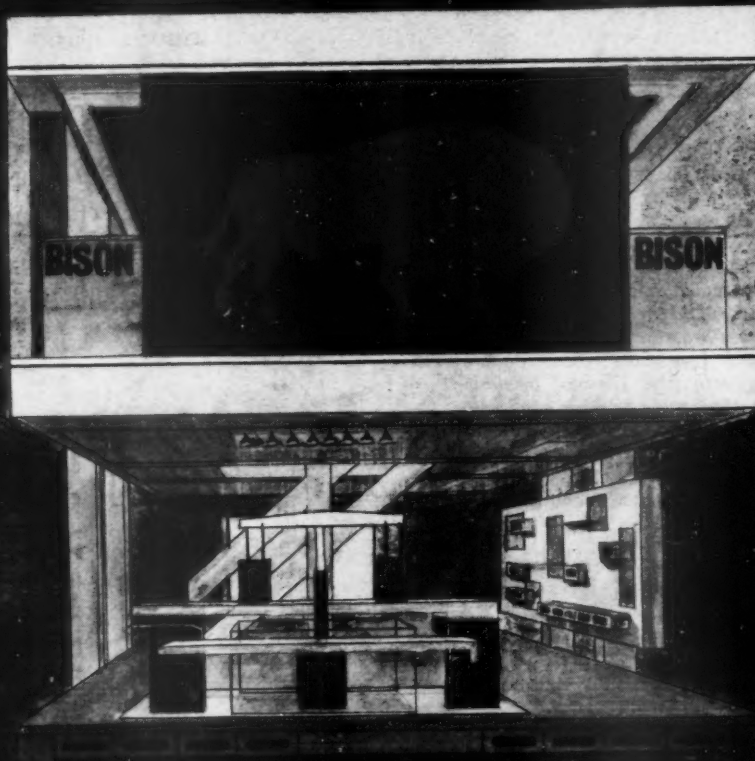
**PERMANITE LIMITED**  
 455 OLD FORD ROAD · LONDON · E.3

# PERMANITE

L I M I T E D

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Consult PERMANITE at the **PLANNING STAGE** for  
 ASPHALT ROOFING  
 BUILT-UP FELT ROOFING  
 ASPHALT FLOORING & TANKING



# Precast Concrete reduces costs and saves building time

## **BISON**

**FLOORS,  
BEAMS AND  
PRECAST FRAME STRUCTURES  
in prestressed and reinforced concrete  
are all featured on the  
BISON STAND No. 64-65, Row D  
AT THE BUILDING EXHIBITION**



SPEED & STRENGTH

**CONCRETE LIMITED are the largest structural precast concrete specialists in the world**

CONCRETE (SOUTHERN) LIMITED Green Lane, Hounslow, Middlesex Hounslow 2323 London Sales Office: 16 Northumberland Avenue, W.C.2 Whitehall 5504  
CONCRETE (MIDLANDS) LIMITED Dovehouse Fields, Lichfield, Staffs Lichfield 3555 Birmingham Sales Office: Winchester House, 5 Victoria Square, Birmingham 2 Midland 0331  
CONCRETE (NORTHERN) LIMITED Stourton, Leeds 10 Leeds 75421 Manchester Sales Office: 40 King Street West, Manchester 3 Blackfriars 5676  
CONCRETE (SCOTLAND) LIMITED Etna Road, Falkirk Falkirk 2366 Glasgow Sales Office: Elmbank Street, Glasgow, C.2 City 3292





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The  
Building  
Exhibition

Olympia 1959  
Grand Hall Gallery  
Section

# 12

Apart from Jayanbee Joinery Ltd. (534, 536), J. Avery & Co. Ltd. (539), and Glamorock Ltd. (525), who should not be missed there are a number of interesting stands which deal with subjects ranging as widely as kitchen cupboards on the one hand to mosaic tiles on the other. Look for a new easy clean sliding hinge on the stand of Thomas Crompton & Sons Ltd. (540). There are a number of interesting exhibits on the K. L. Cobb Group of Companies stand (516, 518).

520

**The Acme Flooring & Paving Co (1904) Ltd**

Examples of hardwood strip and block flooring, softwood and grain block flooring for factory floors, p.v.c. tiles, linoleum, cork tiles, rubber flooring, and fitted carpets are on show.

River Road, Barking, Essex  
(Rippleway 2771).

539

**J Avery & Co Ltd**

Apart from their range of venetian and sun blinds this company is displaying a new acoustic ceiling, designed in Denmark and constructed in finely perforated, anti-corrosive, stove-enamelled aluminium with an inlay of specially processed  $\frac{1}{8}$ -in. mineral wool and waterproof black tissue paper.  
81, Great Portland Street, London, W.1  
(Museum 9237/8/9).

521

**P Barwin Ltd**

Italian manufactured mosaics, with a wide range of colours and shapes are displayed by P. Barwin Ltd. JOO-GRESITE glazed ceramic mosaics,  $\frac{1}{8}$  in. thick, for walls and floors, are supplied in 8 in. x 8 in. or 12 in. x 12 in. sheets mounted on string mesh. GRESIFLEX mosaic flooring is set in rubber in units approximately 9 in. x 10 in. x  $\frac{1}{8}$  in. It is supplied in three shapes, "Small Opus" (or irregular), "Hexagonal," and "Discus" (round) and is presented in a wide range of colours. The stand is worth a visit by architects, interior designers and builders.  
Glyn Street, Vauxhall, London, S.E.11  
(Reliance 7008/9)

530

**Cascaloid**

This stand is being used for a joint exhibit of the British Xylonite Group, of which Cascaloid is a member. The theme is "What the British Xylonite Group Contributes to the Building Industry" and the display includes Cascalite translucent sheeting in the form of roof lights in a variety of profiles to match corrugated sheet, a new plastic faced hardboard using a polyester coating to obtain an economical and high gloss surface, also perimeter insulation, roof insulation, flush door cores, cistern ball floats and other rubber, polystyrene or p.v.c. products manufactured by the Expanded Rubber Company Limited.

9, Conduit Street, London, W.1  
(Mayfair 9701).

542, 544

**Michael Nairn and Company Limited**

This old established firm of Scottish linoleum manufacturers is showing a new range of vinyl tiles.

131, Aldersgate Street, London, E.C.1  
(Monarch 3211).

516, 518

**The KL Cobb Group of Companies**

The group includes K. L. Cobb Limited, A. Beanes & Co. Ltd. and Black & White (Accrington) Ltd. K. L. Cobb Ltd. are displaying kitchen wooden cupboard units, A. Beanes & Co. Ltd. a rotating display of purpose-made metal windows in aluminium, bronze and steel and Black & White (Accrington) Ltd. a selection of mild steel oil storage tanks and catering equipment in the form of a stainless steel topped hot cupboard, sterilizing sink and 20-gallon dual purpose boiling pan.  
K. L. Cobb Ltd., Suffolk House, 5 Laurence Pountney Hill, London, E.C.4 (Mansion House 5931). A. Beanes & Co. Ltd., Bridge Wharf, Bishops Bridge Road, Paddington, London, W.2 (Paddington 4057). Black & White (Accrington) Ltd., Hagg Works, Hyndburn Road, Accrington, Lancs. (Accrington 3399).

540

**Thomas Crompton & Sons Ltd**

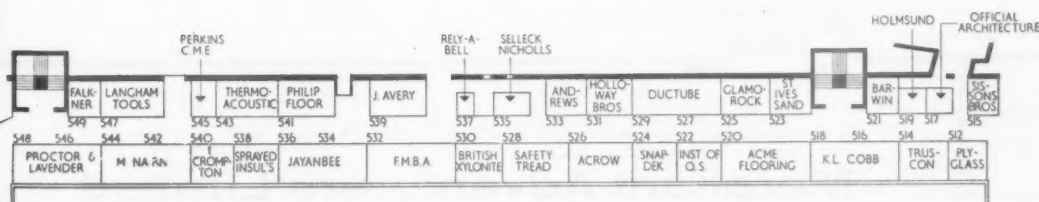
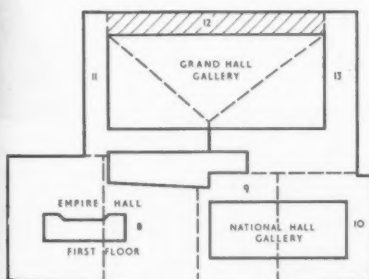
The item of interest on this stand is a new easy-clean sliding hinge. An advantage of this new hinge is that by the removal of four small screws the complete window can be withdrawn into the room for any necessary repairs.

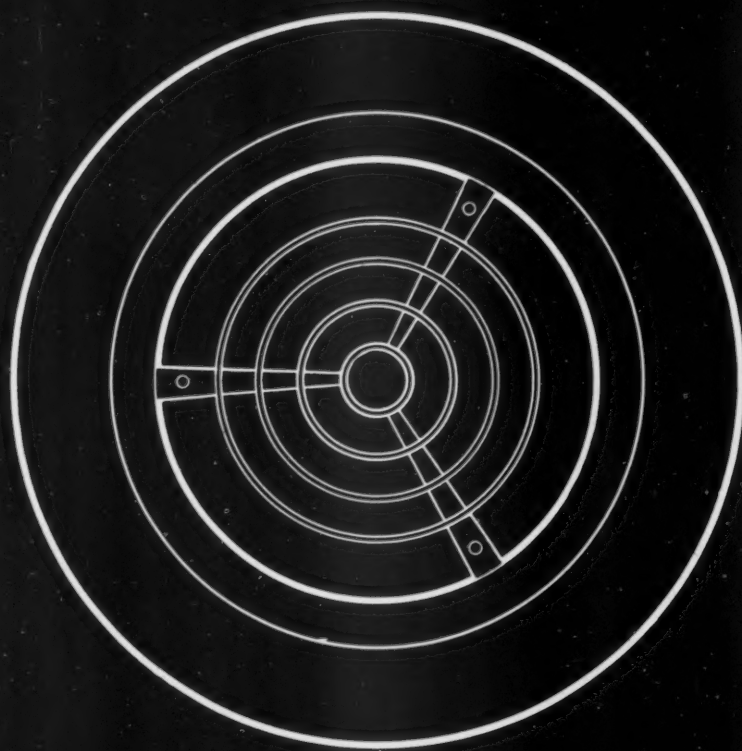
Ashton-in-Makerfield, Near Wigan, Lancs (Ashton-in-Makerfield 7651).

525

**Glamorock Ltd**

Glamorock are showing their natural ready-mixed stone wall facing and three new products: Glamorock COLORPLASTER, Glamorock GRANITE FLOORING a combination of natural stone and tough resin, and Glamorock DECOR a non-fade paint with very fine crushed stone aggregate.  
Monza Street, Wapping Wall, London, E.1 (Royal 6785/7).





VENTUR

## logic

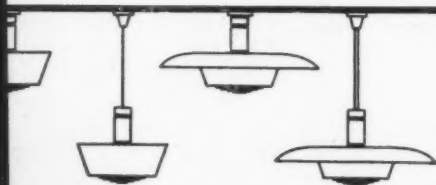
The Ventura series by Merchant Adventurers Limited provides architects and engineers with a range of twenty lighting fittings designed with logical simplicity to fulfil a variety of common lighting needs. They give general lighting with a high degree of diffusion and with no disturbing glare. Moulded in white opal translucent plastic, the diffuser has an open top for shadowless ceiling lighting. The open louvred aperture gives virtually uninterrupted downward lighting while shielding the bare lamp from all normal viewpoints. Prices from 19/2d. including P.T.



A comprehensive leaflet giving full data and prices is available on request.

## Merchant Adventurers Limited

Head Office: Hampton Road West, Feltham, Middlesex. FELtham 3686  
London Showrooms: 43, Portland Road, London, W.11. PARK 1221





section  
12  
continued

531

**Holloway Brothers (London) Ltd**

This stand sets out to show the skill of the many different kinds of specialist contractor who belong to this Group. High quality traditional craftsmanship in joinery, shopfitting and masonry is to be seen, also Derbydene Marble from the Dene Quarries.

157, Millbank, London, S.W.1  
(Victoria 8560).

534, 536

**Jayanbee Joinery Limited**

This energetic firm specialises in kitchen equipment and timber windows. This year on the kitchen equipment side they have three new exhibits: packaged kitchen furniture for old people's flats comprising larder, sink unit, storage cupboards and cooking facilities, a range of kitchen cupboards developed with Unity Structures Limited and "something quite new in sink tops" which comes from Holland. On the window side they have a horizontally sliding picture window in Western Red Cedar, an EJMA double glazed window with inner and outer frames and a plastic faced window.

High Street, Uxbridge, Middlesex  
(Uxbridge 8222).

512

**Plyglass Ltd**

On display are clear double glazing units for heat and sound insulation, diffusing plyglass for use in roofs to improve daylighting and reduce solar heat and Vitrolab wall cladding.

18, London Street, Fenchurch, London, E.C.3 (Royal 8511).

546, 548

**Proctor and Lavender Ltd**

This firm distributes Swedish Kosta glass mosaic in Britain and samples are displayed. Also displayed are handmade sandfaced, and machine made bricks and handmade sandfaced roofing tiles.

Solihull, Warwickshire (Solihull 1131).

535

**Selleck Nicholls & Co Ltd**

The subject of this stand is synthetic stone which looks like the real thing and exceeds the crushing strength laid down in BS1217.45.

East Hill, St. Austell, Cornwall  
(St. Austell 4477).

537

**Roly-a-Bell Burglar and Fire Alarm**

This firm is showing a new roller operated nylon grille.

The Security Centre, 54, Wilson Street  
London, E.C.2 (Bishopsgate 1955).

514

**Truscon Limited**

This stand is occupied by Truscon's Hy-Rib division demonstrating how metal lathing can solve concreting and plastering problems.

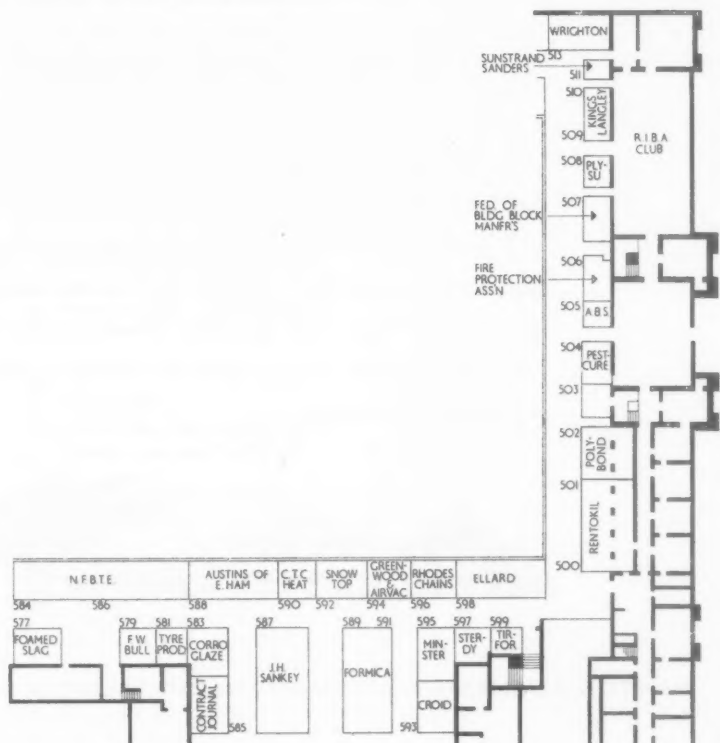
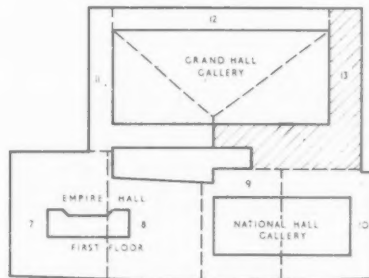
35-41, Lower Marsh, London, S.E.1  
(Waterloo 6922).

The  
Building  
Exhibition

Olympia 1959  
The Grand Hall Gallery  
Section

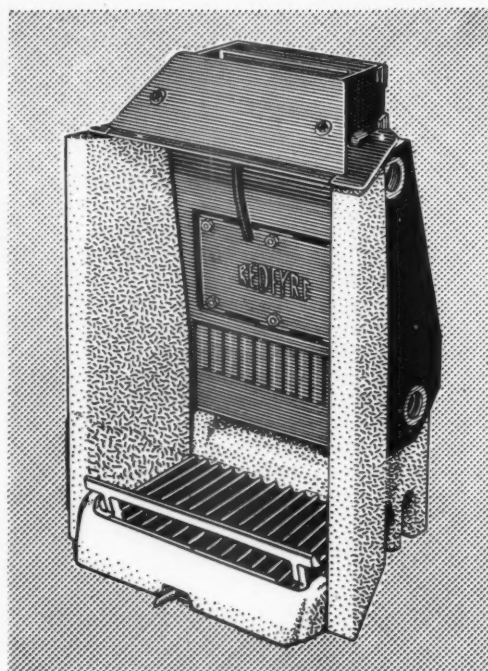
# 13

Austins of East Ham Ltd. (588) are showing a new plastic faced window. Architects should visit the Fire Protection Association (506) where methods of fire protection and prevention are shown. A new range of two piece copper traps and fittings for small bore pipe central heating are displayed by Kings Langley Engineering Co. Ltd. (509, 510). At the Rentokil Ltd. stand (500, 501) wood preservatives in colours are on show.





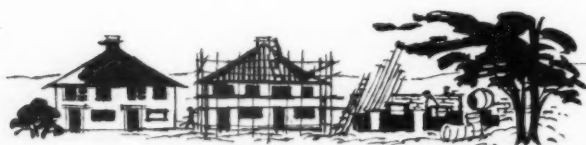
Redfyre 60



Hearth Redfyre

## There's nothing to touch a REDFYRE BACBOILER for successful low-cost water heating

It's getting common knowledge now. Redfyre Bacboilers are low on initial cost, low on installation cost—and maintenance costs practically don't exist. All Redfyre Bacboilers will supply ample hot water and heat one or two radiators if required. Ask us for full details of two beautiful Bacboiler fires (both "approved")—the Hearth Redfyre, with underfloor air-feed; and the Redfyre 60, a controlled-burning fire accepted by the Council of Industrial Design.



NEWTON CHAMBERS & COMPANY LIMITED · REDFYRE PRODUCTS · THORNCLIFFE · SHEFFIELD

section  
13  
continued

**588 Austins of East Ham Ltd**

To be seen on this stand is the LUSTALITE, a plastic-faced window which gives a permanent decorated finish and eliminates maintenance cost. The stand includes an upward opening garage door with Henderson door gear, GRANGEWOOD adjustable partitioning and standard kitchen units.

London, E.6 (Grangewood 3444).

**583 Corroglaze Ltd**

Something of interest to architects is the fact that Corroglaze are exhibiting in their wire reinforced roof and vertical lights the only non-combustible corrugated roof light sheets in the country

30, *Cursitor Street, Chancery Lane, London, E.C.4* (Chancery 6556).

**590 CTC Heat (London) Ltd**

Three different types of double duty boilers are shown, the indirect cylinder for the supply of hot water being built into the boiler. A number of high pressure oil burners are also displayed and a new model, the type M emulsion burner for firing 200 seconds oil without pre-heating.

17, *Sloane Street, London, S.W.1* (Belgravia 3478).

**598 Ellard Sliding Door Gears Ltd**

The advantage of various types of sliding doors is demonstrated, ranging from garage doors to gear suitable for bookcases.

*Works Road, Letchworth, Herts* (Letchworth 613/4).

**506 Fire Protection Association**

Methods of fire protection and prevention are on show. The Association also has a reception centre for architects and builders interested in its work.

31/45, *Gresham Street, London, E.C.2* (Monarch 7412).

**589, 591 Formica Ltd**

BEAUTYBOARD, a composite constructional board  $\frac{1}{2}$ -in. thick with a decorative plastic surface, dominates the exhibit. The standard range of Formica decorative laminates, a Formica bathroom suite and a self-service counter is also shown.

*De La Rue House, 84-86, Regent Street, London, W.1* (Regent 2901)

**594 Greenwood Airvac Conduits Ltd**

Underfloor, skirting, and floor surface duct systems including the new FLUSHKIT underfloor duct system, is on display. An adjustable floor frame in brass and a universal floor pedestal unit for either telephone systems or power socket outlets, is of interest.

*Carlisle House, 8 Southampton Row, London, W.C.1* (Chancery 9377).

**594 Greenwood and Hughes Ltd**

Greenwood and Hughes show the full range of GREVAK anti-siphon waste traps available in cast-iron, cast alloys, brass, copper, ranging from 1 in. to 2 in. and in lead ranging from 1 in. to 3 in.

*Carlisle House, 8 Southampton Row, London, W.C.1* (Chancery 9377).

**509, 510 Kings Langley Engineering Company Limited**

Three exhibits are worth seeing on this stand: a new range of two-piece copper traps, fittings for small bore central heating and the Kingley-BRS diaphragm type ball valve.

*Kings Langley, Herts* (Kings Langley 2215-6).

**504 Pestcure Limited**

A display which shows the full life history of the four principal wood-boring beetles and the complete cycle of growth of the dry rot fungus. A field of knowledge which architects and builders should know something about.

1a, *Cavendish Square, London, W.1* (Hyde Park 0704).

**502 Polybond Ltd**

Apart from its usual characteristics of bonding almost any material, including stone, concrete, glass and metal, Polybond may be added to cement mixes to produce concrete with high tensile strength and wear and water resistance.

16, *Gloucester Place, Portman Square, London, W.1* (Hunter 1341/2).

**500, 501 Rentokil Limited**

Preservatives and insecticides. Note particularly wood preservatives in colours.

23, *Bedford Square, London, W.C.1* (Langham 5455).

**596 Rhodes Chains Limited**

This firm is showing sash window furniture: steel and copper chains, movement checks and anti-rattle fasteners.

*Carlisle House, 8, Southampton Row, London, W.C.1* (Chancery 9377).

**587 J H Sankey & Son Ltd**

Products displayed fall into four categories—the Sisalkraft section which is concerned with all weights and types of building papers, the refractories section displaying acid and alkali resisting cement, bricks and tiles, general building materials section and hollow block section.

*Ripple Road, Barking, Essex* (Dominion 6666).

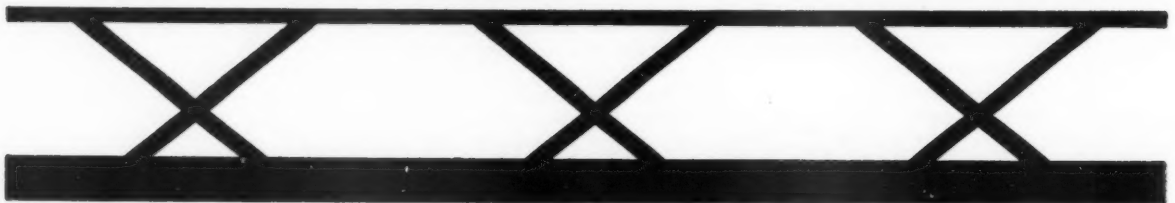
**581 Tyre Products Limited**

New on this stand is a form of matting called Typrod Closeweave, designed for offices, factories and cinemas.

303, *Harrow Road, Wembley, Middlesex* (Wembley 9555).



**OMNIA Concrete Floors installed in the  
ATV Headquarters building  
at the remarkable rate of  
9,000 square feet every 10 days.**



**ATV House**  
Great Cumberland Place, London, W.1.  
100,000 square feet on six Floors.  
Architect: Lewis Solomon, Kaye & Partners.  
Engineers: John De Bremacker & Partners.  
Contractor: George Wimpey & Co. Ltd.

ATV House, London, has nearly 100,000 square feet of Omnia slabs on six Floors with spans up to 26 feet. Large areas of ceiling are completely free from downstanding beams, giving pleasant big or small rooms and ease of partitioning. The Omnia Floor copes equally well with large projects like this and with the very smallest building. It consists of factory-made reinforced planks, and hollow concrete blocks, together with on-site concrete, and is unique in combining the advantages of pre-cast and in-situ techniques.



**Light in weight, yet monolithic  
Uninterrupted floors and soffits  
Needs no shuttering  
Easy to transport and handle  
Quick and simple to erect  
Spans up to 40ft. Adaptable in design  
Economical in manufacture and installation**



STAND NO L187

**OMNIA CONSTRUCTIONS LIMITED, 121 London Wall, London E.C.2.**

**Monarch 2272/6**

The OMNIA Concrete Floor is available in all parts of the country from fifteen Omnia Licensees:

THE ATLAS STONE CO. LTD., LONDON  
THE BLOKCRETE CO. LTD., SOUTHAMPTON  
F. BRADFORD & CO. LTD., EDMONTON  
BRADLEYS (CONCRETE) LTD., DARLASTON  
G. W. BRUCE LTD., ABERDEEN  
T. C. CAMPBELL LTD., NOTTINGHAM

COWLEY CONCRETE CO. LTD., ABINGDON  
DERWENT CAST STONE CO. LTD., MALTON  
DUNBRIK (YORKS.) LTD., LEEDS  
EDENHALL CONCRETE PRODUCTS LTD., PENRITH  
HYDRAULIC PRECASTS LTD., NORWICH  
JAMES K. MILLAR LTD., FALKIRK  
PRESTATYN PRECAST CONCRETE CO. LTD., PRESTATYN  
ST. IVES SAND & GRAVEL CO. LTD., HUNTS.  
SAMUEL TYZACK & CO. LTD., SUNDERLAND



## 14

845

In addition to the DURABELLA woodblock flooring, new developments of timber external wall cladding and sandwiched curtain wall units incorporating lightweight concrete panels are displayed.

862, 863

Charringtons are suppliers of both solid and liquid fuels and the stand is a sort of information centre to give technical advice on heating for housing.

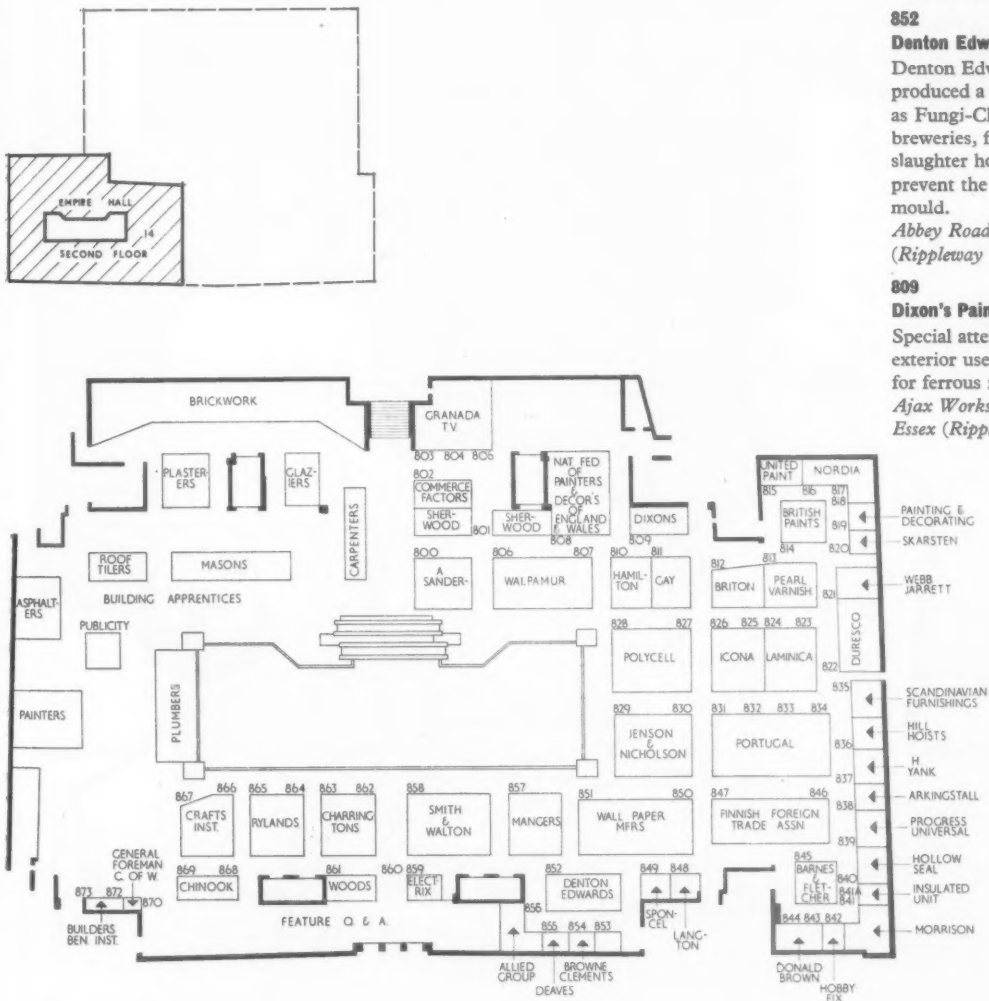
852

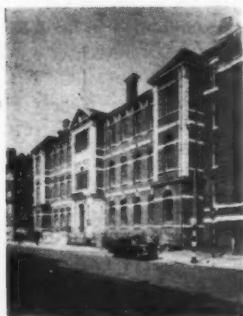
Denton Edwards Paints Limited have produced a new fungicidal paint known as Fungi-Chek, designed to be used in breweries, food factories, bakeries, slaughter houses, laundries, etc., to prevent the growth and spread of mould.

809

Special attention is given to paint for exterior use and a new pre-treatment for ferrous metals.

*Ajax Works, Hertford Road, Barking, Essex (Rippleway 3326).*





## A calm approach to surgery...

### **RUNNYMEDE RUBBER FLOORING**

used in corridors leading to  
the operating theatre of the  
West London Hospital

Silence and hygiene—two vital factors in surgery. Runnymede Rubber plays its part in the approach corridors at this famous Hospital in Hammersmith. The sounds of footsteps and trolley wheels are reduced, and the staff find it a simple matter to maintain 100% cleanliness.

**RUNNYMEDE  
RUBBER CO. LTD.**

6 OLD BAILEY  
LONDON, E.C.4  
Tel: CITY 2471



section

14

continued

822

**Duresco Products Ltd**

Duresco Products Ltd. are displaying a new texture paint and two new low gloss finishes of exceptional uniformity and depth.

*Charlton, London, S.E.7  
(Greenwich 0034/516).*

859

**Electrix Ltd**

Electrix Ltd. are showing three new electric products for domestic use; the Electrix screen fire with two independent 750 watt elements, the oil-filled electric towel rail, and two new electric drying cabinets. A sister company, Sterling Incandescent Co. Ltd., is showing a selection of convector oil heaters on this stand.

*Sterling Works, Dagenham, Essex  
(Dominion 4545).*

811

**R Gay & Co**

This firm is showing a display of the use of paint on a wide selection of surfaces. The stand is designed by Derek Newton, M.S.I.A.

*93-97, New Cavendish Street,  
London, W.1 (Langham 0831).*

846, 847

**Finnish Stand (Finnish firms participating at Olympia)**

This is the first appearance of Finnish firms in a British exhibition since the war. Nine firms are displaying their products. A selection of fibreboard, particle board and machinery related to its production, kitchen furnishings, fire doors, wall papers and safety locks are shown. The display aims to further trade with this country and is worth a visit.

*66, Chester Square, London, S.W.1  
(Slaane 0771).*

857

**J Manger and Son Limited**

This old established firm of paint manufacturers is showing their new insecticide paint, also Plastawel, a bonding fluid which provides a mechanical key without hacking.

*Kingsland, London, E.8 (Clissold 8521).*

813

**Pearl Varnish Co Ltd**

The efficiency of "Trerock" flame retardant paint is demonstrated on this stand by means of a scaled-down version of the apparatus used at the Fire Research Station for determining surface spread of flame in accordance with BS476, 1953, Part 1.

*Treforest Industrial Estate, Pontypridd,  
Glamorgan (Treforest 2303).*

827, 828

**Polycell Products Ltd**

Polycell Products provide the painter with everything he needs to prepare his surfaces for decoration. These include Polycell wallpaper adhesive and combined sealer and primer, Polyfilla for use as a putty, tile fixing or filler, Polyclens brush cleaner, Polypeel wallpaper stripper and Polystrippa paint stripper, all of which are displayed.

*5, Carvers Lane, London, N.W.5  
(Gulliver 8761).*

800

**A Sanderson & Co Ltd**

Apart from display panels which illustrate the many difficult problems of decorating, there are three new products displayed—a new anti-corrosive treatment for rusty surfaces, a new emulsion sealer for loose and underbound surfaces and a new water paint.

*Kingston Paint & Varnish Works, Hull  
(Hull 15612).*

815

**The United Paint Company Limited**

A new textured paint called Unistuc Liquid Stone is to be seen here.

*170, Bishopsgate, London, E.C.2  
(Avenue 4556).*

850, 851

**The Wall Paper Manufacturers Ltd**

On show on this stand are some new patterns in the cheaper machine printed ranges and, in the hand printed ranges, some new large scale designs; also some washable wall fabrics.

*19-21, Mortimer Street, London, W.1  
(Langham 8671).*

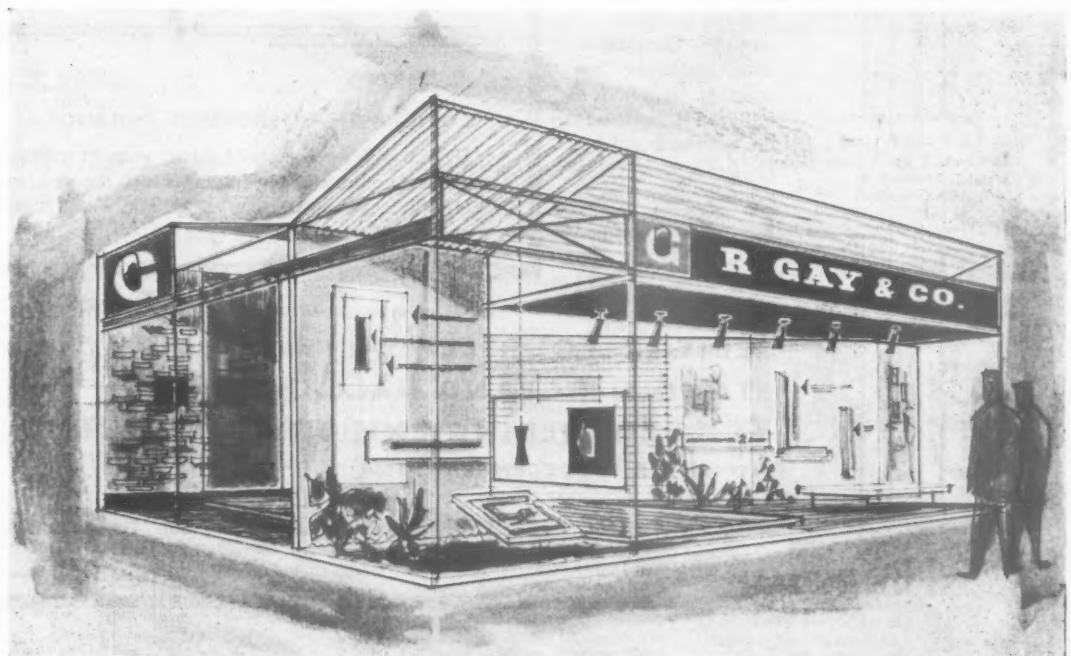
806, 807

**The Walpamur Co Ltd**

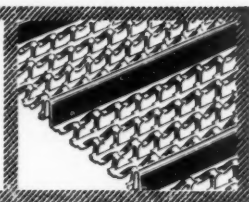
On this stand are three specimen doors carrying finishes varying from a minimum three-coat Housing Scheme finish to a superfine high gloss Coach finish. New paint materials include Polyurethane lacquer.

*326, Kensal Road, London, W.10  
(Ladbroke 1122).*

*The stand for R. Gay & Co.,  
designed by Derek Newton*

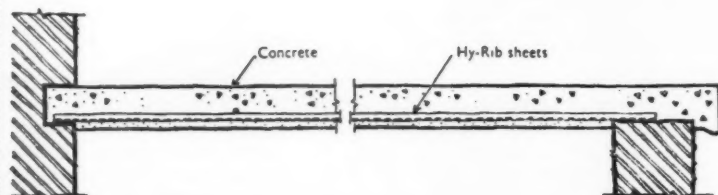


# HY-RIB



## A MULTI-PURPOSE MATERIAL

**strong, simple, economical**

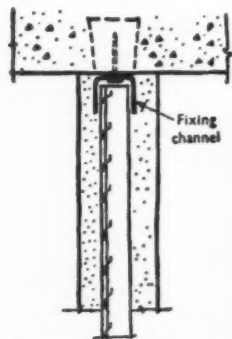
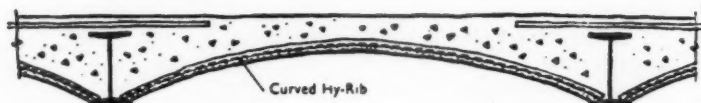


### FLOOR AND ROOF SLABS

Hy-Rib is a combined centering and reinforcement that eliminates close-boarded shuttering and provides an excellent key for plaster on the soffit.

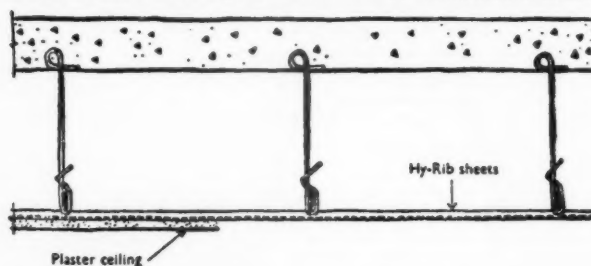
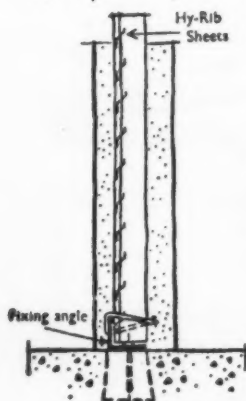
### ARCHED FLOORS

Hy-Rib acts as permanent shuttering for bridge decking, warehouse floors and other industrial buildings; and provides a key for rendering the soffit where this is required.



### PARTITIONS

Hy-Rib with metal lathing plaster on each face offers a thin partition, free from cracks and highly fire-resistant, from floor to ceiling. Thinness and fire resistance make Hy-Rib especially suitable where space is limited.



### LONG-SPAN SUSPENDED CEILINGS

Hy-Rib with three coats of plaster gives an unbroken surface, accurate alignment and a high fire-resistance. Hy-Rib makes possible curved ceilings with a minimum of special framing.

**SEE FOR YOURSELF THE MANY USES OF HY-RIB ON  
STAND 514, GRAND HALL GALLERY  
AT THE BUILDING EXHIBITION, OLYMPIA  
NOVEMBER 18—DECEMBER 2, 1959**

HY-RIB DIVISION Truscon Limited, 35-41 Lower Marsh, London SE1. Telephone: WATERloo 6922  
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Manchester, Trafford Park 2766 • York 24594



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The figure in brackets is the stand number, followed by the section number in the Journal. Not all firms' names appear on the stands and not all stands are described in the text.

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Abraham, Robert, Ltd.  
43, Bankhall Street, Liverpool, 20. (275) 1.  
Accrington Brick & Tile Co., Ltd.  
Accrington, Lancashire. (152) 3.  
A.C.E. Machinery, Ltd.  
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Acme Flooring & Paving Co. (1904), Ltd.  
River Road, Barking, Essex. (520) 12.  
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Bartrev Board Co., Ltd.  
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22, Hanover Square, London, W.1. (615) 9.  
British Equipment Co., Ltd.  
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British Iron and Steel Federation.  
Steel House, Tothill Street, London, S.W.1. (742) 8.  
British Lead Mills, Ltd.  
Byron House, 77 St. James's Street, London, S.W.1. (611) 9.  
British Paints, Ltd.  
Northumberland House, 303, High Holborn, London, W.C.1. (814) 14.  
British Plaster Board (Manufacturing), Ltd.  
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7, Chesterfield Gardens, London, W.1. (575) 11.  
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Cement Marketing Co., Ltd.  
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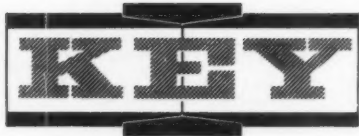
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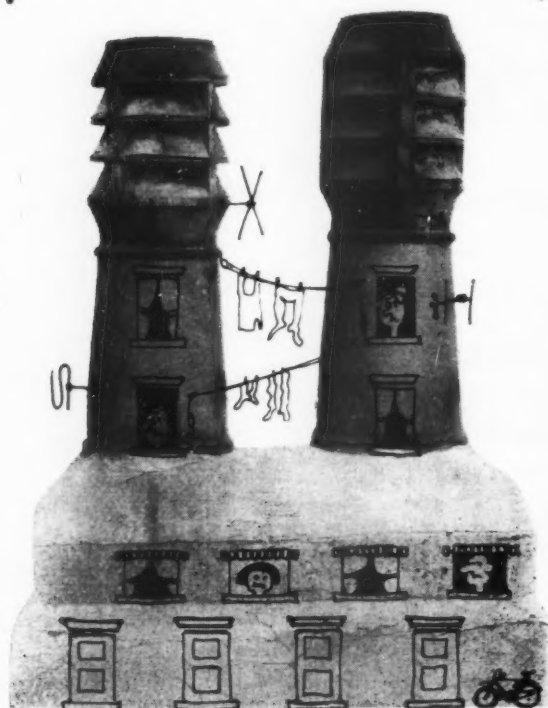
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TGA KD26

- Centec Machine Tool, Ltd.  
Centec Works, Hemel Hempstead,  
Hertfordshire. (360).
- Charrington, Ltd.  
Tower House, Trinity Square, London, E.C.3.  
(862, 863) 14.
- Chatwins, Ltd.  
Market and Phoenix Foundries, Tipton,  
Staffordshire. (215) 1.
- Chinook Heaters, Ltd.  
444, Hornsey Road, London, N.19. (868, 869) 14.
- Chubb & Sons Lock & Safe Co., Ltd.  
175/176, Tottenham Court Road, London, W.1.  
(1) 2.
- C.I.B.A. (A.R.L.), Ltd.  
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- Clark & Fenn, Ltd. (see Stramax and Thermo-Acoustic).
- Claygate Fireplaces, Ltd.  
Claygate, Surrey. (172) 3.
- Coal Utilisation Council.  
3, Upper Belgrave Street, London, S.W.1.  
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- Cobb, K. L., Ltd.  
Suffolk House, 5, Laurence Pountney Hill,  
London, E.C.4. (516, 518) 12.
- Cole, E. K., Ltd.  
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(5, 6) 2.
- Colt Ventilation, Ltd.  
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- Columbus Dixon, Ltd.  
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- Commerce Factors (G.B.), Ltd.  
Torpoint, Cornwall. (802) 14.
- Compactool, Ltd.  
Oxgate Lane, Cricklewood, London, N.W.2.  
(121) 2.
- Concrete, Ltd.  
16, Northumberland Avenue, London, W.C.2.  
(64, 65) 6.
- Conex Terna, Ltd.  
Whitehall Road, Great Bridge, Tipton,  
Staffordshire. (61) 6.
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- Contract Journal Co., Ltd.  
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- Contractors & Industrial Equipment, Ltd.  
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34, Dean Street, Newcastle-upon-Tyne.  
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39, Victoria Street, London, S.W.1. (415, 416).
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8/10, Hallam Street, Portland Place, London,  
W.1. (654) 10.
- Coronet Factoring (Derby), Ltd.  
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- Corroglaze, Ltd.  
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(583) 13.
- County Commercial Cars, Ltd.  
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- Crafts Institute of Great Britain.  
2, Norbury Avenue, Thornton Heath, Surrey.  
(866, 867). 14.
- Crane, Ltd.  
15/16, Red Lion Court, London, E.C.4.  
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- Crendon Concrete Co., Ltd.  
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Buckinghamshire. (139) 5.
- Crittall Manufacturing Co., Ltd.  
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- Croid, Ltd.  
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(593) 13.
- Crompton, Thomas, & Son, Ltd.  
Ashton-in-Makerfield, Nr. Wigan. (540) 12.
- Crosby & Co., Ltd.  
Lion Works, West Street, Farnham, Surrey.  
(7) 4.
- C.T.C. Heat (London), Ltd.  
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- Curran Engineering, Ltd.  
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- Cygnat Joinery, Ltd.  
Higher Swan Lane, Bolton, Lancashire. (735) 8.
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- Dallow Lambert & Co., Ltd.  
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- Deans Blinds (Putney), Ltd.  
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London, S.W.15. (578, 580) 11.
- Deaves, R. J.  
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- Dickins, Stuart B., Ltd.  
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- Dimplex, Ltd.  
Millbrook, Southampton. (223) 1.
- Dixon's Paints.  
Ajax Works, Hertford Road, Barking, Essex.  
(809) 14.
- Doe, Ernest, & Sons, Ltd.  
Ulting, Maldon, Essex. (443, 450).
- Dohm, Ltd.  
167, Victoria Street, London, S.W.1.  
(193, 194) 3.
- Domestic Installations Co., Ltd.  
74, Earls Court Road, London, W.8. (724) 7.
- Dominion Machinery Co., Ltd.  
Hipperholme, Halifax, Yorkshire. (385).
- Downham, S. J., & Co., Ltd.  
Stone Court Works, Pembury, Tunbridge  
Wells, Kent. (635) 10.
- Downing, G. H., & Co., Ltd.  
Brampton Hill, Newcastle, Staffordshire.  
(134, 135) 5.
- Dowty Seals, Ltd.  
Ashchurch, Gloucestershire. (324).
- Drew, Clark & Co., Ltd.  
Diamond Patent Ladder Works, Leyton,  
London, E.10. (401).
- Ductube Co., Ltd.  
64/66, Battersea High Street, London, S.W.11.  
(527, 529) 12.
- Duraflex Housecrafts, Ltd.  
192/204, Pentonville Road, London, N.1.  
(630) 10.
- Durasteel, Ltd.  
Oldfield Lane, Greenford, Middlesex. (270) 1.
- Duresco Products, Ltd.  
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- Earnshaw Bros. & Booth, Ltd.  
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- Easicle Porcelain Enamel (1938), Ltd.  
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(37) 2.
- Eastwoods, Ltd.  
Eastwood House, City Road, London, E.C.1.  
(143, 144) 5.
- Econa Modern Products, Ltd.  
Aqua Works, Highlands Road, Shirley  
Birmingham. (23) 6.
- Ekco-Ensign Electric, Ltd.  
45, Essex Street, Strand, London, W.C.2.  
(224) 1.
- Elder Reed, A., & Co. (Sales), Ltd.  
103/105, Battersea High Street, London,  
S.W.11. (140) 5.
- Electrical Development Association,  
2, Savoy Hill, London, W.C.2. (97, 98) 6.
- Electrix, Ltd.  
Sterling Works, Dagenham, Essex. (859) 14.
- Electrolux, Ltd.  
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(262) 1.
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Surrey. (107) 5.
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Esavian Works, Stevenage, Hertfordshire.  
(38, 39) 2.
- Esso Petroleum Co.  
36, Queen Anne's Gate, London, S.W.1.  
(723) 7.
- Evode, Ltd.  
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- Expandite, Ltd.  
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- Falkner, J. W., & Sons, Ltd.  
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- Federated Foundries, Ltd.  
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- Federation of Building Block Manufacturers.  
11, Ravensbury Avenue, Morden, Surrey.  
(507) 13.
- Federation of Master Builders.  
33, John Street, Holborn, London, W.C.1.  
(532) 12.
- Fenton Byrn & Co., Ltd.  
Airflow Works, Berrylands Road, Surbiton,  
Surrey. (719) 7.
- Fernberg Products, Ltd.  
Stake Farm, Prospect Road, Farnborough,  
Hampshire. (771) 7.
- Ferodo, Ltd.  
Chapel-en-le-Frith, Stockport. (48) 4.
- Fibreglass, Ltd.  
Ravenhead, St. Helens, Lancashire. (77) 2.
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66, Chester Square, London, S.W.1. (846,  
847) 14.
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Finlock House, 25, Frant Road, Tunbridge  
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- Fire Protection Association.  
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London, E.C.2. (506) 13.
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Harvest House, Felixstowe, Suffolk. (50) 4.
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S.W.1. (124) 2.
- Flexible Drive & Tool Co., Ltd.  
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London, S.W.7. (325).
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S.W.1. (631) 10.
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The Green, Ealing, London, W.5. (437).
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260, Gray's Inn Road, London, W.C.1.  
(577) 11.
- Folkard, J. S. & F., Ltd.  
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London, N.W.7. (601) 9.
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Dagenham, Essex. (404, 405, 406).
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(491).
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7/12, Tavistock Square, London, W.C.1. (49) 4.
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(244, 245) 1.
- Gay, R., & Co.  
93/97, New Cavendish Street, London, W.1.  
(811) 14.
- General Foremen and Clerks of Works.  
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London, E.C.1. (550) 11.
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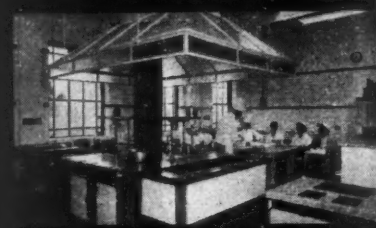
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shire. (46) 4.
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- Imperial Chemical Industries, Ltd.  
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- Impregnated Diamond Products, Ltd.  
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- International Harvester Company of Great  
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Omnia Constructions, Ltd.  
121, London Wall, London, E.C.2. (187) 5.  
Osborn, G. H., Building Products, Ltd.  
4, Dollis Park, Finchley, London, N.3.  
(703A) 8.

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22, St. Giles High Street, London, W.C.2.  
(130) 3.  
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(434, 435).  
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149, Kennington Park Road, London, S.E.11.  
(717) 7.  
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Stafford House, Norfolk Street, London,  
W.C.2. (316, 317).  
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Bush House, Aldwych, London, W.C.2. (764) 7.  
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26, Cowcross Street, London, E.C.1. (357).  
Perkins CME, Ltd.  
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151, Regent Street, London, W.1. (169) 3.  
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18, Cavendish Square, London, W.1. (504) 13.  
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32, Duke Street, London, S.W.1. (308, 314).  
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(541) 12.  
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Chase Road, London, N.W.10. (173) 5.  
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58, Victoria Street, London, S.W.1. (377, 390).  
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116) 3.  
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(213) 1.  
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N.W.10. (196) 2.  
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Q.V.F., Ltd.  
Duke Street, Fenton, Stoke-on-Trent,  
Staffordshire. (624) 10.

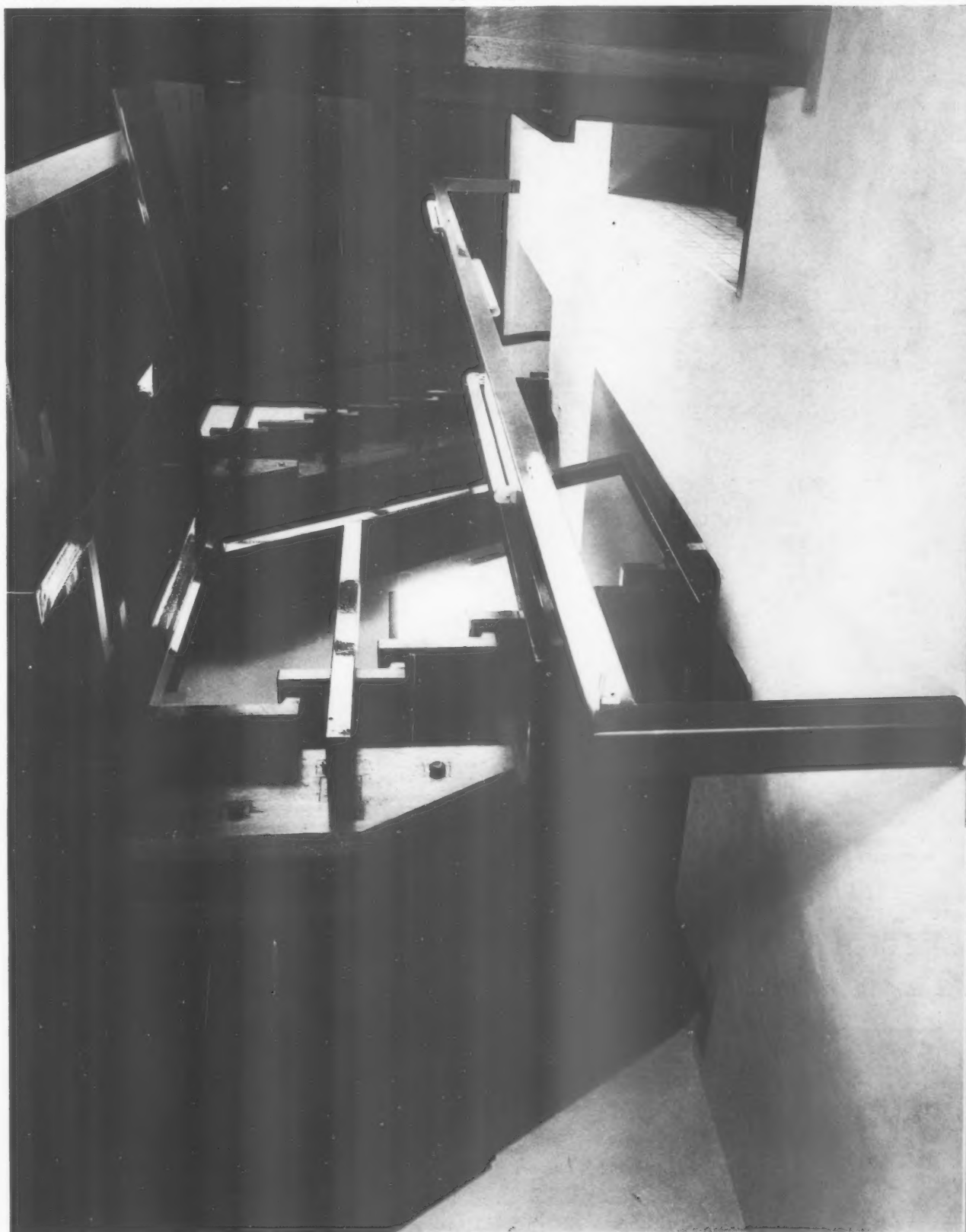
Radiation Group Sales, Ltd.  
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London, W.1. (203, 204) 1.  
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S.W.7. (191, 192) 3.  
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(90, 91) 4.  
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501) 13.  
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London, W.C.1. (596) 13.  
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Yorkshire. (225) 1.  
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Robinson, Thomas, & Son, Ltd.  
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(344, 345).  
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## working detail

TIMBER STAIRCASE: TOWN HALL IN BRIELLE, HOLLAND

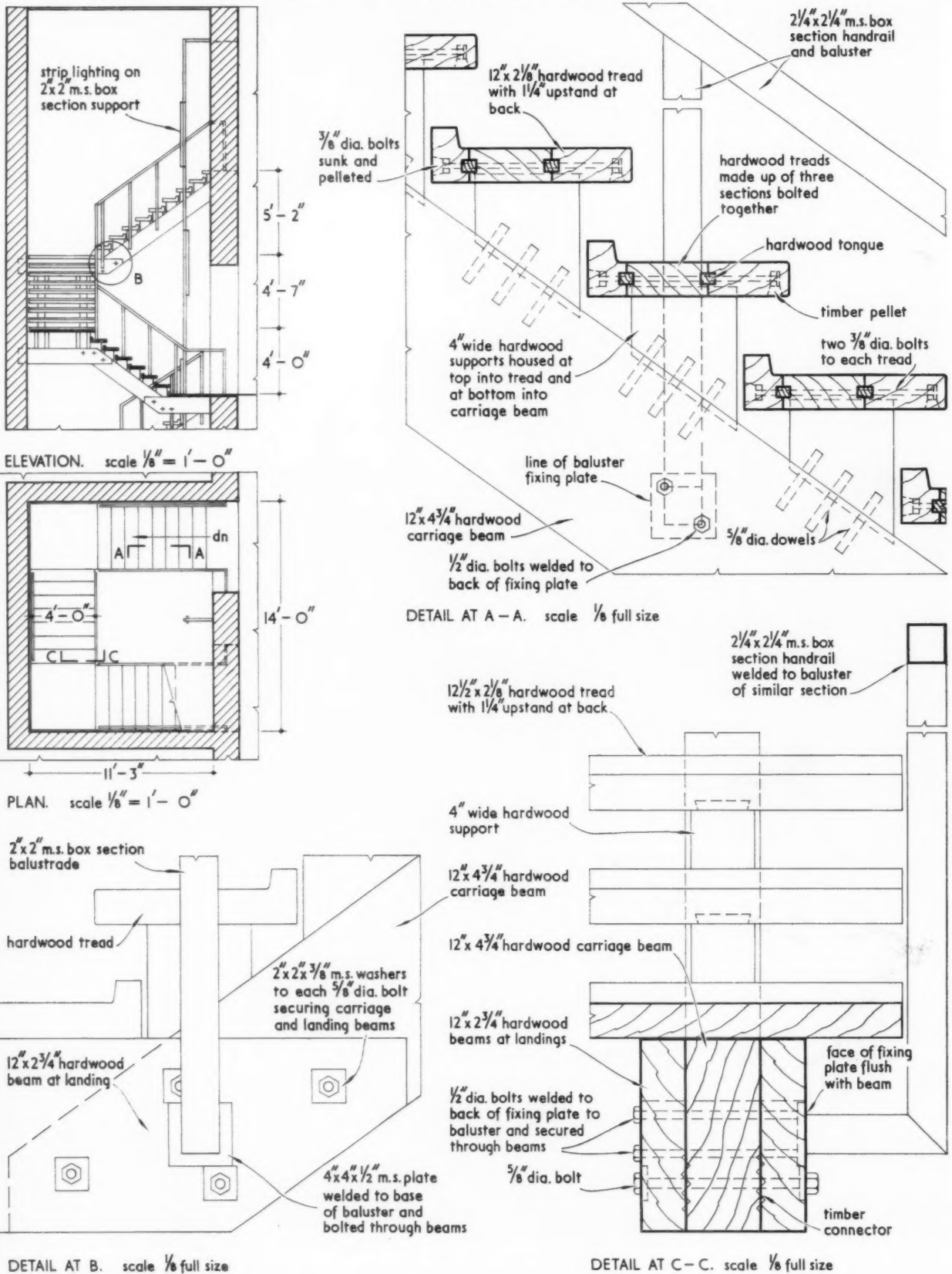
*J. H. van den Broek and J. B. Bakema, architects (material supplied by Martin Lawrence)*

*This is an unusual detail included to show an approach to the very difficult architectural problem of inserting a staircase into an historic building, in this case a mediaeval town hall. Feeling that both an academic reconstruction and a conventional modern stair would be out of place, the architects have chosen a solution which echoes the robustness and the directness of mediaeval joinery but which could only have been carried out today.*

## working detail

## TIMBER STAIRCASE: TOWN HALL IN BRIELLE, HOLLAND

J. H. van den Broek and J. B. Bakema, architects (material supplied by Martin Lawrence)



note: figured dimensions in feet and inches are approximate

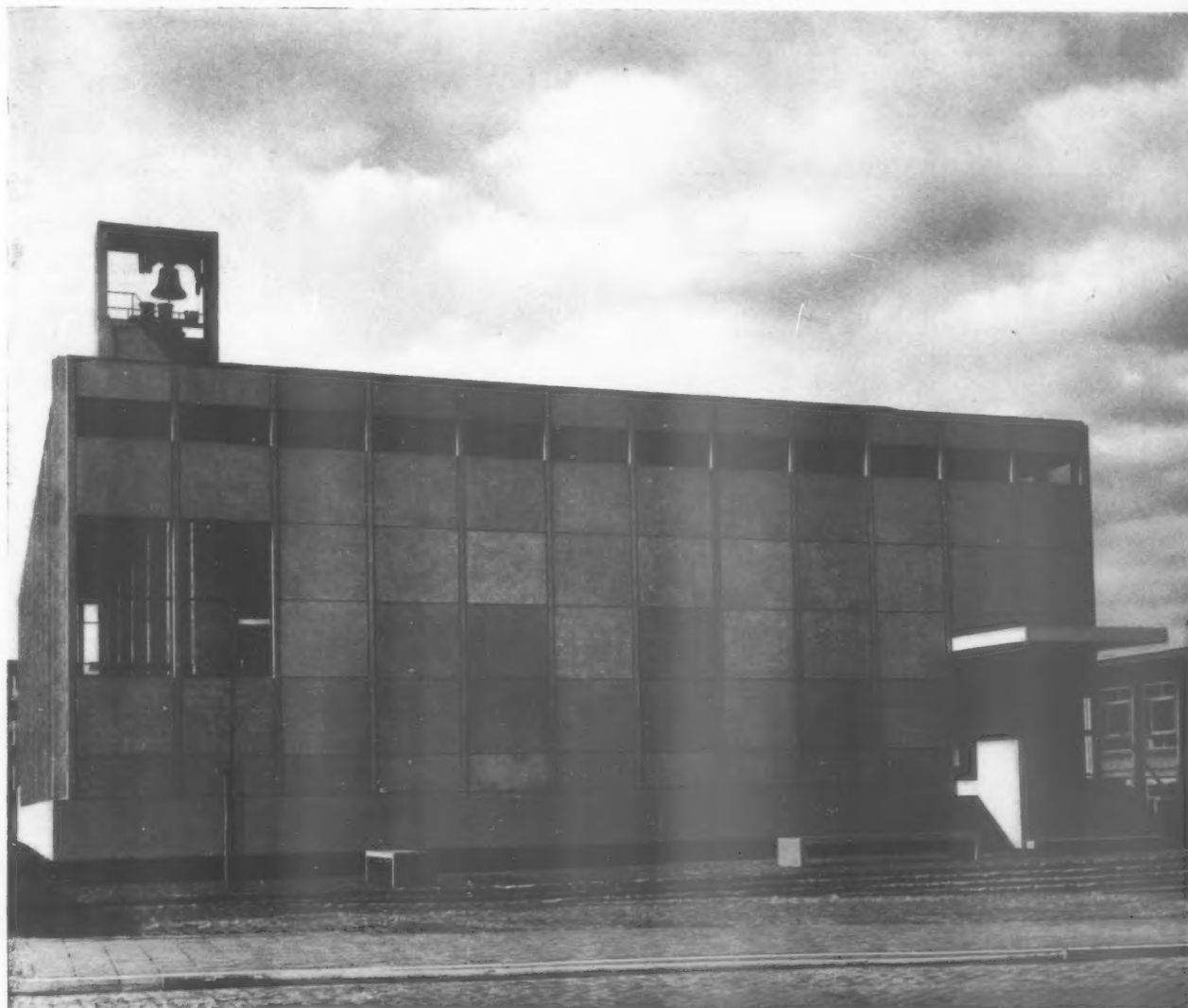


working detail

WALLS AND PARTITIONS: 87

CONCRETE WALL: CHURCH IN ROTTERDAM

*J. H. van den Broek and J. B. Bakema, architects (material supplied by Martin Lawrence)*



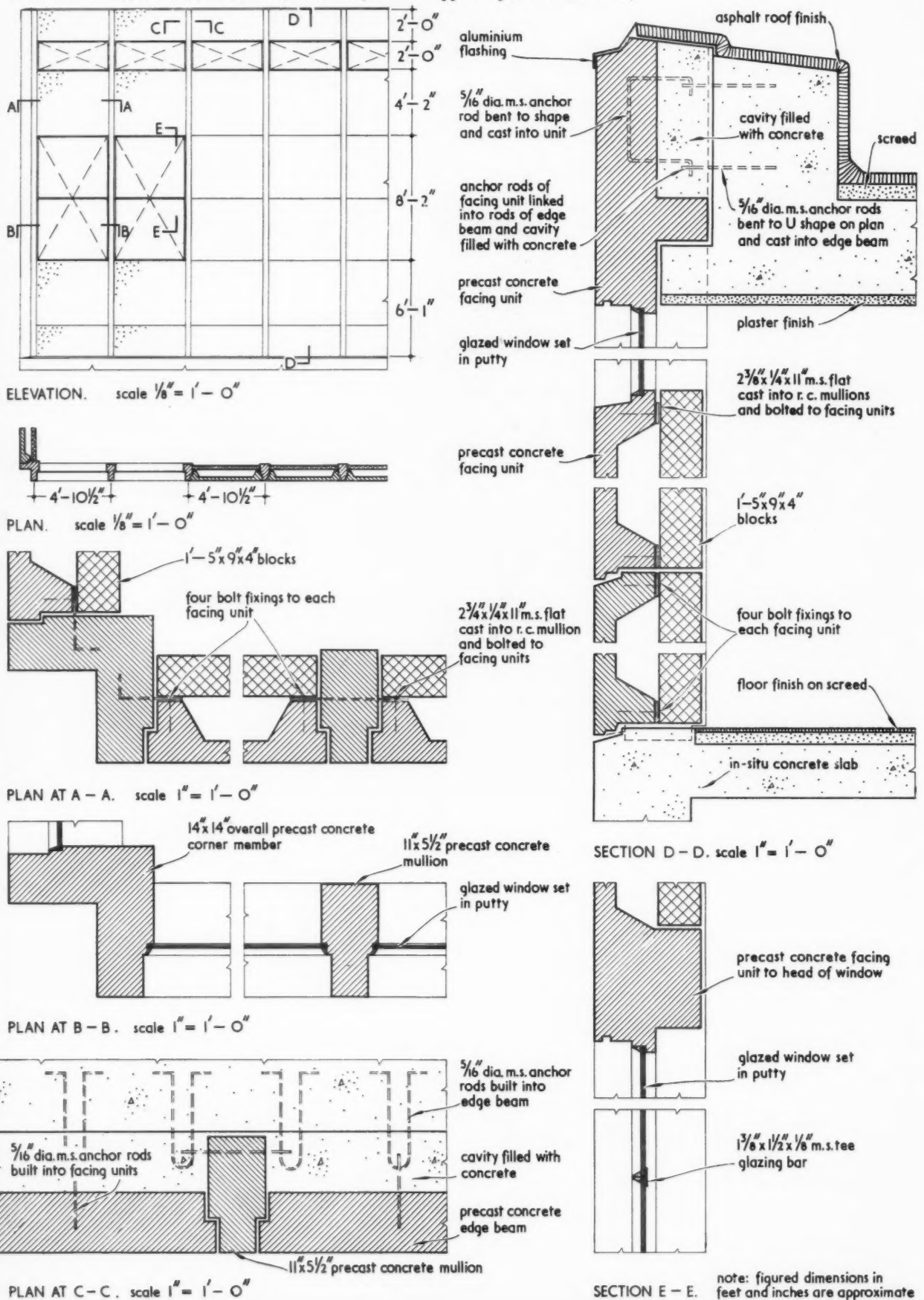
*This detail shows a very accomplished example of the use of high-quality precast concrete in external panel walling. Note the section round window openings and the avoidance of a separate frame for fixed lights.*

## working detail

## WALLS AND PARTITIONS: 87

## CONCRETE WALL: CHURCH IN ROTTERDAM

J. H. van den Broek and J. B. Bakema, architects (material supplied by Martin Lawrence)







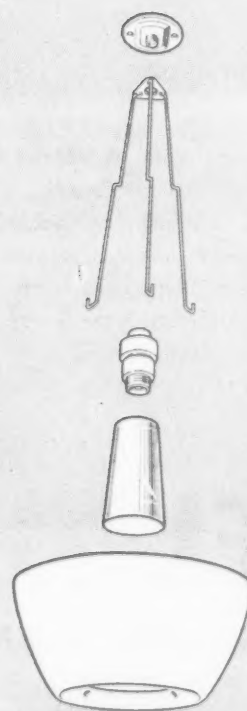




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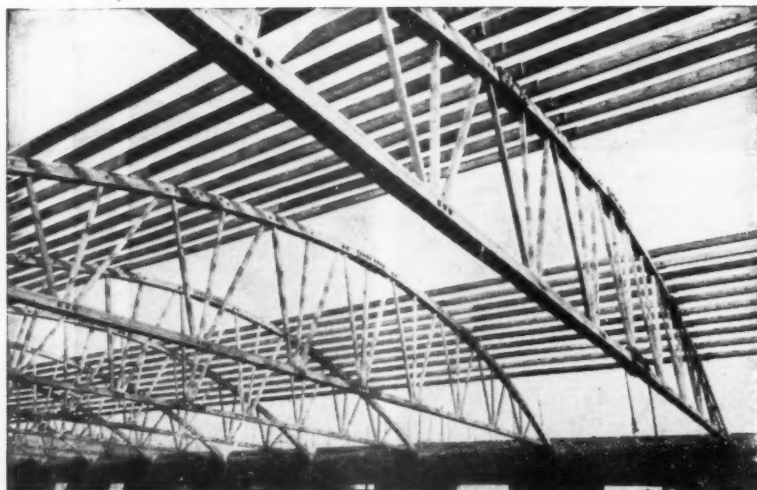
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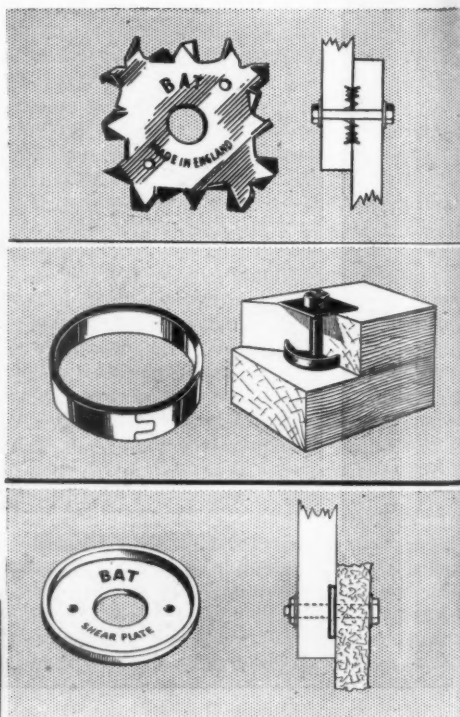


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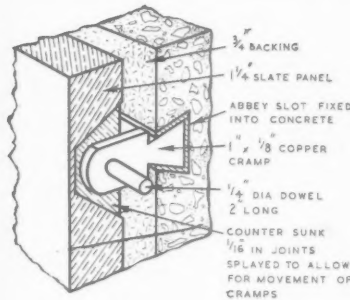


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lends added distinction to SHELL'S new headquarters at South Bank, London

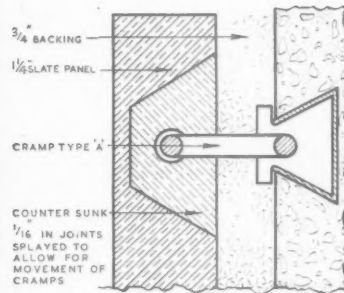


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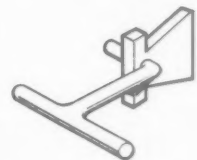


## TYPICAL CRAMP

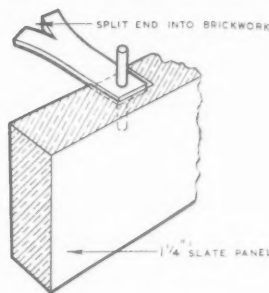
A 1 in. by  $\frac{1}{8}$  in. copper cramp is (a) doweled into a  $\frac{1}{8}$  in. splayed counter sunk in a panel of Broughton Moor slate, and (b) set into an Abbey slot in the concrete.



## CRAMP TYPE A



Splayed counter sunk and swivel type cramp make ample allowance for movement.



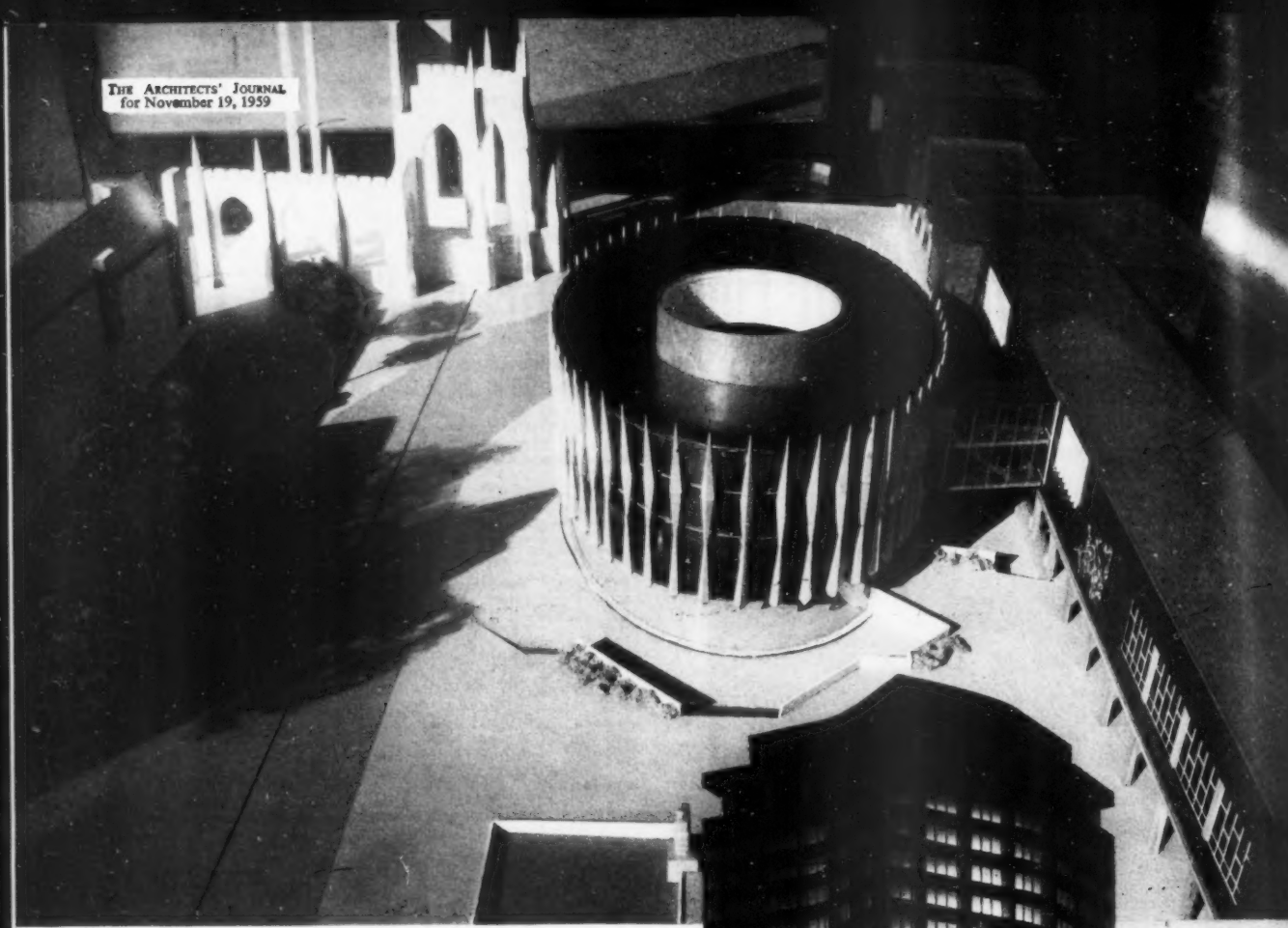
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One end of 4 in. long cramp is split for setting into brickwork. The other is drilled to receive 2 in. long pin.

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THE ARCHITECTS' JOURNAL  
for November 19, 1959

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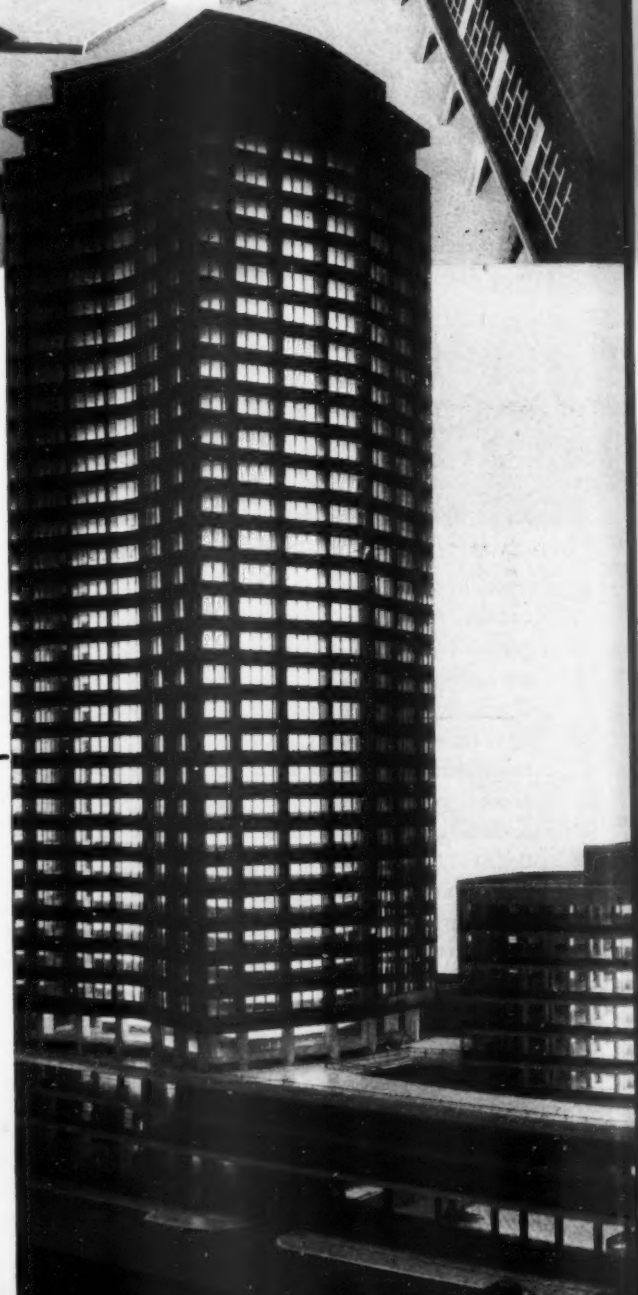
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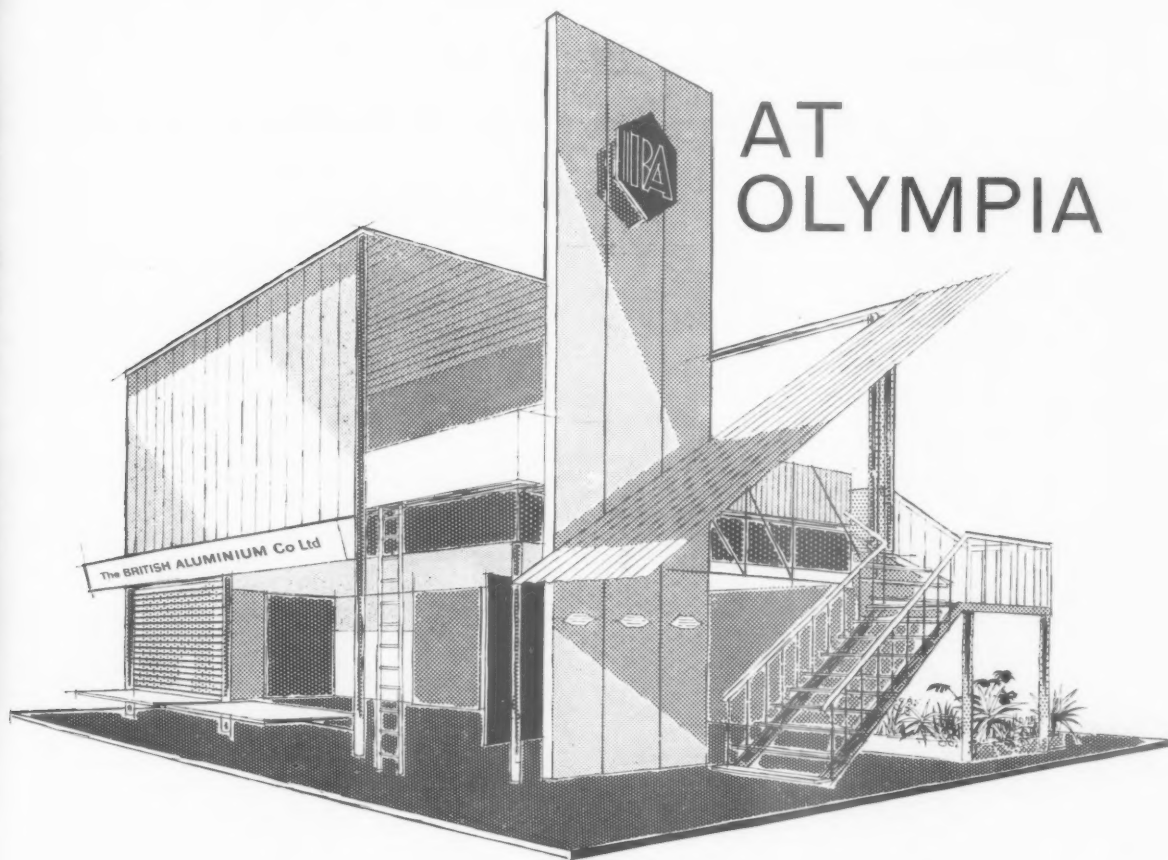
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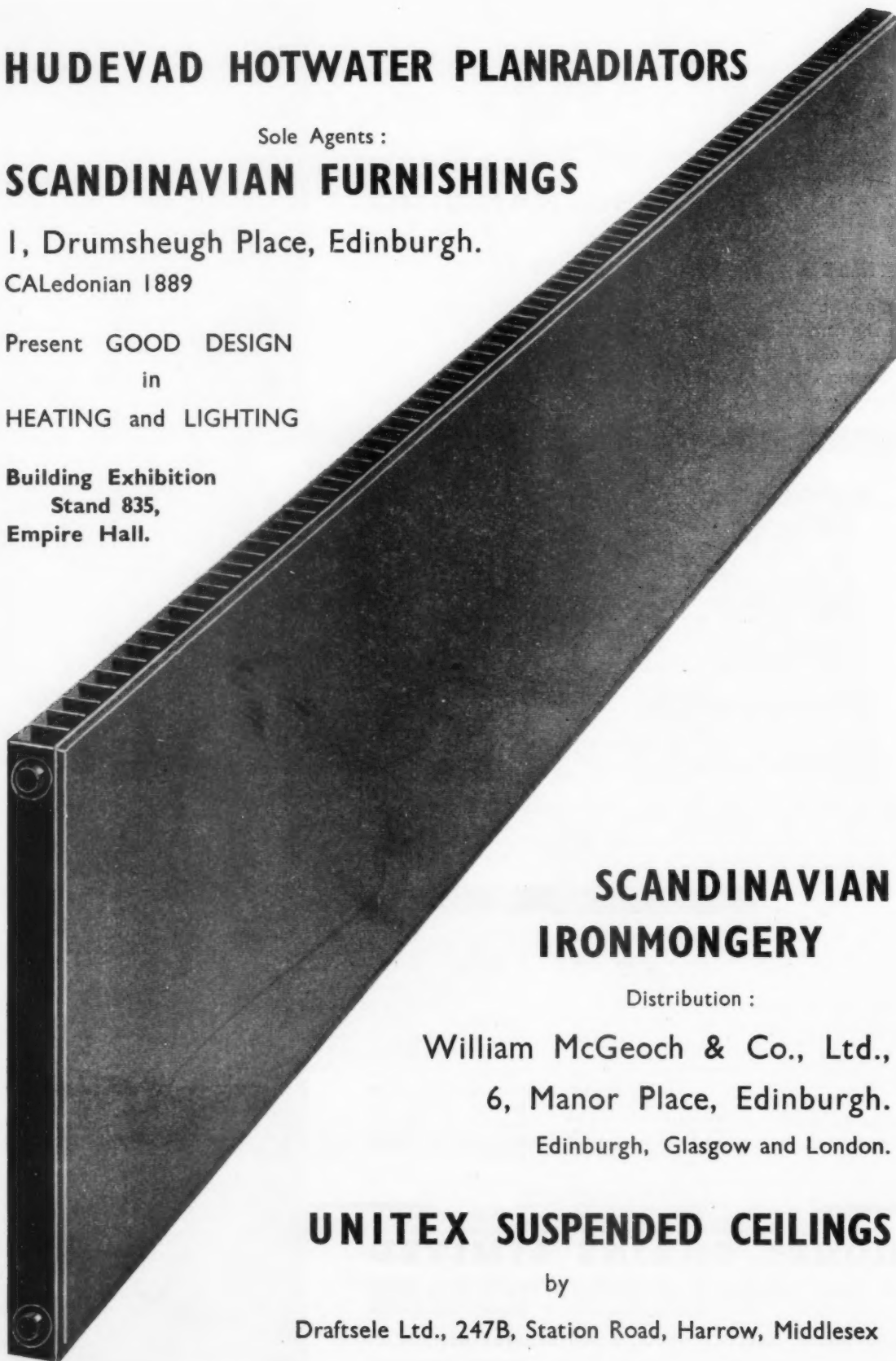
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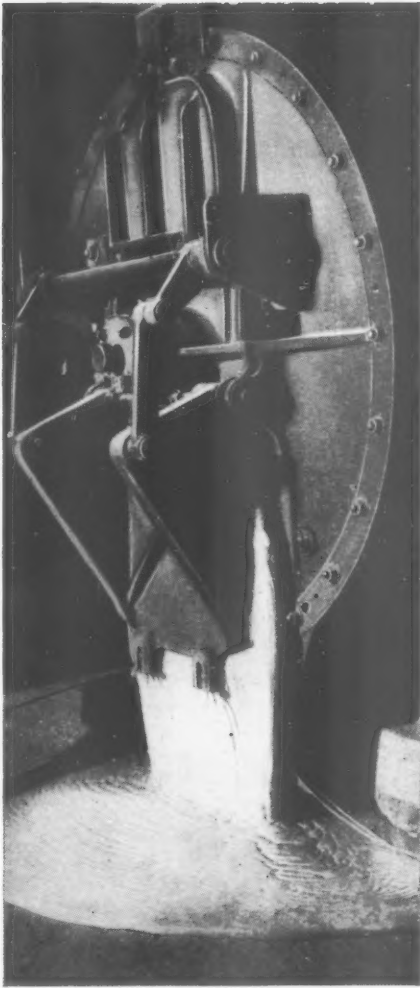
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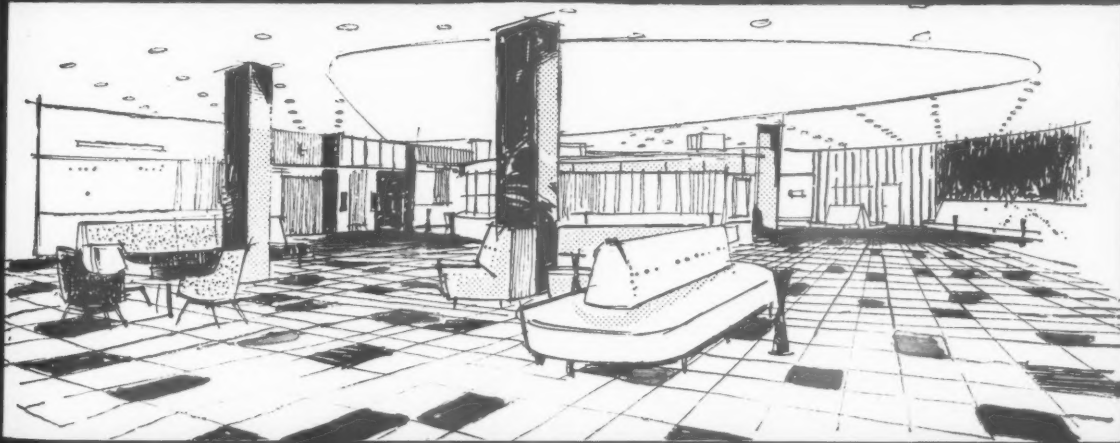


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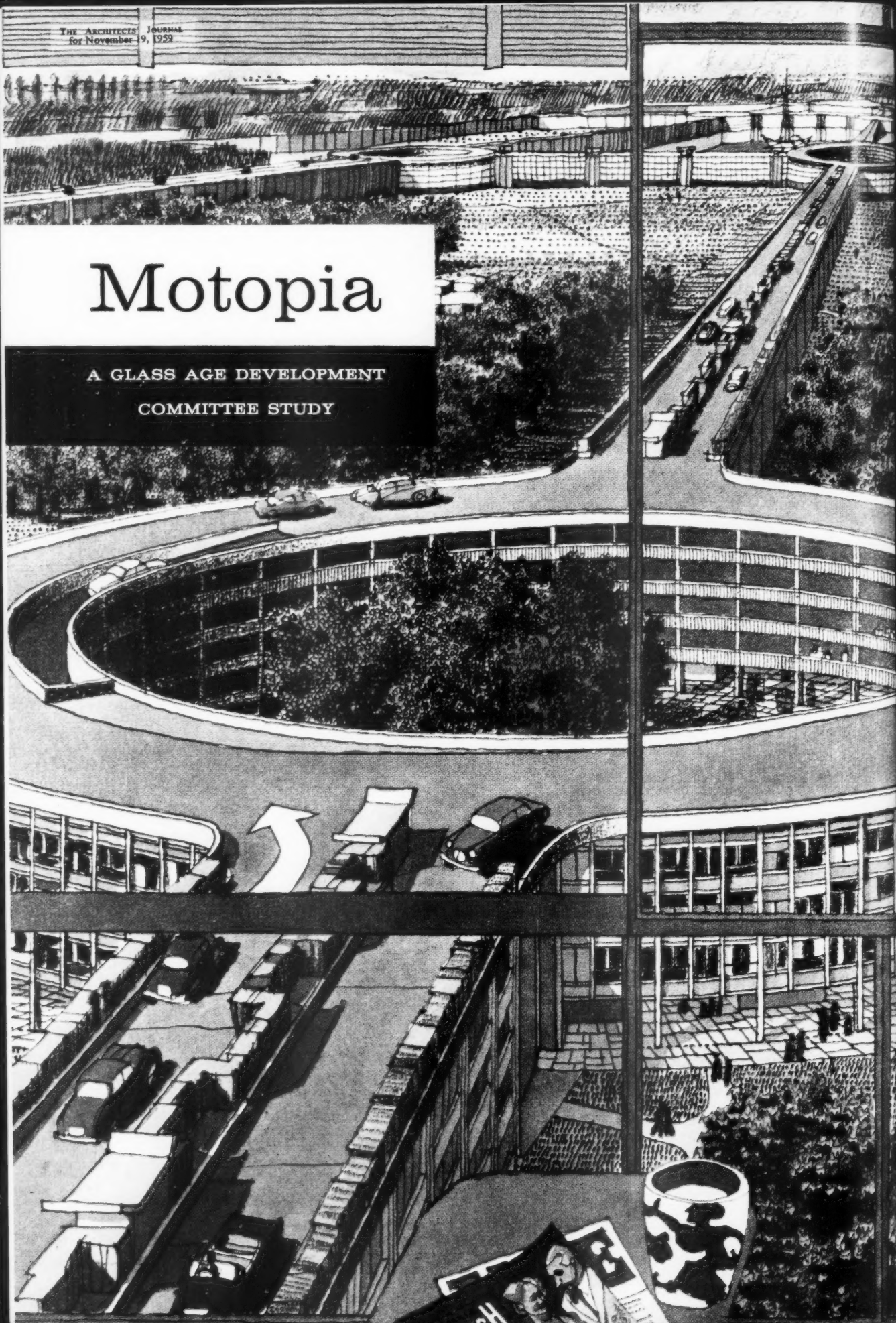
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# Motopia

A GLASS AGE DEVELOPMENT  
COMMITTEE STUDY







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One of the waterways which provides internal public transport—water-bus stops are provided at 15 of the 35 roundabouts.

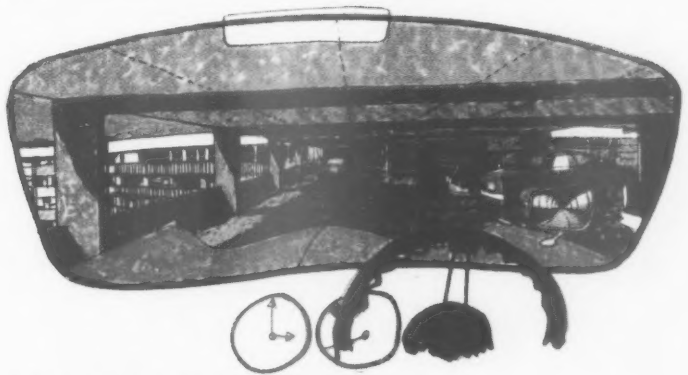


## Motor Traffic in Motopia

The pattern of Motopia is laid on a grid approximately 1200 ft. x 800 ft. at the junctions of which are the roundabouts with ramps leading down to and up from the fourth-storey mews and access roads.

The roof level roads are 17 ft. wide dual carriageways. Hedges and barriers, 3 ft. 6 in. high, flank either side. The uninterrupted flow of traffic makes any control system unnecessary.

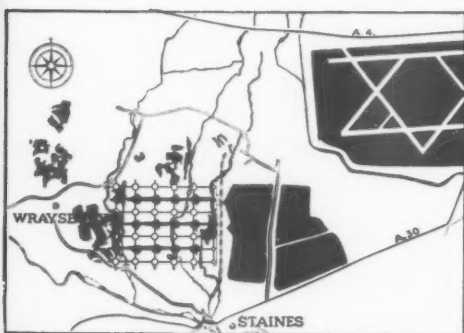
At Mews level the access road is 17 ft. wide, and there is parking space for one car per household, plus space for visitors' cars and tradesmen's vehicles. If several hundred cars were expected at one point (e.g. for a large wedding), a section of the high level road could be sealed off to form a park, and other traffic easily diverted by the nearest roundabout.



A "driver's eye" view of one of the mews roads.



The ramp linking the mews and high level roads.



Motopia is designed to overcome the unhappy effects of congestion by placing the roads upon the continuous terraces built in great squares, which provide accommodation for 30,000 people. This is the fourth postwar study prepared by the Glass Age Development Committee which consists of Jellicoe, Ballantyne & Coleridge, F.A.R.I.B.A., Edward D. Mills, F.R.I.B.A., and Ove Arup & Partners and is convened by Pilkington Brothers Limited.

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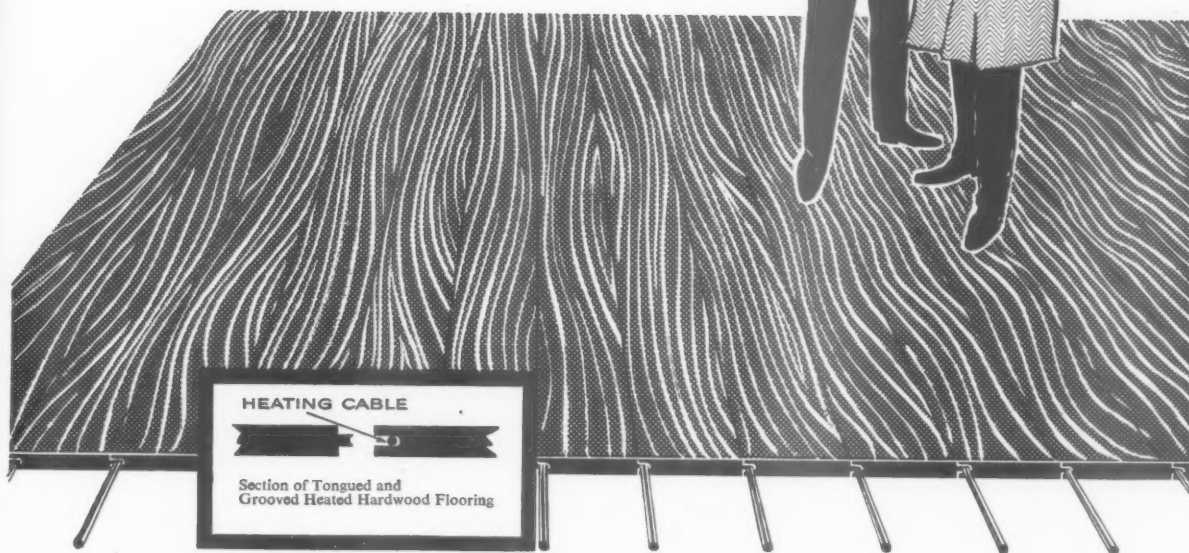




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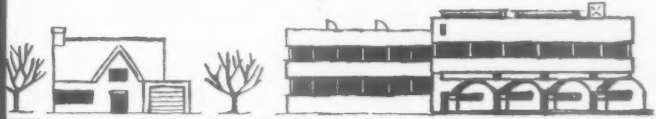
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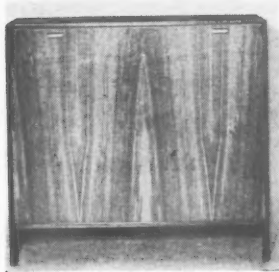
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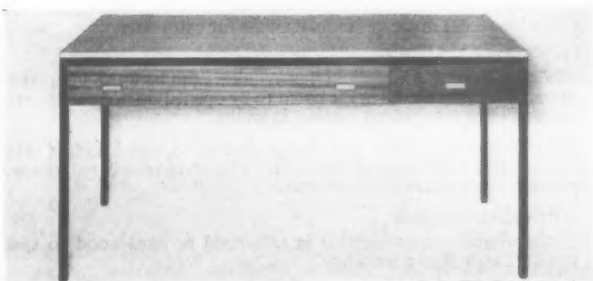
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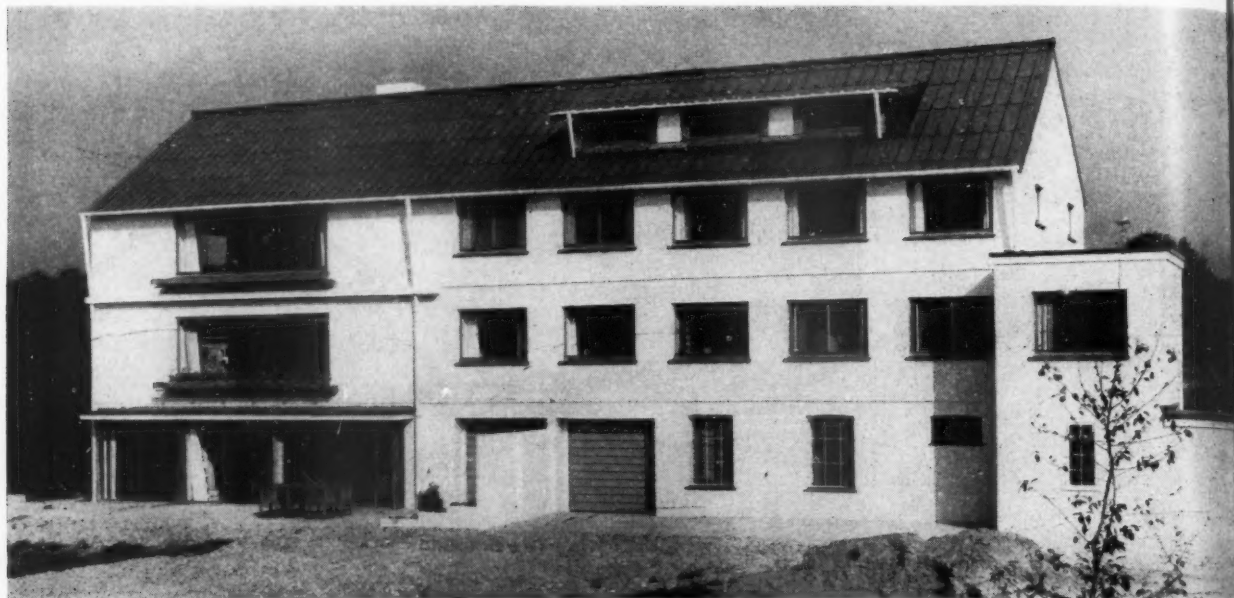


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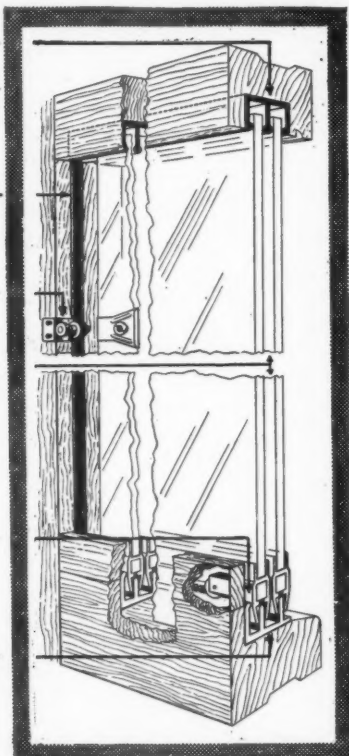
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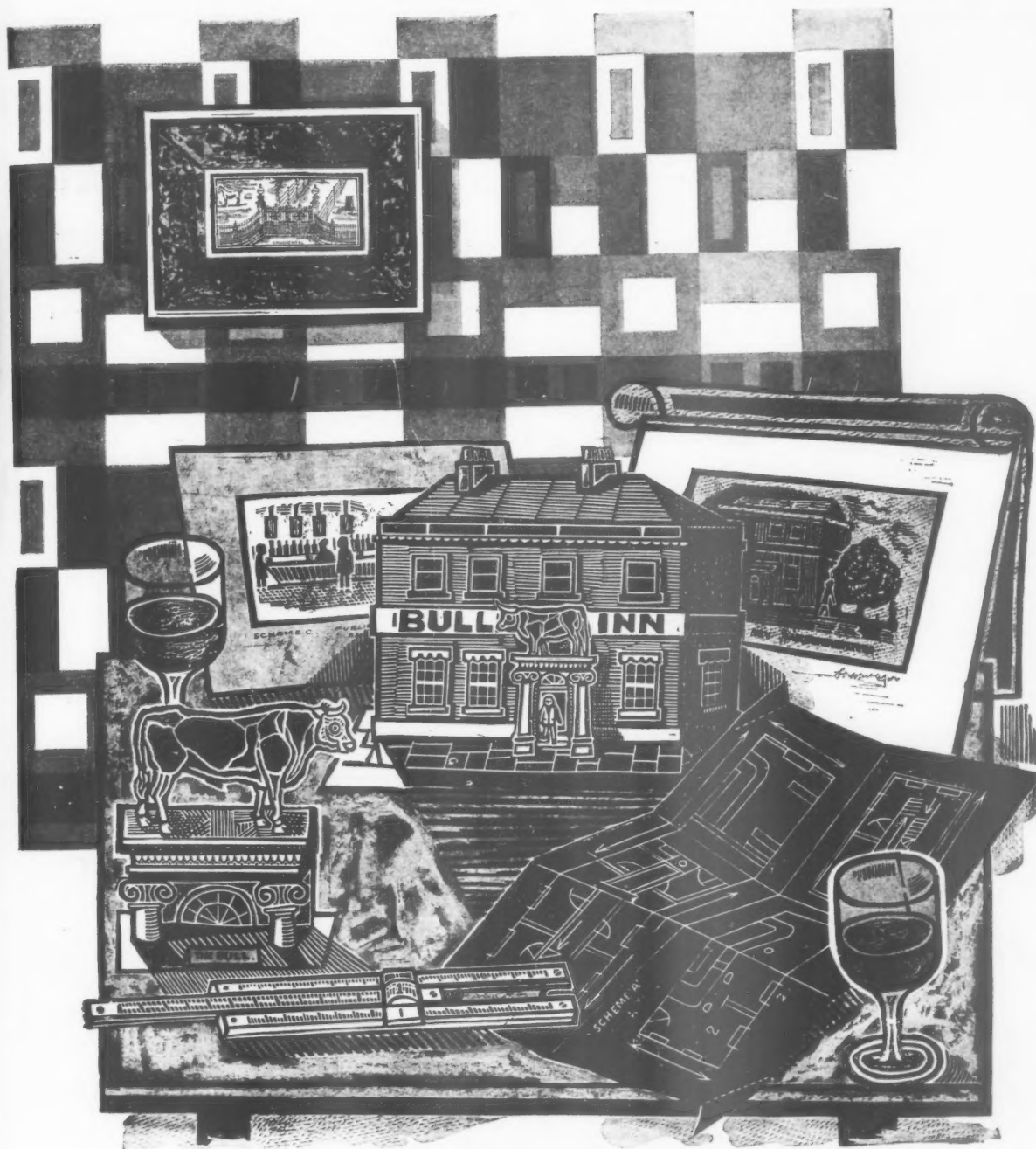
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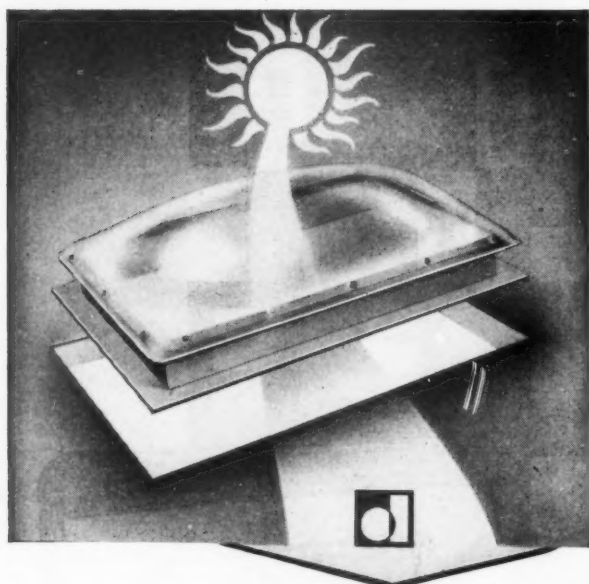
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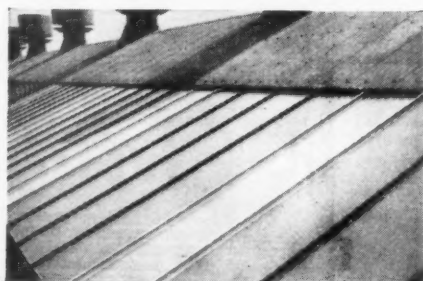
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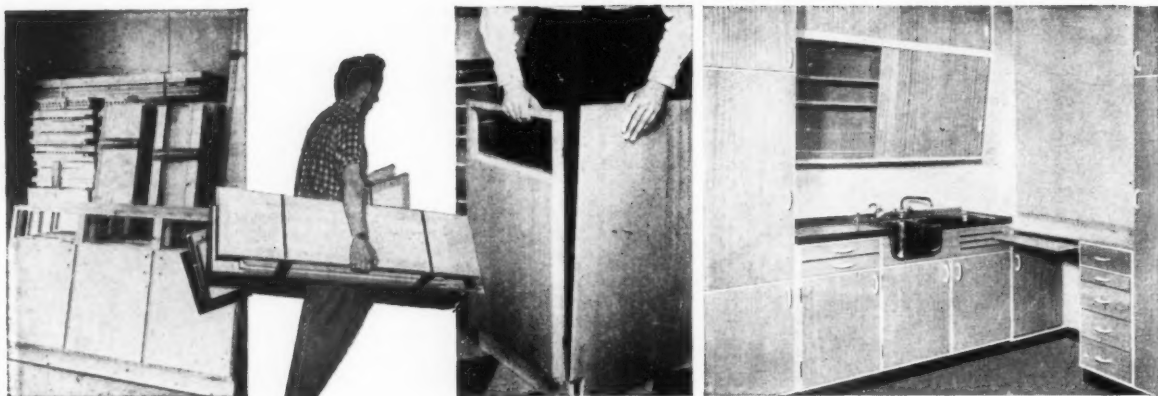
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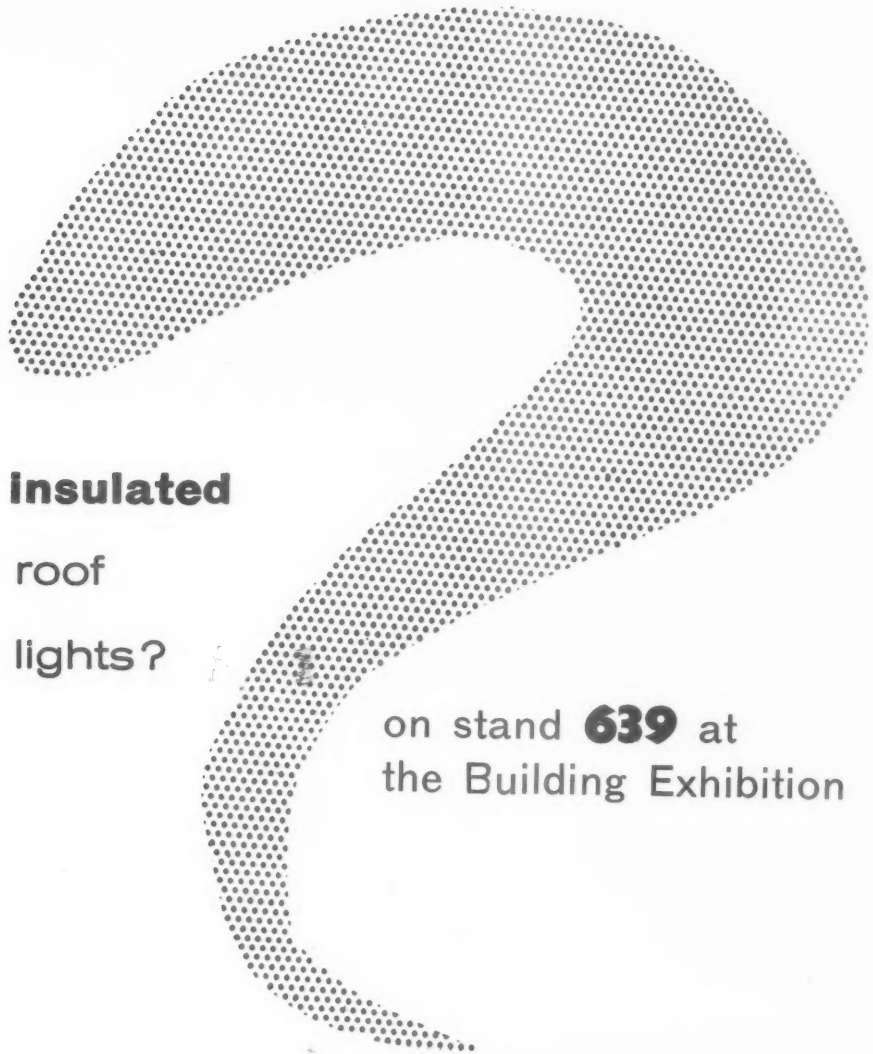
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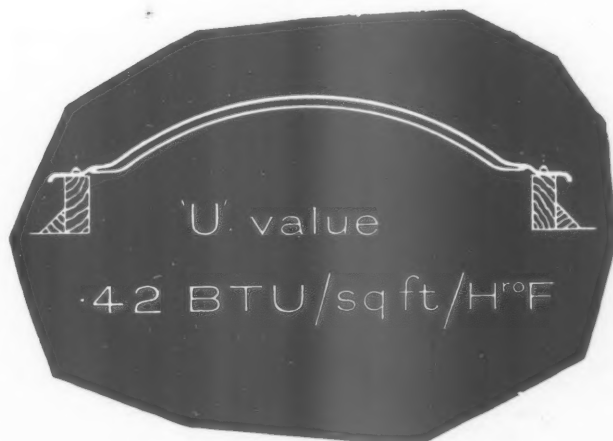
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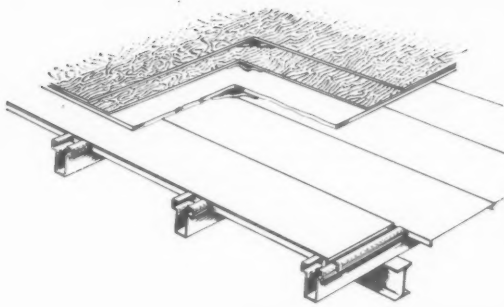
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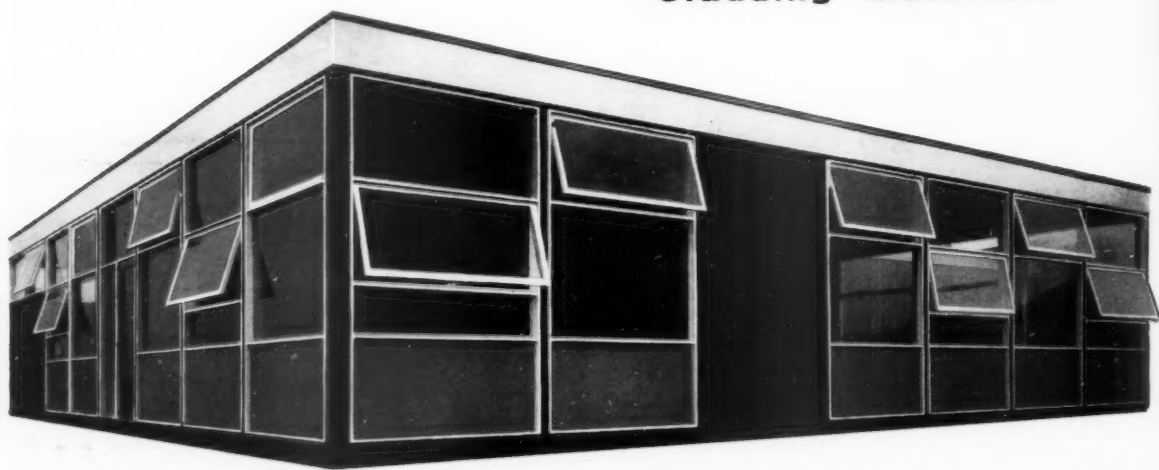


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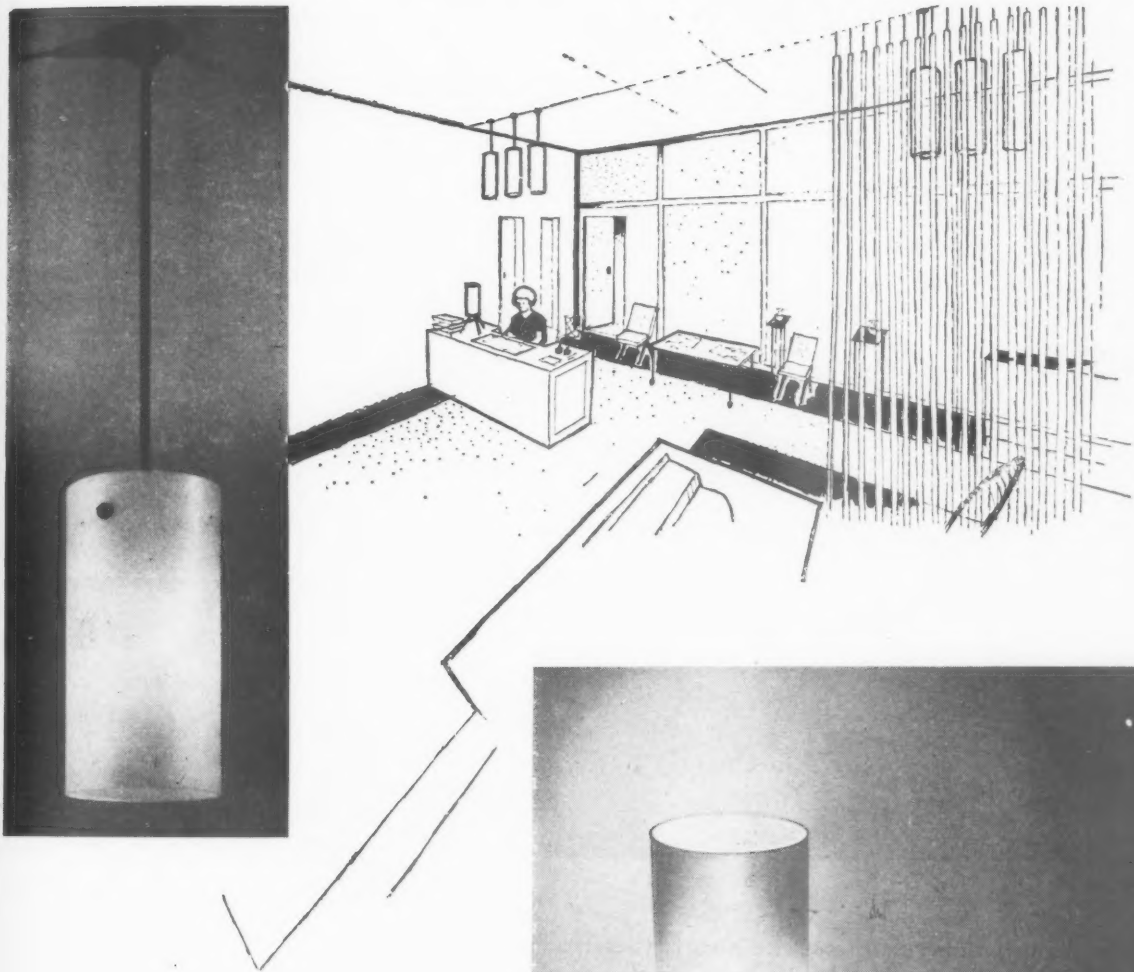
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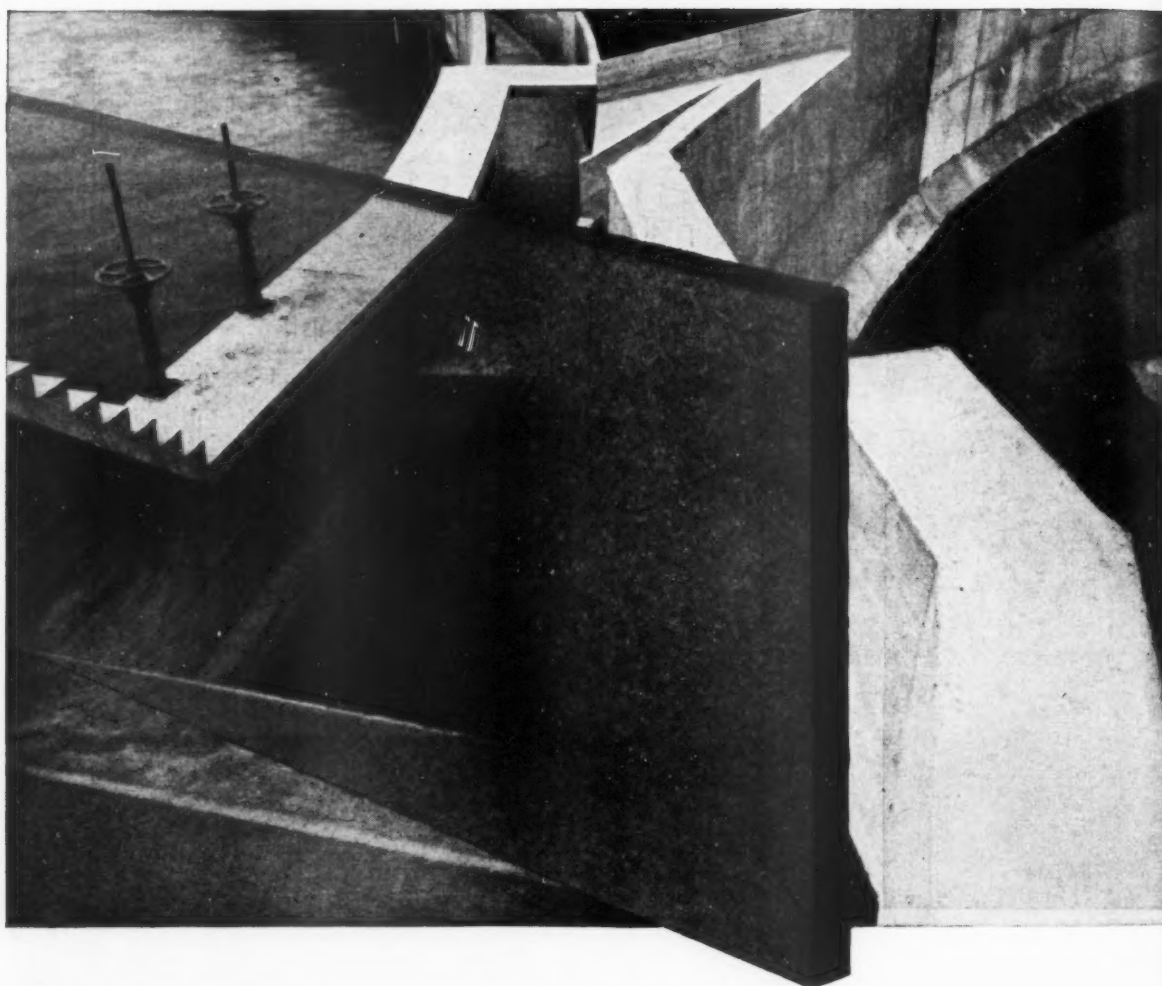
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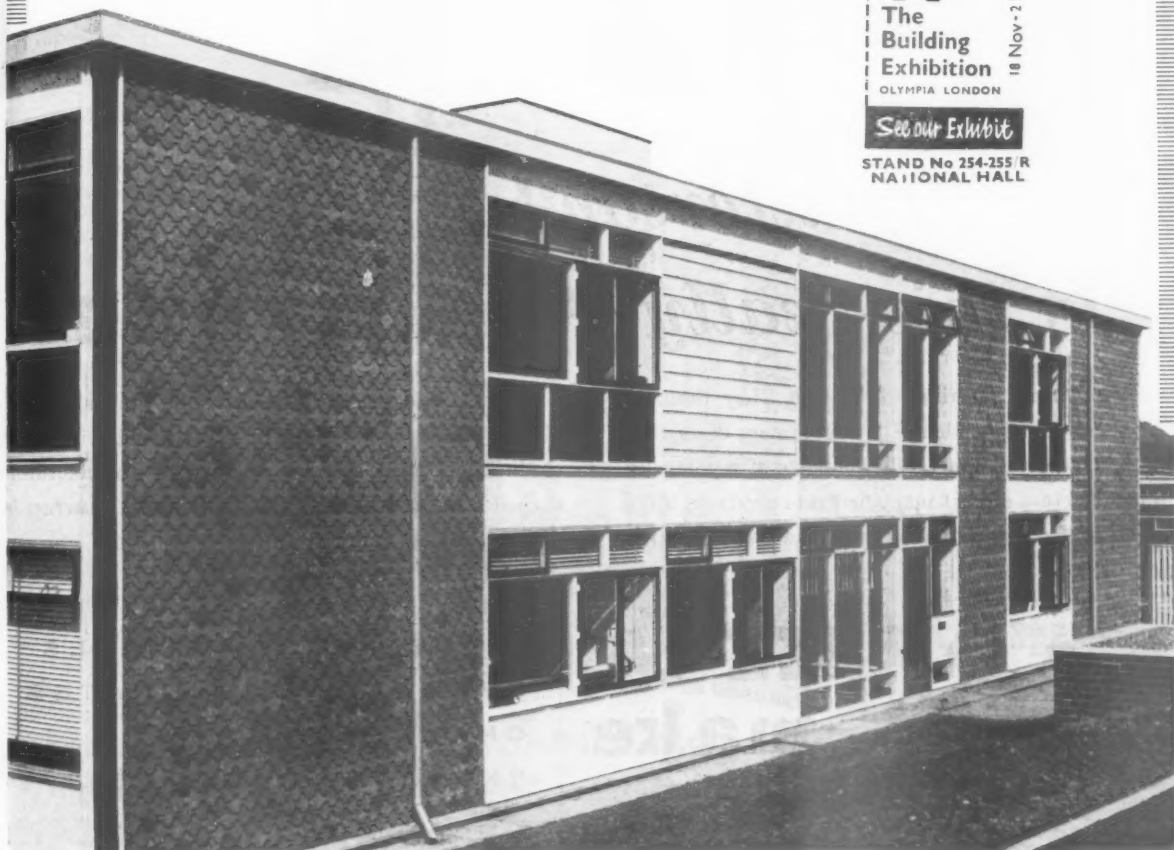


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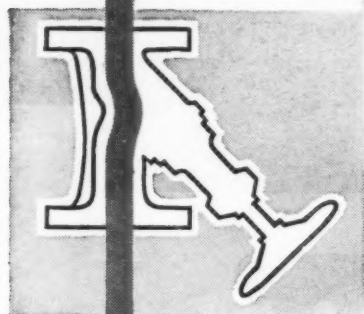
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7. New Design Handwheel for comfortable and effective operation.
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9. Fig 1200 also suitable as a general purpose Steam Stop Valve.

There are 3 models of this valve in sizes from  $\frac{1}{2}$  in. to 2 in.

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Please write for your copy of the brochure in which they are fully described and illustrated.

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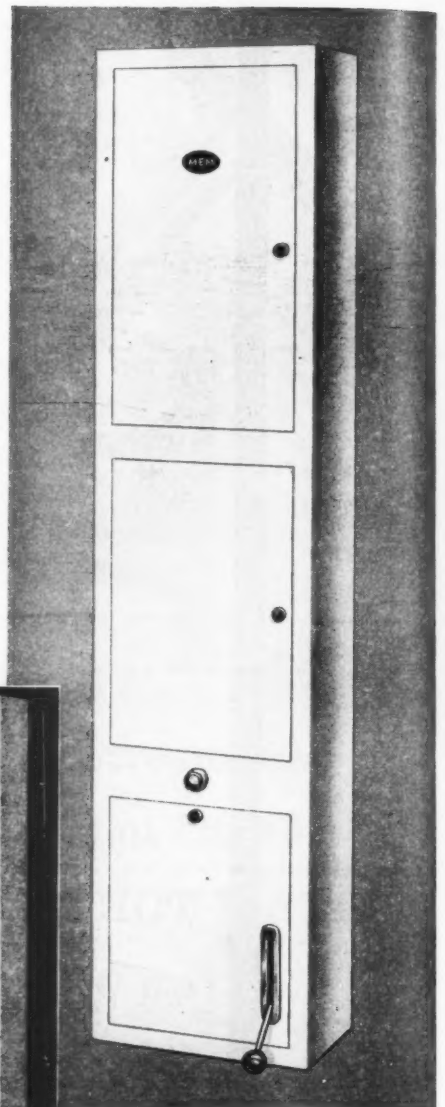
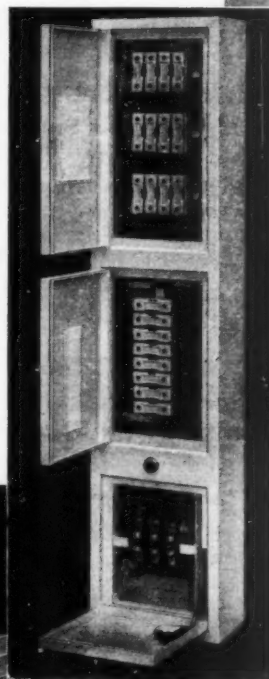
A typical custom-built control panel designed to the specification of R. W. Gregory & Partners, Consulting Engineers of Newcastle-on-Tyne, for the new Physics Teaching Block of Kings College, University of Durham.

This is one of a number at present being made up in our Panels Department, which is fully equipped to manufacture custom-built switchboards, control units and motor control cubicles, etc.

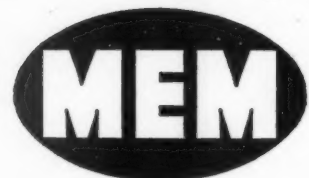
The unit illustrated incorporates the new "EXEL" distribution board interiors which are suitable for either rewirable or H.R.C. fusing, and in the case of H.R.C. types, the fuse carriers will accommodate H.R.C. cartridge fuses to B.S. 88, 1952, Clause J. dimensions.

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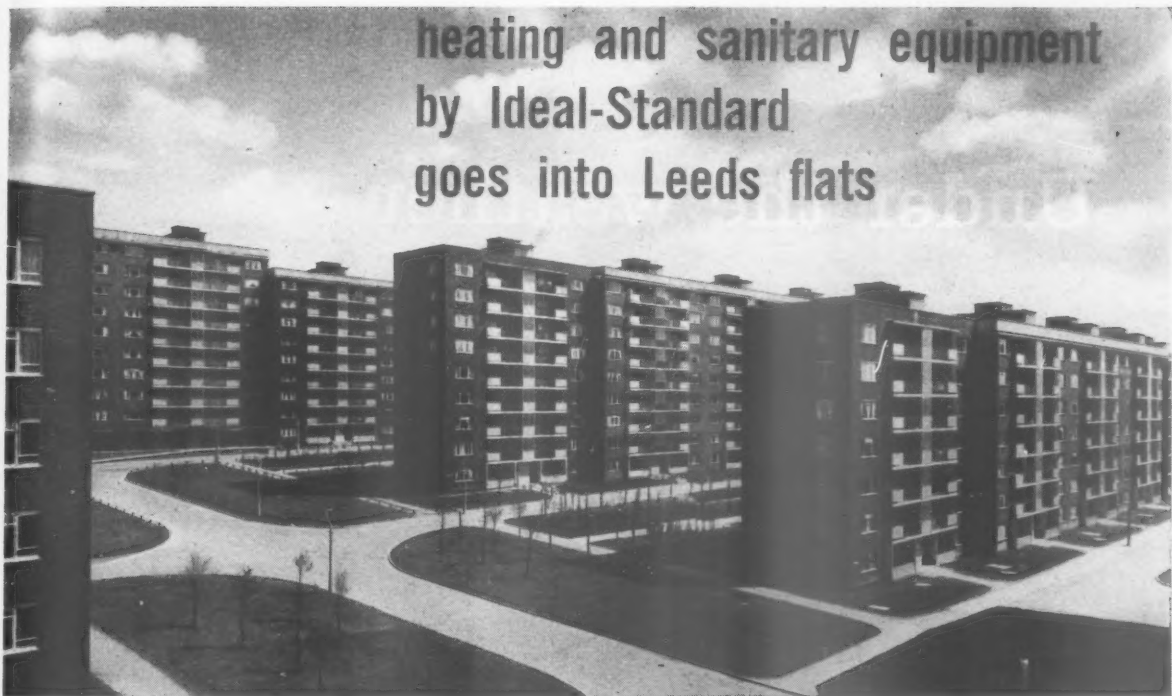


*The cabinet is of dust proof construction. The covers, which are flush pattern, are mounted on concealed hinges and are fitted with gaskets of resilient foam rubber.*



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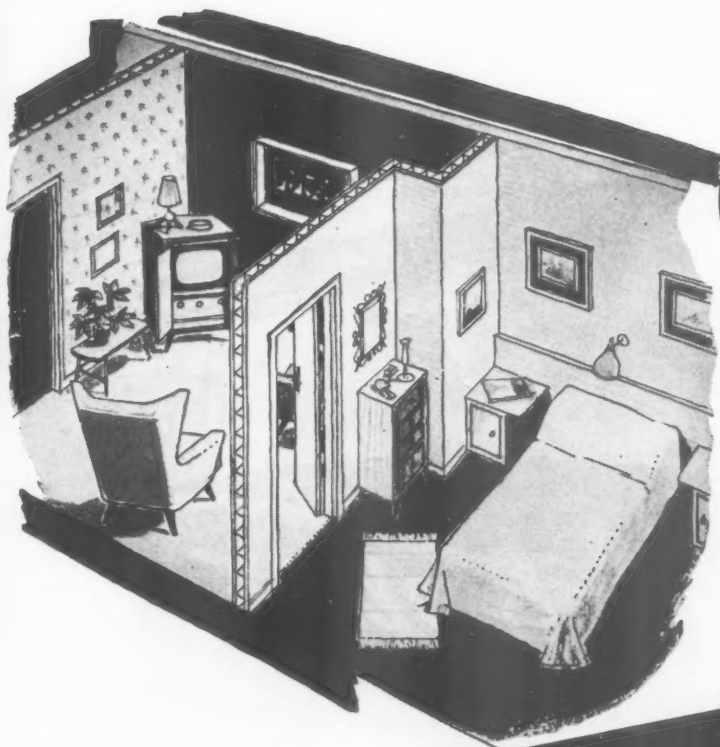
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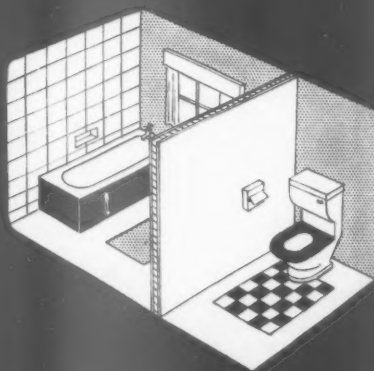
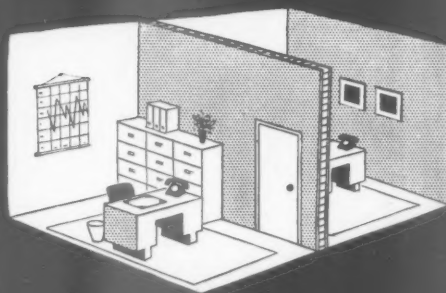
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| ★ 1 Acid resisting                             | ★ 5 Stop ended outlet section in one unit to any length up to 6ft. |
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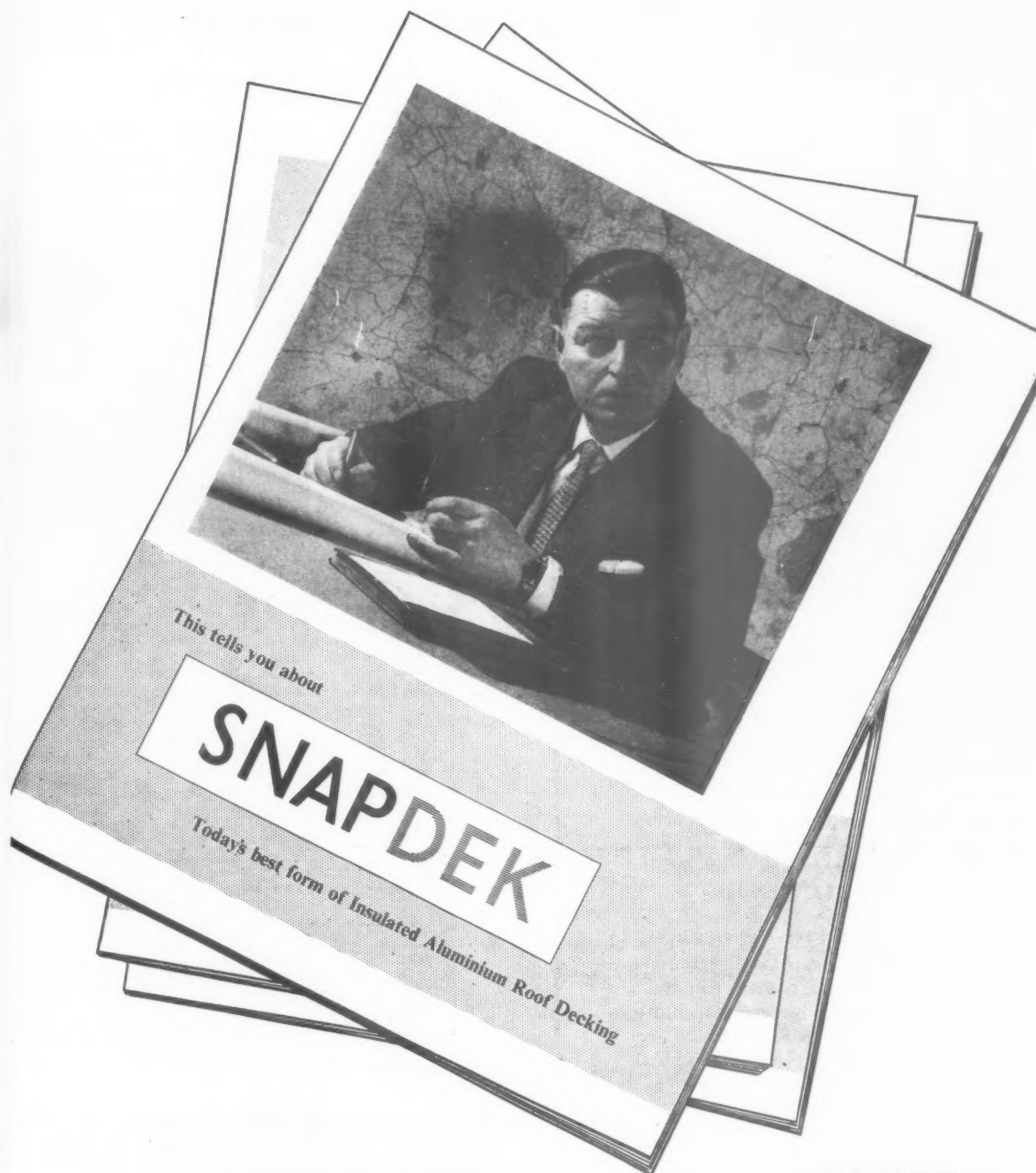
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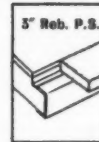
2" G.R.F.



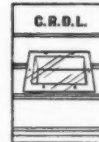
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3" Reb. P.P.



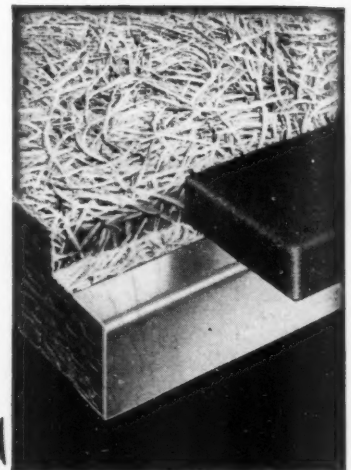
3" Reb. P.S.



G.R.O.L.



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3" Reb.

"3" Reb." is the identification symbol for our 3" Rebated Channel Reinforced Wood Wool Roofing Slab, which is designed for use in conditions of high humidity. A strip of cork or ONAZOTE lies snugly in the recess formed by two adjacent channels when the slabs are butted together, creating a discontinuity and so eliminating the "cold bridge" effect which would otherwise cause condensation along the steel reinforcing strips. Only Thermacoust offers this advantage.

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3" Reb. is ideal for roofing kitchens, laundries, weaving sheds, swimming baths or any other buildings whose contents, uses or heating systems create abnormal atmospheric humidity.

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**THERMACOUST LTD**

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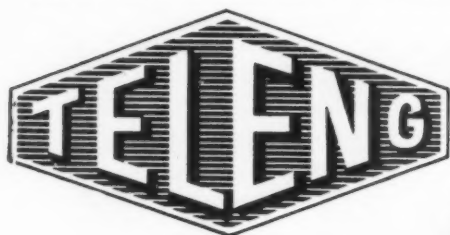
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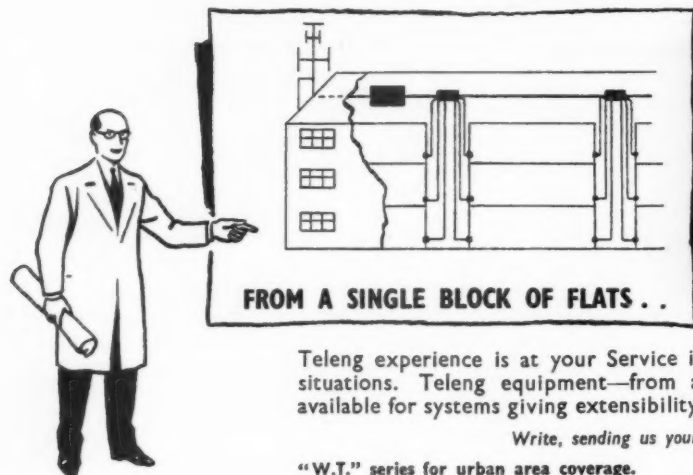
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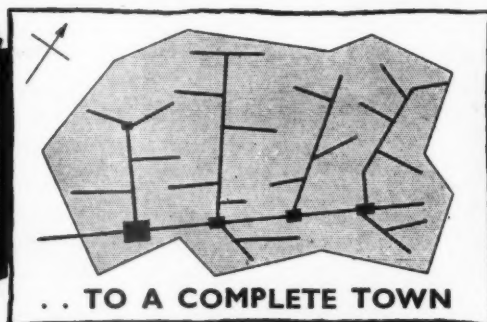
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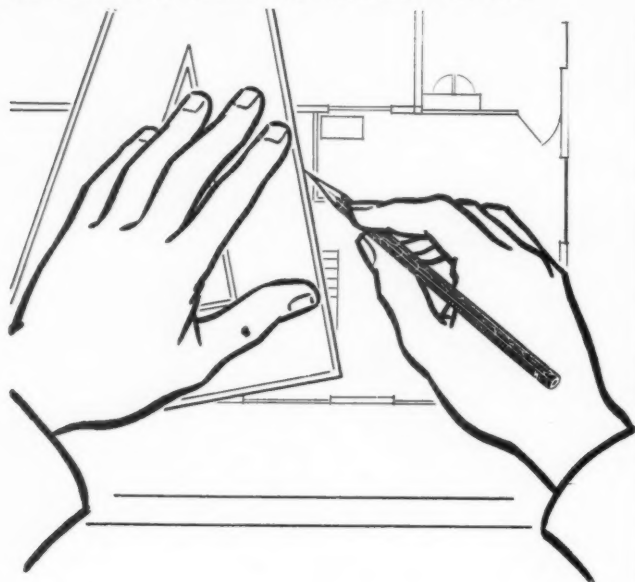
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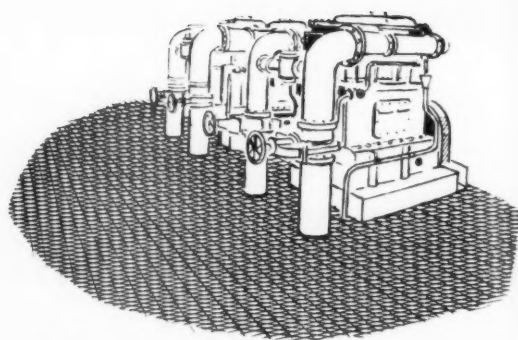
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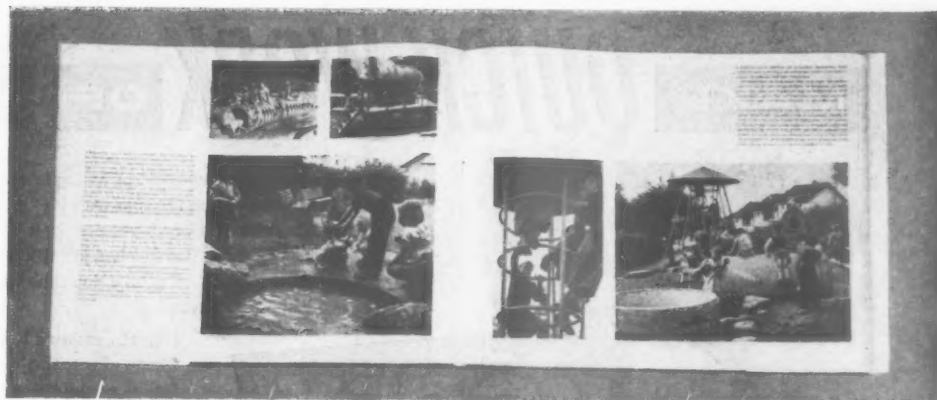
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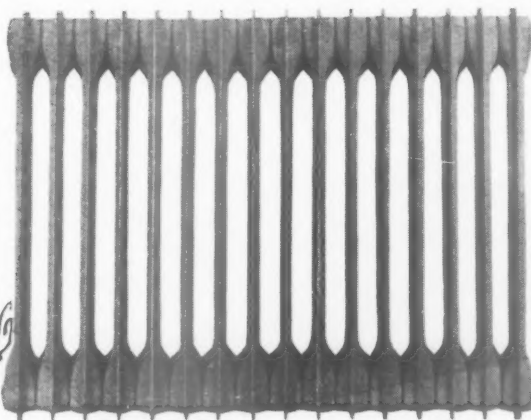
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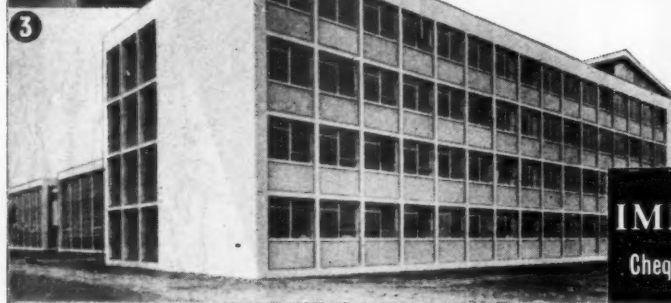
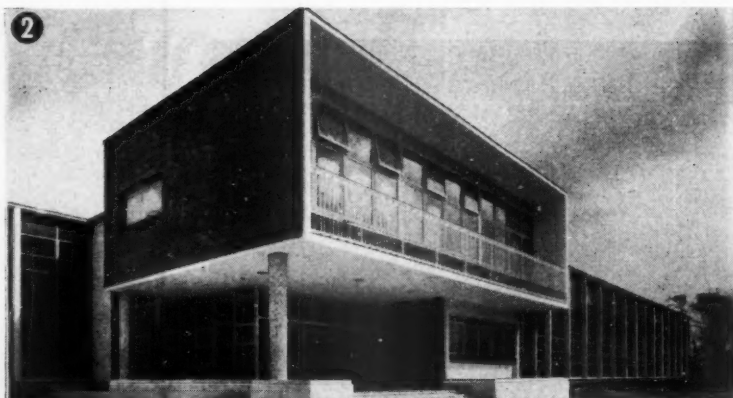
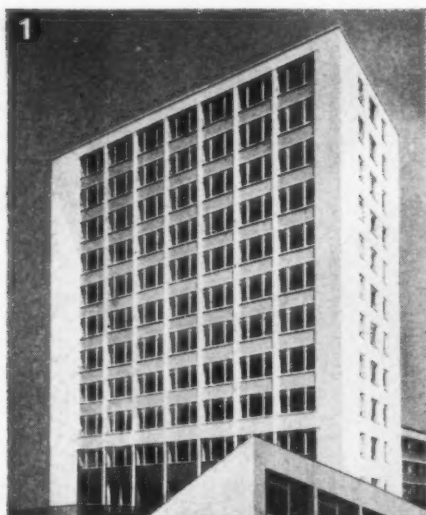
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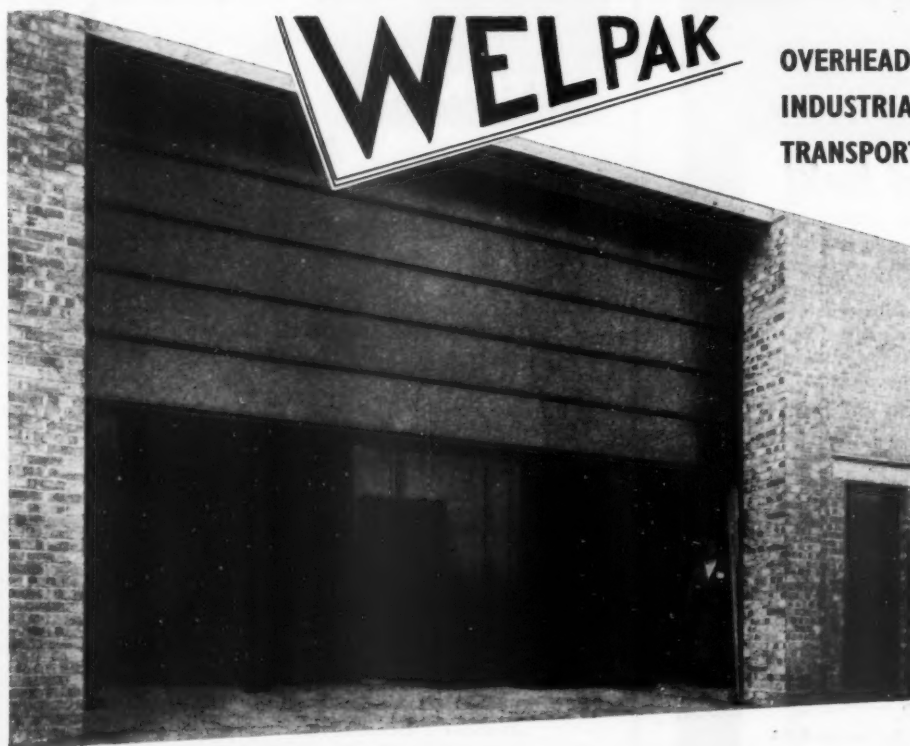
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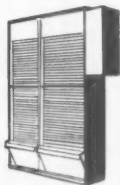
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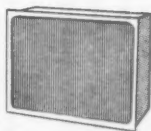
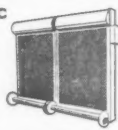


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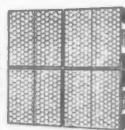


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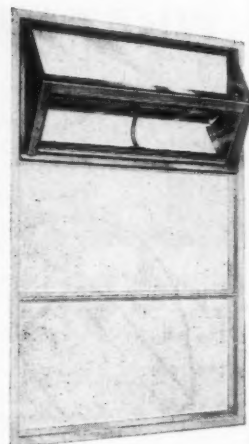
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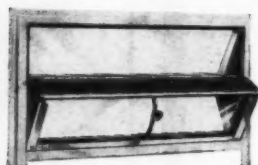
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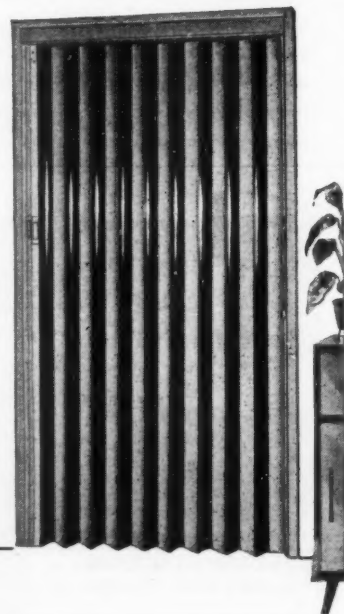
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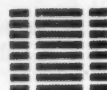
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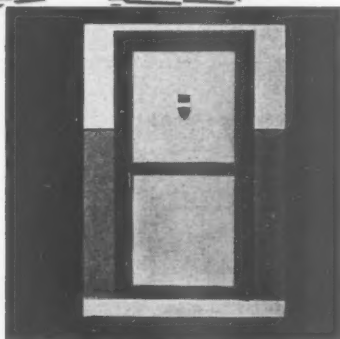
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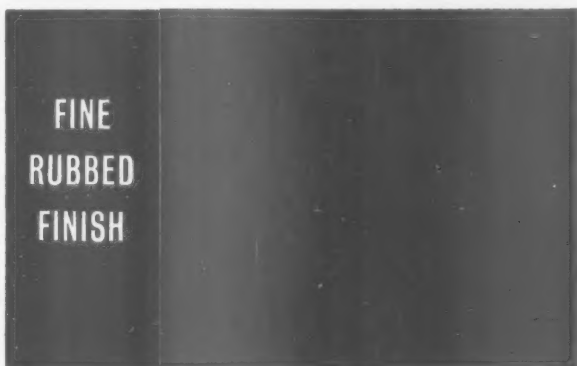
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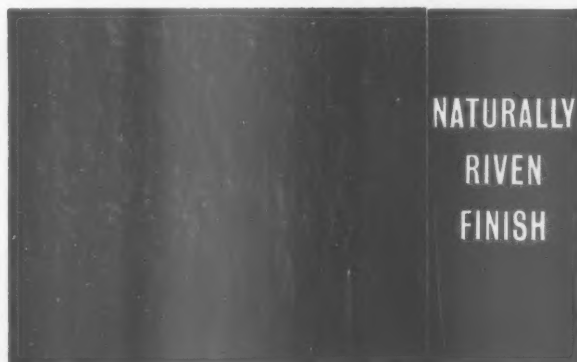
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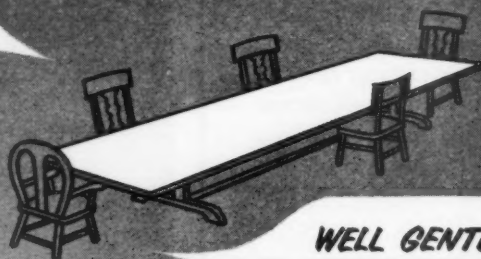
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MS38SB/5319/T Double drainer slop bowl sink. Overall size 5'3" x 1'9".



RCS17/4619 Single Drainer rinsing bowl sink. Overall size 4'6" x 1'9".

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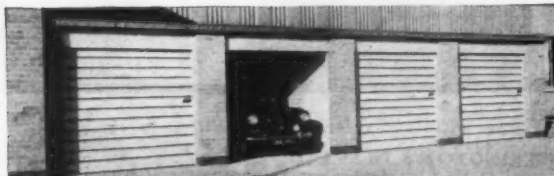
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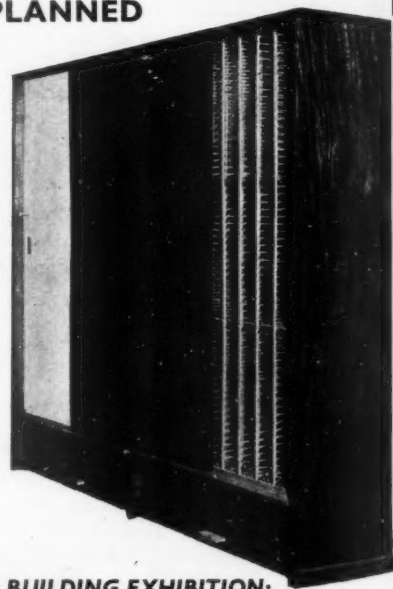
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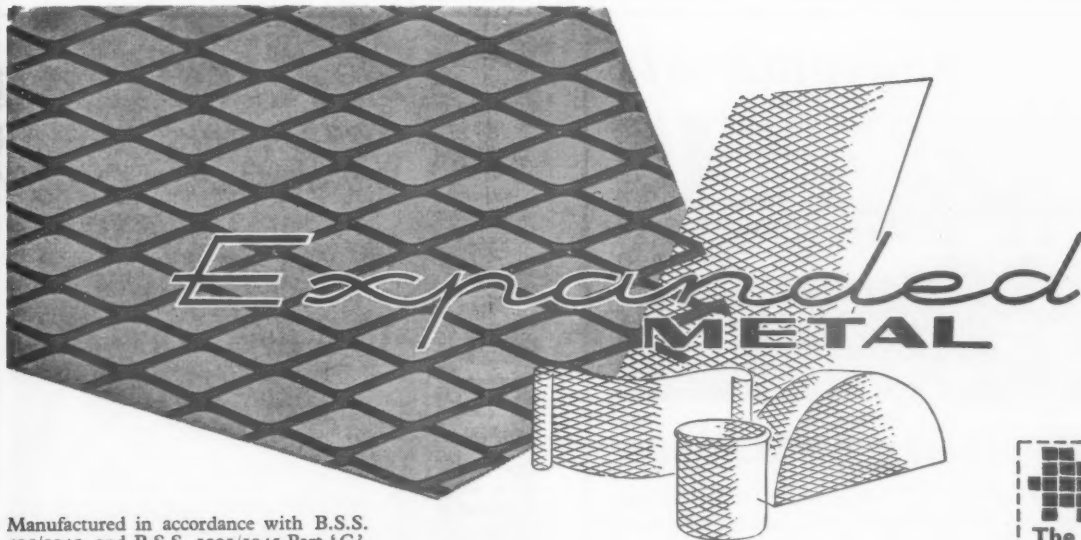
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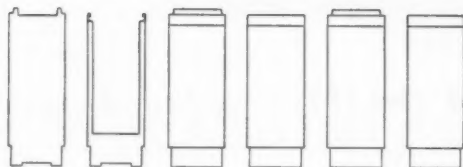
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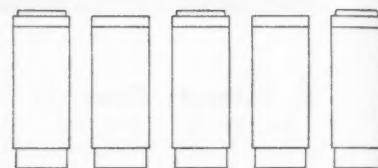
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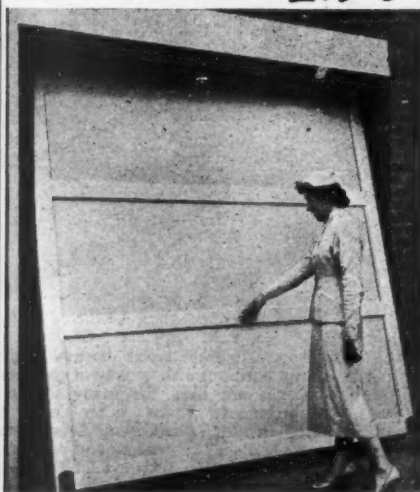
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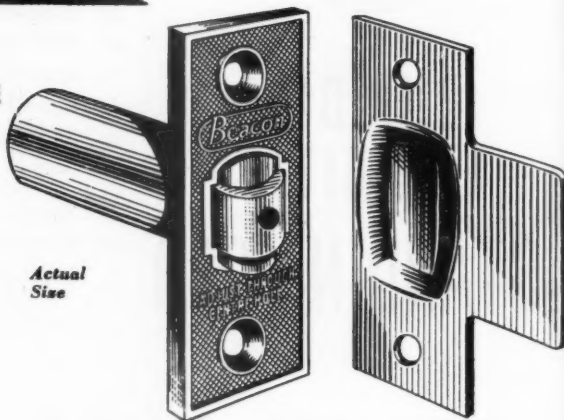
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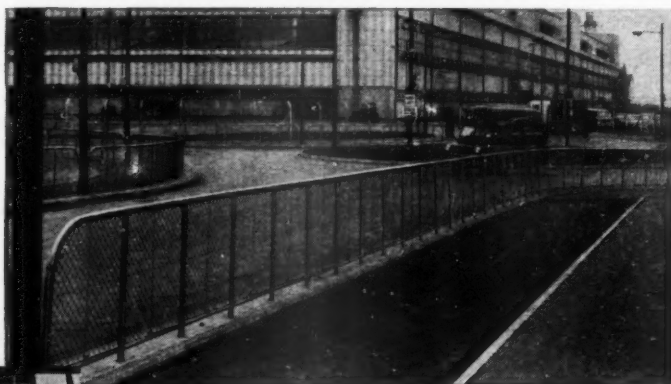
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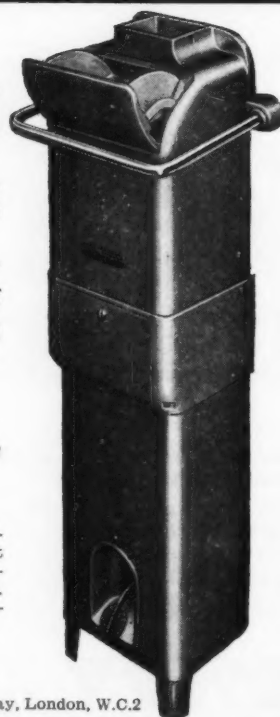
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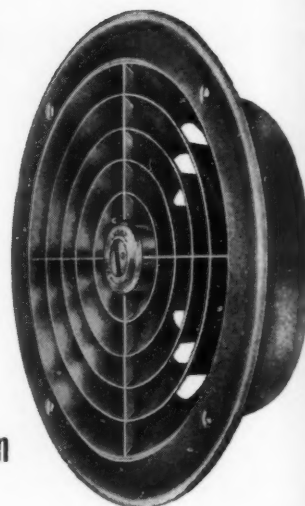
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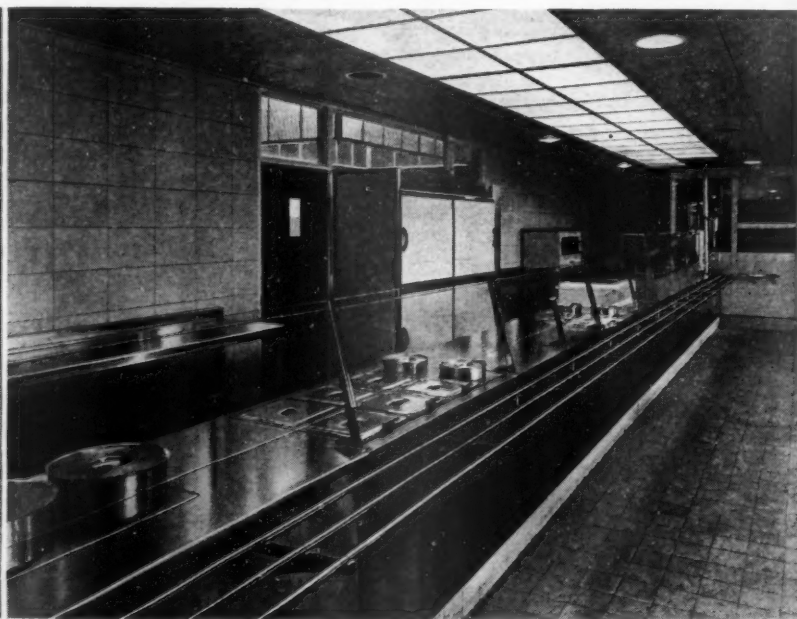
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Application forms from the County Architect, P.O. Box 26, County Hall, Preston, to be returned as soon as possible. 6600

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ARCHITECTURAL ASSISTANT, Grade A.P.T. II, £765 to £880, plus London weighting. Form of application from Borough Engineer & Surveyor, Town Hall, Wimbledon, S.W.19. Returnable by Friday, 27th November, 1959. Canvassing disqualifies. 6731

## COUNTY BOROUGH OF SOUTHAMPTON

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Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, by 1st December, 1959. 6749

## APPOINTMENT OF TEMPORARY

## ASSISTANT ARCHITECT

## Grade A.P.T. IV

An Architect (Degree, Diploma or A.R.I.B.A.) is required to join a small, but enthusiastic, young group in the Architect's Department, working on the new Civic Centre at Ebbw Vale. The project includes Municipal Offices with Council Chamber and a covered Swimming Pool for immediate construction, with a large Public Hall to follow. Other interesting Schemes include a small Public Hall, Community Centre and an extensive Housing Programme.

The salary will be in accordance with Grade A.P.T. IV, the appointment being subject to one month's notice on either side, and the passing of a medical examination.

Ebbw Vale is in close proximity to the beautiful Usk Valley and Beacon National Park.

The Council will provide Housing Accommodation if required.

Forms of application may be obtained from the undersigned, and applications are to reach him not later than 30th November, 1959.

HOWARD J. WILLIAMS,  
Clerk of the Council.

Ebbw Vale Urban District Council,  
Council Offices,  
Ebbw Vale, 6653

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(b) ARCHITECTURAL ASSISTANT, A.P.T. Grade I, £610—£765 per annum.

(c) OFFICE JUNIOR, Architects' Section, General Division, £240—£730 per annum (subject to conditions).

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For appointment (a) applicants should be Associates of the R.I.B.A. and have had several years' thorough office experience.

For appointment (d) preference will be given to Associate Members of the Royal Institution of Chartered Surveyors (Building Sub-Division) and the successful candidate will be engaged on the improvement and conversion of house property. Previous Local Government experience is not essential. The commencing salary will be according to qualifications and experience.

Further particulars and application forms obtainable from the Borough Engineer and Surveyor, Town Hall, S.W.11. Closing date: 18th November, 1959. 6662

## BOROUGH OF BEXLEY

## ARCHITECTURAL ASSISTANTS

Applications are invited for two appointments in the Borough Engineer & Surveyor's Department. The salary for each of these posts is within Grade A.P.T. II (£765—£880 per annum) plus London weighting. Preference will be given to suitably qualified candidates with experience of housing and school projects.

Form of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by Monday, 30th November, 1959.

The Council may be prepared to assist in the provision of housing accommodation. Canvassing will disqualify.

ARTHUR GOLDFINCH,  
Town Clerk.

6713

## COUNCIL OF THE COUNTY OF ABERDEEN

## COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for an appointment as ASSISTANT ARCHITECT in the above Department. Salary £905 x £35—£1,185 per annum. Placing on the scale may be given according to experience. Applicants must be Associates of the Royal Institute of British Architects. The appointment is superannuable. Application forms and conditions of appointment may be obtained from the undersigned.

Applications are also invited for an appointment as ARCHITECTURAL DRAUGHTSMAN in the above Department. Salary £735—£865 per annum. Applicants must be skilled and accurate draughtsmen with knowledge of building construction and experience in drawing office routine. The post is superannuable. Application forms may be obtained from the undersigned.

Closing date for both appointments 30th November, 1959.

JAMES L. CRAIG,  
County Clerk.

County Buildings,  
22, Union Terrace,  
Aberdeen.  
6th November, 1959. 6770

## WARWICKSHIRE COUNTY COUNCIL

## ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments:—

1. ASSISTANT ARCHITECTS, Special Grade (£785—£1,070).

Applicants must have passed Parts I and II of the R.I.B.A. Final or special examinations or their equivalent at one of the recognised schools of architecture. The successful applicants will work in teams on large projects but opportunity will be given to men with enthusiasm and ability to design and carry out smaller projects under a Group Architect.

2. ASSISTANT HEATING ENGINEERS, Grade A.P.T. III (£480—£1,065).

Applicants should have had some years in the design of heating and water supplies.

The commencing salary can be within the grade according to ability and experience. Application forms and other conditions applicable to the appointments can be obtained from E. Davies, A.R.I.B.A., A.M.T.P.I., Deputy County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,  
Clerk of the Council.

Shire Hall,  
Warwick. 6692

## CAMBRIDGESHIRE COUNTY COUNCIL

## COUNTY ARCHITECT'S DEPARTMENT

Appointment of (a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,065—£1,220).

(b) ASSISTANT ARCHITECT, Special Grade (£785—£1,070).

(a) Applicants should be Associates of the Royal Institute of British Architects and have had good experience in the design and construction of Schools and other County Buildings, and should be capable of supervising assistant staff as necessary.

(b) Applicants should be Associates of the Royal Institute of British Architects.

In each case the commencing salary will be in accordance with experience.

The appointments are subject to the Local Government Superannuation Acts 1937 to 1953, the National Scheme of Conditions of Service, a satisfactory Medical Examination and terminable at one month's notice on either side.

Applications, stating age, present salary, present and previous appointments, details of training and experience, together with the names and addresses of two referees, should be submitted to the undersigned, not later than 25th November, 1959.

CHARLES PHYTHIAN,  
Clerk of the County Council.

Shire Hall,  
Cambridge. 6676

## CORPORATION OF THE CITY OF ABERDEEN

## CITY ARCHITECT'S DEPARTMENT

Applications are invited for the following superannuable appointments in the above Department.

(a) SENIOR ASSISTANT ARCHITECT. Salary scale £1,085 rising by annual increments of £35 (3) and £45 to £1,235 per annum.

Placing on the scale may be given according to experience. Applicants should be A.R.I.B.A., with sound knowledge of construction, capable of producing good contemporary design and of carrying large contracts through to completion.

(b) ASSISTANT ARCHITECTS. Salary scale £795 rising by annual increments of £35 to £1,075 per annum.

Applicants should be A.R.I.B.A. Commencing salary will depend on experience and qualifications.

Applications, stating name, address, age, qualifications, experience, previous and present appointments held, and the names and addresses of three architects to whom reference may be made, should be sent to G. McI. Keith, A.R.I.B.A., A.M.T.P.I., City Architect, on or before 1st December, 1959.

J. C. RENNIE,  
Town Clerk.

Town House, Aberdeen.  
10th November, 1959. 6880

## ARCHITECTURAL ASSISTANT

Applications are invited from suitably qualified persons for the above post, which is on the staff of the Board's Architect. The Department is engaged on an extensive programme of new buildings, interior design, showroom and exhibition work and offers the opportunity of working on unique projects in commercial and industrial design.

The salary for the appointment, which is pensionable and subject to medical examination, will be within the range £902—£1,002 per annum.

Applications, stating age, qualifications and experience, together with the names of two referees, should be addressed to the Industrial Relations Officer, West Midlands Gas Board, 6, Augustus Road, Edgbaston, Birmingham, 15, to reach him not later than the 14th December, 1959. 6864

## CITY OF PETERBOROUGH

Applications are invited for two appointments of ARCHITECTURAL ASSISTANT in Grade I A.P.T. (£610/£30/£765). Housing accommodation available. National Scheme of Conditions of Service. Application forms from City Engineer, Town Hall, Peterborough. Closing date 21st November, 1959.

C. PETER CLARKE,  
Town Clerk.

Town Hall,  
Peterborough.  
November, 1959. 6693

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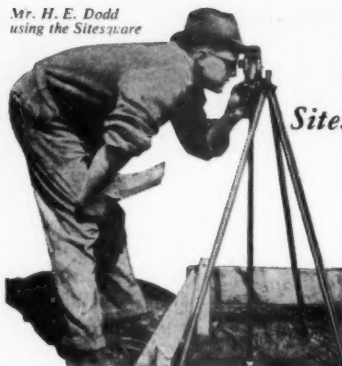
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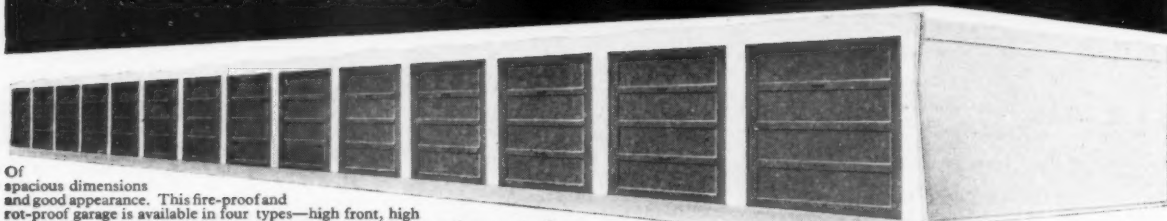
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**CAMBORNE-REDRUTH URBAN DISTRICT COUNCIL****APPOINTMENT OF SENIOR ASSISTANT ARCHITECT/SURVEYOR (A.P.T. IV)**

Applications are invited for the above appointment in the Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. IV (£1,065-£1,220).

Applicants must be Registered Architects or Chartered Surveyors, and have had considerable experience in housing and general building works. The duties attached to the appointment will include the preparation of drawings, specifications and bills of quantities, and general supervision of works carried out by contract and by direct labour.

The appointment is subject to the provisions of the Local Government Superannuation Acts, 1937-53, to the National Joint Council's Scheme of Conditions of Service, and is terminable upon the expiration of one month's notice in writing by either side.

Consideration will be given to the provision of housing accommodation, if required.

Applications, on forms to be obtained from the Engineer and Surveyor, should be received by the undersigned not later than the 26th November, 1959.

The successful applicant will be required to pass a medical examination to be carried out by this Council's Medical Officer of Health.

Canvassing, either directly or indirectly, will be a disqualification, and applicants must disclose their relationship to any member or senior officer of the Council.

S. C. WILSON,  
Clerk of the Council.

Council Offices,  
Camborne,  
Cornwall.  
5th November, 1959. 6740

**DENBIGHSHIRE COUNTY COUNCIL COUNTY PLANNING DEPARTMENT**

Applications are invited from suitably qualified persons for the appointment of ARCHITECT, Special Scale (£785-£1,070 per annum) to Headquarters Staff of the County Planning Department at Ruthin.

Application forms and further particulars obtainable from me. Completed applications, giving the names of two referees, must be returned not later than 27th November, 1959.

W. E. BUFTON,  
Clerk of the County Council.

County Offices,  
Buthin,  
Denbighshire. 6668

**HUNTINGDONSHIRE COUNTY ARCHITECT'S DEPARTMENT ARCHITECTURAL ASSISTANT**

Applications are invited to fill a number of appointments which exist in the above Department on Grade A.P.T. II (£705-£860). The persons appointed will become members of small architectural teams engaged in projects of varying size. The persons appointed should be keenly interested in architecture with an up-to-date approach to both planning and design.

Application forms, obtainable from the County Architect, County Buildings, Huntingdon, should be completed and returned to the undersigned by Friday, 4th December, 1959.

A. C. AYLWARD,  
Clerk of the County Council.

County Buildings,  
Huntingdon. 6869

**CITY ARCHITECT'S OFFICE, MANCHESTER**

Applications are invited for appointment of ASSISTANT ARCHITECT/ARCHITECTURAL ASSISTANT. Salary special scale £785-£1,070 (commencing salary will be fixed according to qualifications and experience). Five day week. Removal expenses allowed. Housing accommodation for a limited period may be provided. Forms of application from City Architect, P.O. Box 488, Town Hall. Returnable by November 30th, 1959. 6868

**SURREY COUNTY COUNCIL**

Applications invited for the following appointments:—  
**SPECIAL GRADE** (£785-£1,070 p.a. plus £30 p.a. London Allowance). This grade is particularly suitable for newly qualified Assistants.

**ARCHITECTS.** Must be A.R.I.B.A. and experienced in design and detailing.  
**GRADE I** (£610-£765 p.a.) and **GRADE II** (£765-£880 p.a.) plus up to £30 p.a. London Allowance according to age.

**ARCHITECTURAL ASSISTANTS.** 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 to County Architect, County Hall, Kingston, as soon as possible. 6883

**BRACKNELL DEVELOPMENT CORPORATION**

Applications are invited for the post of ASSISTANT QUANTITY SURVEYOR salary range £765-£880, according to age, qualifications and experience. Applicants must have passed the Intermediate R.I.C.S. Examination. Duties embrace Housing, Town Centre and Industrial Buildings. Superannuation schemes, medical examination. Housing available. Apply by 30th November, 1959, giving age, education and qualifications, experience and appointments held (with dates), and names of two referees, to General Manager (Q.S.), Bracknell Development Corporation, Farley Hall, Bracknell, Berks. 6807

**ARCHITECTS AND MAINTENANCE SURVEYORS.** Pensionable posts for men and women at least 25 and under 35 on 1.1.59 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Architect or Maintenance Surveyor). Candidates must be registered Architects or, alternatively, for Maintenance Surveyor posts, have achieved Corporate membership of R.I.C.S. (Building Section), or have passed examinations necessary for attaining Corporate membership. Starting salary (men, London) from £830 to £1,125 according to age. Scale maximum (London) £1,300. Promotion prospects. Write Civil Service Commission, 17 North Audley Street, London, W.1, for application form quoting S60-61. 6864

**COUNTY BOROUGH OF SOUTHEND-ON-SEA BOROUGH ARCHITECT'S DEPARTMENT**

Applications are invited for the following posts:—

**ASSISTANT ARCHITECT**

Special Classes Scale (£785 × 40(6) × 45-£1,070).

**TECHNICAL ASSISTANT (ARCHITECTURAL)**

Grade A.P.T.I. (£610 × 30(4) × 35-£765).

**ASSISTANT QUANTITY SURVEYOR**

Grade A.P.T.IV (£1,065 × 55 × 50(2)-£1,220).

**ASSISTANT QUANTITY SURVEYOR**

Special Classes Scale (£785 × 40(6) × 45-£1,070).

Candidates must be suitably qualified and experienced.

The appointments will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Medical examination.

Applications, stating age, qualifications and experience, with the names of two referees, should be submitted to the Borough Architect, 30, Alexandra Street, Southend-on-Sea, by 14th December, 1959.

Canvassing will disqualify. Any candidate who is related to member or officer of the Council is required to disclose the fact.

ARCHIBALD GLEN,  
Town Clerk. 6853

**BOROUGH OF WORTHING APPOINTMENT OF ARCHITECTURAL ASSISTANT**

Applications are invited for the appointment of Architectural Assistant on the permanent establishment of the Borough Engineer and Surveyor's Department at a salary in accordance with A.P.T. I (£610-£765 p.a.).

Candidates should have passed the Intermediate examination of the R.I.B.A. and should have had a sound experience in the preparation of Drawings and Specifications for Local Authority building contracts.

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

Applications, endorsed Architectural Assistant, Grade I, stating age, status, qualifications, present and previous appointments, and experience with dates, together with the names of three persons to whom reference may be made, should be addressed to the Borough Engineer and Surveyor, Town Hall, Worthing, and should be received by him not later than 12.0 noon on Wednesday, the 25th November, 1959.

ERNEST G. TOWNSEND,  
Town Clerk.

Town Hall,  
Worthing.  
November, 1959. 6853

**CITY AND COUNTY OF NEWCASTLE UPON TYNE****CITY ARCHITECT'S DEPARTMENT**

The City Architect will be pleased to receive applications from suitably qualified persons for the following ARCHITECTURAL VACANCIES in his Department:—

**HOUSING SECTION:** A.P.T. V., A.P.T. IV, Special Class.

**REHOUSING SECTION:** A.P.T. IV., A.P.T. II, A.P.T. I.

**GENERAL SECTION:** A.P.T. V, Special Class, A.P.T. I.

**EDUCATION SECTION:** Special Class, A.P.T. II.

The salaries applicable to the above grades are:—

A.P.T. V: £1,220-£1,375 per annum.

A.P.T. IV: £1,065-£1,220 per annum.

Special Class: £785-£1,070 per annum.

A.P.T. II: £765-£880 per annum.

A.P.T. I: £610-£765 per annum.

The Department is engaged upon a large and varied programme of work including the New Town Hall, Multi-storey Flats, Redevelopment Schemes, Further Education projects, and a variety of General Building Works.

The appointments will be subject to the provisions of the Local Government Superannuation Acts, 1937-1953.

Application forms and full particulars may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18, Cloth Market, Newcastle upon Tyne 1. Applicants must state the Section and Grade applied for when requesting particulars.

Closing date for receipt of completed applications: 5th December, 1959.

JOHN ATKINSON,  
Town Clerk

Town Hall,  
Newcastle upon Tyne 1.  
10th November, 1959. 6825

**BOROUGH OF WIDNES BOROUGH ARCHITECT'S DEPARTMENT ARCHITECTURAL ASSISTANT**

Applications are invited from registered architects with A.R.I.B.A. and Planning qualifications. Salary within Special Grade (£785 to £1,070) according to qualifications and experience. N.J.C. Conditions. Superannuation scheme. Five-day week. Interesting programme of work on Housing, Schools, and Public Buildings including new Baths.

Applications, giving two referees, to Borough Architect, Brendan House, Widnes Road, Widnes, by 7th December, 1959. Canvassing disqualifies.

F. HOWARTH,  
Town Clerk.

Town Hall,  
Widnes.  
November, 1959. 6800

**DESIGNERS**

First-class Designers are required to work in collaboration with architects on the design of interiors, built-in furniture and fittings and free standing furniture.

There is a large programme of new buildings including schools, hostels, homes for the aged and homes for children.

Applicants should be experienced in the preparation of design and working drawings and specifications. Salaries up to £1,135 per annum. Starting point in accordance with qualifications and experience.

Application form, returnable by 10th December, 1959, from Hubert Bennett, F.R.I.B.A., the Architect to the Council, County Hall, S.E.1, quoting ref. AR/EK/109/59. (2414.) 6799

**COUNTY BOROUGH OF WALSALL PUBLIC WORKS DEPARTMENT APPOINTMENTS OF ARCHITECTURAL AND ENGINEERING STAFF**

Applications are invited from suitably qualified persons for the appointments set out below. In addition to the work usually associated with a County Borough, the Corporation is about to embark on several interesting projects including a new two-tier ring road, Central Area Redevelopment, a new Police Station, a new School of Art, large Council Office extensions, a large Sewage Works extension and Multi-storey Car Parks.

(a) **CHIEF ASSISTANT ARCHITECT, GRADE B-£1,390-£1,440/£1,485.**

The person appointed will be responsible to the Chief Architect for the general work of the Architects' Section and in particular for the Central Area Redevelopment and the considerable architectural work involved in the design of the new ring road and adjoining developments. Preference will be given to applicants with experience of this type of work.

(b) **SENIOR ASSISTANT ARCHITECT (REDEVELOPMENT), GRADE A.P.T. IV-£1,065-£1,220.**

To work under the Chief Assistant Architect with the above-mentioned schemes.

(c) **ASSISTANT ARCHITECT - SPECIAL GRADE-£785-£1,070.**

(d) **PRINCIPAL ASSISTANT ENGINEER (STRUCTURAL), GRADE A-£1,390.**

The person appointed will be in charge of the Structural Engineering Section and should have considerable experience in the design and construction of structural works.

Preference will be given to applicants with experience in the structural work associated with the projects listed above.

(e) **ASSISTANT ENGINEER (STRUCTURAL), GRADE A.P.T. IV-£1,065-£1,220.**

To work under the Principal Assistant Engineer (Structural) on the above schemes. Good experience in the design and construction of structural works is required.

(f) **ASSISTANT ENGINEER (GENERAL), GRADE A.P.T. IV-£1,065-£1,220.**

With good experience in municipal engineering. For work on the road, sewer and general engineering schemes carried out by the Department.

Applicants for posts (a), (b) and (c) must be A.R.I.B.A.

Applicants for posts (d) and (e) must be A.M.I.Struct.E. and preferably A.M.I.C.E. or A.M.I.Mun.E.

Applicants for post (f) must be A.M.I.C.E. and/or A.M.I.Mun.E.

Starting point in all grades will be fixed according to qualifications and experience.

Housing accommodation will be available for all posts if required.

Applications, stating age, present position, salary, qualifications and details of experience, together with two recent testimonials, should be submitted to the undersigned not later than Monday, 30th November, 1959. Applicants should also disclose whether they are related to a member or officer of the Council. All posts are superannuated and are subject to medical examination.

M. F. HABERSHON,  
Borough Engineer and Surveyor.

Council House,  
Walsall.  
9th November, 1959. 6804

**BRACKNELL DEVELOPMENT CORPORATION**

Applications are invited for the post of ARCHITECT, salary range £1,065-£1,220. Applicants must be Corporate Members of the R.I.B.A. Superannuation schemes, medical examination. Housing available. Apply by 1st December, 1959, giving age, education and qualifications, experience and appointments held (with dates and salaries), and names of two referees, to General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks. 6806



**COUNTY BOROUGH OF NORTHAMPTON**  
DEPARTMENT OF BOROUGH ARCHITECT  
AND TOWN PLANNING OFFICER  
Applications are invited for the following appointments:  
(a) **TEMPORARY TECHNICAL ASSISTANT.** A.P.T.III (£380-£1,065) for Improvement Grants and Surveys for Housing Committee work.  
(b) **ASSISTANT ARCHITECT.** Special Grade (£785-£1,070).  
The commencing salary for each appointment will depend upon qualifications and experience. Full particulars and application forms, returnable by 2nd December, from Borough Architect, Guildhall, Northampton.  
**C. E. VIVIAN ROWE, Town Clerk.** 6852

**SOUTHERN ELECTRICITY BOARD**  
ENGINEERING DRAUGHTSMAN  
Sub-Area Engineer's Department of No. 4 (Bournemouth) Sub-Area. Salary N.J.B. Schedule 'D', Grade 6 (£620 x £20-£740 per annum). N.J.B. Conditions of Service.  
Applicants should be fully qualified Draughtsmen and be able to undertake under supervision, the preparation and final layout of building and civil engineering drawings. A sound knowledge of building construction is essential.  
The successful candidate will be required to contribute to the Electricity Supply (Staff) Superannuation Scheme, if eligible.  
Applications on forms obtainable from the Sub-Area Secretary, 1 Priory Road, Bournemouth, and returned to him quoting Z.1076, not later than November 30, 1959. 6849

**PERTH AND KINROSS JOINT COUNTY COUNCIL**  
**COUNTY ARCHITECT'S DEPARTMENT**  
Applications are invited for a number of vacancies in the New Schools and New County Offices Section as follows:—  
(a) **GROUP LEADERS**—Salary Scale £995 to £1,275;  
(b) **GROUP SUB-LEADERS**—Salary Scale £895 to £1,175;  
(c) **ASSISTANT ARCHITECTS**—Salary Scale £795 to £1,075;  
(d) **ARCHITECTURAL ASSISTANTS**—Salary Scale according to qualifications and/or experience.  
Applicants for posts (a), (b) and (c) must be fully qualified A.R.I.B.A. Applicants for posts (d) should be A.R.I.B.A. Intermediate or have had good architectural experience.  
Further particulars and forms of application from The County Clerk, P.O. Box 15, County Offices, York Place, Perth. Applications to be lodged by 9th December, 1959. 6846

**URBAN DISTRICT COUNCIL OF BRAINTREE**  
**ARCHITECTURAL ASSISTANT**  
Applications are invited for the above appointment. A.P.T. Grade III—commencing salary £480 per annum rising to £1,065 from persons who have had experience in municipal housing. The appointment will be subject to the National Joint Council Conditions of Service, the provisions of the Local Government Superannuation Acts, the passing of a medical examination, and will be terminable by one month's notice on either side.  
Applications, suitably endorsed, stating age, qualifications and experience, together with the names of two referees, to be delivered to the undersigned not later than Friday, 4th December, 1959.  
Canvassing directly or indirectly will be deemed a disqualification and candidates should state whether they are related to any member or senior officer of the Council.  
Housing accommodation will be made available if required.  
**H. COOK, Engineer and Surveyor.** 6817

**BASILDON DEVELOPMENT CORPORATION**  
DEPARTMENT OF ARCHITECTURE AND PLANNING  
Applications are invited for the following appointment:—  
**ASSISTANT ARCHITECT.** Grade A.P.T. III, £380-£1,065.  
Recently qualified Architects with outstanding ability in contemporary design required to join group's works on large programme of Town Centre, factory and housing development. Post Intermediate students also may apply.  
Appointments are superannuable and subject to medical examination.  
Housing available for renting in approved cases.  
Applications on the special form (obtainable from the Chief Architect/Planner) must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, 4th December, 1959. 6822

**COUNTY BOROUGH OF SUNDERLAND**  
**ASSISTANT SECTION ARCHITECT—**  
**GRADE "A" CHIEF OFFICERS' SCALES**  
Applications are invited for the above post. Particulars of the appointment obtainable from Borough Architect, Grange House, Stockton Road, Sunderland. Applications must be addressed to me and received at my office, Town Hall, not later than 30th November, 1959.  
Canvassing will disqualify.  
**G. S. McINTIRE, Town Clerk.** 6885

**DIRECTOR OF HOUSING STUDY**  
required for the Metropolitan Halifax-Dartmouth Area  
This study will examine, over a period of three years, the housing situation in the city of Halifax, the town of Dartmouth, and that part of the County within the Metropolitan Area, with particular reference to the quantity and quality of housing in relationship to the present and future needs of this area; it will also make recommendations for future action.  
Applicants should possess a degree in Community Planning, Architecture, Social Science, or Engineering, should have experience in conducting detailed surveys of housing requirements and must have the ability and experience to relate the results to regional planning proposals. The part of Director will carry an annual salary of between \$8,000 and \$10,000 dollars commensurate with qualifications and experience.  
For further information and application forms please write to: D. J. Bird, Director of Community Planning, Department of Municipal Affairs, Halifax, Nova Scotia. 6777

**CORBY DEVELOPMENT CORPORATION**  
There are vacancies on the staff of the Chief Architect for a **SENIOR ASSISTANT ARCHITECT**, **ARCHITECTURAL ASSISTANTS**, and an **ARCHITECTURAL PUPIL**.  
The appointment of Senior Assistant Architect will be made within A.P.T. Grade V (£1,220 to £1,375). The Architectural Assistants will be within A.P.T. Grade I (£510 to £765) or Grade II (£765 to £980), and the Architectural Pupil will be within the General Division (£210 to £395) with a minimum of £430 at age 22. Commencing salaries within these grades will depend upon qualifications and experience.  
Minimum qualification for the Senior Assistant Architect is A.R.I.B.A. Architectural Assistant should have passed the Intermediate Examination of the R.I.B.A.  
Appointments are subject to Superannuation under the Local Government Superannuation Scheme.  
Housing is available. Removal expenses paid. Applications, stating age, education, training, qualifications experience, appointments held and salaries, together with the names of two referees, must reach the undersigned by Tuesday, 1st December, 1959.  
**R. F. BROOKS GRUNDY, ESQ., General Manager.**  
Corby Development Corporation, Spencer House, Corby, Northants. 6821

**BOROUGH OF BEXLEY**  
**ASSISTANT ARCHITECT**  
Applications are invited for this appointment at a salary according to qualifications within Grade APT III (£880 to £1,065 per annum) or Special Scale (£785 to £1,070 per annum) plus London Weighting.  
Candidates should have experience in school and housing projects.  
Form of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by the 1st December, 1959. The Council may be prepared to assist in the provision of housing accommodation.  
Canvassing will disqualify.  
**ARTHUR GOLDFINCH, Town Clerk.** 6879

**BOROUGH OF TOTTENHAM**  
Applications are invited for the following posts:—  
**ASSISTANT ARCHITECT (Established)**—A.P.T. Special Grade £785-£1,070 per annum. Applicants must have passed Parts I and II of the R.I.B.A. final or special final examination or their equivalent and to have had at least five years' experience (including period spent on theoretical training).  
**ARCHITECTURAL ASSISTANT (Established)**—A.P.T. II £765-£880 per annum. Applicants must have at least passed R.I.B.A. intermediate examination or equivalent.  
**ARCHITECTURAL ASSISTANT (Established)**—A.P.T. £610-£765 per annum. Applicants must have at least passed R.I.B.A. intermediate examination or equivalent.  
**ARCHITECTURAL LEARNER (Unestablished)—**  
**GENERAL DIVISION.**  
Commencing salary according to age at entry varying from £370 p.a. to £465 p.a. at age 17 up to £465 p.a. to £560 p.a. at age 20, dependent upon G.C.E. passes and examination successes. Appointment conditional upon applicant proceeding with course of study leading to A.R.I.B.A.—facilities will be provided for study.  
**CIVIL ENGINEERING ASSISTANT (Established)**—A.P.T. I £610-£765 per annum. Applicants must have at least completed professional training.  
**CLERK OF WORKS (Unestablished)**—A.P.T. II £765 to £880 per annum. Applicants must be thoroughly conversant with the building trade and experience in reinforced concrete construction would be an advantage. London Weighting Allowance of £10, £20 or £30 p.a. according to age.  
Commencing salaries within grades according to ability and experience.  
Application form and conditions of Appointment from Borough Engineer (A.J.) Town Hall, Tottenham, N.15. Applications to be delivered by Thursday, 3rd December, 1959.  
**W. BRYANT, Borough Engineer & Surveyor.** 6884

**BASILDON DEVELOPMENT CORPORATION**  
DEPARTMENT OF ARCHITECTURE AND PLANNING  
Applications are invited for the following appointments:—  
(a) **SENIOR ARCHITECT,** Grade A.P.T. IX £1,527-£1,755.  
(b) **ARCHITECT,** Grade A.P.T. VI/II £1,163-£1,485.  
Associates of the R.I.B.A. with varied experience and outstanding ability in contemporary Architecture are required to work on large programme of Town Centre, factory and housing development.  
Appointments are superannuable and subject to medical examination.  
Housing available for renting in approved cases.  
Applications on the special form (obtainable from the Chief Architect/Planner) must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, the 4th December, 1959. Covering envelopes to be endorsed with the post applied for. 682

**GOVERNMENT OF JAMAICA**  
**SENIOR ARCHITECT, TOWN PLANNING DEPARTMENT**  
To work with other qualified planners on problems of Town and Country planning.  
Contract appointment for one tour of three years. Salary range £1,400-£1,600 a year. Gratuity 20% of salary. House provided at moderate rent.  
Candidates must be A.R.I.B.A. and preferably also A.M.T.P.I.  
Write to Director of Recruitment, Colonial Office, London, S.W.1, giving full names, age, qualifications and experience quoting BC/D 62/32.01.E2. 6872

**BILLINGHAM URBAN DISTRICT COUNCIL**  
**APPOINTMENT OF**  
**CHIEF ARCHITECTURAL ASSISTANT—**  
Special Grade (£785-£1,070 p.a.).  
Applications are invited from persons with suitable qualifications and experience. Extensive town development is taking place within the Urban District and the appointment offers opportunity of interesting work. The commencing salary will be in accordance with qualifications and experience; housing accommodation is available.  
The appointment is subject to the National Scheme of Conditions of Service and the Local Government Superannuation Acts. Applications stating qualifications and experience together with the names of two referees must be delivered to the undersigned by the 4th December, 1959. Canvassing will disqualify.  
**FRED M. DAWSON, Clerk of the Council.** 6873

**COUNTY BOROUGH OF SOUTHPORT**  
Applications are invited for the appointment of **CHIEF ASSISTANT ARCHITECT** (Special Grade £785-£1,070 per annum) in the Borough Architect and Town Planning Officer's Department.  
Applicants must be Registered Architects and/or Associates R.I.B.A.  
Application forms may be obtained from the Borough Architect and Town Planning Officer, 99/105, Lord Street. Closing date for the receipt of applications is Saturday, 5th December, 1959. 6773

**COUNTY BOROUGH OF BARNESLEY**  
**BOROUGH ENGINEER & SURVEYOR AND PLANNING OFFICER'S DEPARTMENT**  
**APPOINTMENT OF PLANNING ASSISTANT AND JUNIOR ARCHITECTURAL ASSISTANT**  
Applications are invited for the following appointments:—  
(a) **PLANNING ASSISTANT** (Special Grade, £785-£1,070).  
(b) **TEMPORARY JUNIOR ARCHITECTURAL ASSISTANT** (Grade A.P.T. I, £610-£765).  
The commencing salaries in both cases will be fixed within the appropriate Grades according to experience and qualifications.  
For appointment (a) candidates must hold a Recognised Diploma in Town Planning and/or be A.M.T.P.I. and should have had previous experience in town planning and development control.  
Post (b) is suitable for a young man in his early architectural training and offers a good opportunity for gaining sound practical experience.  
The appointments will be subject to (a) the Scheme of Conditions of Service for A.P.T.C. staff; (b) any other general conditions of service in operation within the Corporation from time to time; (c) one month's notice on either side and (d) to the Local Government Superannuation Acts, for which purpose the successful candidates will be required to pass a medical examination.  
Housing accommodation can be provided if necessary and 50 per cent. of removal transport expenses will be paid in approved cases.  
Applications, stating age, present and previous appointments, qualifications, experience, etc., together with the names of two persons for reference, should reach the Borough Engineer Town Hall, Barnsley, by Wednesday, 2nd December, 1959.  
Canvassing will disqualify.  
**A. E. GILFILLAN, Town Clerk.** 6815

**Town Hall, Barnsley.**  
November, 1959. 6815



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### BOROUGH OF SWINDON

**ARCHITECTURAL ASSISTANT**  
Applications are invited for an appointment of Architectural Assistant, A.P.T. Special Scale (£785 to £1,070 per annum), in the Borough Architect's Department. Applicants should have the Final R.I.B.A. or equivalent qualification. The department is engaged in a large and varied development programme including housing schemes, civic works and industrial buildings. Housing accommodation may be offered. Applications on forms to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned by 30th November, 1959. 6809

### CITY OF CANTERBURY

Applications are invited from persons who have passed the Final Examination of the R.I.B.A. for the appointment of an ASSISTANT ARCHITECT, Special scale (£785-£1,070). The commencing salary will be fixed within the scale according to qualifications and experience. Applicants should have had varied experience and be capable of good detailing and presentation. The Council are prepared to make housing accommodation available if required. Applications, together with the names of two referees, must reach the City Architect & Planning Officer, Mr. John L. Berbers, F.R.I.B.A., A.M.T.P.I., not later than Tuesday, 1st December, 1959. Canvassing will disqualify. J. BOYLE, Town Clerk. 6769

Municipal Buildings, Canterbury.

**QUANTITY SURVEYING ASSISTANTS, GRADE III.** required by AIR MINISTRY in the PROVINCES. Duties include abstracting and billing, site measurement and preparation of estimates. Commencing salary according to age, qualifications and experience. Salary ranges from £680 at age 26 rising to £850. Candidates must hold O.N.C. (Building or Builders Quantities) or equivalent and have good experience under Quantity Surveyor or Building Contractor. Knowledge W.D. Schedule an advantage. Promotion and pension prospects. Five-day week, three weeks' three days' leave a year initially. Appointments carry liability for service anywhere U.K. or overseas. Applicants normally should be natural born British subjects. Write stating age, qualifications and previous appointments, including type of work done, to Manager (P.E. 105), Professional and Executive Register, Ministry of Labour, Atlantic House, Farringdon Street, E.C.4. No original testimonials should be sent. Only applicants selected for interview will be advised. 6794

### PUBLIC SERVICE OF TASMANIA

Applications are invited for the undermentioned superannuable positions in the Department of Public Works to which an appointment will be made in accordance with the provisions of the Public Service Act, 1923:—  
**ARCHITECT:** The appointee will be stationed at the office of the District Architect, South East, which is located at the capital city of Hobart, and will receive commencing salary at the rate of £A1,735 per annum, rising by automatic annual increments of £A55 to a maximum of £A1,898 per annum. Subsequent advancement will depend on satisfactory service and the occurrence of opportunities for promotion.  
**Duties:** To be responsible to the District Architect for preparation of working drawings, details and specifications of public buildings, and other structures and supervision of work of the Drawing Office; to assume responsibility for the District Office in the absence of the District Architect.

Applicants to be associates of R.A.I.A., or hold equivalent qualifications. Applications, in duplicate, giving full personal particulars and details of qualifications and experience, should be addressed to The Agent General for Tasmania, 457, Strand, London, W.C.2. 6782

### HAMPSHIRE COUNTY COUNCIL

**PLANNING ASSISTANT** required for pensionable post in Area Planning Office at BASINGSTOKE, A.P.T. II (£765-£880). Candidates who have passed the Intermediate Examination of the T.P.I., have had experience in the Planning Department of a Local Authority and preferably hold an architectural qualification. In approved cases, the County Council assist with removal and other expenses. Applications, stating age, education, qualifications and experience, together with a copy of one testimonial and the names of two referees, should reach the Clerk of the County Council, The Castle, Winchester, by 27th November. 6771

### BOROUGH OF EALING

**1. ARCHITECTURAL ASSISTANT, A.P.T. IV** (£1,095-£1,250 inclusive). Must hold recognised architectural qualifications.  
**2. JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I** (£610-£765 plus London weighting). Must have passed Intermediate R.I.B.A. or its equivalent. Full particulars and application forms from Borough Engineer, Town Hall, Ealing, W.5. Closing date 30th November, 1959. E. J. COPE-BROWN, Town Clerk. 6775

### WORTLEY RURAL DISTRICT COUNCIL

(Population 47,670)  
**APPOINTMENT OF ARCHITECTURAL, ENGINEERING OR SURVEYING ASSISTANTS**

Applications are invited from persons qualified to hold the above posts, preferably with experience in a Municipal Engineer's Office and an appropriate Professional qualification. The salary offered is in accordance with Grades A.P.T. I, II or Special, according to qualifications and ability. Housing accommodation offered if required. Applications, stating the names of two referees, to be delivered to the undersigned not later than Monday, 30th November, 1959. ADRIAN M. KELLY, Clerk of the Council. 6811

Council Offices, Grenoside, Sheffield.

### SOMERSET COUNTY COUNCIL

**APPOINTMENT OF COUNTY ARCHITECT AND OF DEPUTY COUNTY ARCHITECT**

Applications are invited for the following appointments:—  
(1) **COUNTY ARCHITECT**, at a salary of £3,065 per annum rising by annual increments of £135 to £3,470 per annum.  
(2) **DEPUTY COUNTY ARCHITECT**, at a salary of £2,150 per annum rising by annual increments of £70 to £2,430 per annum. The person appointed as County Architect will be expected to take office on the 1st August, 1960. The Deputy County Architect will be required to take office as soon as possible after the date of his appointment.

Candidates for both appointments must be Registered Architects and Fellows or Associates of the Royal Institute of British Architects with considerable experience of the design of public buildings of all classes, of the handling of contracts, and of technical administration. Further particulars of both appointments can be obtained from the undersigned to whom applications for appointment, accompanied by the names and addresses of three referees, must be submitted on or before the 9th day of December, 1959.

Canvassing in any form will disqualify and applicants must disclose any relationship to any member or senior officer of the Council. E. S. RICKARDS, Clerk of the County Council. 6781

County Hall, Taunton.

**WELSH REGIONAL HOSPITAL BOARD**  
Applications from Registered Architects for post of ASSISTANT ARCHITECT on staff of Regional Architect, 7, Museum Place, Cardiff, at a salary of £730 x £25 (2) x £30 (2) x £35 (5) x £40 (1) to £1,055. Age and experience can be taken into account in fixing the commencing salary.

Applicants must be Registered Architects and be well experienced in the preparation of a scale working drawings, details, specification, surveying levelling and the supervision of contracts. The appointment (terminable by one month's notice on either side) will be subject to National Health Service Regulations and a successful medical examination.

Applications, giving full details and the names of two referees to Secretary, Welsh Regional Hospital Board, Temple of Peace, Cardiff, within 14 days of appearance of advertisement. 6795

**BOURNEMOUTH EDUCATION COMMITTEE  
BOURNEMOUTH MUNICIPAL COLLEGE OF ART**

Applications are invited for the post of Lecturer in charge of the Architecture Department, to begin as soon as possible after 1st January, 1960. Salary in accordance with the Burnham Scale: £1,370 to £1,550, plus allowance for degree or equivalent, training, etc.

Applicants should hold the Associateship of the Royal Institute of British Architects, and have had teaching experience.

Particulars and application form from W. R. Smedley, Chief Education Officer, Town Hall, Bournemouth. 6875

**WARWICKSHIRE COUNTY COUNCIL  
COUNTY ARCHITECT**

Applications are invited for the post of County Architect. The salary will be £3,455 per annum, rising, subject to satisfactory service, by three annual increments of £135 to a maximum of £3,860 per annum. The appointment will be subject to three months' notice on either side and to the Conditions of Service of the Joint Negotiating Committee for Chief Officers of Local Authorities.

Candidates must be members of the Royal Institute of British Architects, and preference will be given to those having had experience with large public authorities.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, 1937-1953, and the successful candidate will be required to pass a medical examination.

Applications, on forms obtainable from the undersigned, must state the names and addresses of not more than three persons who have knowledge of the applicant and his work and to whom reference can be made. They should be returned to the Clerk of the Council, Shire Hall, Warwick, in a sealed envelope marked "County Architect," so as to reach him not later than first post on Monday, the 7th December.

L. EDGAR STEPHENS,  
Clerk of the Council.  
Shire Hall,  
Warwick.  
6th November, 1959. 6783

**BOROUGH OF FINCHLEY  
TEMPORARY ARCHITECTURAL ASSISTANT  
HOUSING AND TOWN PLANNING  
DEPARTMENT**

Salary within Special Grade (£785 x £40 approx.—£1,070). London weighting additional.

Candidates must have had practical experience in the preparation of working drawings and detailing for new developments and conversions. The National Scheme of Conditions of Service and the Local Government Superannuation Acts apply and medical examination required.

Applications, stating age and full particulars of qualifications and experience, with the names of two referees, to the Borough Housing Officer, The Avenue, Finchley, N.3, by first post on 2nd December, 1959.

R. M. FRANKLIN,  
Town Clerk.  
Municipal Offices, N.3. 6784

**STEVENAGE DEVELOPMENT CORPORATION  
CHIEF ARCHITECT'S DEPARTMENT**

**DRAUGHTSMAN** (£765—£880—New Towns A.P.T. Grade II). Post suitable probationer. Member of R.I.B.A. or Intermediate standard; interesting work on shopping centres, factories and other buildings; starting salary according to experience.

Application should state age, experience, present and past appointments with names of two referees, and should be sent to the Chief Administrative Officer, Stevenage Development Corporation, Aston House, near Stevenage, Herts, not later than 1st December, 1959. 6836

**Architectural Appointments Vacant**  
4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra

**ARCHITECTURAL ASSISTANTS.** Intermediate to Final standard, with some office experience, required for interesting work in West End Office. Plenty of scope for responsibility and experience. Telephone for appointment to MAYfair 9554, or write with particulars to Box 6123.

**L. LUNNELLYN SMITH AND WATERS** require Senior and Junior ASSISTANTS for a widely varied programme of work. Salary according to experience. Please write stating qualifications, experience and age to 183, Old Brompton Road, N.W.7. 4822

**EXPERIENCED ARCHITECTURAL ASSISTANTS** required, one Qualified and one of at least Intermediate standard, for Branch Office, Birmingham, engaged on a varied and interesting programme of Commercial projects. The positions are pensionable and a five-day week is in operation. Applications, giving full particulars, to G. S. Hay, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society Ltd., 1, Balloon Street, Manchester, 4. 4307

**RONALD WARD & PARTNERS** have immediate vacancies for ASSISTANT ARCHITECTS with initiative and some experience, for interesting, commercial, industrial and civic projects. Salaries commensurate with ability. Apply, 29, Chesham Place, S.W.1. BRLgravia 3361. 5638

**ASSISTANTS** required for busy Architect's City office; Laboratory and Industrial projects. Intermediate standard or above. Apply to: Secretary, Fairclough and Morris, Temple Chambers, Temple Avenue, E.C.4. FLE 6285. 5932

**ARCHITECTS' ASSISTANTS** required for busy office: varied practice including Industrial, Housing, etc. Write, stating experience and salary required, to Francis W. Keyworth, L.R.I.B.A., 31, Friar Lane, Leicester. 5884

**ARCHITECTURAL ASSISTANT** at Final standard required by Buckinghamshire office. Interesting and varied work with scope for initiative and responsibility. State age, experience and salary required to Box 5871.

**WEST END Architects** require ASSISTANT with good knowledge of building construction and ability to prepare working drawings and details under supervision. Box 6033.

**BOOTH, LEDERBOER AND PINCKHEARD**, 17-20, Mason's Yard, Duke Street, St. James's, S.W.1, require ASSISTANTS in salary range £750—£1,000 p.a. Tel. TRA 1865. 5957

**COVELL & MATTHEWS** require capable and enthusiastic Senior and Junior ASSISTANTS to work on large central area redevelopment projects. Salary according to experience. Five-day week. Ring REGent 2291. 6627

**ERIC FIRMIN & PARTNERS** require Senior ASSISTANTS for work on industrial and commercial projects. Five-day week. Luncheon Vouchers. Salary by arrangement. Please apply to E. E. Akerman, F.R.I.B.A., Chief Architect, United Dairies Ltd., 31 St. Petersburg Place, W.2. 6664

**SENIOR ARCHITECTURAL ASSISTANT** capable of making site surveys, preparing sketch plans, working drawings and specifications, and supervising work in progress. Applications stating age, experience, qualifications and salary required to E. E. Akerman, F.R.I.B.A., Chief Architect, United Dairies Ltd., 31 St. Petersburg Place, W.2. 6768

**QUALIFIED ASSISTANT ARCHITECTS** required, minimum three years' office experience, preferably in London. Salary according to ability and experience. Theo. H. Birks, 34, Portland Place, W.1. LAN 7336. 5965

**INTERMEDIATE standard ASSISTANTS** required, minimum two years' office experience. Salary according to ability. Theo. H. Birks, 34, Portland Place, W.1. LAN 7336. 5966

**ASSISTANTS** of Intermediate or equivalent standard, required in busy city office. Interesting and varied work, offering scope for initiative and responsibility. Commencing salary up to £800 per annum, according to qualifications. Write Stewart & Hendry, F.R.I.B.A., A.M.T.P.I., 90 Fenchurch Street, E.C.3, or telephone ROYal 6216/7. 6202

**SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS AND DRAUGHTSMEN** required for multiple company's Architect's Department. Please reply stating age, experience and salary required to Box 6369.

**PATRICK GWYNNE** requires an ASSISTANT to work personally with him on private houses and interior design. Must be thoroughly experienced and capable of first class detail drawing. The Homewood, Esher, Surrey. 6406

**JOHN H. D. MADIN**, Chartered Architect, 83/85, Hagley Road, Birmingham 16, has further vacancies for Senior and Intermediate ASSISTANTS. Suitable Senior Assistants would be required to take full responsibility for large scale interesting projects. 6416

**TREHARNE & NORMAN, PRESTON & PARTNERS**, have vacancies for ARCHITECTS and ASSISTANTS with imagination and designing ability to assist with important new developments in the London area. Apply in confidence to 83, Kingsway, London, W.C.2. (HOL. 4871.) 6489

£1,100 per year, plus car, plus superannuation, plus profit-sharing, for suitable SENIOR ARCHITECTURAL ASSISTANT, South Yorkshire. Box 6660.

**EXCELLENT** opportunity for Senior and Intermediate ASSISTANTS in a permanent and progressive appointment with Midland firm of Architects who are working on large projects of an advanced type of design, including comprehensive development schemes, multi-storey office buildings, multi-storey flats, shopping centres, schools, banks, public houses and industrial projects. Apply Box 6415.

**SENIOR ASSISTANT** required of Intermediate/Final standard in Croydon office. Varied practice of interesting work. Good draughtsman and sound knowledge of construction essential, together with ability to manage jobs. Five-day week. Salary according to experience. Apply, giving all particulars, to George Lowe & Partners, 4, High Street, Croydon 3608/9. 6444

**H. A. HALPERN & ASSOCIATES** require first-class ASSISTANT with at least five years' office experience and exceptional knowledge of building construction. Must be able to operate with minimum supervision from sketch stage to contract on Supermarkets in new developments and conversions. Apply with full particulars of experience and salary required to H. A. Halpern & Associates, Cumberland Chambers, 7, Edgware Road, Marble Arch, London, W.2. 6458

**ASSISTANT QUANTITY SURVEYOR**, A.R.I.C.S., salary range £700—£900, required by Morrison and Partners, 103 Belper Road, Derby. Interview expenses paid. 6550

**THREE** qualified ARCHITECTURAL ASSISTANTS with office experience required for (a) Industrial Work, (b) School Contracts, (c) large housing scheme abroad. Assistants will be expected to take the responsibility of running and supervising these contracts. Salary according to age (limit 35) and experience. Apply to J. M. Austin-Smith & Partners, 29 Sackville Street, London, W.1. 6555

**RILEY & GLANFIELD** require male ASSISTANT of Intermediate to Final standard. Work: Church, industrial, housing and public house. Some general office experience is necessary. Tel. CHA 7328. 6594

**SENIOR ARCHITECTURAL ASSISTANTS** required in salary range £700—£1,000 to take control of varied and interesting jobs of all sizes. Experience in colour and design of interiors and fittings and good presentation draughtsmanship an advantage. Five-day week, excellent working conditions and holidays. Please write giving full details of experience and qualifications to Deacon and Laing, 65, Goldington Road, Bedford. 6534

**ARCHITECTURAL ASSISTANTS**, Senior and Junior, required by firm in High Wycombe for commercial and industrial schemes. Scope for responsibility and experience. Five-day week. Write Box 6636.

**SENIOR ASSISTANTS** urgently required for busy City office engaged in industrial and commercial work, 5-day week. Luncheon Vouchers. Salary up to £1,200 according to experience. Box 6554.

**EXPERIENCED ASSISTANTS** required for Architects' Office in W.C.1 area, to work on Laboratory and Hospital schemes. Salary according to experience. Telephone HOLBORN 3518/8371 or write Box 6718.

**JAMES A. ROBERTS, A.R.I.B.A.**, requires Intermediate and Final standard ASSISTANTS, salary range £750—£1,200 depending upon ability, experience, and personality. Interesting and varied work with scope for initiative and responsibility. Please write: 86, New Street, Birmingham, 2. 6699

**PLAYNE & LACEY** urgently require a recently qualified ARCHITECT or a Final standard evening school student for work on large scale University development. Telephone WHI 2552 for interview. 6567

**LEWES, SUSSEX.** Small practice, contemporary work, needs ARCHITECTURAL ASSISTANT, Intermediate R.I.B.A. standard. Previous experience not essential. Hours to suit part-time study. Experience offered on site and in office. No Saturdays. Apply John Schwerdt, A.R.I.B.A., 31 High Street, Lewes, Sussex. 6575

**NEW ZEALAND.** SENIOR ASSISTANTS or newly qualified ARCHITECTS offered remunerative employment: state if willing to be nominated under N.Z. Government Assisted Immigration Scheme; accommodation available for single or married applicants: full particulars by airmail, Orcheston, Power & Associates, Architects, Engineers, Industrial Planning Consultants, Box 35, Wellington. 6576

**LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON** have immediate vacancies in their London office for Senior and Junior ASSISTANTS. Write stating age, salary and experience to the above at: 3 Park Square Mews, Upper Harley Street, N.W.1. 6543

**BRIGHTON & HOVE.** ARCHITECTS require Junior and Intermediate standard ASSISTANTS. Box 6601.

**SENIOR ASSISTANT ARCHITECT** required to take charge of project. Apply Ronald Ward & Partners, 29, Chesham Place, S.W.1. BRLgravia 3361. 5960



**ARCHITECTURAL ASSISTANTS** required in busy modern Knightsbridge office of large Commercial Company. Salary range £900-£1,000 p.a. plus Cost of Living and annual bonus, pension fund, five-day week and L.V.s. Tel. KNI 8321, Ex. 13. 6642

**BUSY** and expanding practice requires Final standard ASSISTANT of initiative, and ability to handle varied work. Box 6638.

**ROOM AT THE TOP** at a salary of up to £1,000 per annum for experienced ASSISTANT ARCHITECT of proved imagination and ability who dislikes "age and service" promotion prospects. If you have got it, we would like to see it and you at our Brighton Office. Pensionable if you can stand the place. Box 6649.

**MAJOR Petroleum Company** requires for its Birmingham Office an ARCHITECTURAL ASSISTANT to work on varied commercial projects. Applicants must be of Intermediate R.I.B.A. standard with sound knowledge of construction and have had a minimum of five years' private office experience. Salary according to experience. Position will be permanent and pensionable. Excellent working conditions, staff restaurant, sports club, etc. Apply in writing, giving full details of age, qualifications and experience, to Box 6650. Replies can only be sent to those selected for interview.

**SENIOR QUALIFIED ARCHITECTS** and ASSISTANTS of Intermediate standard required for London Architects Department of Ind Coope Ltd. Varying and interesting work on hotels and public houses, including interiors and furnishings. Seniors, age 25/40 must have good design sense and be able to take charge of projects. A capacity for good perspective and presentation drawing an advantage. Intermediate Assistants must be competent draughtsmen with sound knowledge of construction. Pension scheme, five-day week, Lunch Vouchers. Write with full particulars and salary required to Company Architect, 160, St. John Street, E.C.1. 6659

**ARCHITECTURAL or SURVEYING ASSISTANT** required of Intermediate or Final standard with some office experience. Apply: Victor Bloom & Partners, Architects, 12, Gloucester Place, W.1. HUN. 2069. 6661

**ARCHITECTURAL ASSISTANT**, pre-Intermediate standard, required to work with small design group on commercial projects. Apply to the Architect, Brixton Development Co. Ltd., 22/24, Ely Place, London, E.C.1. CHANCERY 5141. 6663

**ASSISTANTS** required of Intermediate standard or above, by Architects in South Kensington. Applicants should have had two or three years' office experience and be capable of taking control of small contracts in all stages, particularly design—Apply R. Mountford Pigott & Partners, Kensington 1242. 6758

**PROGRESSIVE** firm of Architects require DRAUGHTSMEN and ARCHITECTURAL ASSISTANTS in Ruthin and Wrexham. Apply in writing, stating Office preference, salary required, qualifications and references available, to: Kenneth W. Fawell, A.R.I.B.A., Fawell, Bellis & Associates, 23, Well Street, Ruthin, Denbs. 6666

**LANCHESTER & LODGE** urgently require for work on large and interesting projects, one SENIOR ASSISTANT and one ASSISTANT Intermediate standard. Write full particulars, including salary required, 10, Woburn Square, W.C.1. 6670

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**ARCHITECTURAL ASSISTANT** required in South Coast office. Hospital experience an advantage. Write with details of training and salary required. Box 6709.

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**HENRY C. SMART & PARTNERS** require experienced ASSISTANT for School and other projects. Write stating age, experience and salary required to 120 Moorgate, London, E.C.2. 6746

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**SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS** required for general practice which includes Office Blocks, Schools, Churches, etc. Appointment to commence immediately or within next two months. Apply in writing to Sir Giles Scott, Son & Partner, 9 Gray's Inn Square, London, W.C.1. 6840

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**ARCHITECTURAL ASSISTANTS** required now in small but busy West End Office. Although not essential experience of working in the London Area would be an advantage. Applicants will have the opportunity of handling their own jobs from sketch stage to final completion. Salary (up to £950) according to experience. Box 6763.

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**ARCHITECTURAL ASSISTANT** required, salary £650-£900 according to experience. M. R. Heskest, 8 Acresfield, Bolton, Lancs. Tel: Bolton 10221. 6764

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**LEY COLBECK & PARTNERS**, F./R.I.B.A., F.R.I.C.S., A.A.Dip. M.I.Struct.E., have opportunities for ASSISTANTS with initiative who are of Intermediate and Final standard. Salary according to standing. Pension scheme, L.V., 5-day week. Apply Palmerston House, 31, Bishopsgate, E.C.2. 6766

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**ARCHITECTURAL ASSISTANT**, Intermediate standard, required for varied work including churches, community buildings, housing, etc. Pension Scheme. Possibility of house. Apply Selby J. Clewer, F.R.I.B.A., Bournville Village Trust, Birmingham 30. 6790

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**ARCHITECTURAL ASSISTANT** required in Eastbourne Architect's office. Must be good draughtsman with not less than three years' office experience. Apply in own handwriting with details of experience and present salary to Box 6877. 6877

**ARCHITECTURAL ASSISTANT** required, Apply in writing to Thomas Mitchell & Partners, 20, Bedford Square, London, W.C.1. 6876

**BRIAN PEAKE** requires **ASSISTANT** interested in and capable of running small contracts. Tel. GRO. 7883. 6870

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**ARCHITECTURAL ASSISTANT** required to prepare working drawings for housing and public building projects. Must be efficient draughtsman and good detailer with at least five years' office experience. Apply in writing to Richard Nickson, M.A., F.R.I.B.A., 12, Grosvenor Street, W.1, giving details of experience and salary required. 6848

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District Architect, F. W. Woolworth & Co., Ltd., Crown Site Building, 26/40, Kensington High Street, London, W.8.

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**EXPERIENCED ASSISTANT** of Intermediate standard required to complete team in Architect's Department of a group of City Property Companies. Varied work with responsibility. Good salary. Full details of training and experience to Box E1869, Whites, 72/78, Fleet Street, E.C.4. 6690

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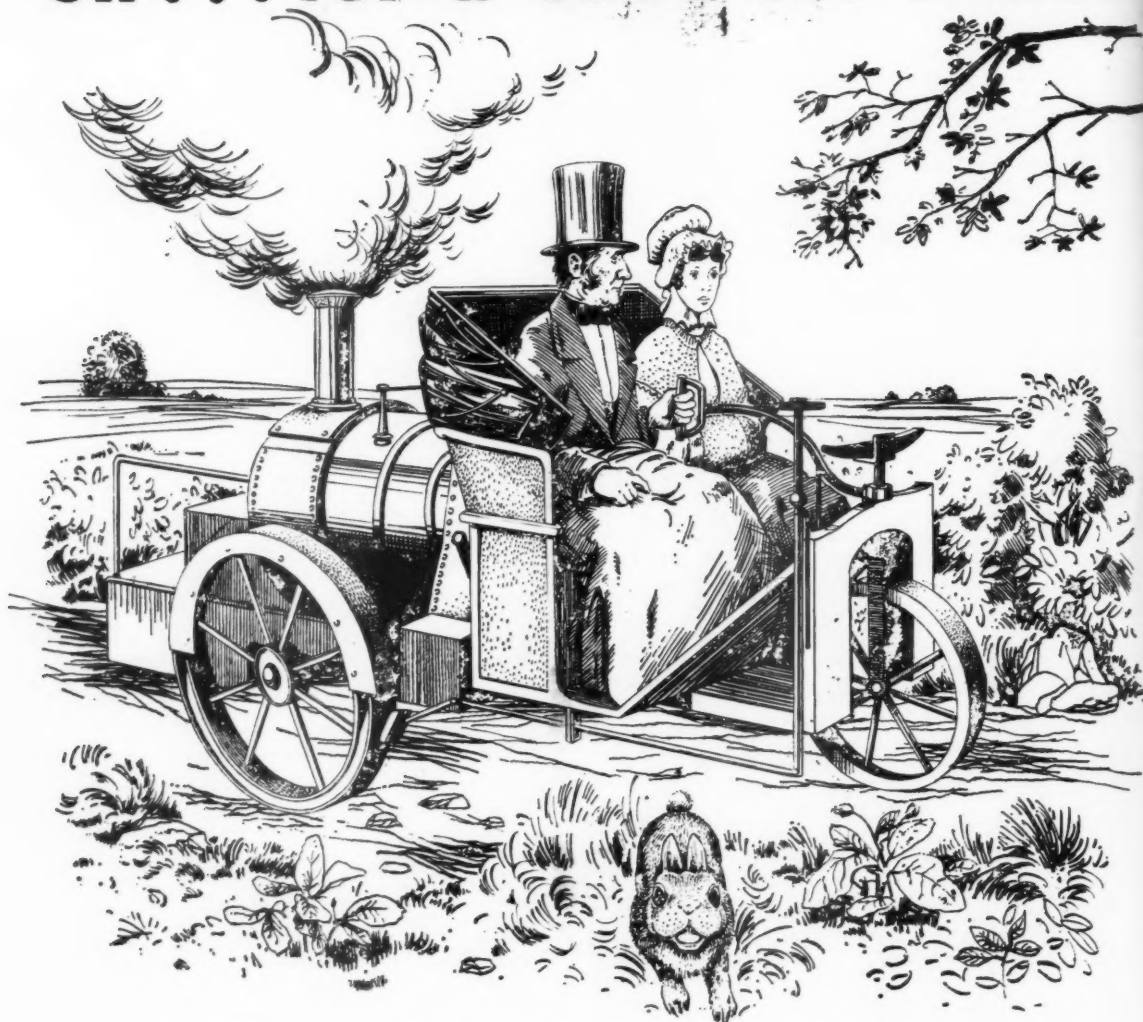
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