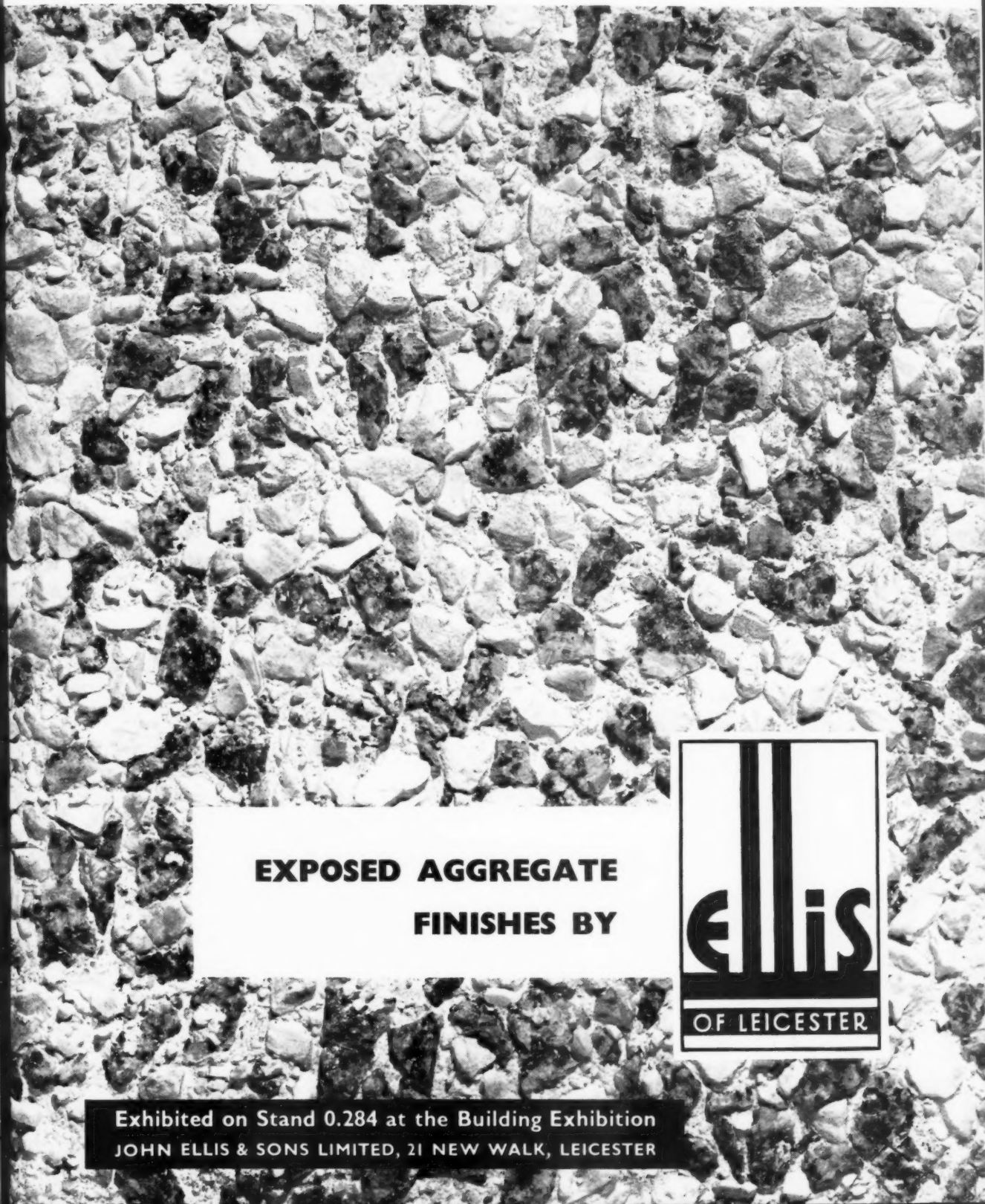


THE ARCHITECTS' JOURNAL

BUILDING EXHIBITION PREVIEW

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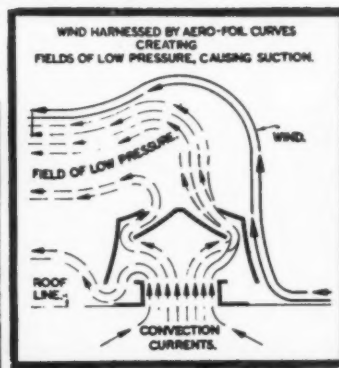
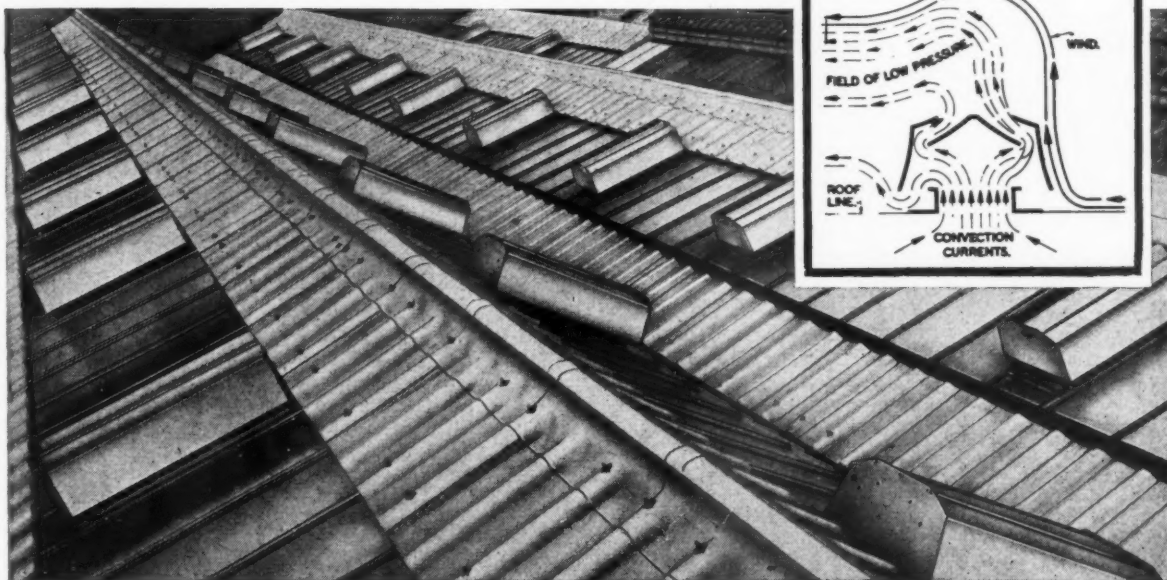
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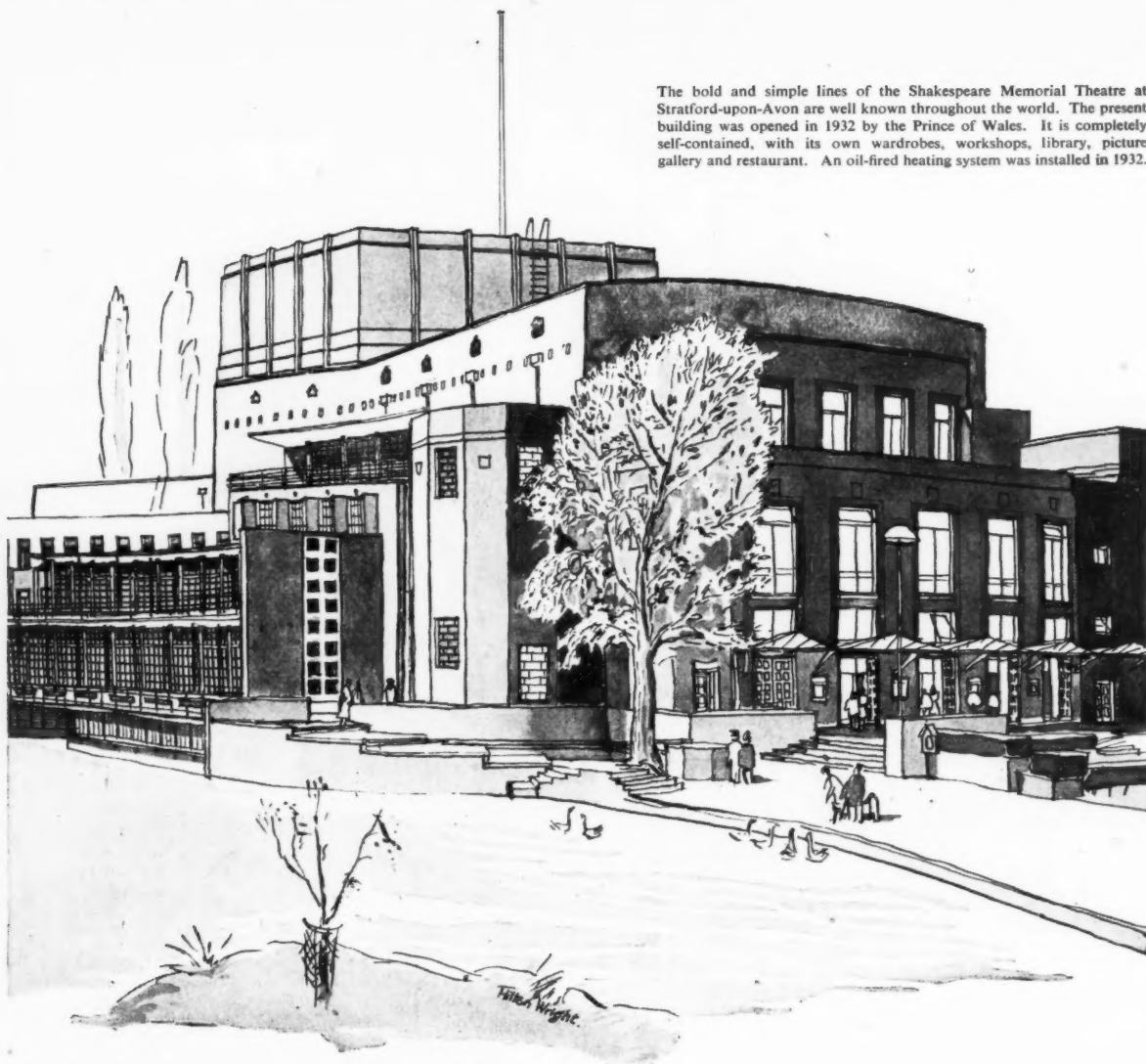
DG 16

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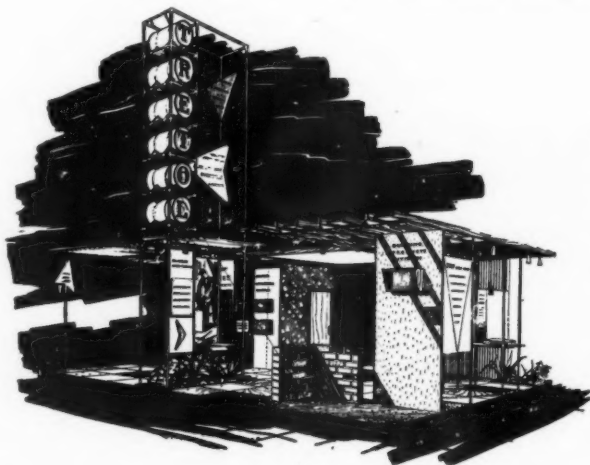
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open each day
from 10 a.m. - 8 p.m. (except Sunday)



This competition has been organised with the object of encouraging good design in houses where, on a price limit of £4,250, architects are not too hampered by restrictions of a low basic price. Awards totalling £500 are being presented for the three winning designs selected by the Assessor, Clifford Culpin, F.R.I.B.A.

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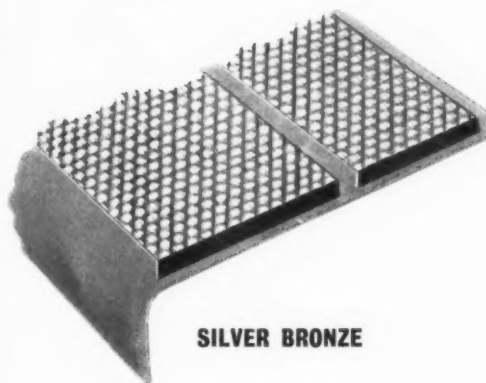
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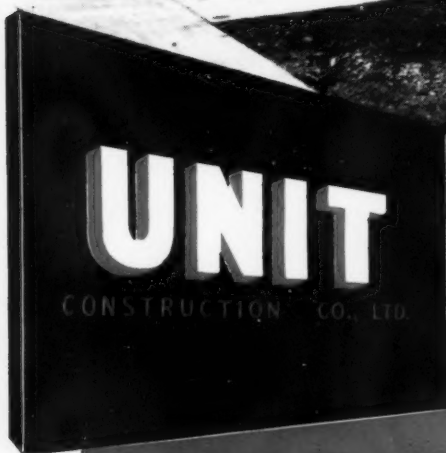
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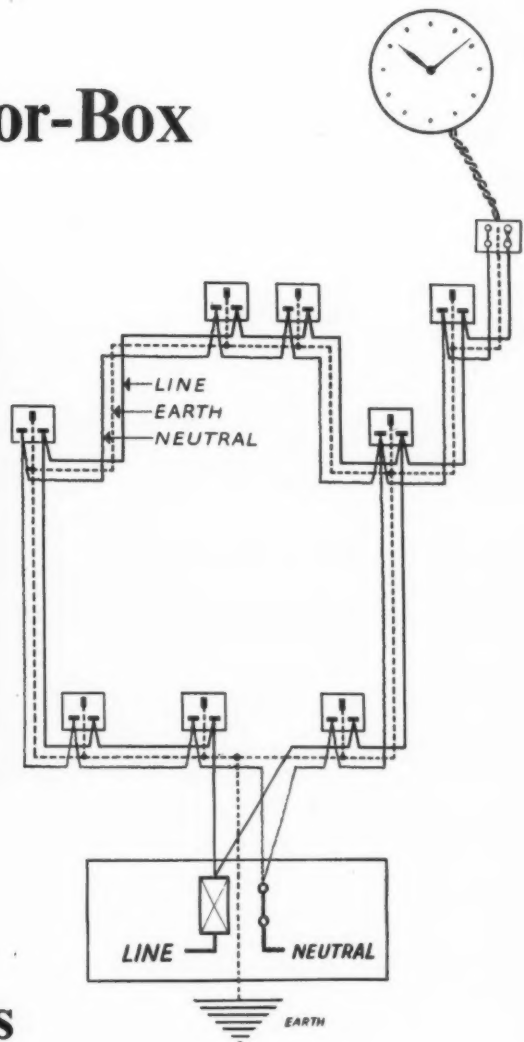
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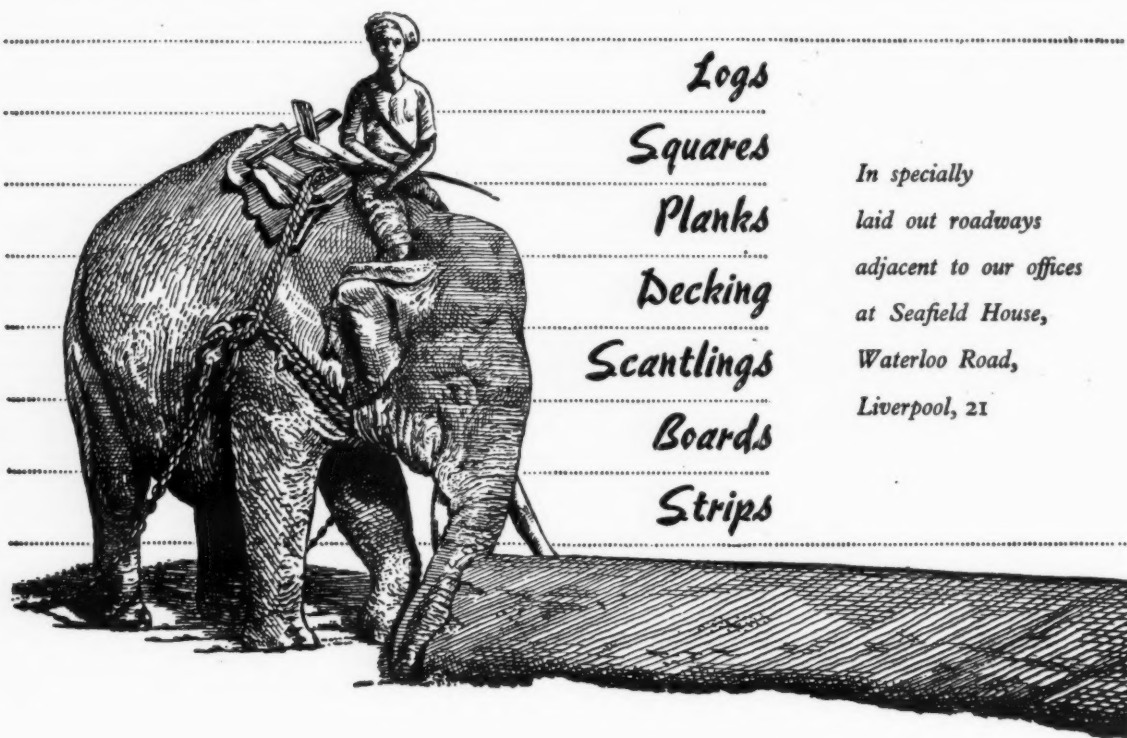
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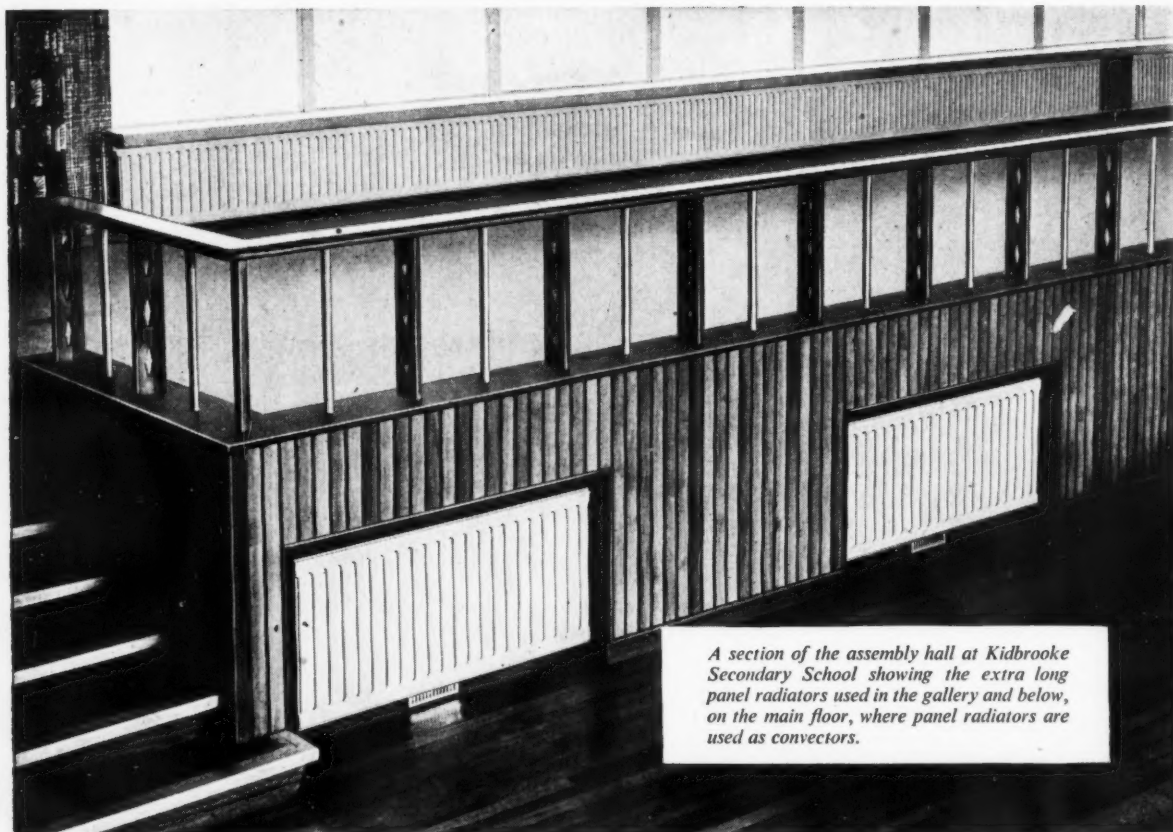
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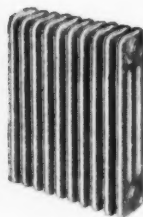
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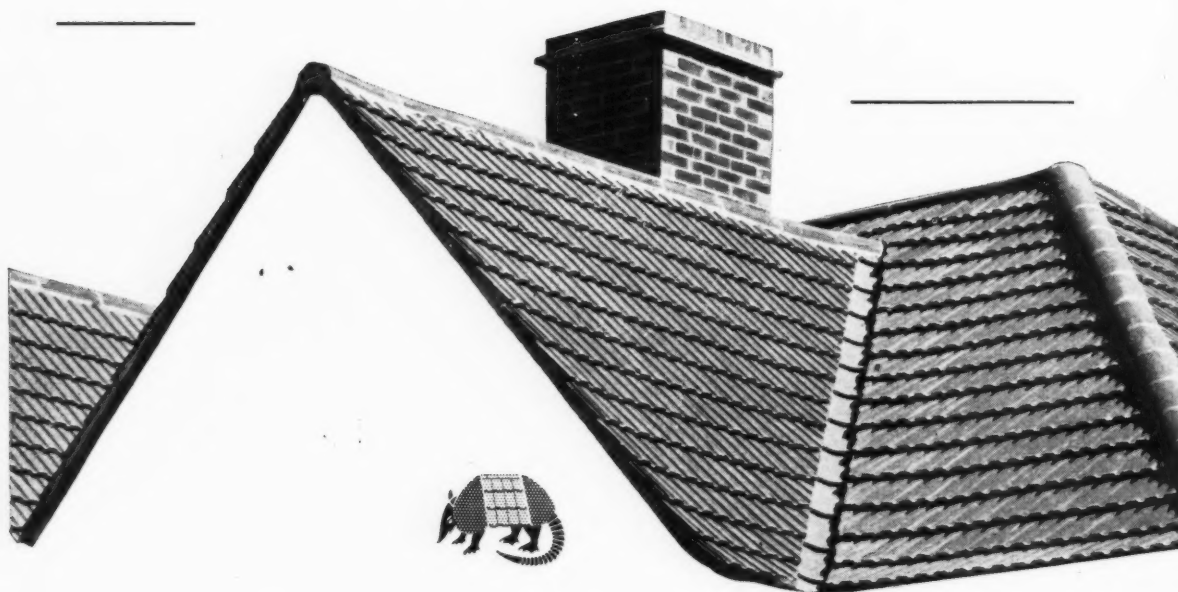


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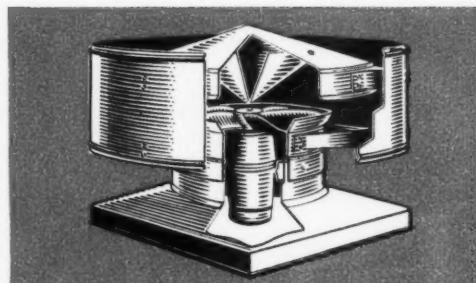
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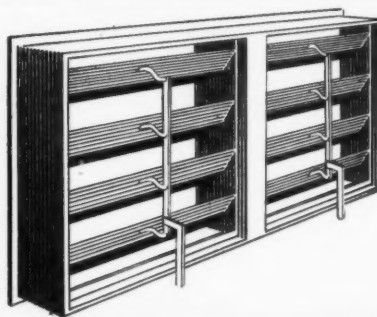
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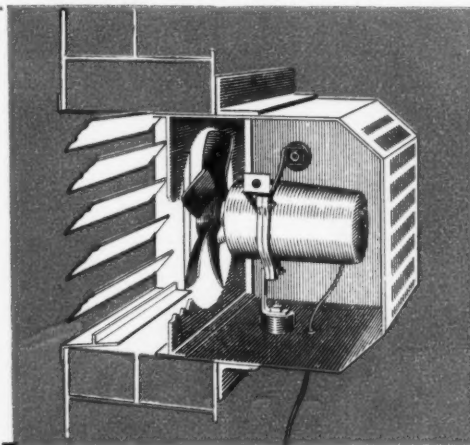
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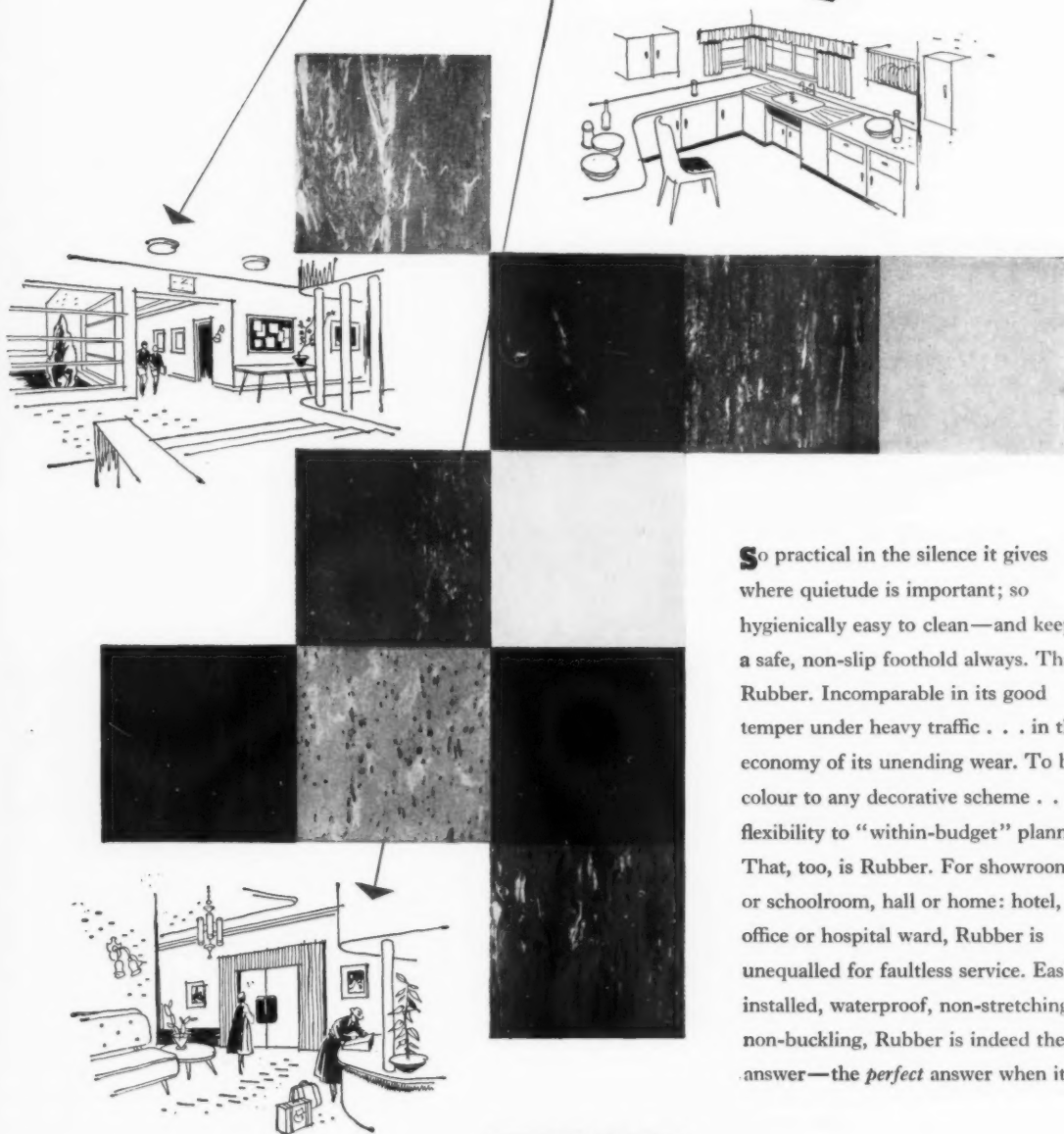
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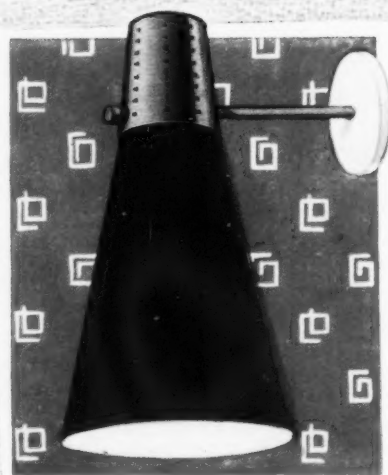
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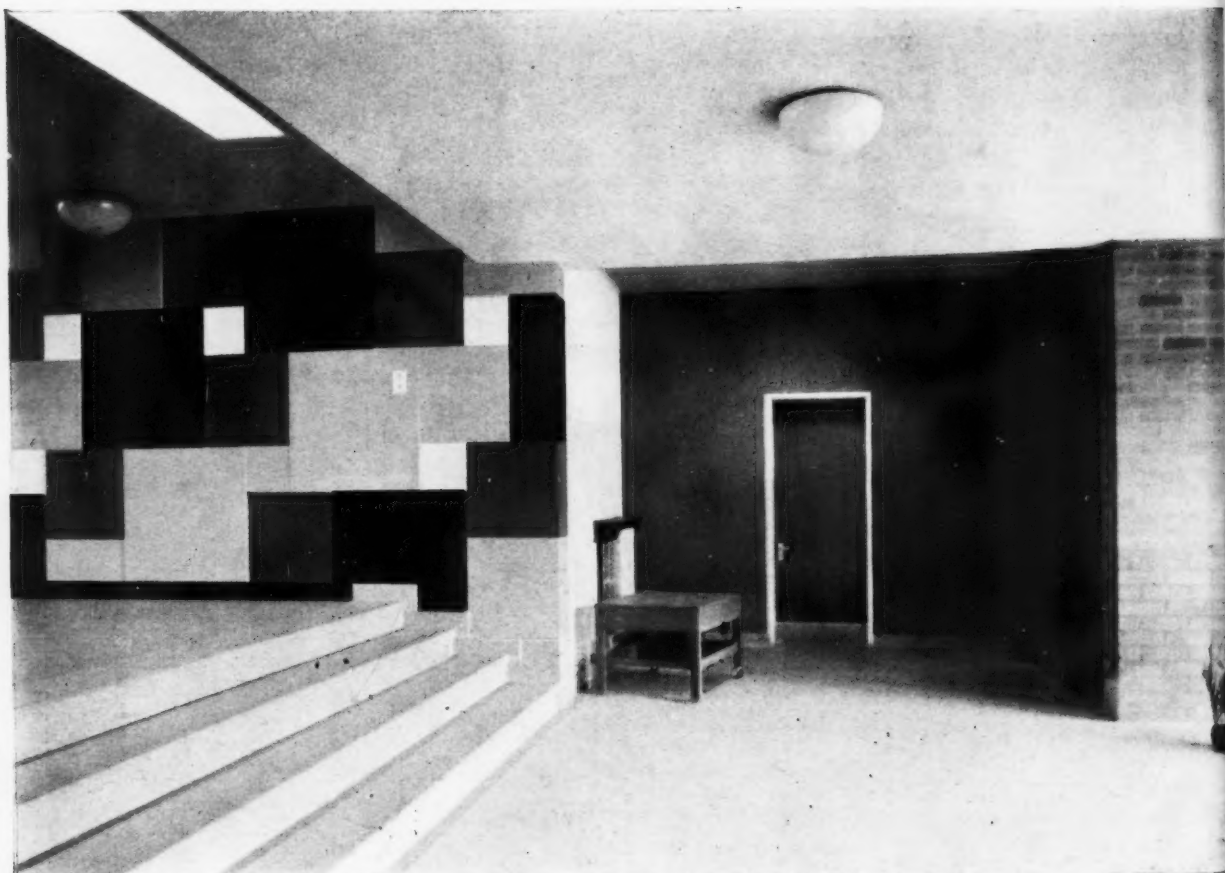
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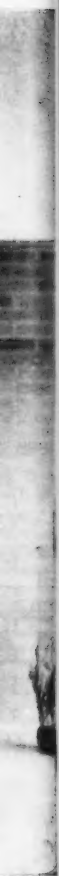
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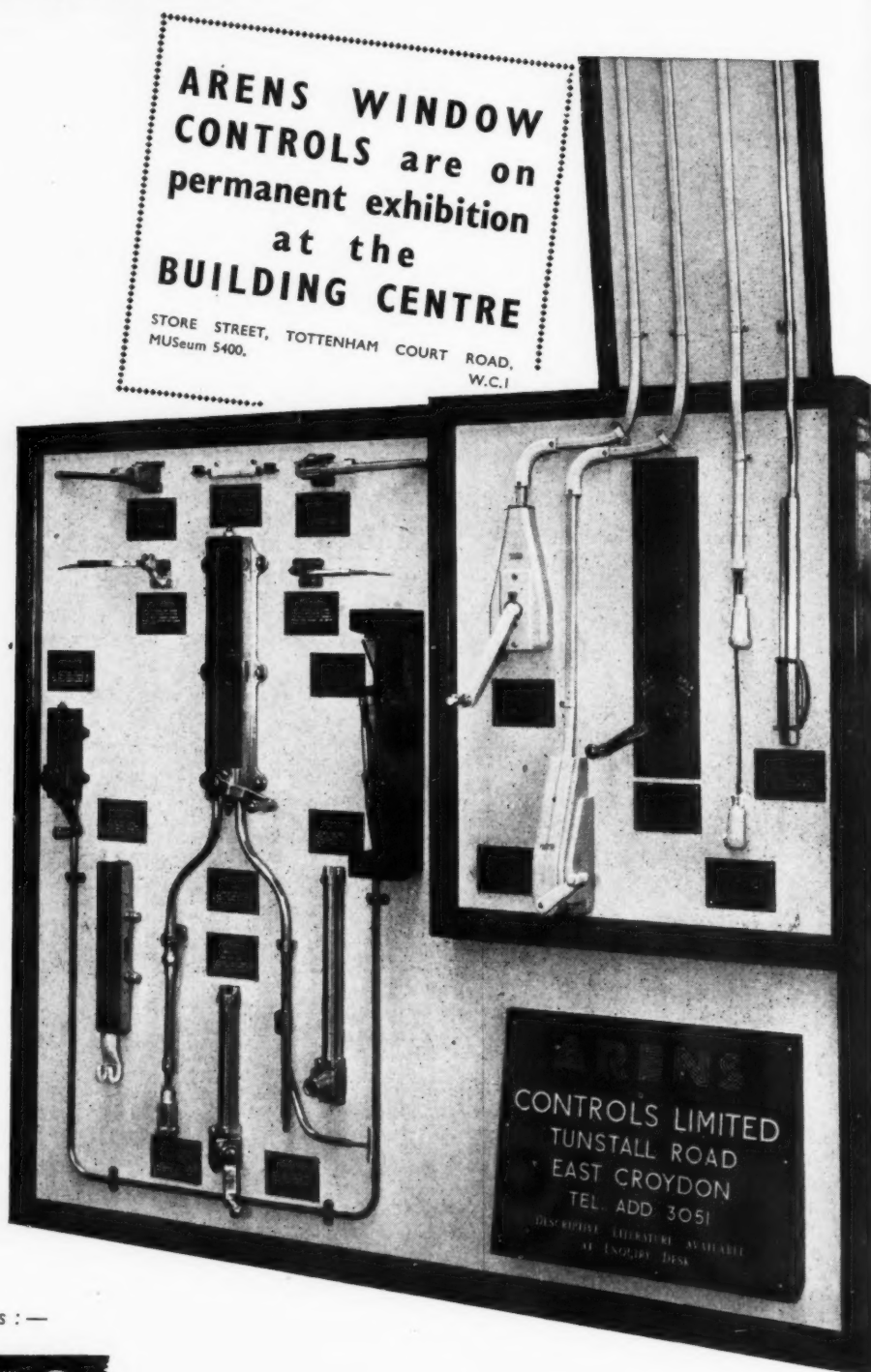
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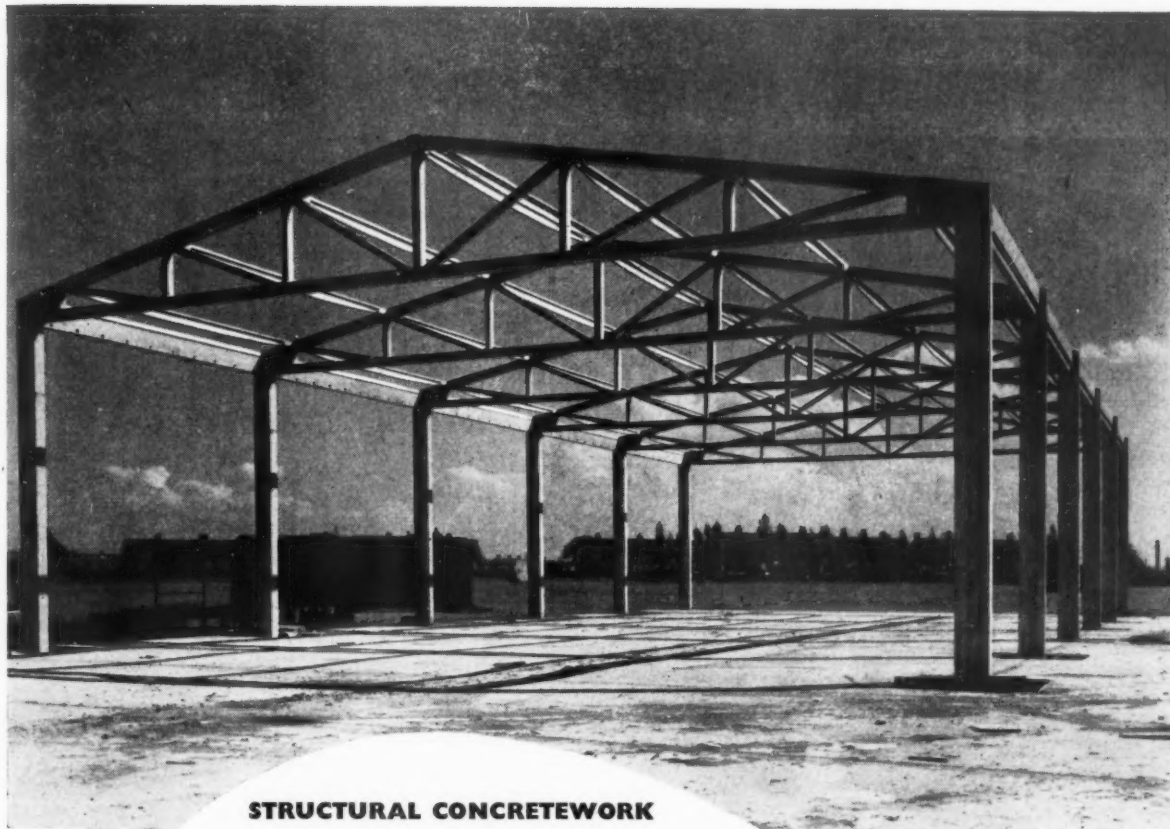
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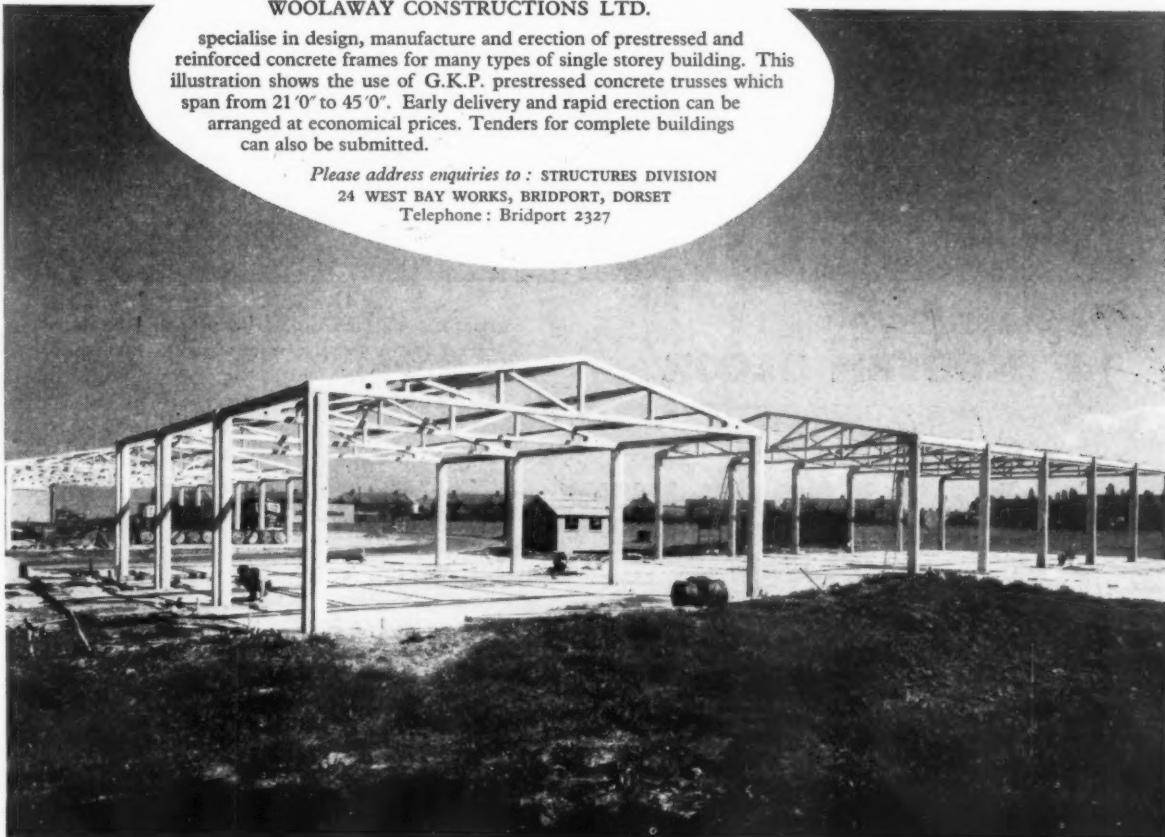


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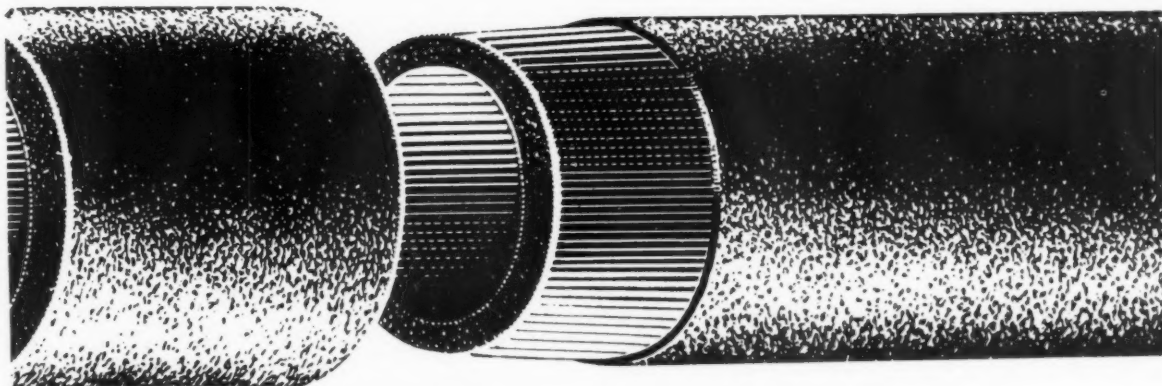
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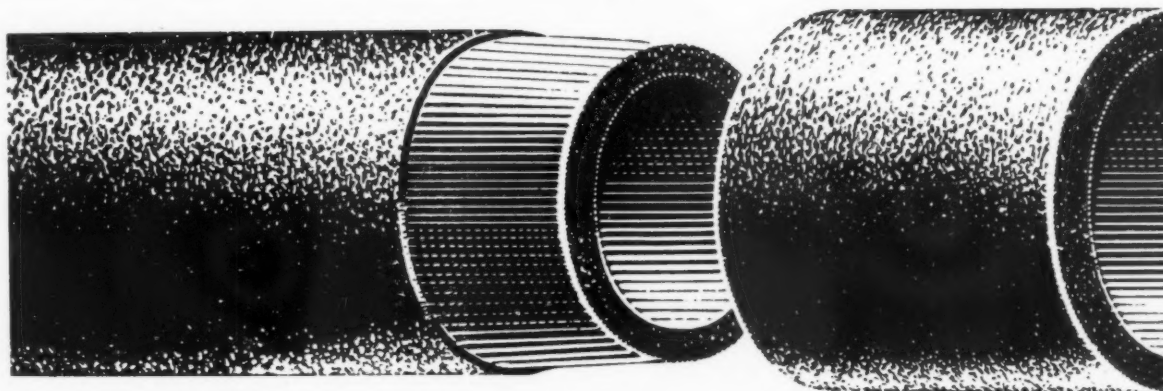


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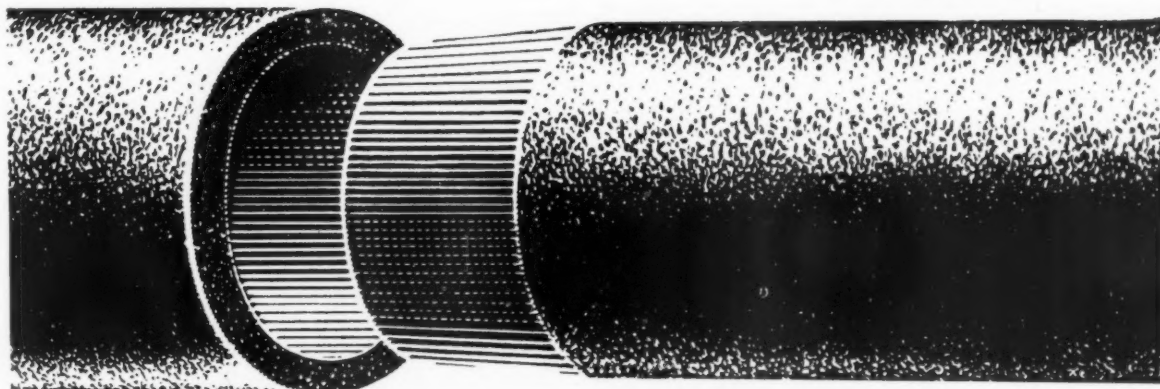
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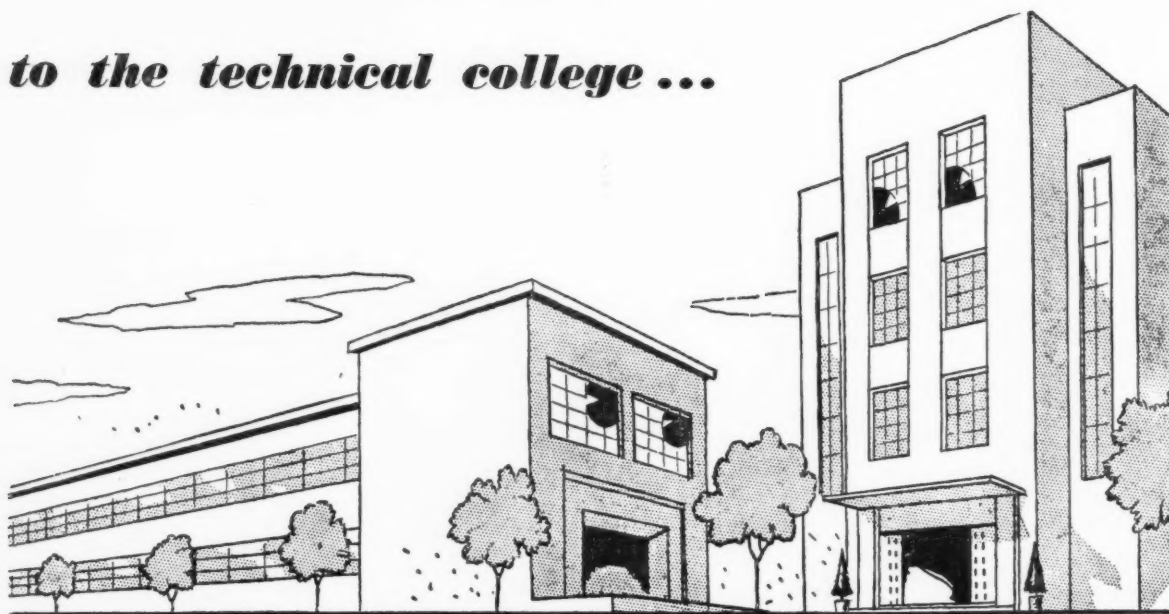
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FLATS Don't look now, but do you know that the hospital up the road has leaky windows — and it hasn't been up three years!

TECH Is that a fact?

FLATS One of my tenants went to see a patient there, and she says there are stains and rust marks dribbling down the walls.

TECH My dear, how disgusting. And in a hospital, too! Didn't the builders know about Arbomast B.1? All my four hundred windows are bedded in Arbomast B.1 and glazed with Arbolite Metal Casement Putty, and I've never had a leak anywhere.

FLATS You talk as though glass and metal were the only glazing problem. What about buildings like me, where metal windows are set in beautiful wood frames? I tell you, I'd have had a packet of trouble if my windows were not bedded and caulked with Arbomast B.1.

TECH Oh, I grant you both are excellent. But surely every builder in the land uses one or the other, these days.

FLATS You'd be surprised how many still try and get by with ordinary putty. Well, look at the hospital.

TECH My architect would never have allowed that!

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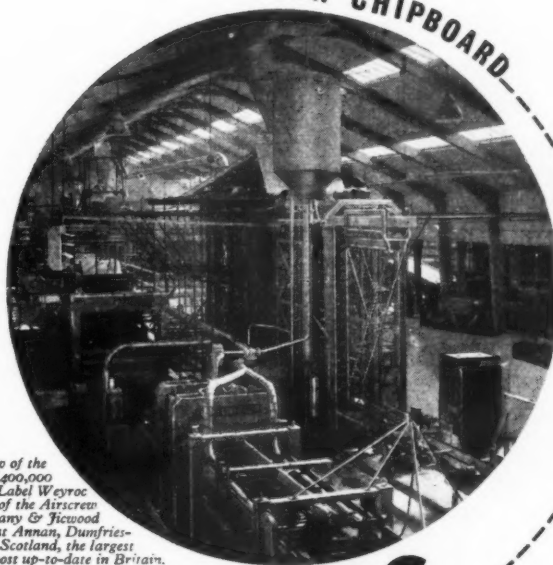
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A view of the new £400,000 Gold Label Weyroc plant of the Airscrew Company & Jicwood Ltd. at Annan, Dumfriesshire, Scotland, the largest and most up-to-date in Britain.

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GOLD LABEL Weyroc



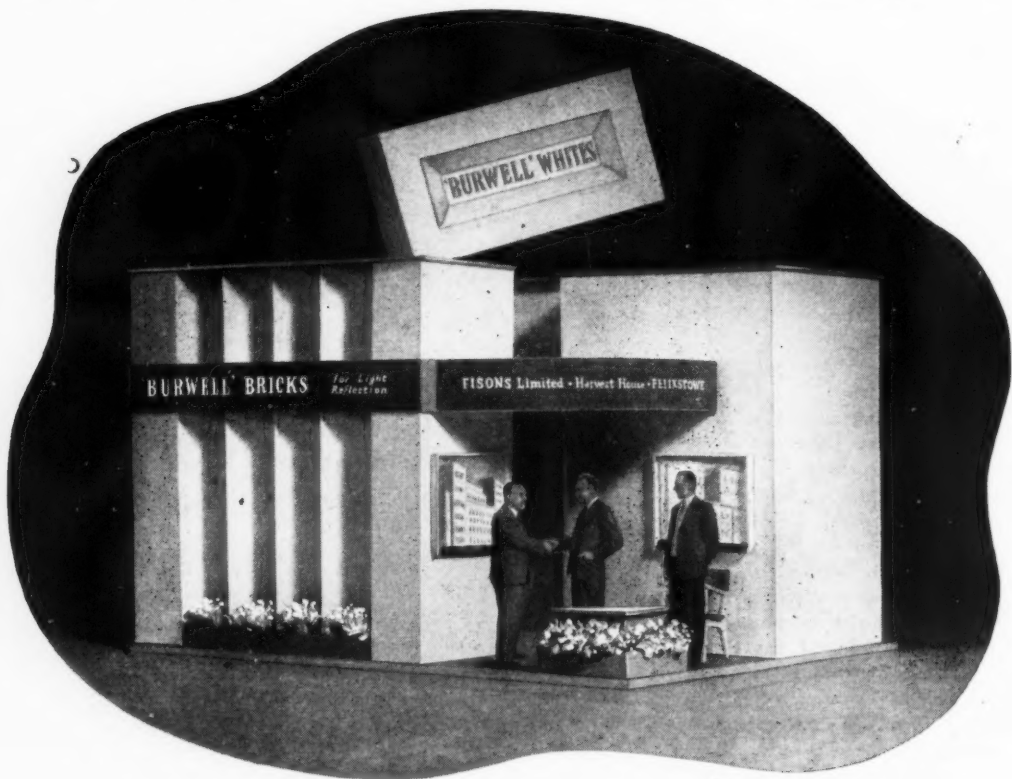
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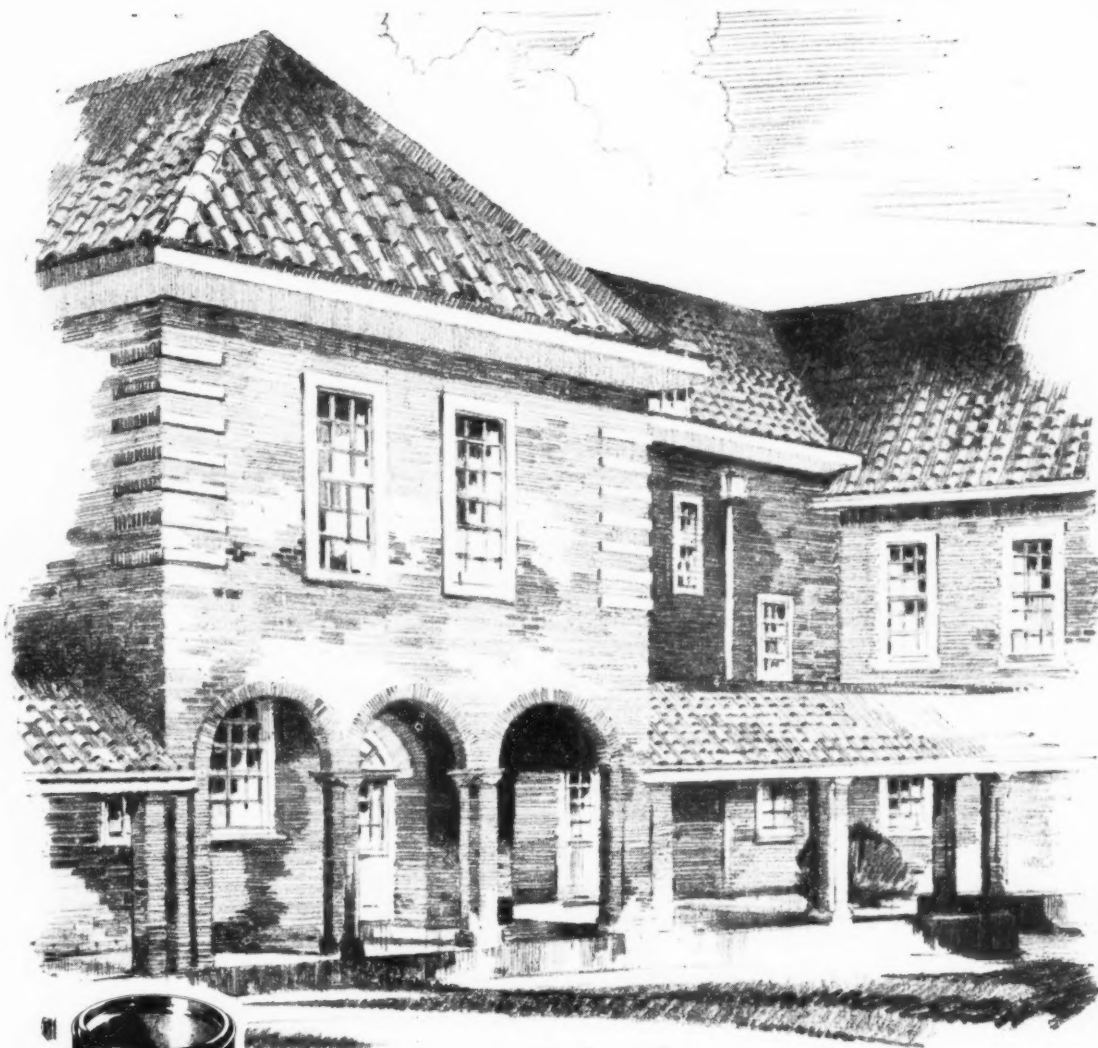
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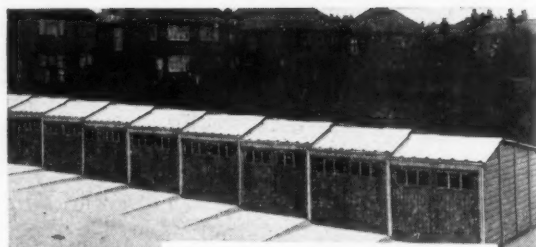
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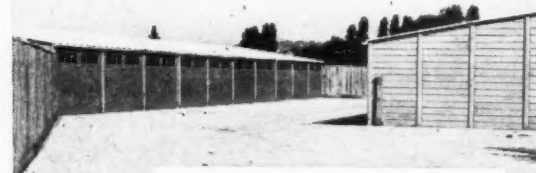
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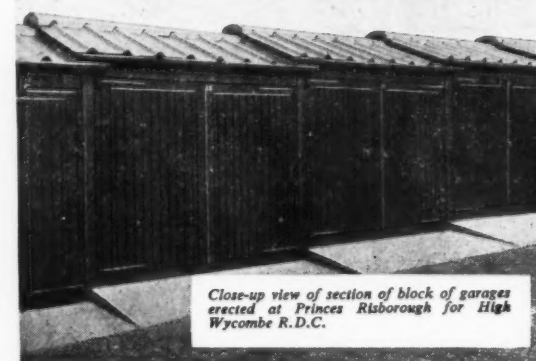
One of several blocks (privately commissioned) at Hurlingham, London.



Garages at Fordmill Road, Bellingham. Erected for the London County Council. Note special back to front roof slopes.



Garages erected for the Banstead U.D.C. at Nork North Estate.



Close-up view of section of block of garages erected at Princes Risborough for High Wycombe R.D.C.

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PARTITIONING SYSTEM

The photograph (below, left) shows PLIMBERITE Rebond Partitioning in the British Van Heusen Company's new factory at Bishops Lydeard, Taunton.

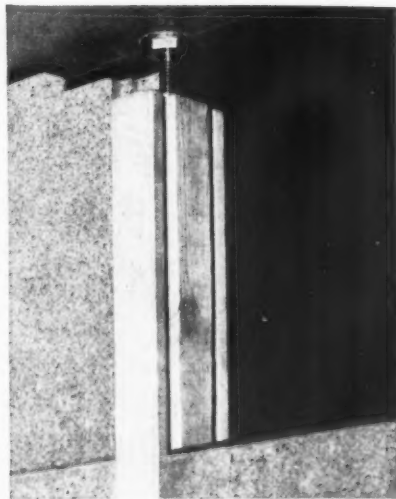
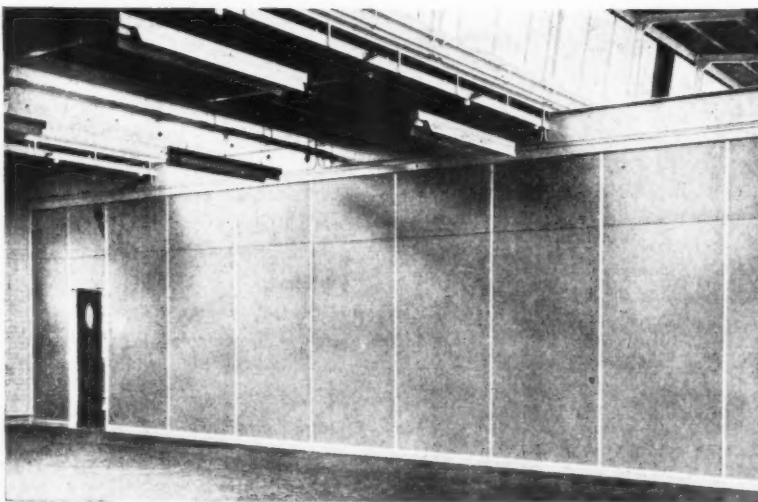
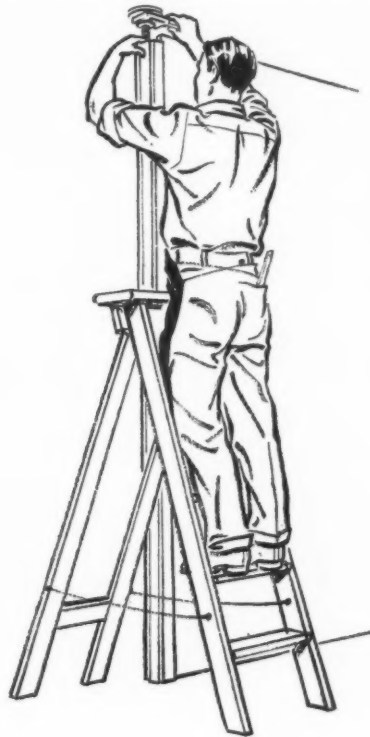
Architect: Steer & Shirley-Smith, A./A.R.I.B.A.

Contractor: Stansell & Sons (Taunton), Limited.

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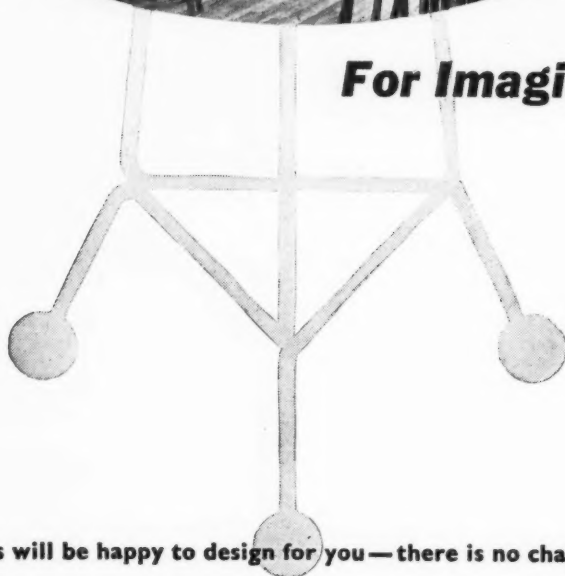
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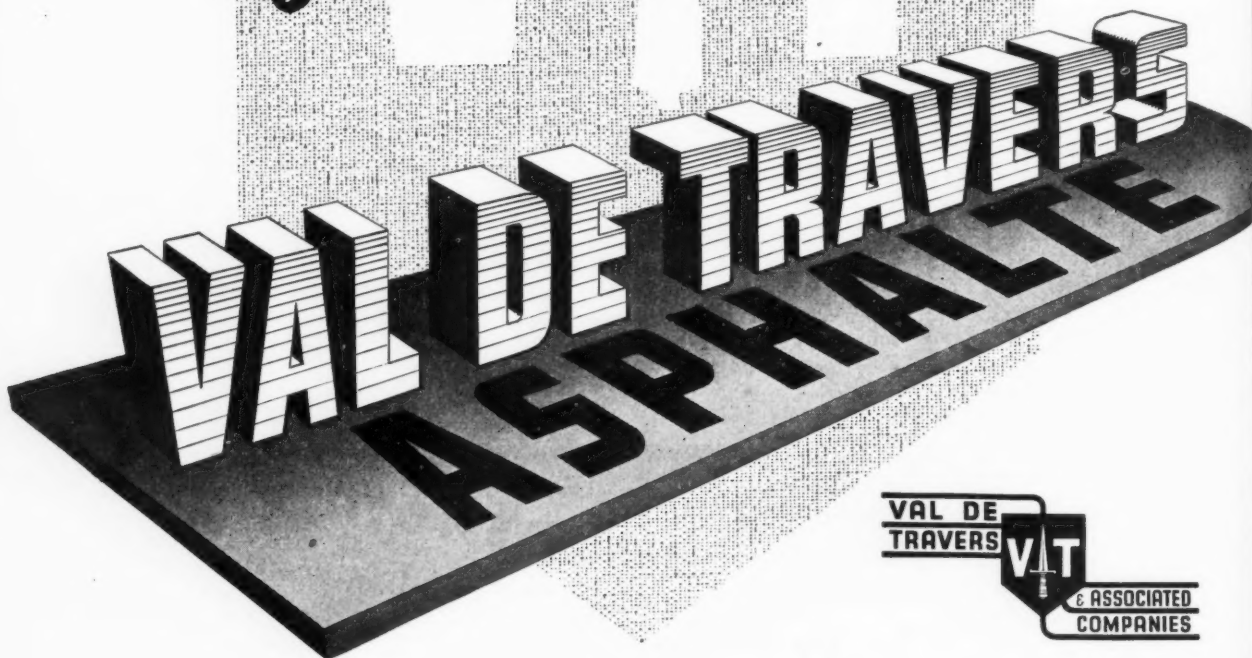
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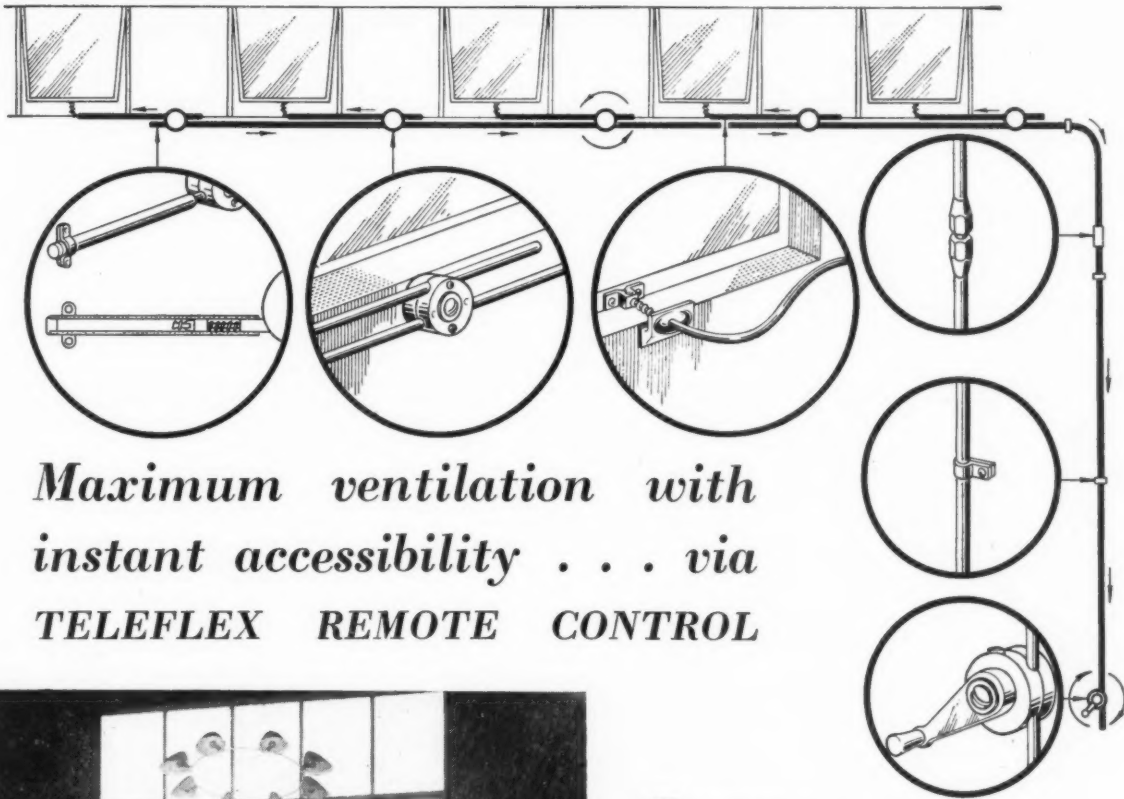


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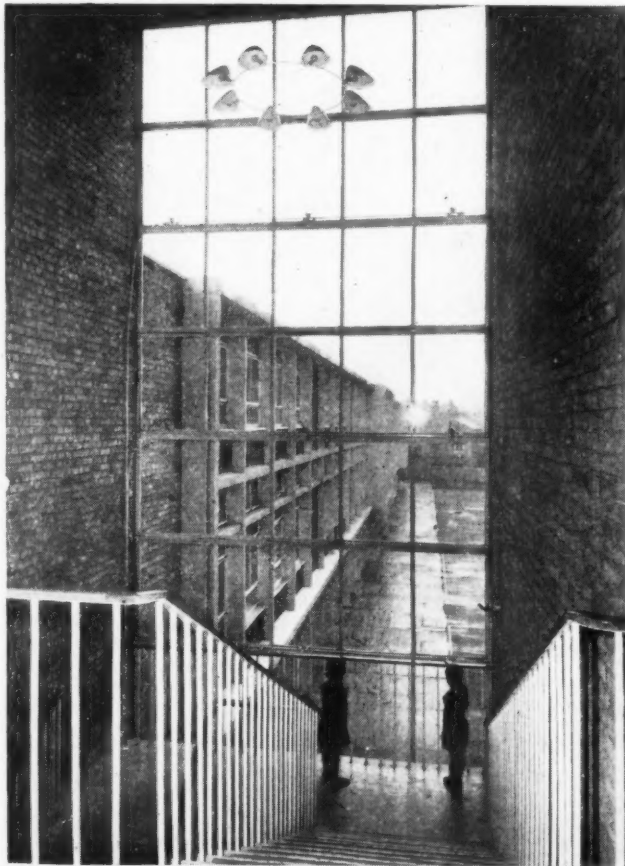
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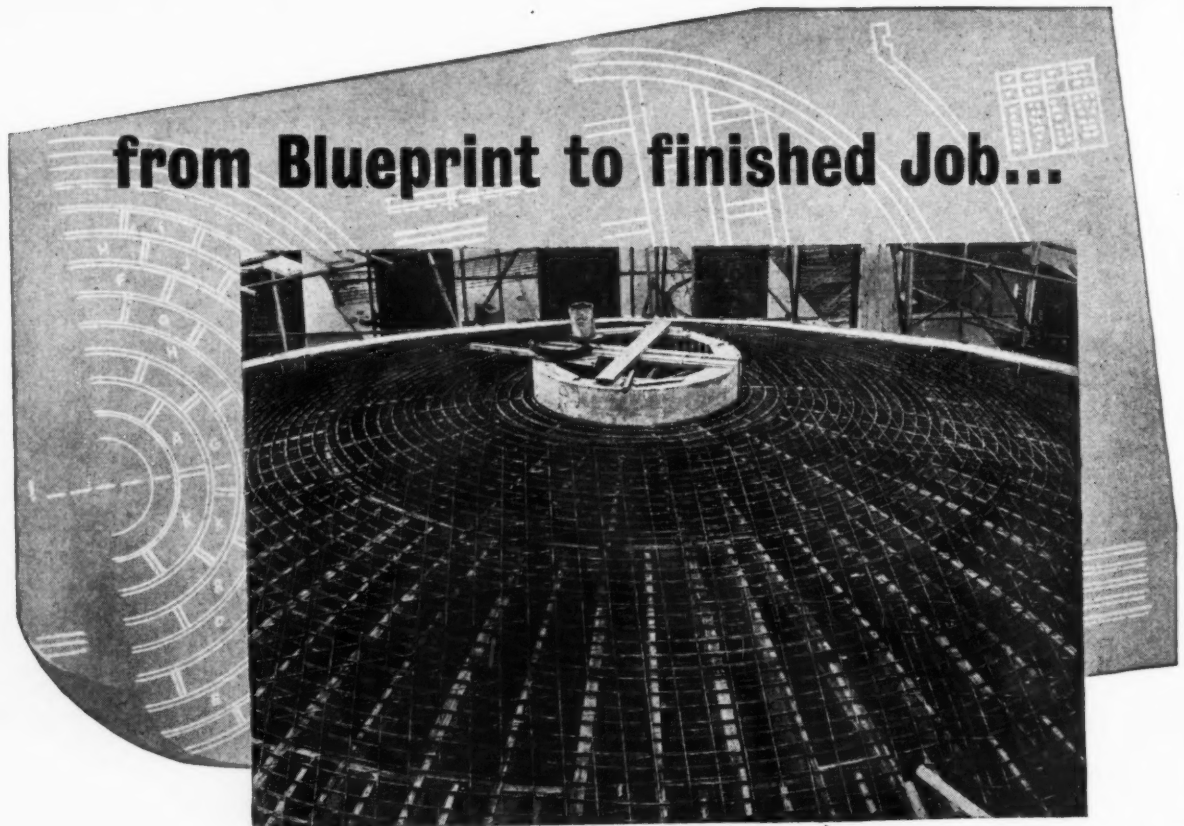
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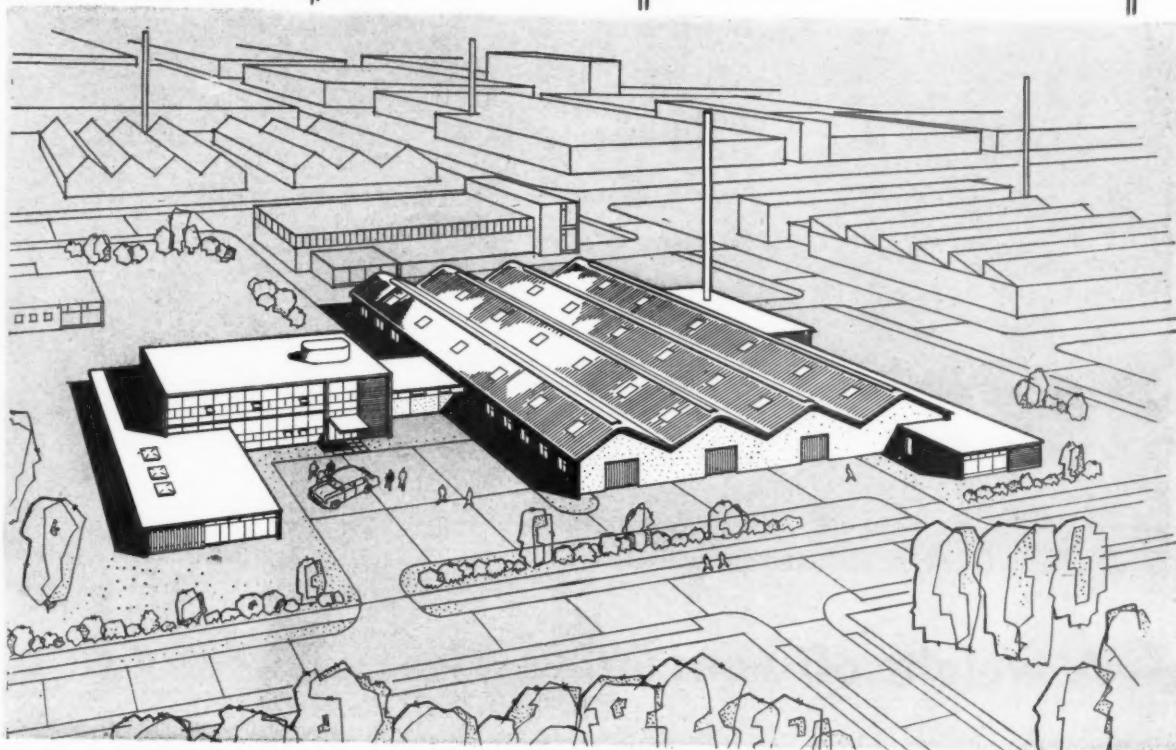
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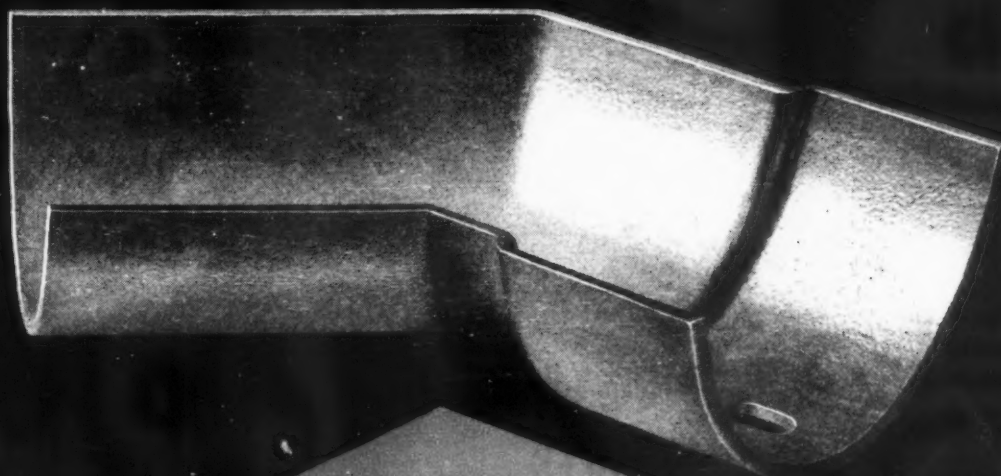


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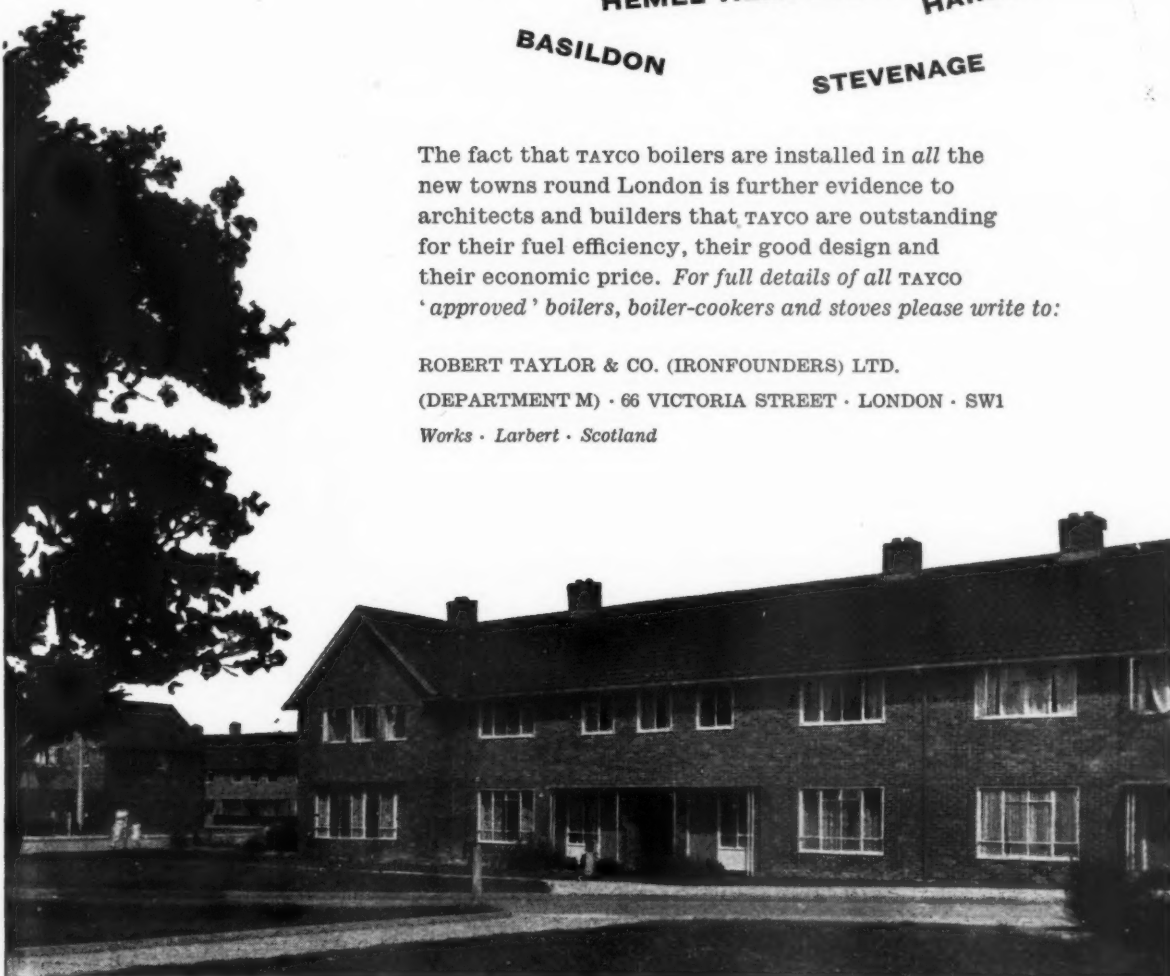
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United Merchants proudly introduce the newest addition to their range — the Unimer Plastic Well-Bottom Cistern. Its up-to-date design and its durability make sure that it will be well received. Costing no more than old-fashioned cast iron, plastic cisterns have many advantages. As well as being smarter and cleaner, they are silent and need no painting. Modern equipment for the modern home, plastic cisterns will last a lifetime —and, what's more, fit existing systems when used as replacements.

UNIMER
Plastic Well-Bottom Cistern

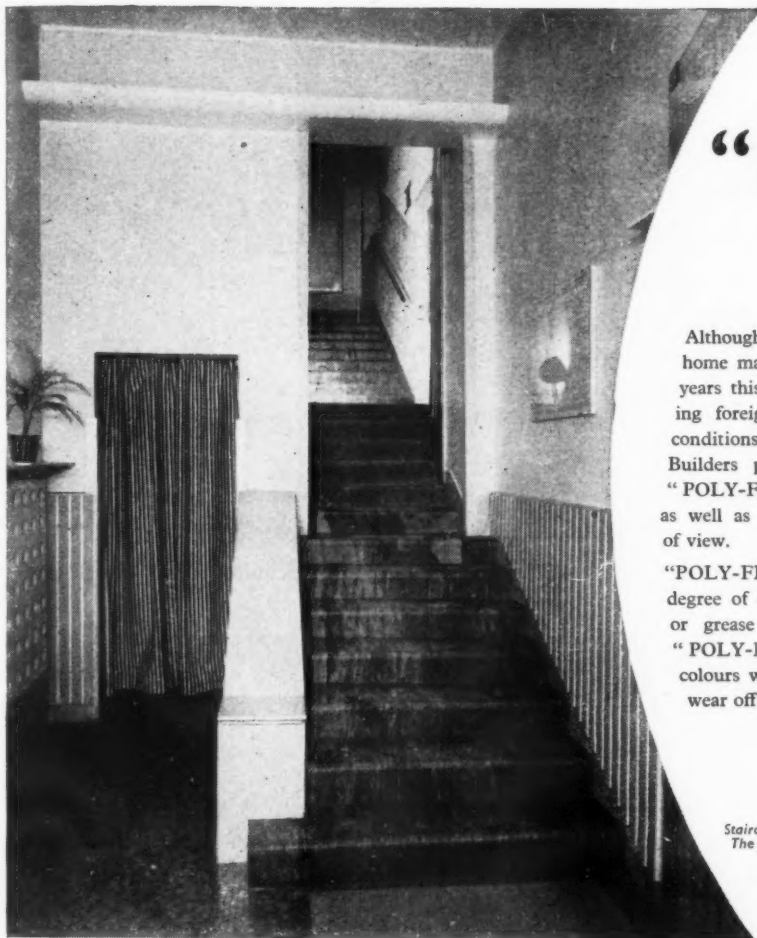
Write for illustrated literature.

- Impervious to rust and corrosion.
- Silent in operation.
- Complete with chromium chain.
- Proof against ice.
- Needs no painting.
- Costs no more.



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Although it has only recently become available to the home market, "POLY-FLOR" is not new. For many years this remarkable vinyl floor covering has been earning foreign currency and meeting the most exacting conditions in many overseas countries. Architects and Builders planning for long-term service can recommend "POLY-FLOR" with absolute confidence in its stability as well as its ability to "fit the job" from every point of view.

"POLY-FLOR" is a true vinyl material possessing a high degree of dimensional stability; it is not affected by oil or grease and does not easily support combustion. "POLY-FLOR" is produced in 22 attractive marbled colours which permeate the whole thickness and cannot wear off; it lays flat, stays flat, will not curl or crack.

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Specify "POLY-FLOR" vinyl floor covering

the modern flooring for lasting wear for
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premises of every kind.

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NOTE THESE ADVANTAGES.

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- ★ "POLY-FLOR" will not support combustion.
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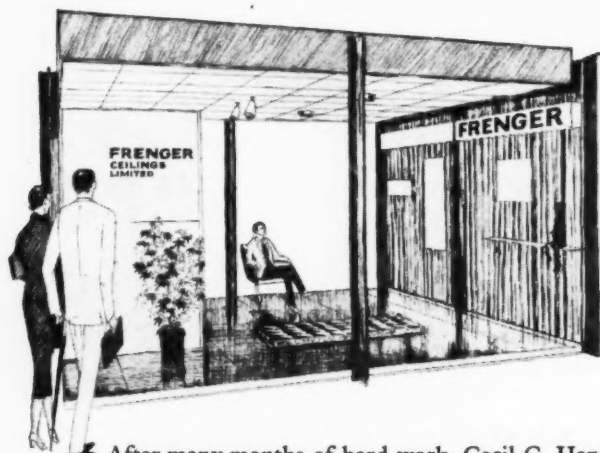
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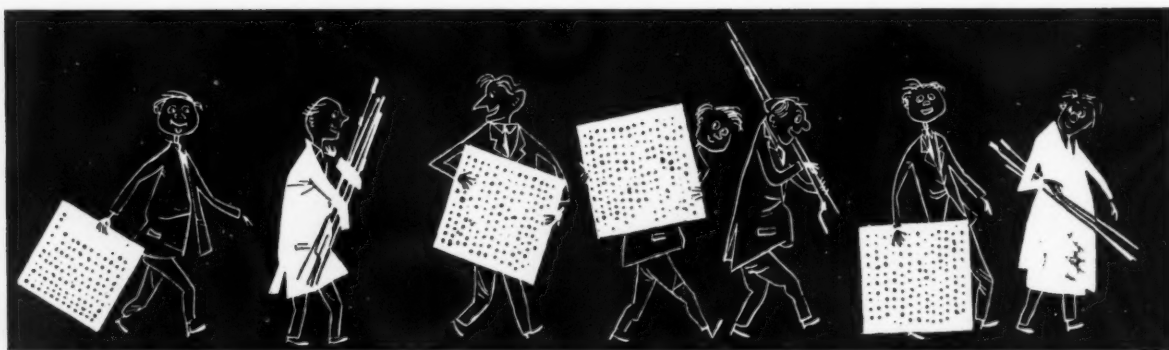




After many months of hard work, Cecil C. Handisyde, A.R.I.B.A., A.A.DIP., has

designed *the* stand of the Building Exhibition and with the collaboration of the

Frenger team we are able to announce that it will be definitely finished before the



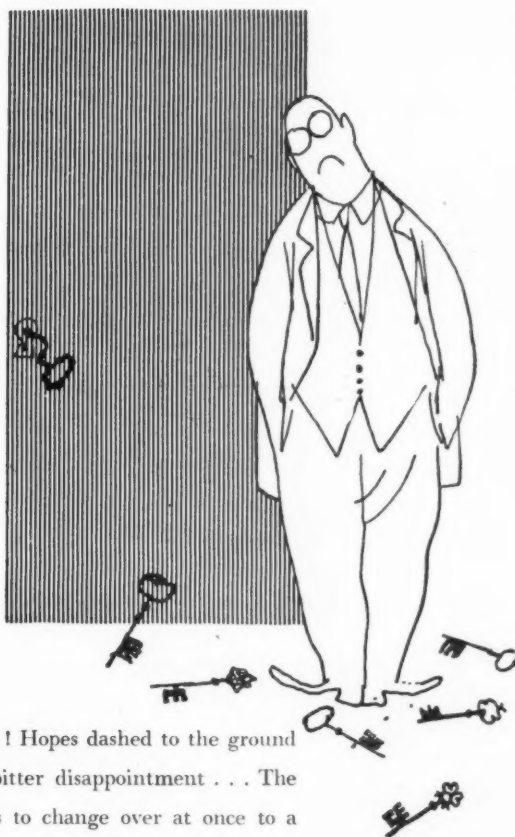
opening on 16th November — although this may mean borrowing an odd ceiling or two from our many successful contracts completed throughout the British Isles. Come and have a chat with us on Stand 155 and we will tell you more about ourselves.

FRENGER

● THE HEATED ACOUSTIC CEILING

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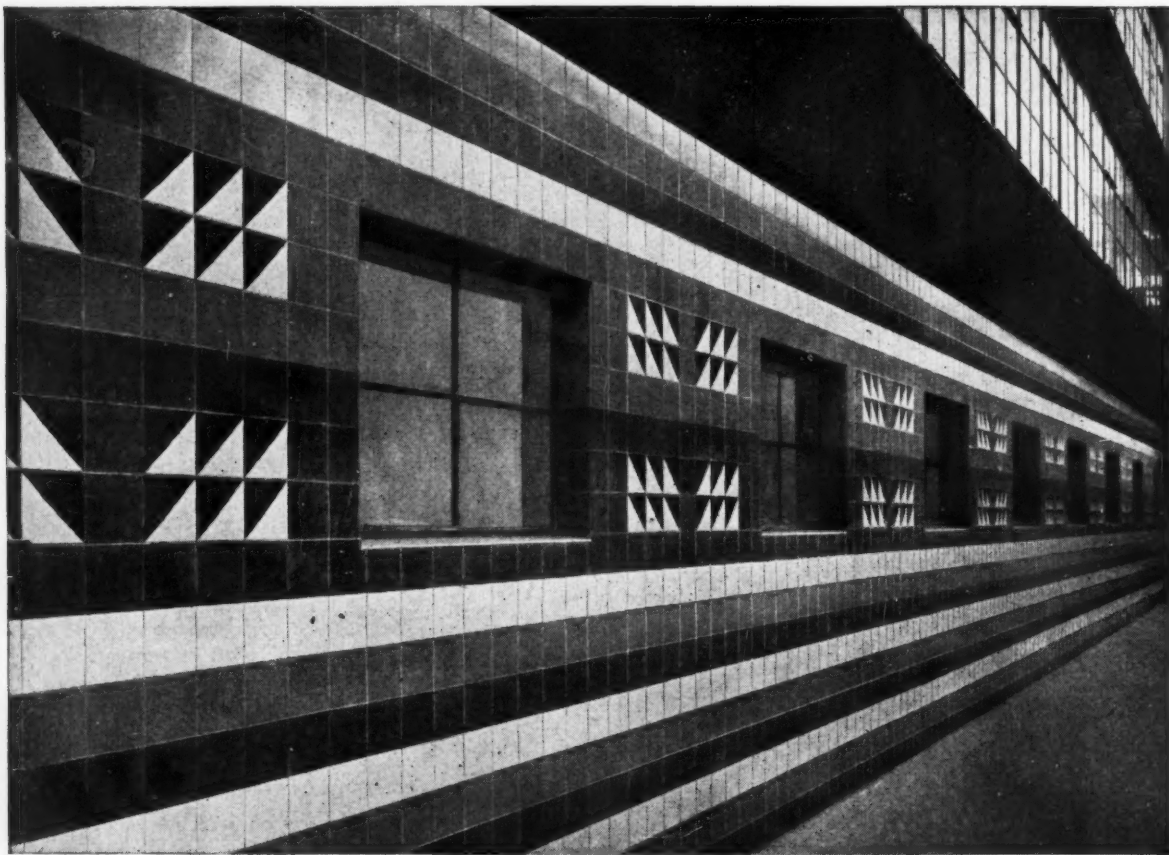
Master-keyed suites are among the many YALE products which bring security, convenience and dignity to doors of every kind—in factories, offices, hotels, homes and many other buildings.

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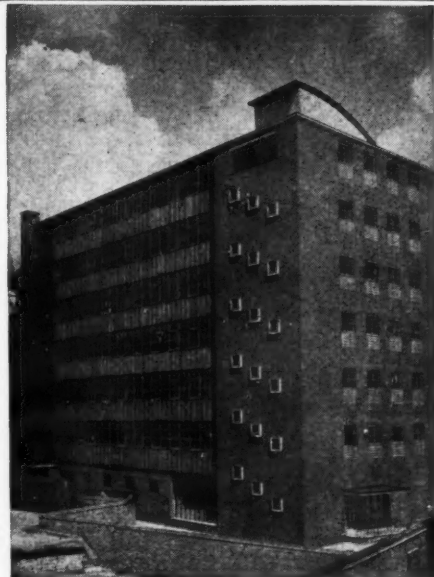
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DOOR CLOSERS
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LOCKS

The Yale & Towne Manufacturing Company • British Lock & Hardware Division • Willenhall • Staffs • England



18/20 Crucifix Lane, S.E.1. Architect: Edward H. Eames, A.R.I.B.A.

The choice of facing materials for this warehouse in Crucifix Lane presented a problem. The site is in close proximity to London Bridge Station and it was felt that any material, such as brick, would soon become black irrespective of its original colour. The problem was resolved economically by the use of pre-cast aggregate slabs. The aggregate was densely packed with very little cement surface visible, resulting in a comparatively self-cleansing surface. The ground story is tiled with attractive hand printed frostproof tiles. This is another of the fine modern buildings constructed by Ford & Walton.



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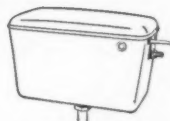


It's been a long, long time...

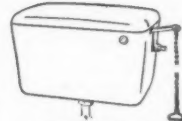
Since the days of the old flushing apparatus, the lavatory cistern has happily become a streamlined, smoothly functioning fitting in keeping with the contemporary style. The newest Lawley plastic cisterns are worthy successors to the trusty *objets d'art* made by Lawleys over seventy years ago; for all their changed appearance, however, traditional quality is still an essential part of their make-up. Prices? In the contemporary manner, to meet today's almost universal need for economy.



Our illustrated folder gives details of four Lawley models, in plastic, to suit all water regulations. We shall be pleased to forward copies on request.



Model LL/SP



Model HL/P



Model LL/FP



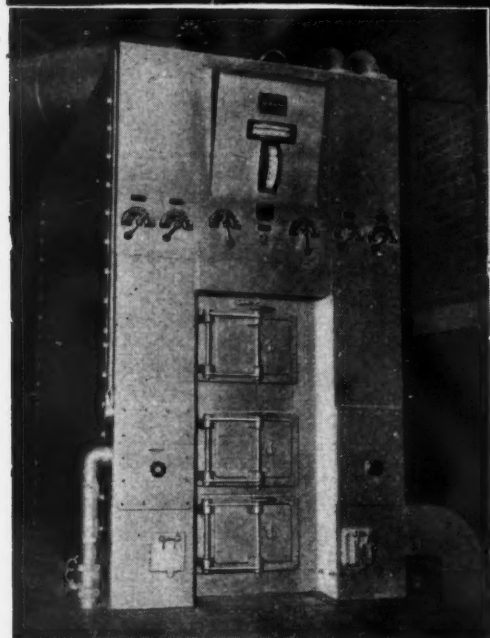
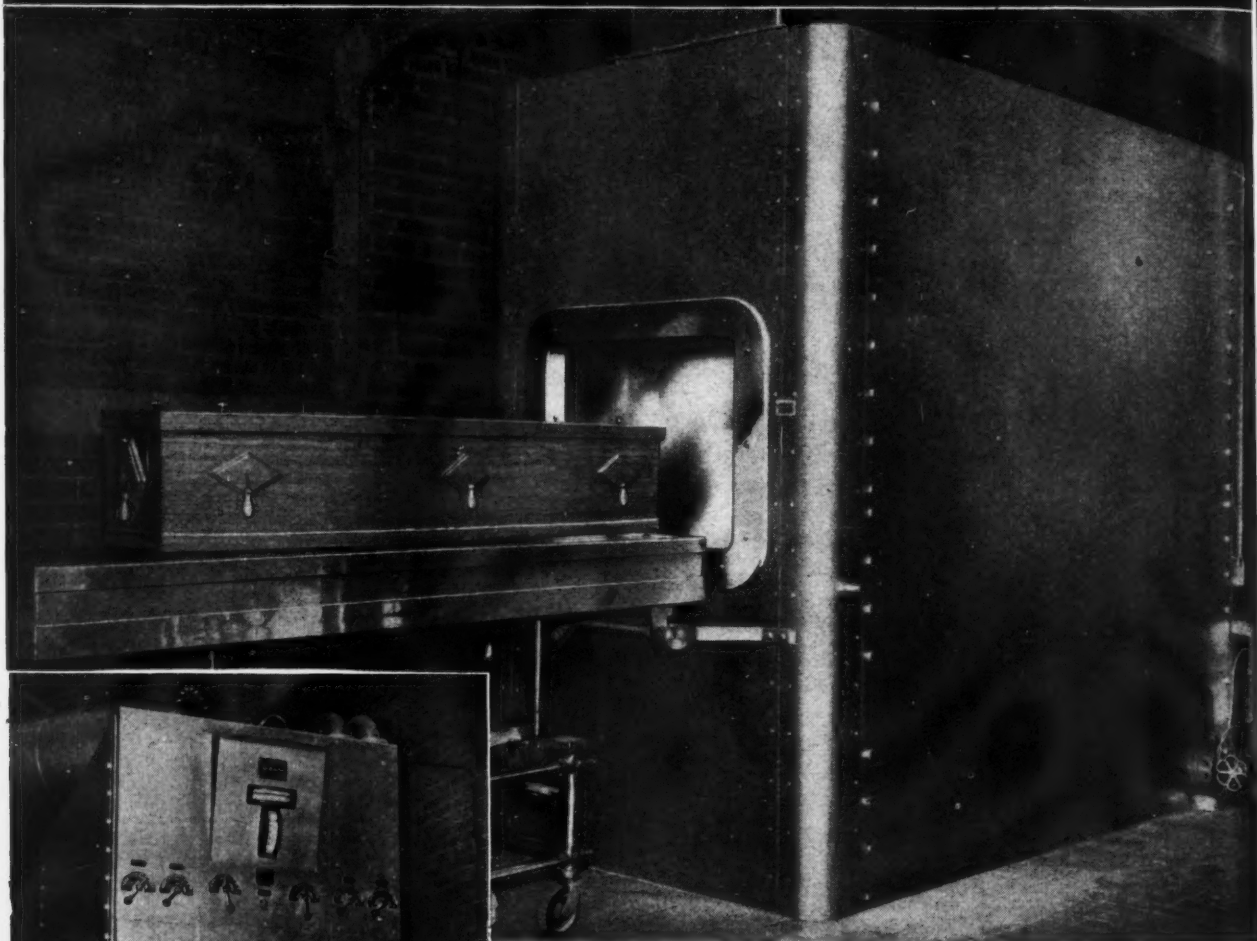
Model WB/P

Lawley BRITANNIA

pioneers in cistern manufacture since 1881

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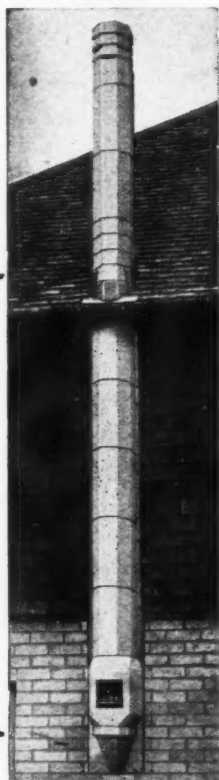
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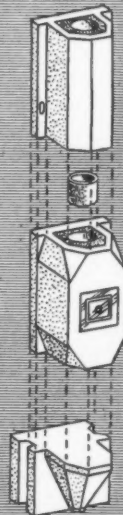
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TRIPLE-UNIT
TYPE 'U'

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These labour-saving and efficient devices, of which there are several types available, are made of heat-resisting refractory concrete and form a stream-lined connection between the fire and the flue.

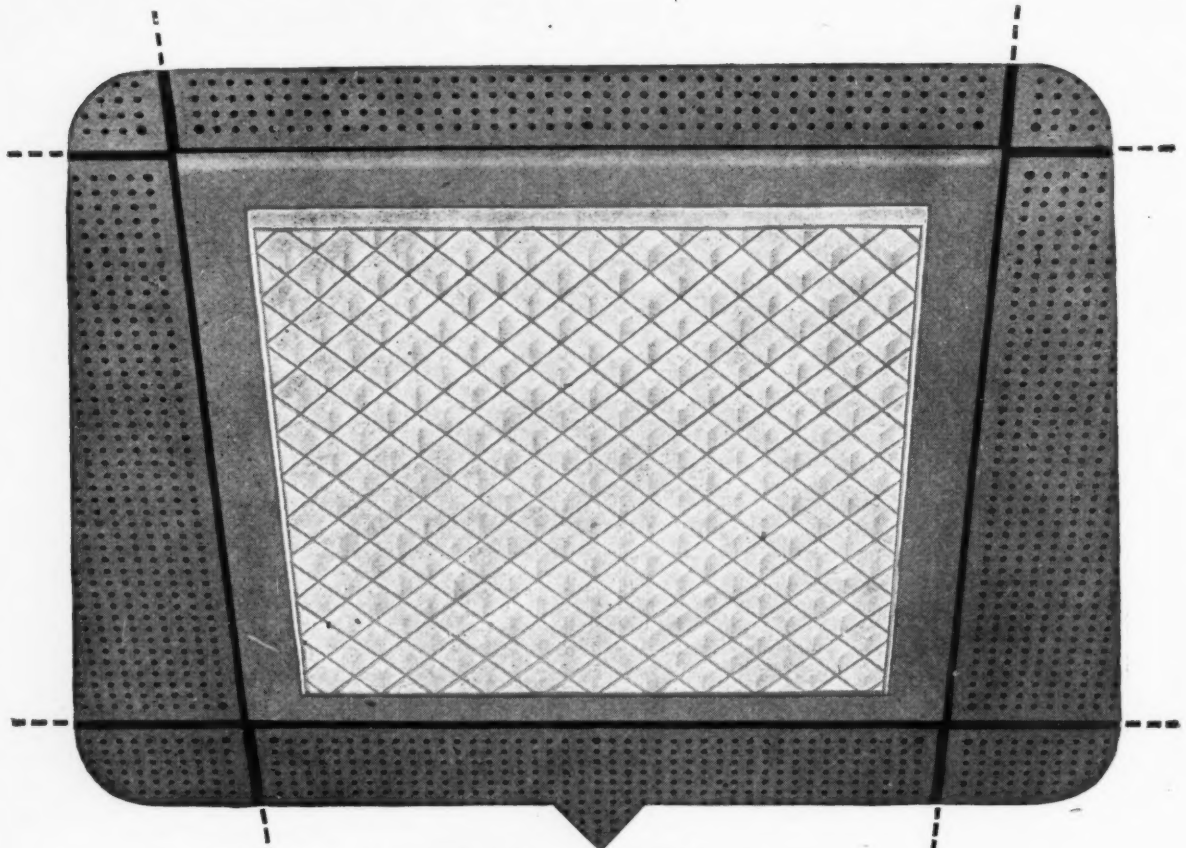
The unit illustrated eliminates the labour involved in forming the Gather-Over in brickwork above the fireplace opening. When placed in position it forms a base for TRUE FLUE circular rebated linings or for the 9in. by 9in. parged flue.

The lintol has a removable front portion to enable the Unit to be built in immediately above the appliance, thus enabling a fireplace surround of more pleasing proportions to be used. The front attachment is removed when the appliance is fitted and bedded back in position when any necessary infilling around the back and sides has been carried out. The type of front attachment will vary according to the design of the heating appliance and fireplace surround.

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Polyflex
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The 'Polyflex' toilet seat has a *flexible mounting*. Breakages are very unlikely. 'Polyflex' includes a flexible PVC rod attached to the seat and firmly fitted into Polythene seat pillars. The pillars, reinforced with a threaded brass insert, are self-centering in the WC pan with polythene washers secured by wing nuts. The 'Polyflex' seat can be fitted by the housewife without any tools, and, because of the flexible mounting, it will stay firmly in position. The 'Polyflex' is hygienic. The seat, hinge, and pillar heads cannot corrode or peel. All are easily cleaned. The 'Polyflex' is available in black, white and a range of standard pastel shades.

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nothing disturbs
Stelcon floors"

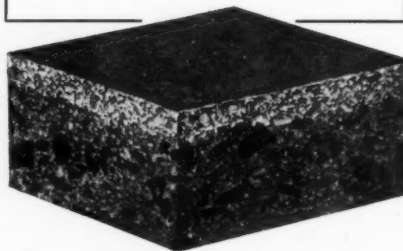


Because they *stay level* under the heaviest traffic, Stelcon Floors will keep production flowing smoothly. Use them in factory, shop or on loading bays — they will pay for themselves by saving costly repairs. In fact, Stelcon Floors can't be beaten, they're dustless, hygienic and perfect for modern mechanical handling methods. Full details sent on request.

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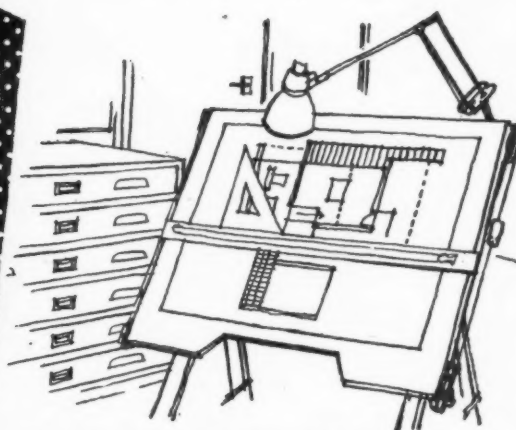
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Stelcon Floors are tough and hardwearing. They'll stand up to the severest tests and take the heaviest traffic year after year. That's why so many users of modern mechanical handling equipment are plumping for Stelcon Floors.



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If you would like copies of all, or some, send for them by filling in the coupon below.

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Bristol : 5 Broad Quay, City Centre.
Cambridge : 24 St. Andrew's Street.
Cardiff : 9 Castle Street.
Glasgow : 341 Bath Street.
Leeds : 99 Albion Street.
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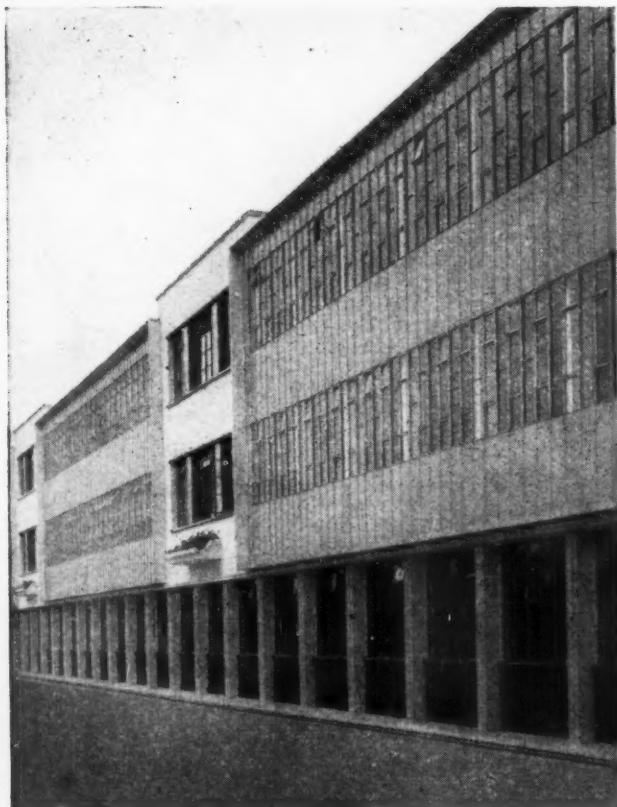
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 Architectural Design Data for Solid Fuel
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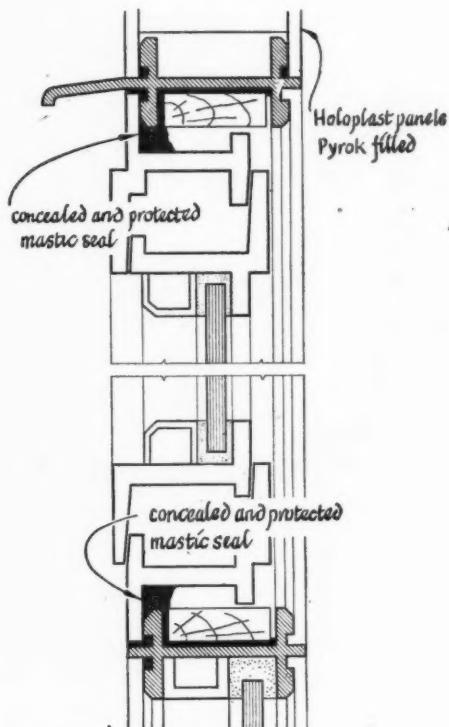
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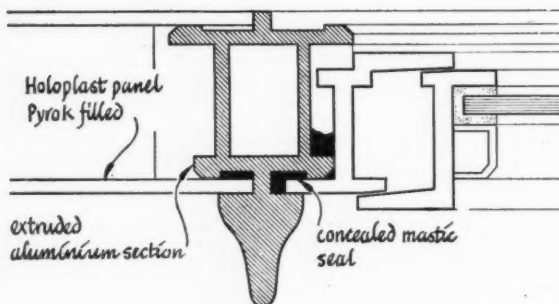


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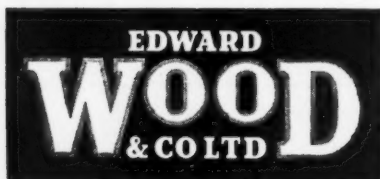
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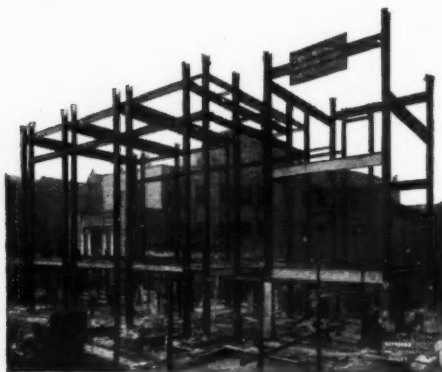
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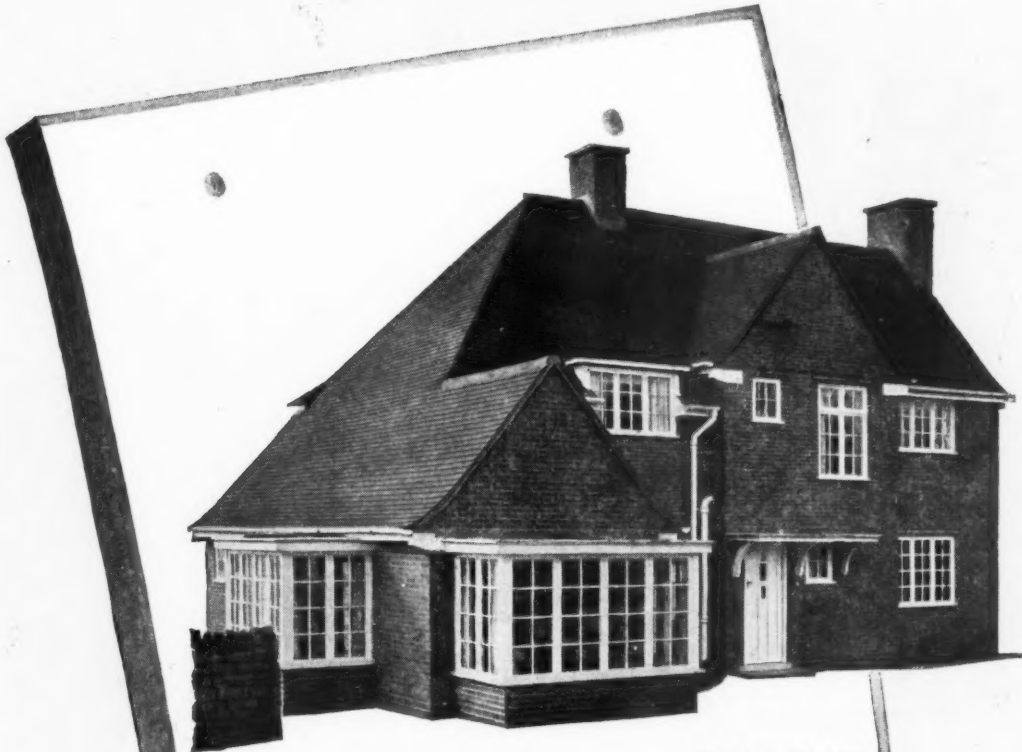


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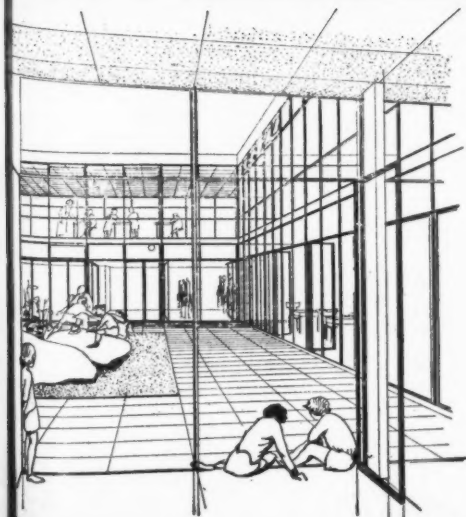
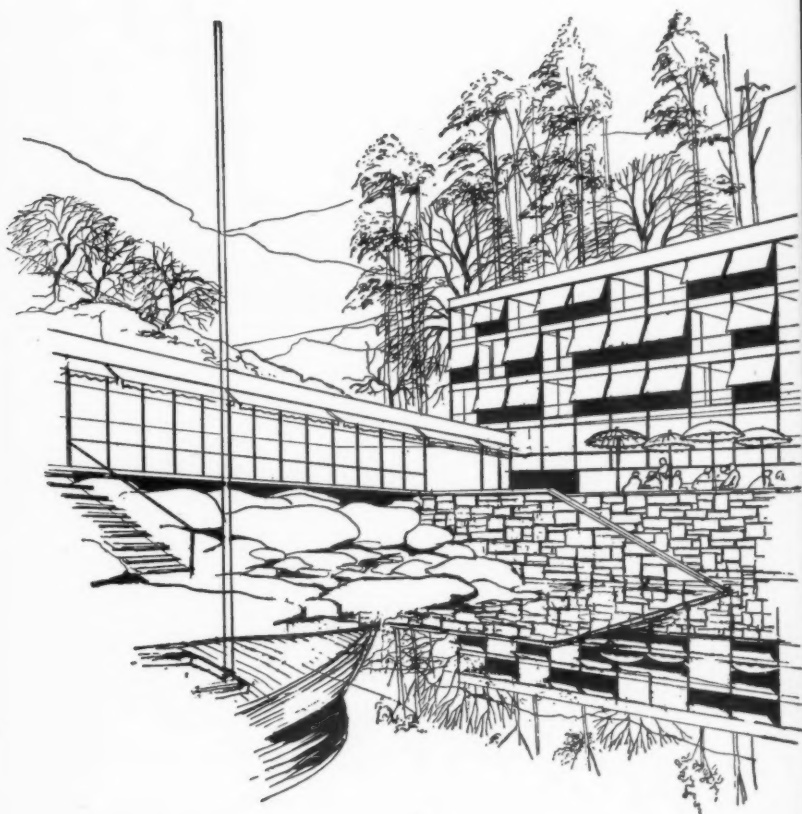
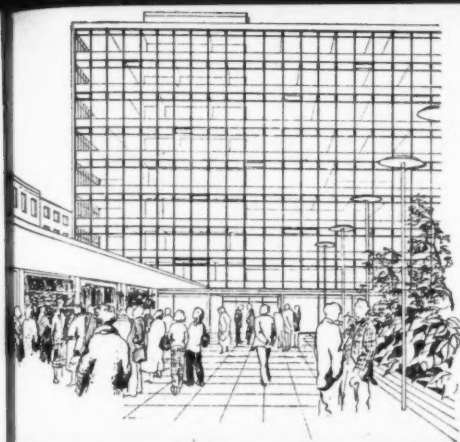
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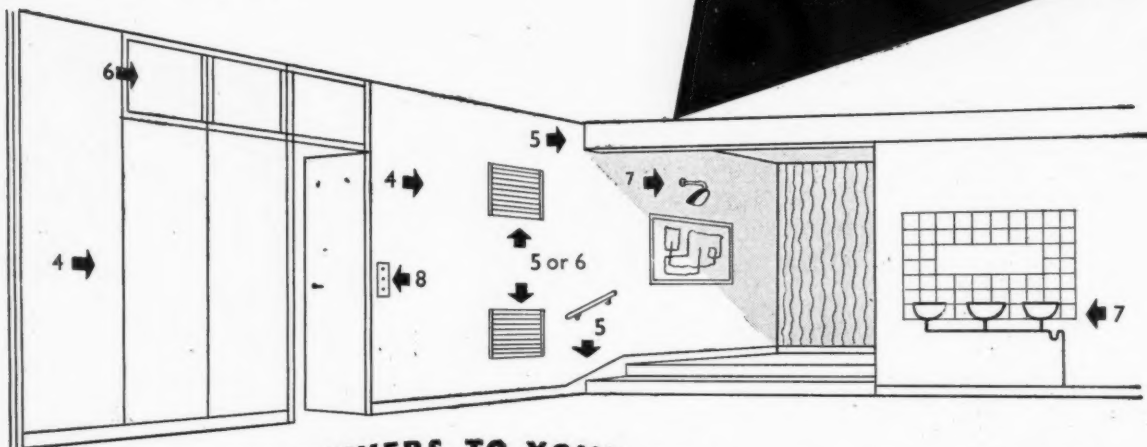
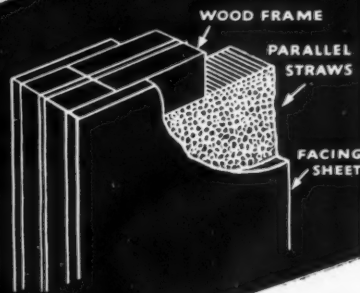
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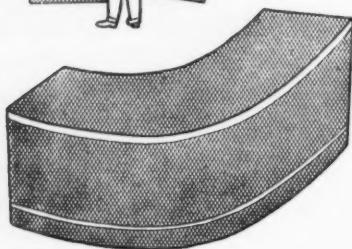
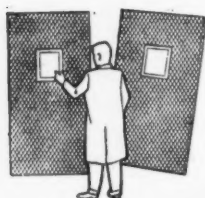
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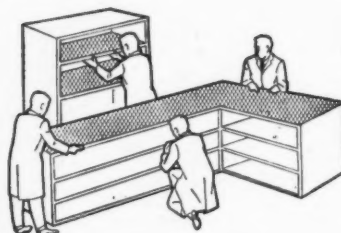
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Warerite Limited, and the 'Warerite Specialists', offer you the following service:

1. Technical advice on the most suitable type of WARERITE material to use.
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3. The supply of sheets, or cut sizes, of WARERITE veneers to firms who are equipped, and prefer, to undertake the highly specialised work of veneering laminated plastics to plywood. The most popular WARERITE patterns can be supplied from their stocks.

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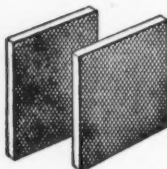
Royal Exchange, Manchester, 2.

Tel: Blackfriars 5174/7

29 St. Vincent Place, Glasgow, C.1.

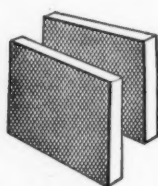
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WARERITE is a registered trade mark of Warerite Limited



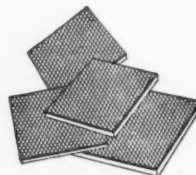
WARERITE Panels

1/2" solid plastics panels mainly used for wall surfaces erected in plastics or metal beadings.



WARERITE Veneered Boards

Structural materials. Consist of WARERITE Veneers bonded to plywood or blockboard cores. Usually 1" or similar thicknesses.



WARERITE Handy Panels

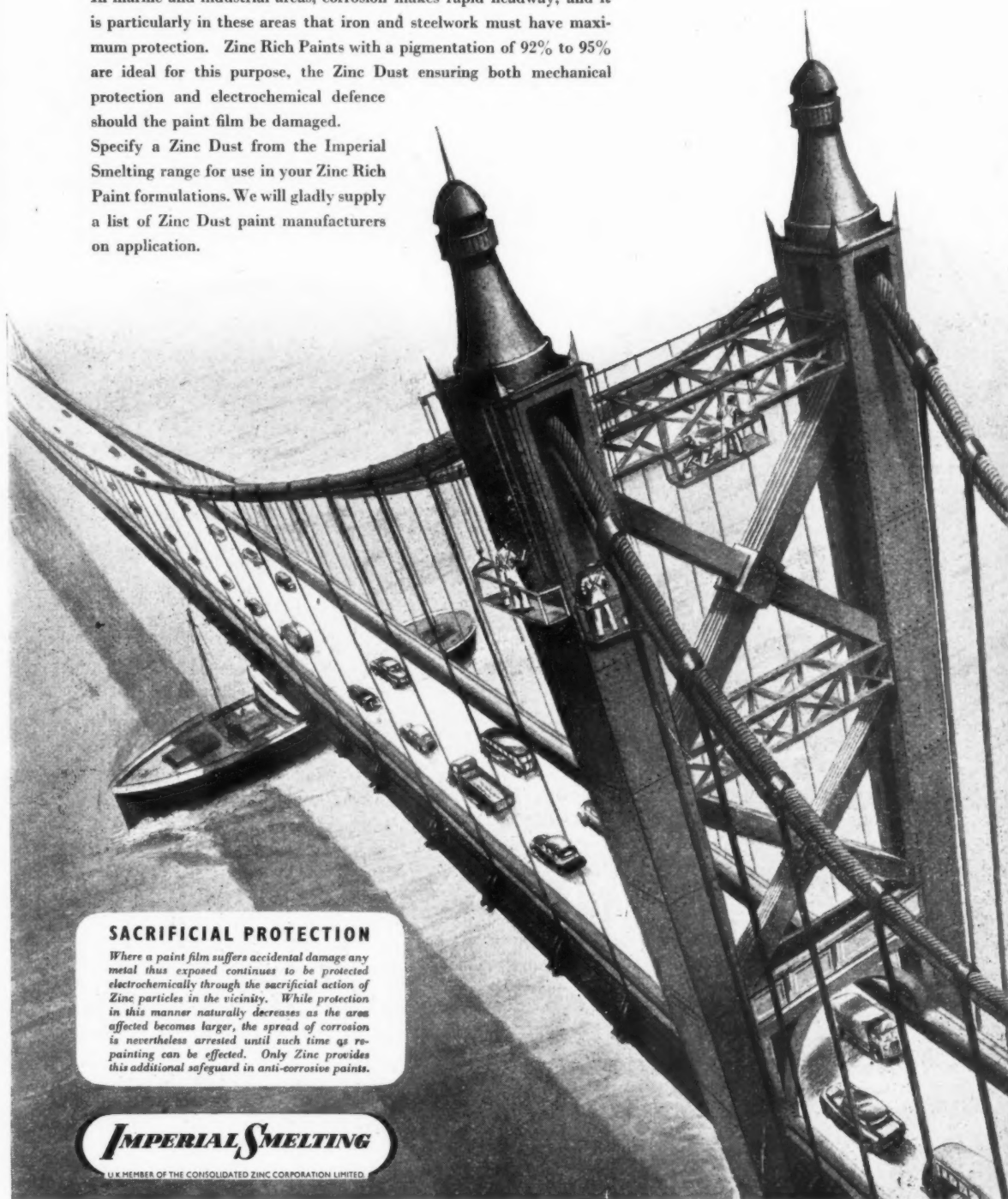
WARERITE Veneers ready-bonded to 3mm. plywood. Suitable for covering existing wooden tops, using normal wood-to-wood glue joining technique.

WARERITE STAND No. 81 BUILDING EXHIBITION November 16th-30th OLYMPIA

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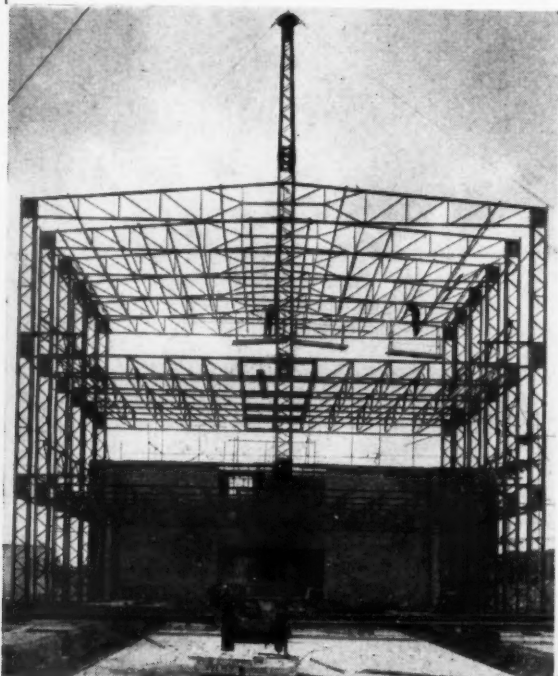
Where a paint film suffers accidental damage any metal thus exposed continues to be protected electrochemically through the sacrificial action of Zinc particles in the vicinity. While protection in this manner naturally decreases as the area affected becomes larger, the spread of corrosion is nevertheless arrested until such time as re-painting can be effected. Only Zinc provides this additional safeguard in anti-corrosive paints.

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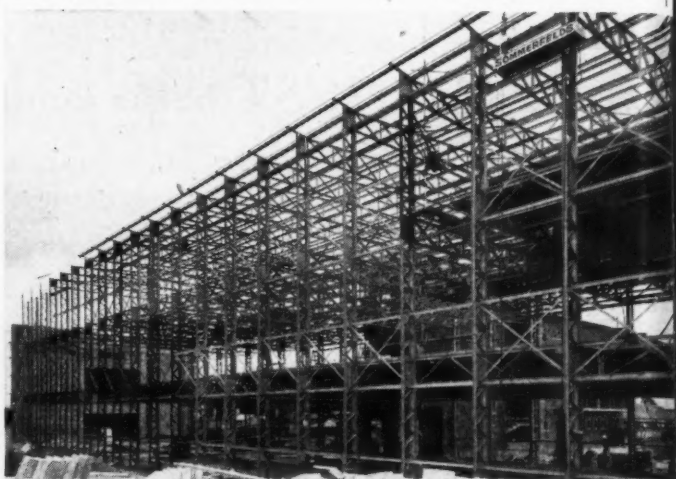
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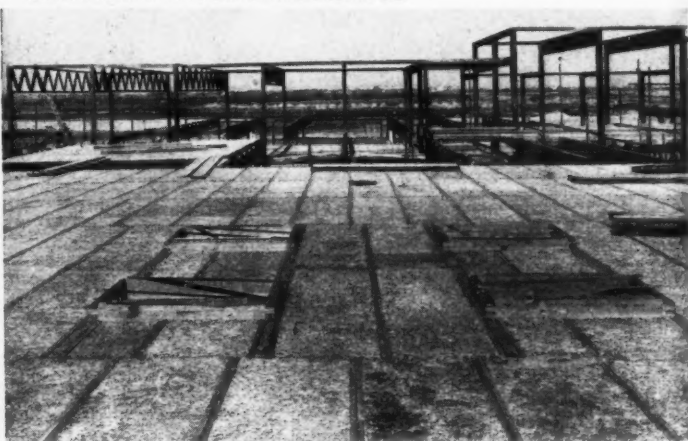
SOME RECENT STRUCTURAL STEEL CONTRACTS FULFILLED BY SOMMERFELDS



Erecting roof trusses and floor beams giving uninterrupted spans of 50ft. to each floor.



Left and above.
Laboratories of Imperial Chemical Industries Ltd. (Plastics Division) at Welwyn Garden City.
J. Douglass Mathews & Partners, Chartered Architects.
General Contractors: Holland & Hannen and Cubitts Ltd.



We were asked to design and supply the Steelwork for the Airport buildings for Silver City Airways at Ferryfield. There was extreme urgency. Our design incorporated exposed high tensile steel Lattice Beams for the roofs of the main buildings. The photograph shows the single storey portion of the building roofed with Woodwool slabs—this part of the work also being carried out by ourselves.



90ft. clear span pre-stressed steel frames assembled on the ground are lifted into position.
Consulting Engineer: F. J. Samuely, B.Sc., A.M.I.C.E., M.I.Struct.E.

Sommerfelds Ltd. are experts in anti-corrosion and are suppliers of steel girders of all descriptions, steel door and window frames, steel lockers, cupboards and filing cabinets, concrete reinforcements, etc.



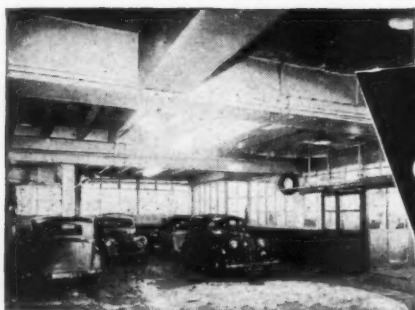
Pre-stressed steelwork of a factory for occupation by Standard Telephones and Cables Ltd., built by Harlow Development Corporation.
Frederick Gibberd, F.R.I.B.A., Architect Planner to Harlow Development Corporation.
Structural design by R. A. Sefton Jenkins, B.Sc., A.C.G.I., A.M.I.Str.E., A.M.I.C.E.

Sommerfelds Ltd., Wellington Shropshire. Tel.: 1000
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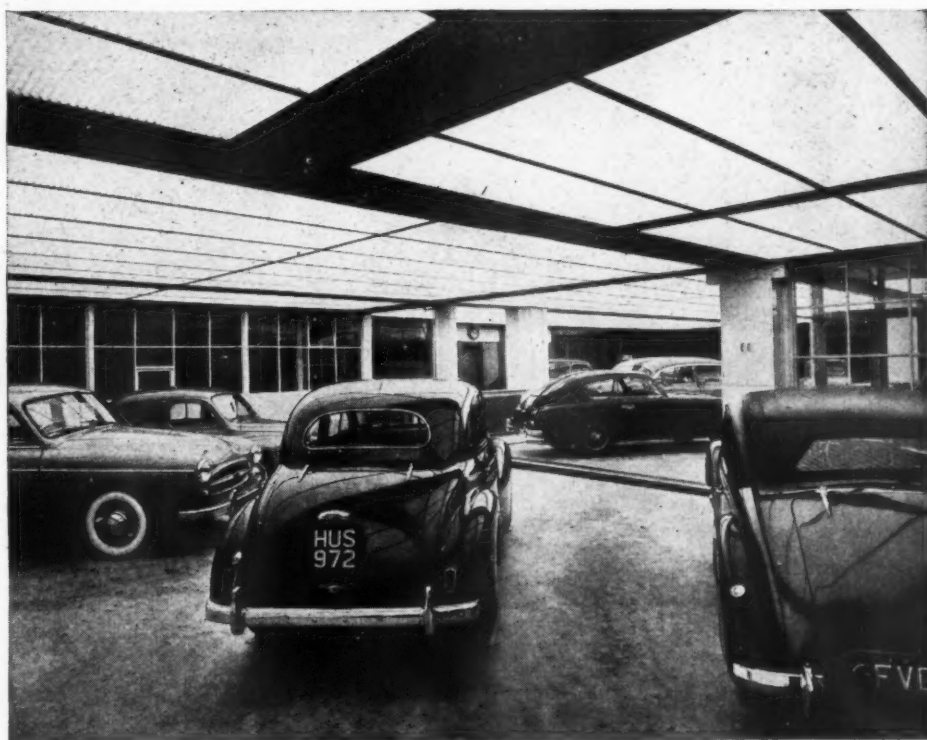


See-

HOW THE SCENE CHANGES

Garage with conventional lighting. Note the confusion of beams, pipes, trunking, wiring and light fittings.

The same garage after modernising with a LUMENATED CEILING.



Write for your copy of "LUMENATED CEILINGS", an illustrated brochure giving full details of this new lighting technique.

When modernising old premises or building new ones, you can make lighting an integral part of design by installing a LUMENATED CEILING, a new lighting technique combining light source and ceiling in one. The whole interior of shops, offices and show-rooms is diffused with a pleasant, efficient light of uniform intensity without shadow, glare or 'high spots'. The LUMENATED CEILING overcomes many design problems

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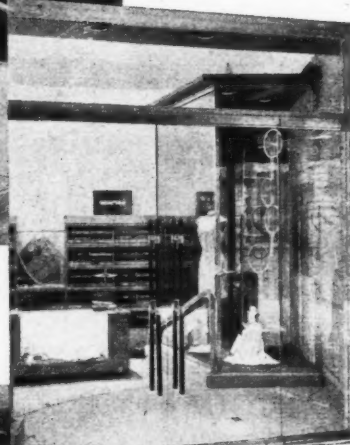
South African Company: Thermotank S.A. (Pty.) Ltd., Simmonds and Godfrey Street, Johannesburg.



TGA L7



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Enclosure



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SIMPSON (PICCADILLY) LTD

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comprises a long plate glass window

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and two pairs of Armourplate doors.

An over-lapping canopy is decorated

deep red and has inset lighting.

This all glass enclosure is equipped
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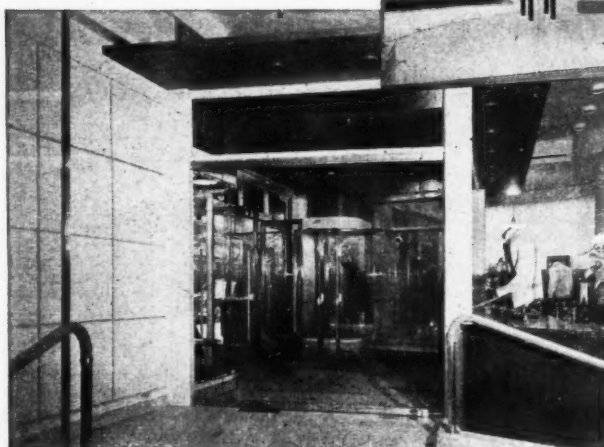
inspection of lower level sales area
and gives greater freedom of movement
to Shoppers during peak hours.

Two display cases adjoining
the travertine marble steps
are incorporated in the scheme.

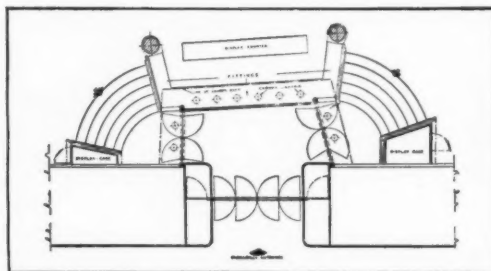
E. Pollard & Co Ltd

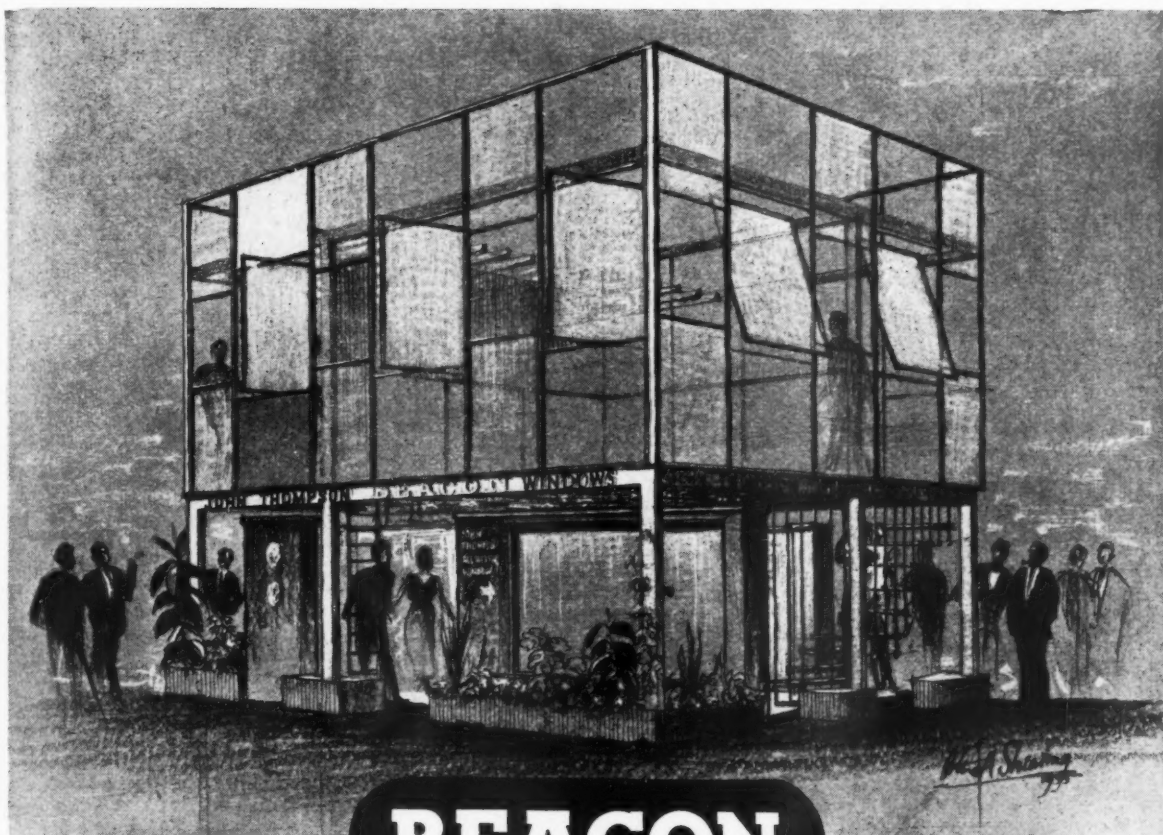
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OLYMPIA



NOV. 16-30

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BUILDING EXHIBITION, NOV. 16th—30th, STAND M261

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Architects: Harry W. Weedon, F.R.I.B.A., & Partners in association with A. G. Sheppard Fidler, M.A., B.Arch., F.R.I.B.A., City Architect. Contractors: W. J. Whittall & Son, Ltd.
(Photo by Courtesy of Bellrock (Birmingham) Ltd.)



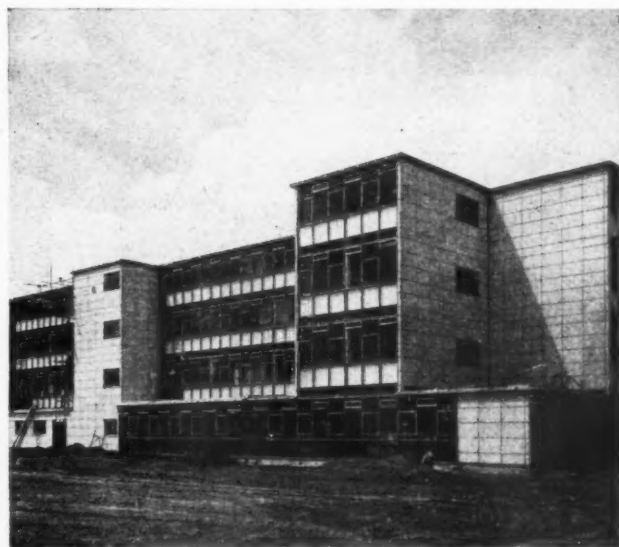
MOUNTBLOW HOUSE, CLYDEBANK

Architects: Sam Bunton & Associates. Contractors: John Lawrence (Glasgow) Ltd.



CATFORD COUNTY SECONDARY SCHOOL

Architect: J. L. Martin, M.A., Ph.D., F.R.I.B.A. Contractors: Thomas & Edge, Ltd.
(Photo by courtesy of Messrs. Hills (West Bromwich) Ltd.)



ALDRIDGE ROAD SCHOOL, BIRMINGHAM

City Architect: A. G. Sheppard Fidler, M.A., B.Arch., F.R.I.B.A., Contractors: Higgs and Hill, Ltd.
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BUILDING EXHIBITION
STAND K229
GRAND HALL



Architects:
G. de C. FRASER,
SON and GEAREY.
A/R.I.B.A.,
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PIERHEAD PRESTRESSED CONCRETE

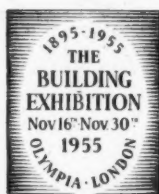
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X7" Prestressed Floor were used
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for Blacklers Stores and
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Construction will be
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**you'll
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you chose
WOOD
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We cordially invite you to visit
us at our Stand Number 293,
Row P, National Hall.

Especially when manufactured by

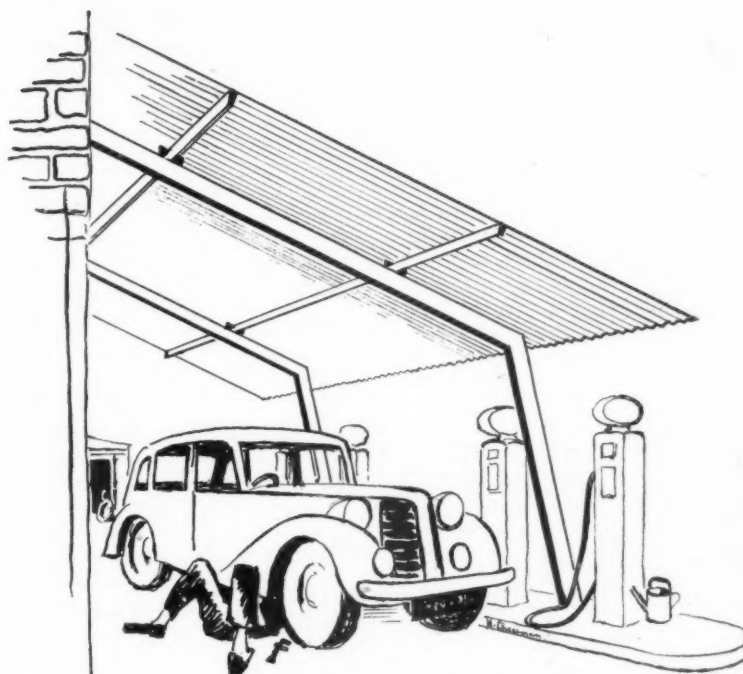
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London Office: LION HOUSE,
RED LION ST., RICHMOND, SURREY.

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light
idea



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STAND 488/90
GRAND HALL, GALLERY
at the Building Trades Exhibition

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**STAND 55 • ROW C • GRAND HALL
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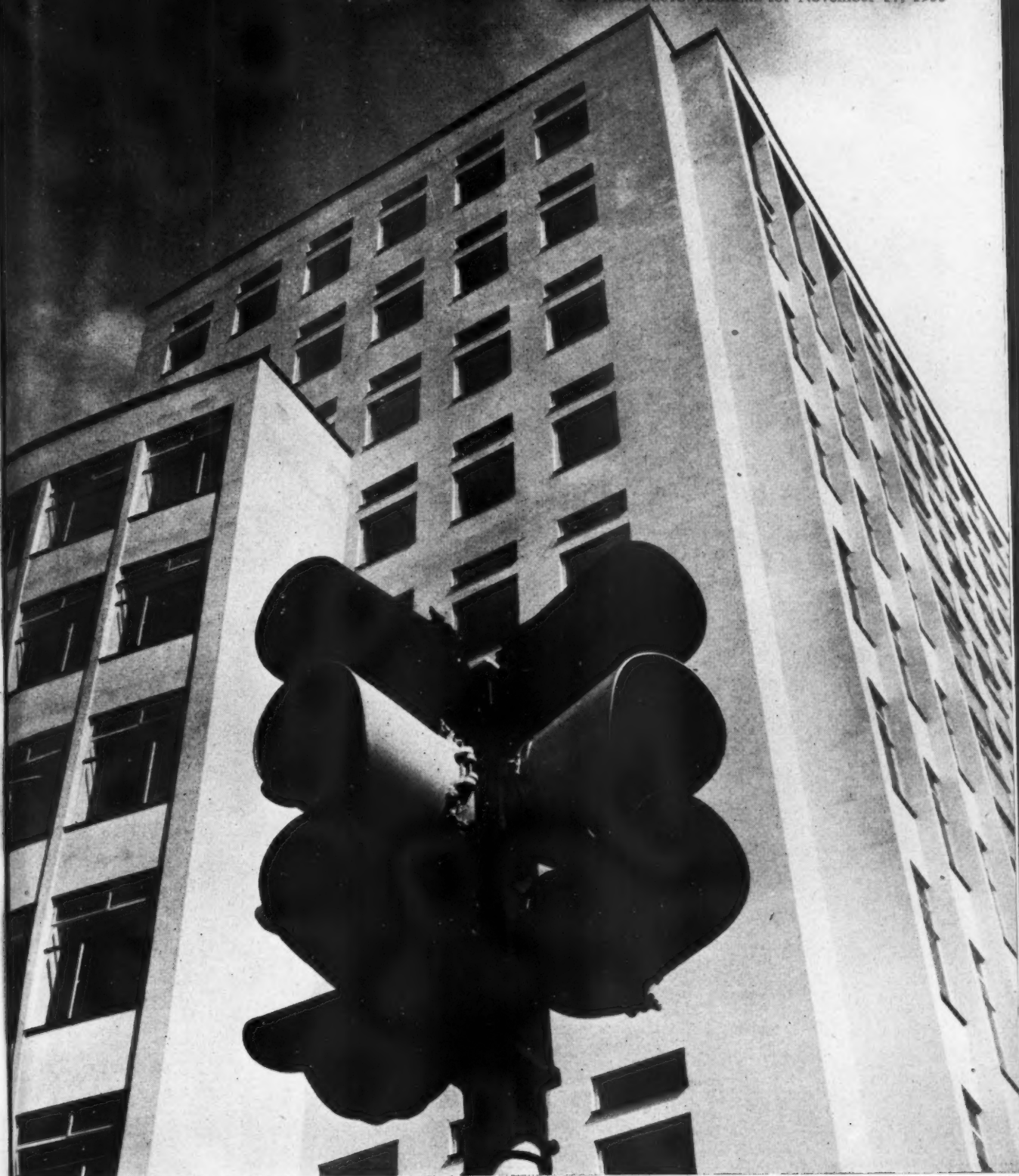
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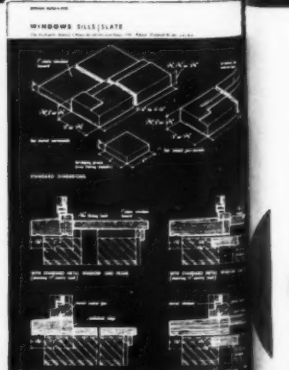
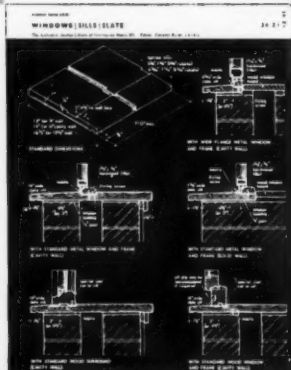
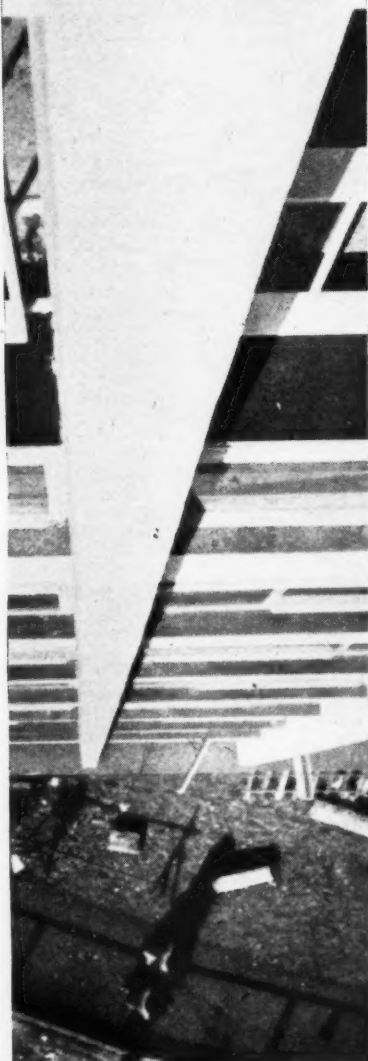
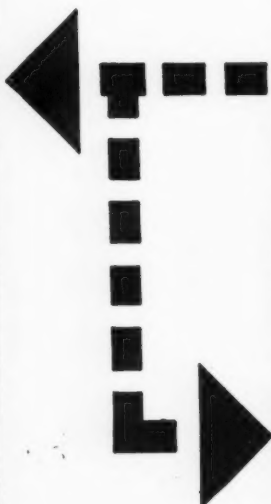
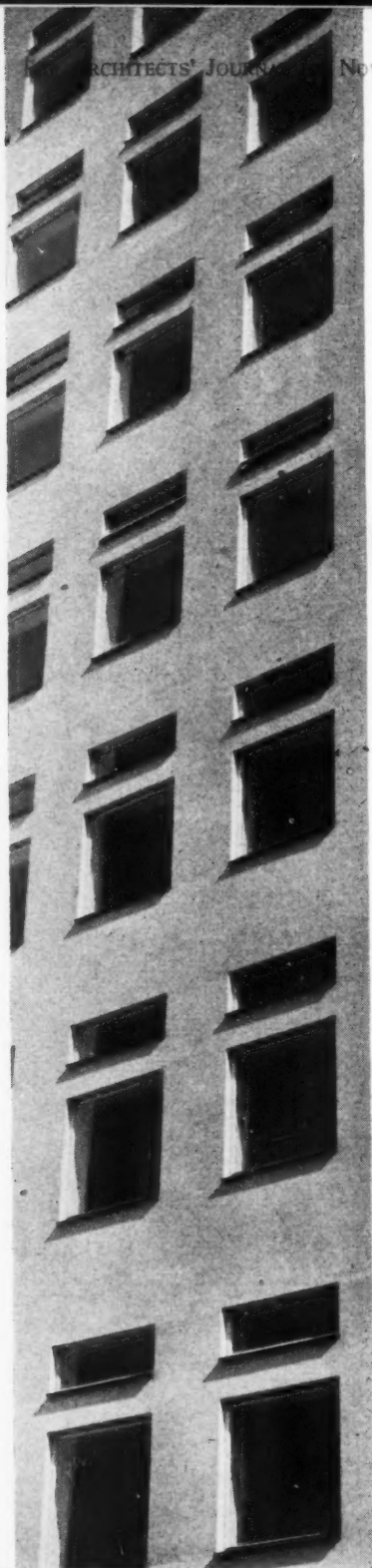


W W W W

WINGILATE AT WORK AT --- ➔

SENTINEL HOUSE, SOUTHAMPTON ROW, LONDON

Architect:
Sir Thomas Bennett





WINCILATE

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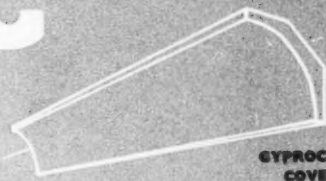
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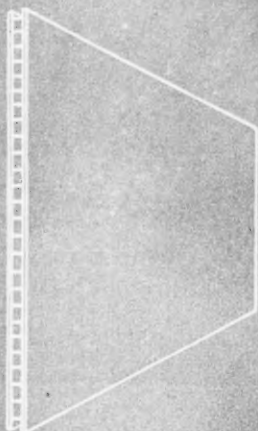
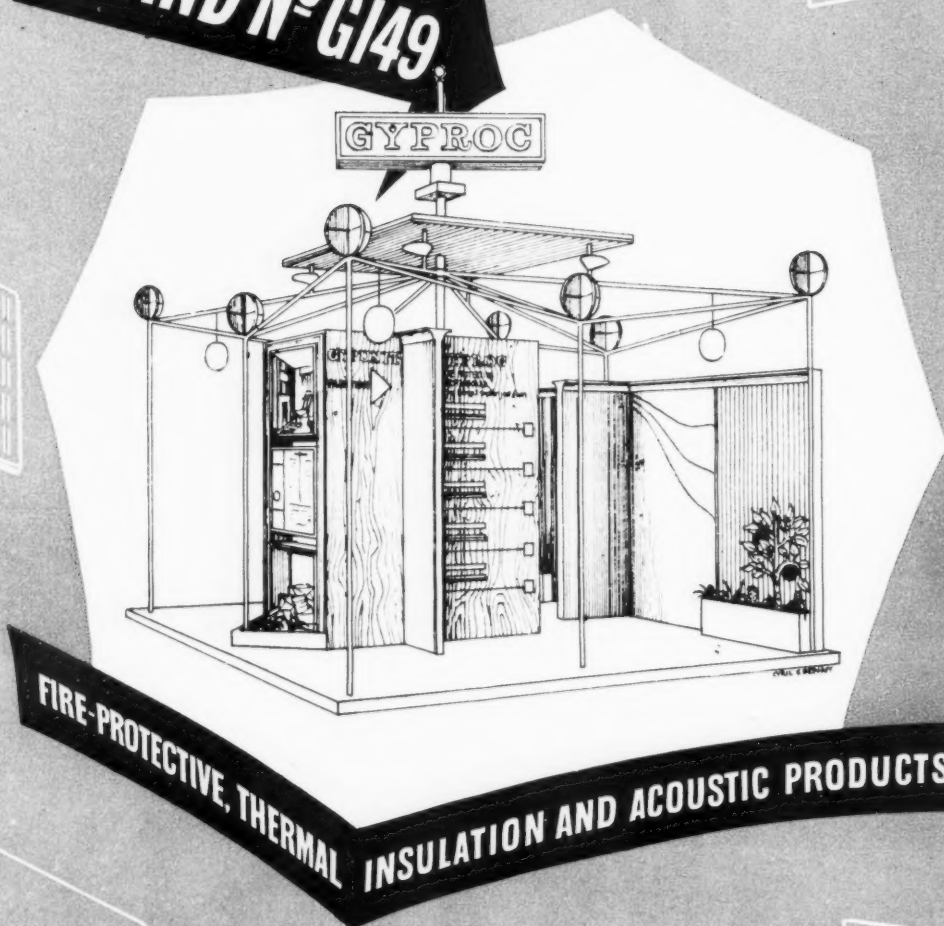
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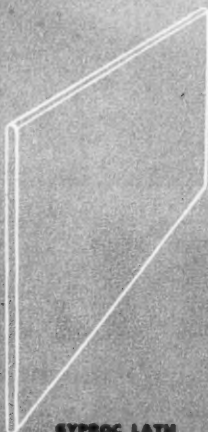
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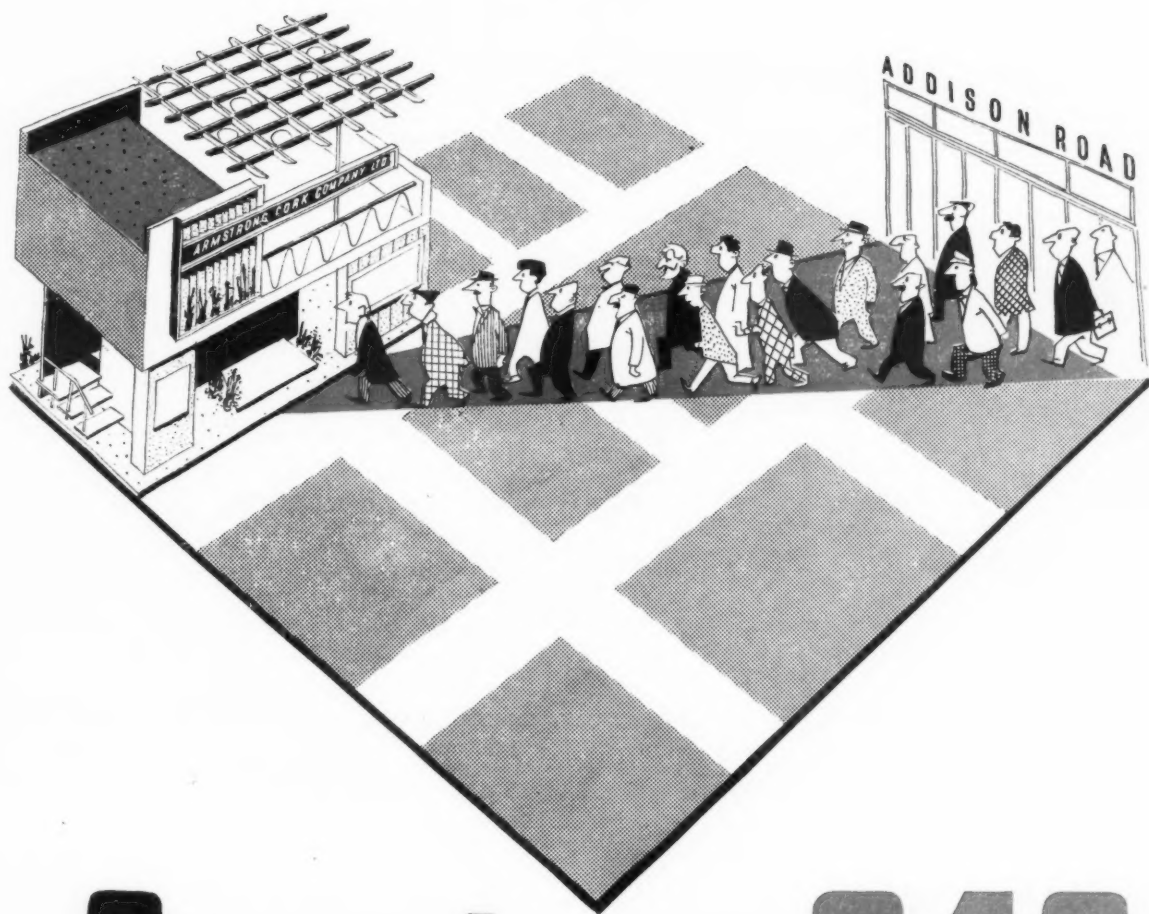
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Stand GROUND FLOOR GRAND HALL C46

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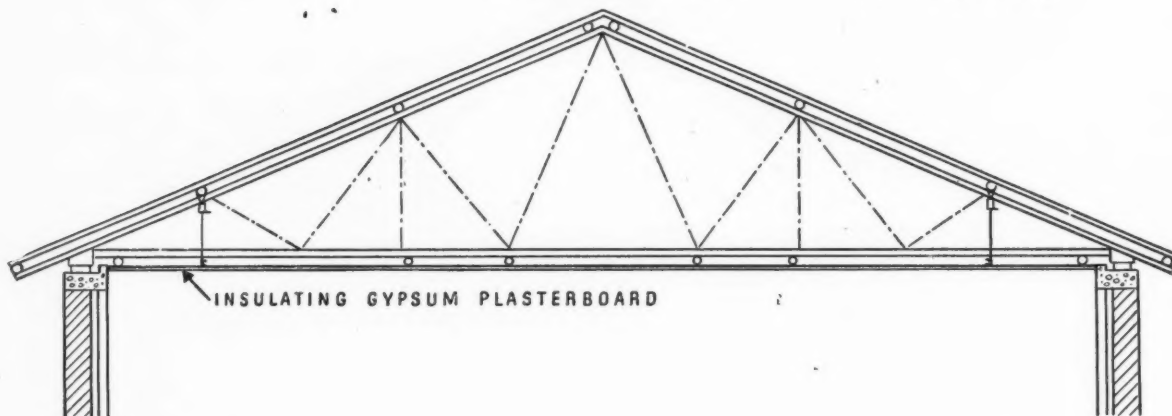
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'U' value (roof only)	1.4
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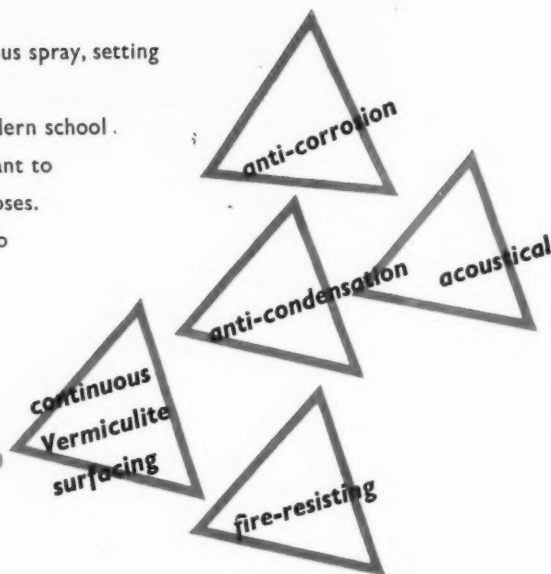
Kidbrooke
Comprehensive School
—the main entrance hall.
Architects: Slater,
Uren & Pike, FF./A.R.I.B.A.
Pyrok was applied
to the ceiling for acoustic
and decorative purposes.
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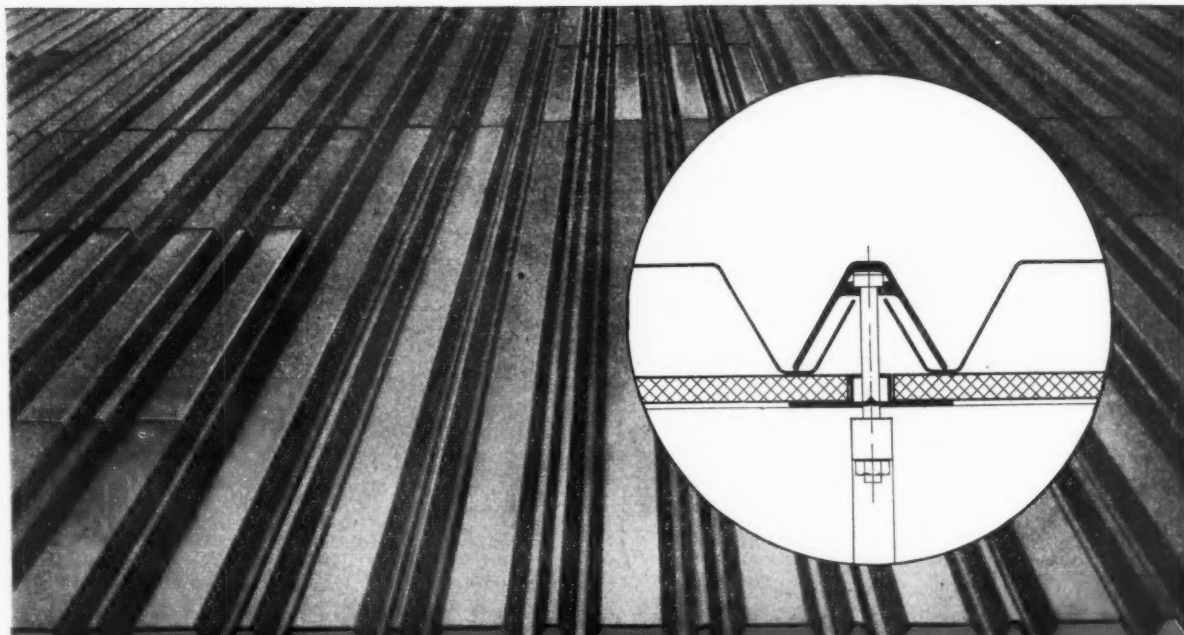
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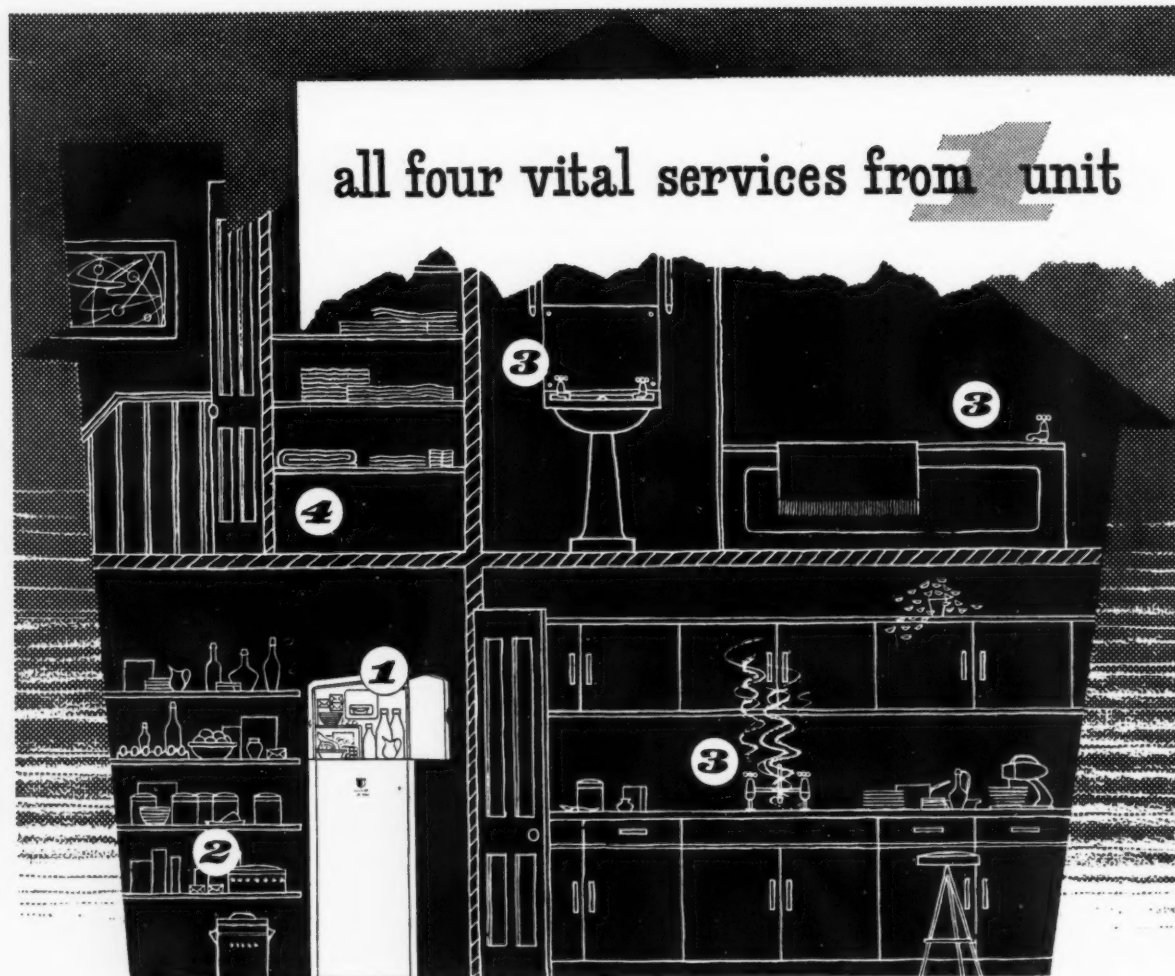
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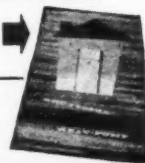
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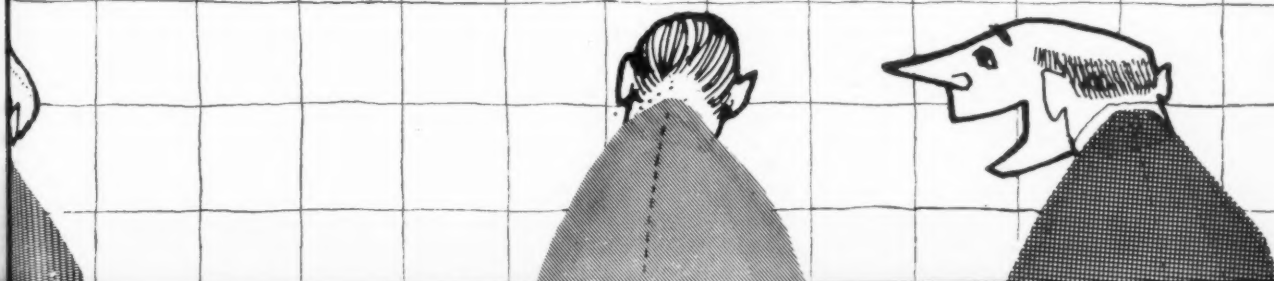
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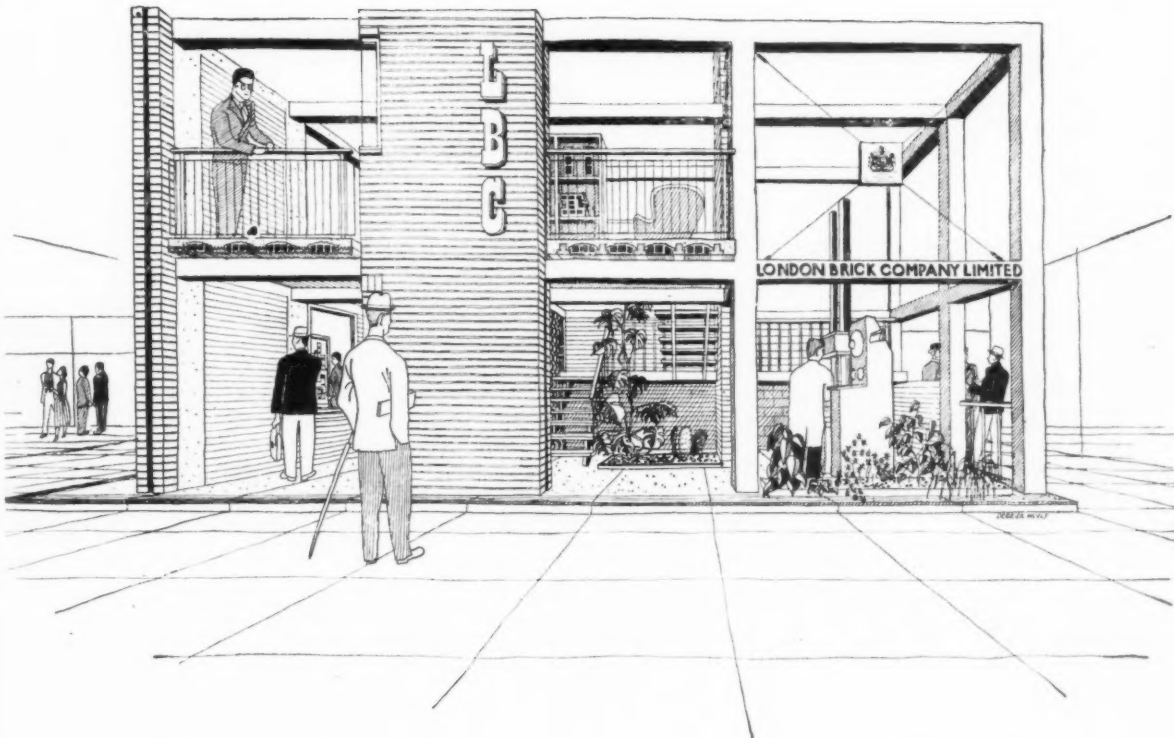
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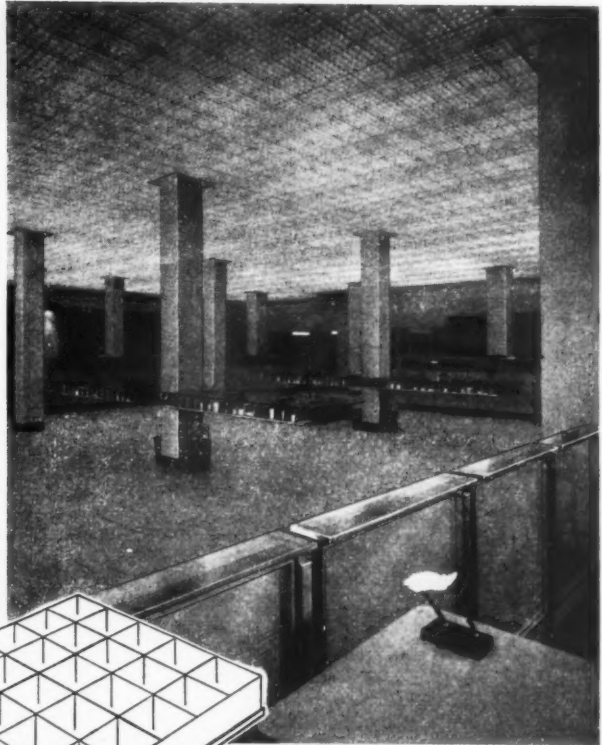
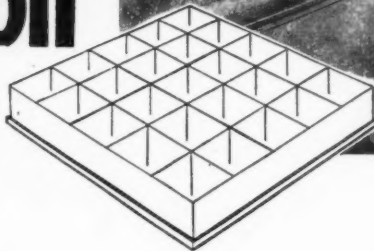
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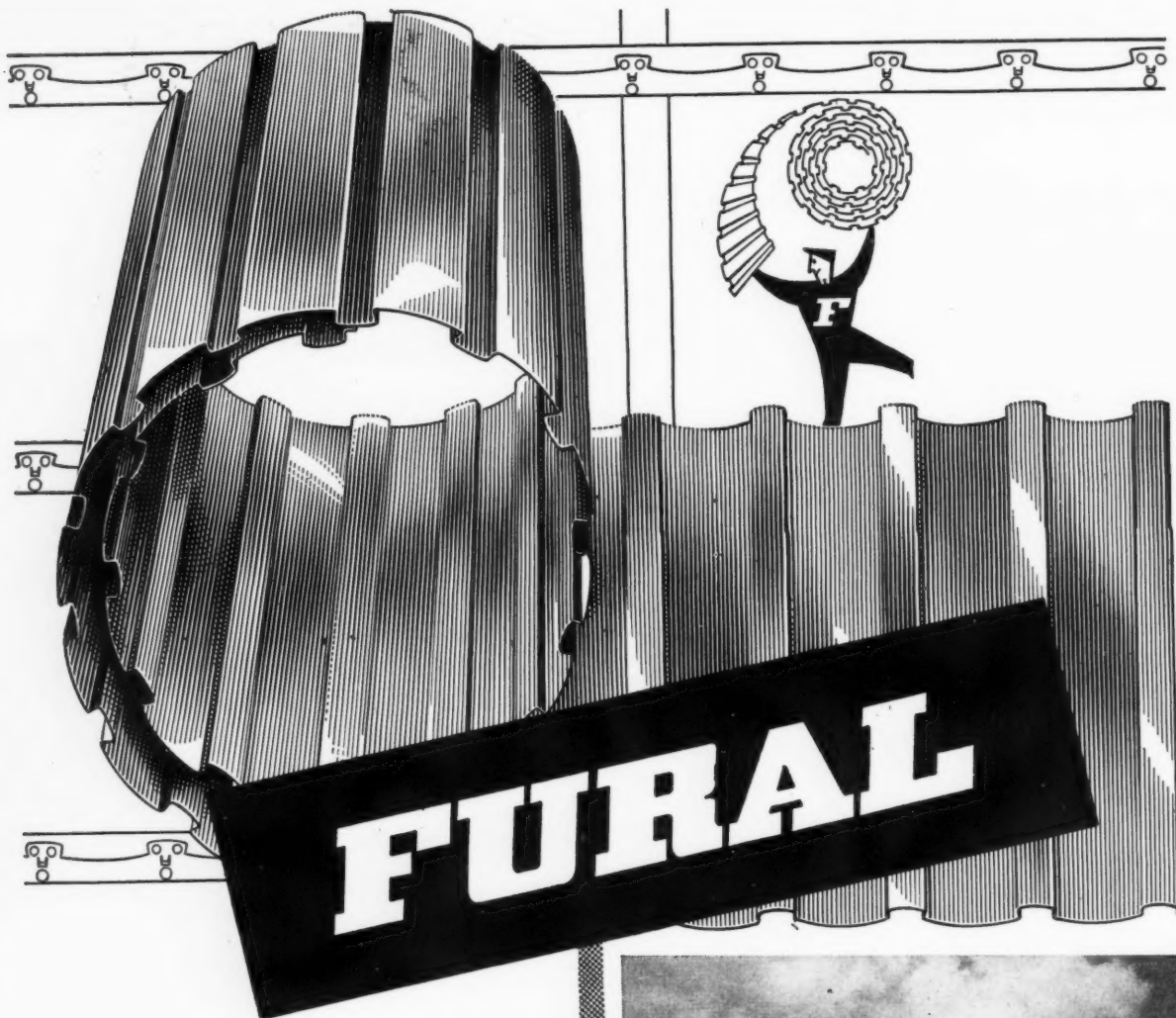
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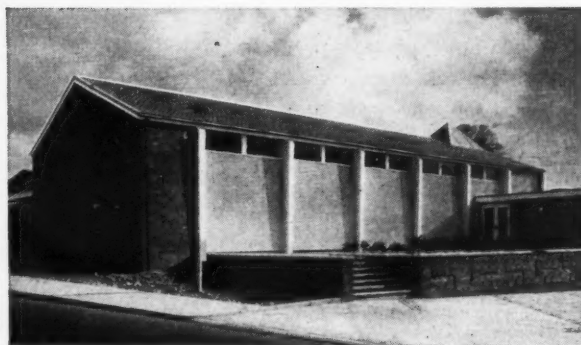
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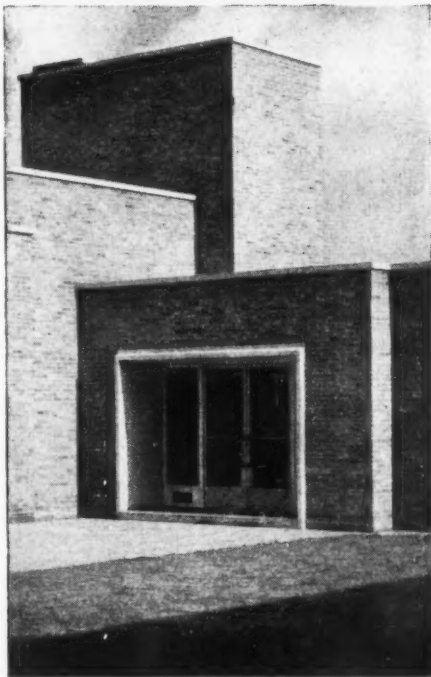
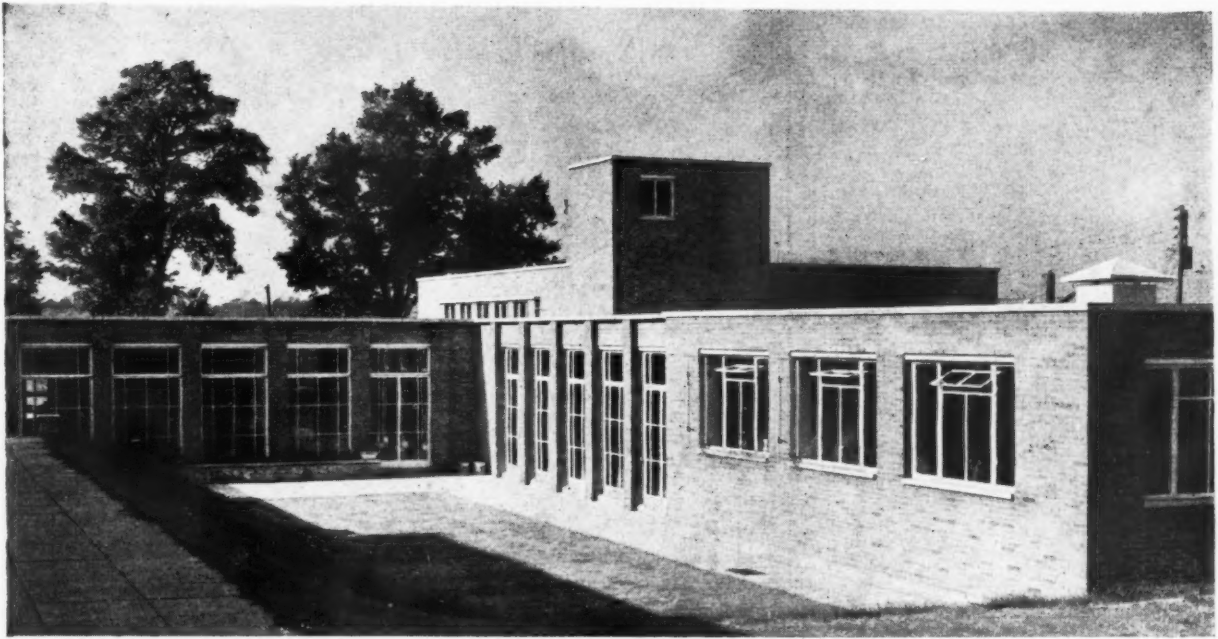
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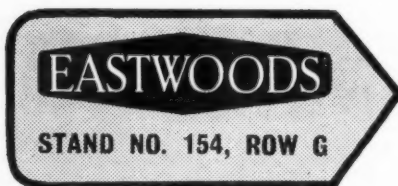
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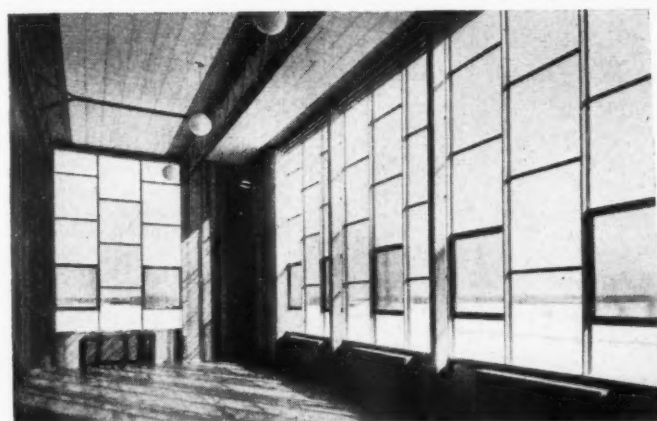
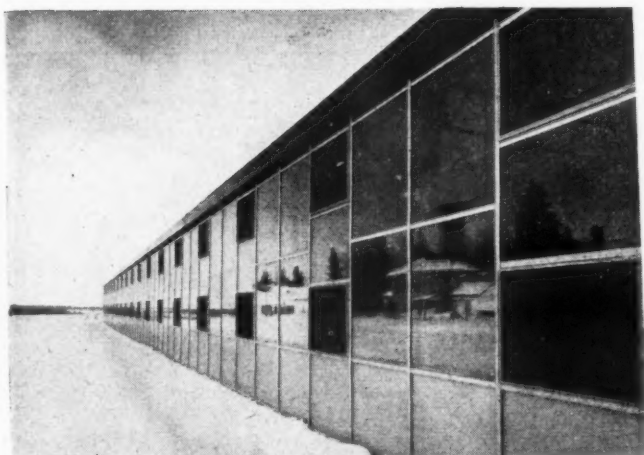
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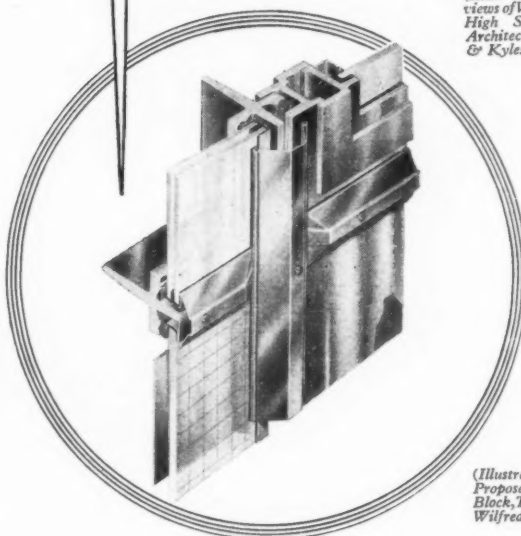


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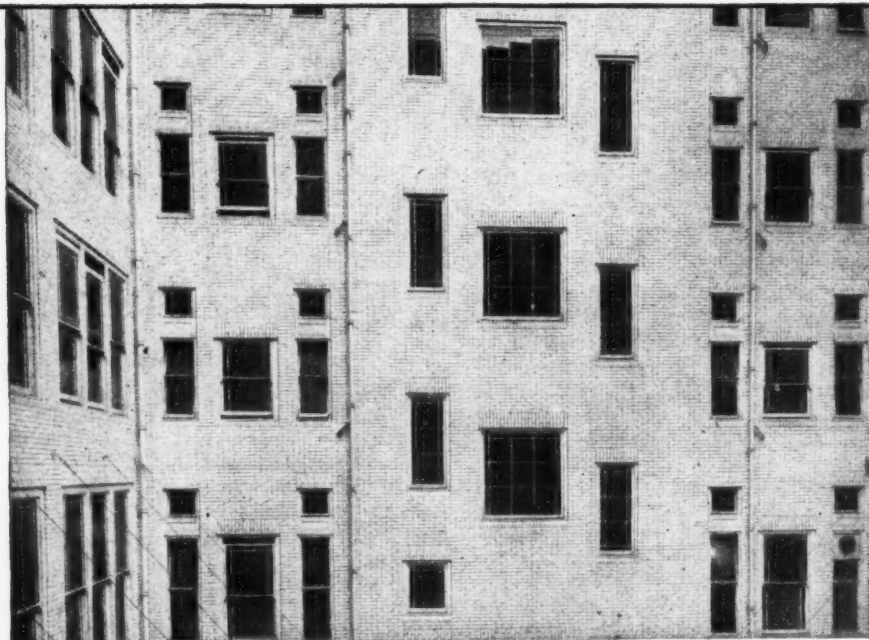
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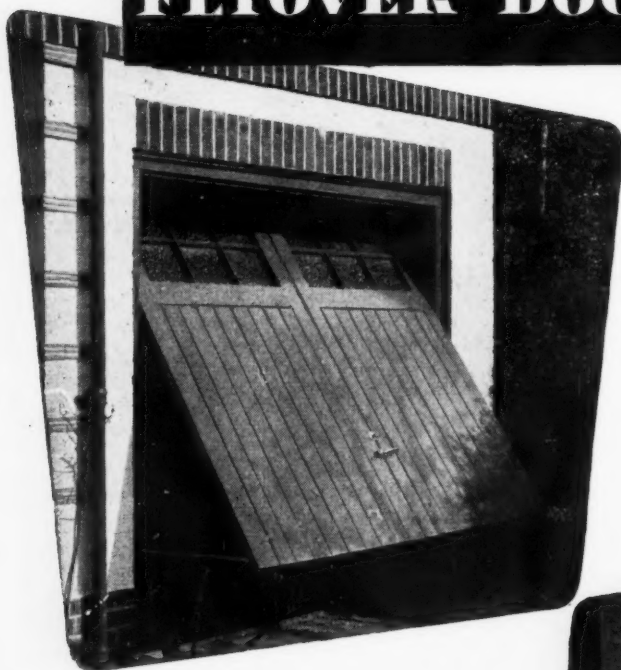
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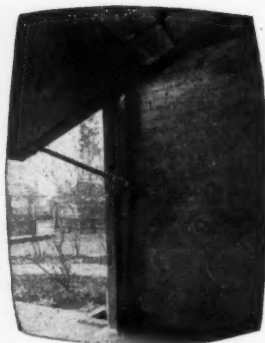
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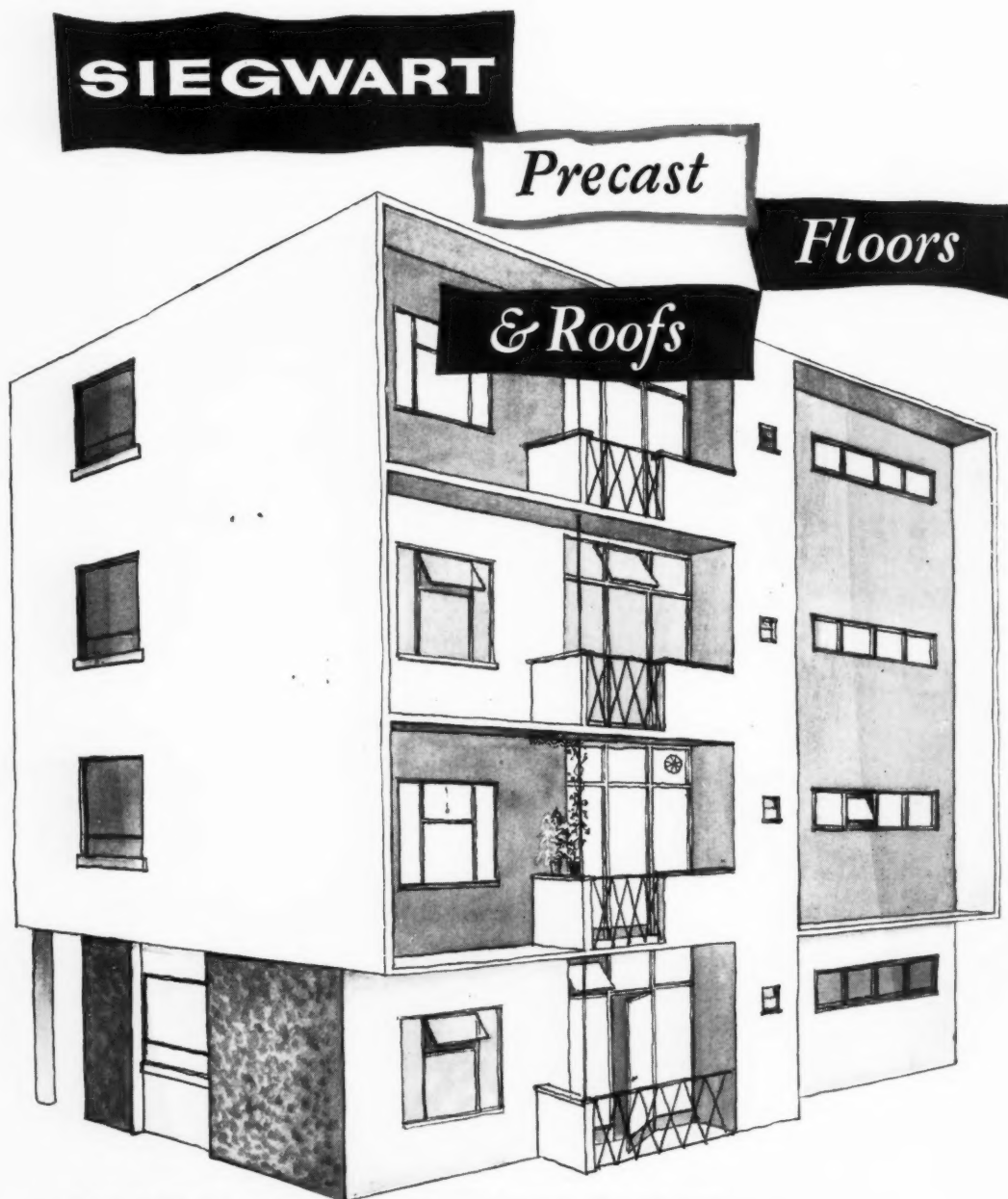
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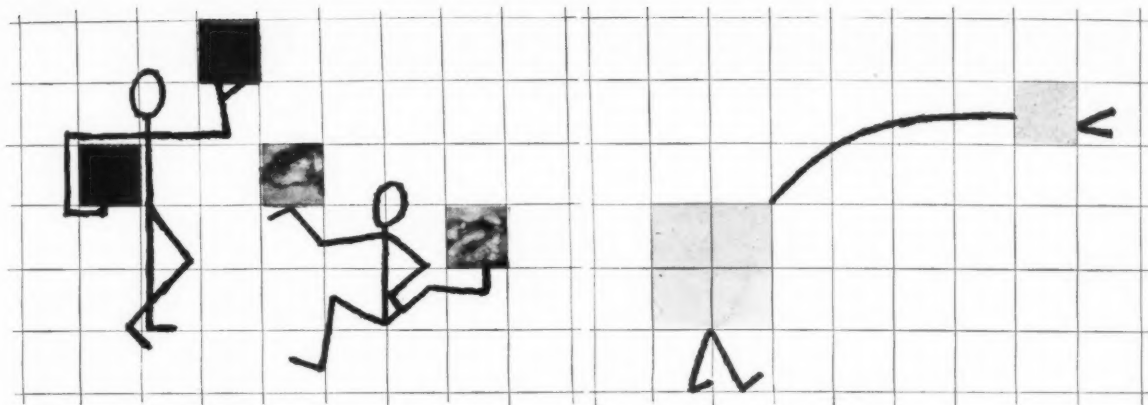
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This exhibition . . .

"Carter Tiles are good neighbours" was the theme we suggested to Gordon Cullen for the Carter Group Stand at this year's Building Exhibition. It will be worth a visit to see just how well Carter tiles go with other finishing materials. What fun it all can be! It is practical, economical — and inspiring — too.

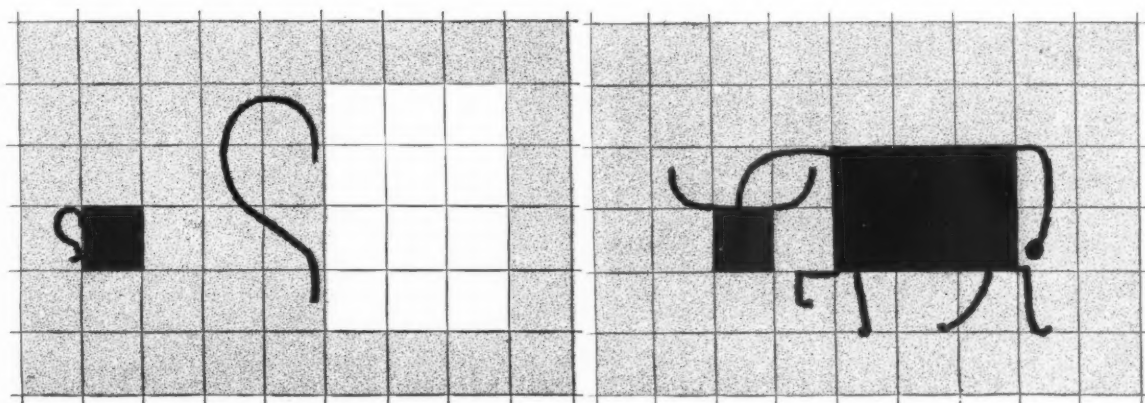
If a visit is impossible perhaps you would like a copy of our "Good Neighbours" booklet? (Ready mid-November)



Registered trade mark

THE CARTER GROUP STAND No. 85, ROW D

CARTER & CO. LIMITED, Poole, Dorset. Poole 125
 CARTER & CO. LONDON LTD., 29 Albert Embankment, S.E.11. Reliance 1471
 Manchester Office: 27 Brazenose Street, Manchester 2. Blackfriars 2098
 ART PAVEMENTS AND DECORATIONS LTD., St. Paul's Crescent, Camden Town, N.W.1. Gulliver 2226
 J. H. BARRATT & CO. (1927) LTD., Booths Tile Works, Stoke-on-Trent. Stoke-on-Trent 44717
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 THE MARBOLITH FLOORING COMPANY LTD., 29 Albert Embankment, S.E.11. Reliance 2062



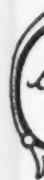
Designs by GORDON CULLEN, Carter copyright



—but MARLEY Roof Tiles are guaranteed for fifty years

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THE ARCHITECTS' JOURNAL

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

9, 11 & 13, Queen Anne's Gate, Westminster, London, S.W.1 Whitehall 0611

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THE UNCONSIDERED ALMSHOUSE

Since its foundation in 1951, the National Association of Almshouses has steadily increased its membership from 104 to 571, and the last figure represents over 700 separate almshouses, accommodating over 10,000 old people. I can think of no charitable work that is at the same time so excellent in itself and so useful architecturally. A very large number of almshouses are buildings of remarkable beauty and historic interest; many find it increasingly difficult to keep going and to find the means to bring their accommodation up to date.

*

Among those which the Association has helped with advice and money are

Christ's Hospital, Abingdon, and Cobham College, Kent, both dating from the sixteenth century, and Coningsby Hospital, Hereford, the Hele almshouses, Wembury. Sir Baptist Hick's almshouses, Chipping Campden and Chipping Norton almshouses, all of the seventeenth century. There are hundreds more all over the country, some in good shape, some in poor; and the remarkable thing is that no complete record of them exists. Any architects who come across good almshouse buildings in the course of their work would do well to make sure that the National Association of Almshouses knows them and that whoever manages them knows of the help they can get from the Association.

*

To make a full list of all the surviving almshouses throughout the country would be something of an undertaking. Until such a list can be compiled we must be grateful for an excellent book* published this week in which Walter Godfrey illustrates a selection of them and writes most informatively about their history, describing the process of evolution from the mediaeval hospital. Like a true architect he has provided plenty of plans. No one is better qualified than he to compile the definitive work so badly needed.

ITALY BUILDS

When Kidder Smith turns his camera on a building, it is an event. Not that his camera lies; on the contrary it reveals. Those who know his *Brazil Builds*, *Switzerland Builds*, etc., will be delighted with his *Italy Builds*.† Italy being what it is, Kidder Smith has this

* *The English Almshouse*. Faber and Faber, 30s.

† *Architectural Press*. 56s.

time devoted almost half his book to the architecture of the past, more particularly its vernacular farms and villages, and to an analysis through photograph and plan of the great piazzas. In one way and another this has been done before, but not so well.

*

In the second half of his book Kidder Smith surveys that great renaissance—Italian post-war building. Here again, much is necessarily familiar, although much isn't. In every case, however, some new aspect of a building is revealed, even to those who thought they knew it best. Gardella, Rogers, Nervi, Pollini emerge with increased stature from Kidder Smith's survey. The text is perhaps a little too journalistic and chatty. But that is a lesser fault than stodginess. ASTRAGAL recommends you to get someone to give you this exciting book for Christmas.

ROADS EXHIBITION

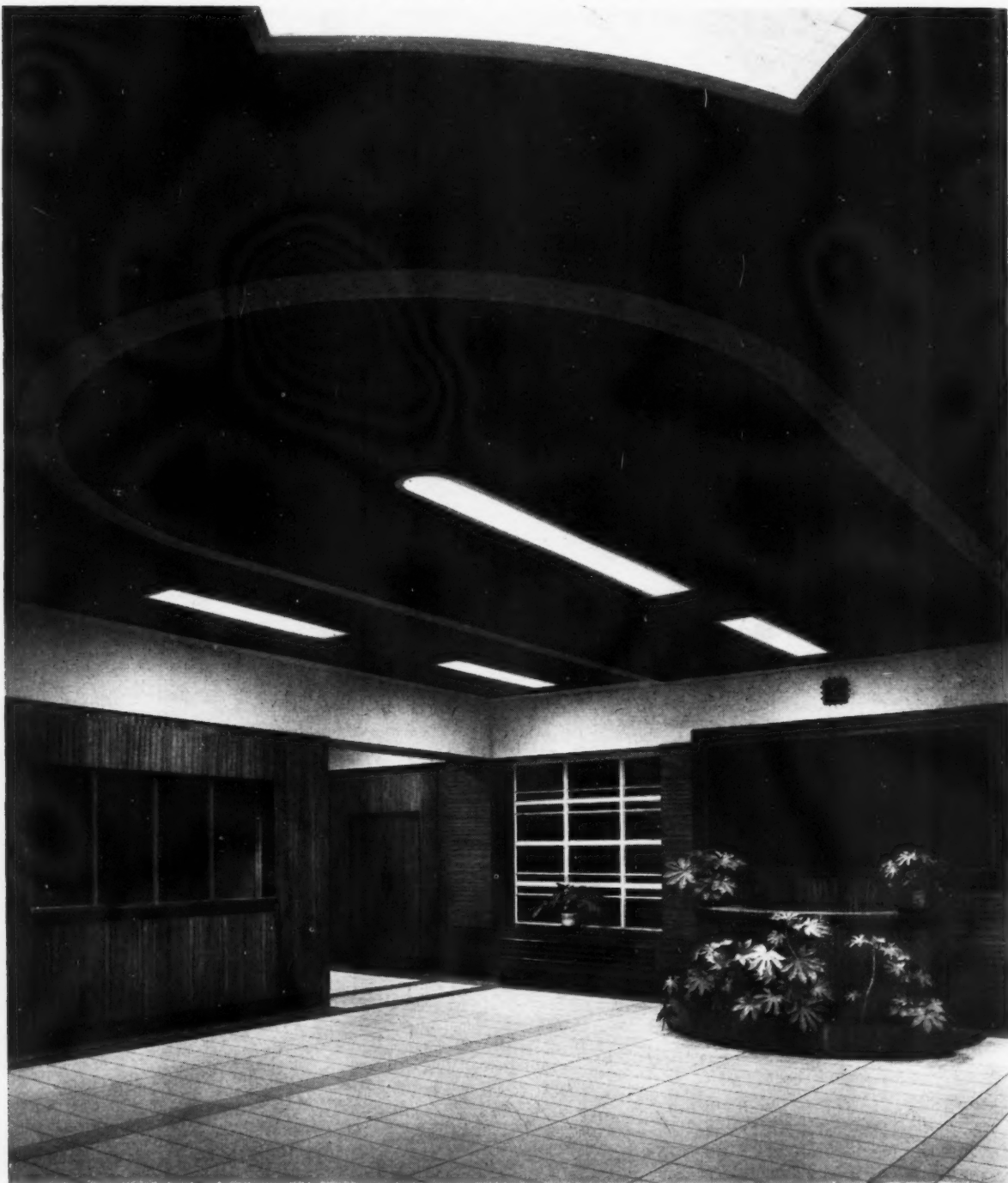
You still have time to see the Roads Exhibition at the Institute of Civil Engineering (Great Smith Street, S.W.1), for it does not close until Friday. Quite a lot of the bridges shown are old friends (Maillart seems, to my eye, still unsurpassed) but the South American roadways are astonishingly good and both Holland and Belgium have built a number of large trunk roads which make our efforts here rather pitiful. The United States, as one might expect, has a more ruthless approach to the problem, and I can see no real reason against charging tolls on new roads as long as the charges stop as soon as they are paid for.

*

In this country we are supposed not to be able to afford larger road

F

CREATION WITH CRAFTSMANSHIP



Cleland House, Westminster, S.W.1. Architects: T. P. Bennett & Son

THE ASSOCIATED COMPANIES OF

COURTNEY, POPE

COURTNEY, POPE LTD., Shopfitting, Architectural Joinery and Metalwork

COURTNEY, POPE (ELECTRICAL) LTD., Lighting Specialists

AMHURST PARK WORKS, TOTTENHAM, LONDON, N.15 • STAMFORD HILL 4266 (TEN LINES)

schemes. The cost of the present traffic chaos is anyone's guess, but figures which seem more or less plausible put it at tens of millions a year. Can we therefore afford *not* to have a proper trunk road system? My guess as an economic ignoramus is no; I find it hard to believe we have to be the most backward country of all.

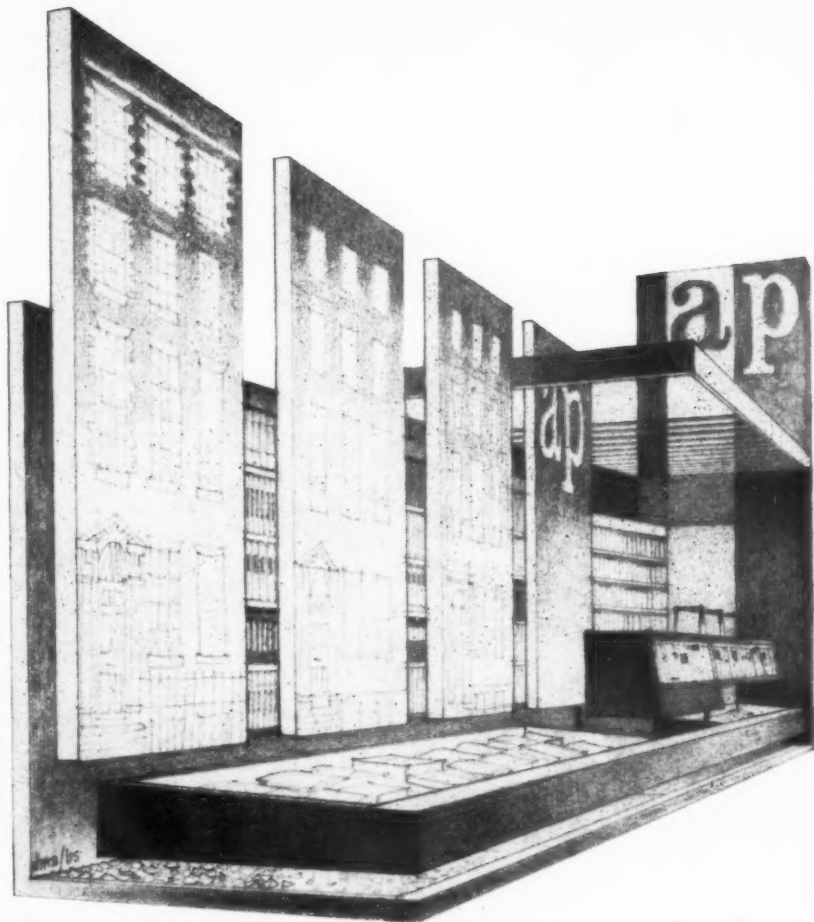
SUNDAY PROPAGANDA

The *Sunday Times*—provoked perhaps by the *Observer*—has awakened to the growing interest in architecture and has so far produced four articles in a series on the building of a house for the Jones's. An old story, of course, but well done so far, starting the right way with a tentatively chosen site, the rigmarole of planning consents, ways of borrowing the money, interviews with the architect, and so on. The articles are unsigned, but must, I am sure, have been written by an architect. They should give potential clients a clear idea of what the architect does for his fees. This is good propaganda—and in the right place, too.

CARLOS LAZO

With the death of Carlos Lazo in an air-crash outside Mexico City, the architecture of Latin America has lost one of its most dynamic figures. Those of you who saw the Mexican Exhibition at the RIBA earlier this year will connect his name with the great muralized exterior walls of Mexico's new University City, and of the Ministry of Communications and Public Works building. But he was also the director-general of the whole university layout, and—a big "and" for a man of only forty-one—the Minister of Communications and Public Works. The blend of architecture and politics is not, perhaps, unknown, but to have got so far with both in so short a time is a remarkable achievement, while the University City project is a landmark in the realization of a typically Latin-American educational concept. Earlier schemes in Brazil and Argentina were abandoned, the Caracas campus is in no way comparable in scale, apparently, and the revived Rio de Janeiro scheme is still a long way from completion. But Mexico's University City exists, and has given a great many architects and engineers a rare opportunity to work with the utmost freedom and boldness.

ASTRAGAL



The Architectural Press Stand at the Building Exhibition, Olympia, designed by Dewar-Mills Associates Ltd. (Assistant, Bryan Spearpoint). See page 667

NEWS

PHOTOGRAPHY

Winning Competitors

The winners of *Architectural Design's* photographic competition for architects are (1) Gordon F. Stanley; (2) John Horile, and (3) Timothy Rendle.

Those commended were Neil T. Coates, R. K. Dewhurst, F. M. Featherstone, Alan Reiaich, G. F. Stanley and Lawrence Wong. The assessors were Frank Yerbury, Margaret Harker and Percy Harris.

The prizes will be presented by C. H. Aslin, P.R.I.B.A., at 3.30 p.m. on November 25 on The Standard Catalogue Company's stand at the Building Exhibition, Olympia, designed by Theo Crosby, A.R.I.B.A.

AUSTRALIA

Competitive Bidding for Architects' Services

The demand for architects in South Australia is so great that the State Government is trying to get recruits from the UK. The demand, which is due to an increase in large industrial building schemes, has led to intensive competition between the State and private firms to secure the services of

the few architects available. The State, it is said, is handicapped by the fact that private firms frequently offer up to £200 a year more than the standard State salary.

HOUSING

Figures for September

In September 27,978 houses were completed in Great Britain. 31,413 were completed in the same period last year.

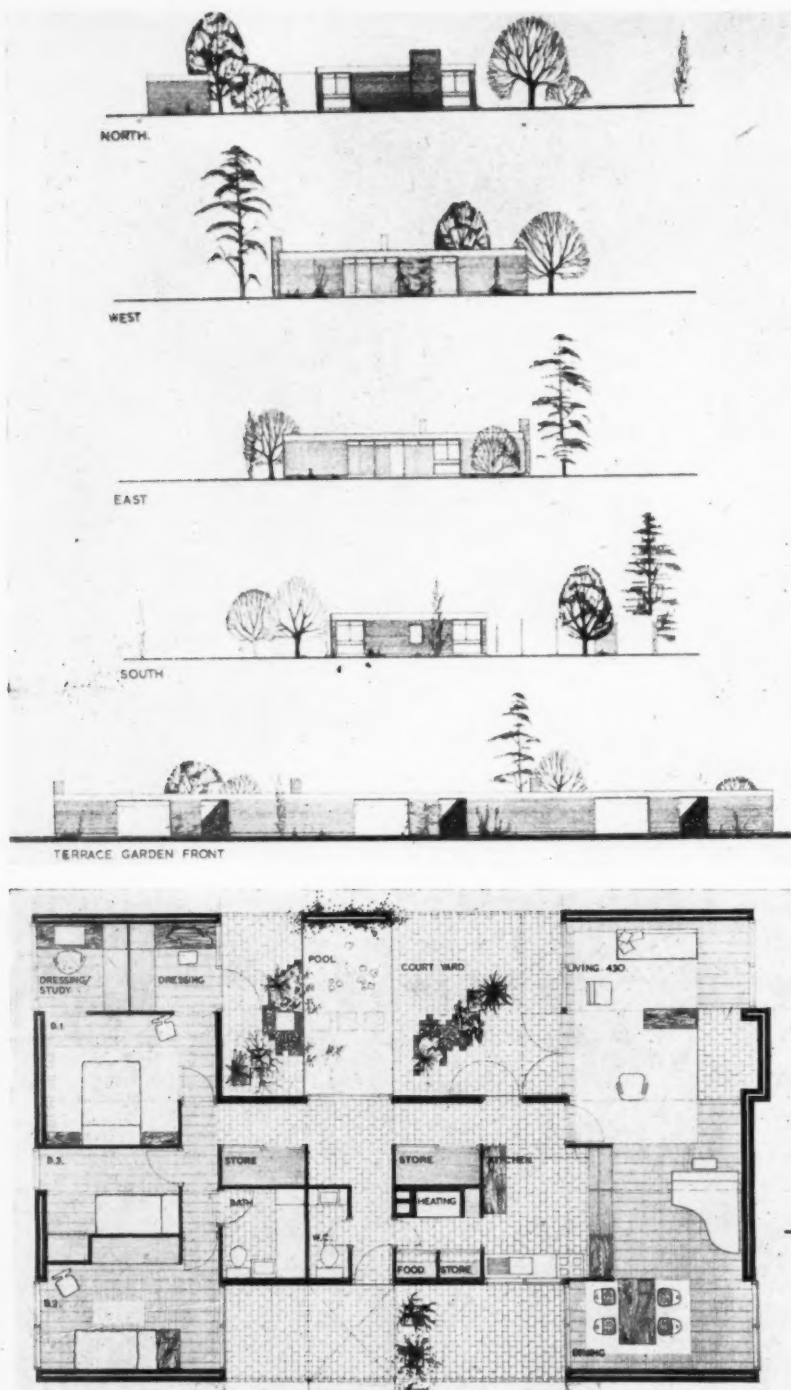
In the first nine months of the year, 233,335 permanent houses were completed, compared with 256,110 in the same period of 1954.

SHREWSBURY

Column Group Activities

The Column Group, Attingham Park, under the active chairmanship of C. H. Simmons, the county architect of Shropshire, has produced a varied programme of talks for its next session. The object of the Group, which was formed in 1952, is to stimulate a local interest in architecture and allied arts. Membership is open to anyone, and application should be made to the Secretary, Column Group, Column House, London Road, Shrewsbury. All meetings are held at Attingham Park, where overnight accommodation can be provided. The '55-'56 programme is as follows:—

Wednesday, November 23, 1955: "An Architect's impressions of Russia," an



First prizewinner, but why?

Most of the 323 people who entered for Tretol's house design competition made "little contribution", in the words of the assessor, Clifford Culpin, "to the promotion of better architecture in this particular sphere." What about the first prize winners, R. Towning Hill and Partners, of Bristol? What is the quality of their contribution? Mr. Culpin does not say. It is true that disappointed competitors may see the prizewinners' work at the Building Exhibition, Olympia, and in this and next week's A.J. But all competitors are entitled to know the assessor's reason for making his awards. When we reminded a representative of Tretol of this we were told that Mr. Culpin had, in fact, been anxious to comment on the winning designs, but had been warned by the RIBA that it was unwise to do so. What do readers think about this? We imagine that 320 people have very decided views. (Above are elevations and a plan of the winning entry. The second and third prizewinners' names are given on the right.)

illustrated talk by A. Douglas Jones, Principal of the Birmingham School of Architecture.

Wednesday, January 25, 1956: "Modular Co-ordination," a talk by W. A. Allen, of the BRS, on the dimensional arrangement of all the things and materials for modern buildings in relation to human needs.

Wednesday, February 22, 1956: "Opera at Covent Garden," an informal talk by Mr. David Webster, Administrator of the Royal Opera House.

Wednesday, March 21, 1956: "Problems of Sculpture," a talk by Dr. Karel Vogel, with slides and explanatory demonstrations of modelling.

COMPETITION

Winning Designs for Professional Man's House

On the left we show elevations and a plan of the first (£250) prizewinning design, by R. Towning Hill and Partners, of Bristol, in Tretol's competition for a £4,250 "House for the Professional Man."

The second (£150) prizewinner is F. A. Sargeant, of Birfield, Berks. and the third (£100) is P. J. Lord-Smith, of Swindon, Wilts.

The assessor, Clifford Culpin, makes no comment, in his report, on the winning designs. These are his general remarks:—

"I have carefully examined the 323 designs and accompanying reports submitted. I have had the collaboration of Messrs. Gardiner & Theobald, Chartered Quantity Surveyors appointed by the promoters to advise me on matters of cost.

"The majority of the designs submitted make little contribution to the promotion of better architecture in this particular sphere and in many of them the same faults recur. These faults include: inadequacy of food storage, lack or bad placing of hanging space for outdoor clothes, access to living rooms through congested dining spaces and remoteness of parents' bedroom from children's rooms.

"Some gallant attempts to solve special problems, for instance that of the urban terrace house, have not been entirely successful.

"Many good designs, and one of outstanding merit, were ruled out on grounds of cost, and I have been governed in my decision by Clause 5(b) of the Conditions which states that a design shall be excluded from the competition 'If the Assessor shall determine that its probable cost will exceed by 10 per cent. the outlay stated in the instructions.'

"However, the competition has, in my opinion, been successful in that it has produced the design to which I award without hesitation the first place."

DIARY

Building Exhibition. At Olympia. Monday to Saturday. 10 a.m.-8 p.m. Admission 2s. 6d. UNTIL NOVEMBER 30

Roads and Landscape. Discussion between Sylvia Crome, H. F. Clarke, Peter Shephard and W. H. Spencer. Chairman: Fello Atkinson. At the ICA, 17, Dover Street, W.1. 8.15 p.m. Members 2s. Guests 3s. NOVEMBER 17

The Symbolism of Colour. IIBDID lecture by Graham Webster. At the College of Preceptors, 2, Bloomsbury Square, W.C.2. 6.30 p.m. NOVEMBER 22

Power Tools in the Building Industry. Film by Wolf Electric Tools Ltd. At the BC, 26, Store Street, W.C.1. 12.45 p.m. NOVEMBER 23

Our attempt to help our readers to find their way round the Building Exhibition takes a different form this year. Taking our cue from the difficulty architects (and everyone else for that matter) have experienced in manipulating vast, flapping plans of the whole Exhibition grounds, we have divided the Exhibition into thirteen sections. To each of these sections is devoted a double-page spread (a few of them get an extra page thrown in). At the top of the first page of each is a brief introduction telling you what you must not miss in the section; at the top of the facing page is a plan of the section, giving stand names and numbers, with a key which shows you how the section relates to the rest of the Exhibition. The remainder of these pages is filled with descriptions of the stands in the section, given in alphabetical order. Not all are there, though a great many more are included than in previous years. Quite simply, we have given some notice to all stand holders who replied to our requests

for advance information and have added to these notes of a few who did not, but whose stands seemed too important to omit. Readers should be able to tell from the introductions to the sections and from the notes themselves which stands are likely to interest them.

If you want to find a stand in a hurry, turn to the alphabetical index on pages 682-685: there you will find the stand number and our section number: turn to the right section and you will find where the stand is.

A word of warning: this is only a preview. We have not seen the Exhibition before going to Press and it is just possible (though not very likely) that we have missed something of earth-shaking importance. It is also possible (though again not very likely) that we have been misled by some of the glowing descriptions given to us in advance. We will have an opportunity of correcting the balance when we come to give our review of the Exhibition in our issue of December 2.

BUILDING EXHIBITION, 1955

OLYMPIA, NOVEMBER 16 to 30

DIARY OF RECEPTIONS AND MEETINGS

Date	Time	Place	Organization
Thurs., November 17	4.30 p.m.	Pillar Hall	Essex, Cambs and Herts Society of Architects, visit and tea for Council
	All day	Large Conference Room	South Counties Federation of Building Trades Employers
	All day	LMBA Clubroom	LMBA Central Area No. 1
Fri., November 18	3.0 p.m.	Large Conference Room	Tretol Ltd., lecture
	All day	LMBA Clubroom	LMBA North Eastern Area
Sat., November 19	2.0 p.m.	Small Conference Room	Plasterers' Craft Guild AGM
	2.0 p.m.	Large Conference Room	Institute of Municipal Building Management AGM
	6.0 p.m.	Small Conference Room	National Association of Plumbing Teachers
	All day	LMBA Clubroom	LMBA Central Area No. 1
Mon., November 21	2.30 p.m.	Small Conference Room	S.E. Brick and Tile Federation
	4.30 p.m.	Large Conference Room	Colt Ventilation Ltd. Lecture and Film
	All day	LMBA Clubroom	LMBA Southern Area
Tues., November 22	11.0 a.m.	Large Conference Room	Architects' Benevolent Society, meeting and lunch (12.45)
	11.0 a.m.	Pillar Hall	NFBTE
	4.30 p.m.	Addison Restaurant	Faculty of Architects and Surveyors, tea
	6.0 p.m.	Large Conference Room	Discussion arranged by Brixton School of Building and MOW on "Building Maintenance"
	All day	LMBA Clubroom	LMBA Central Area No. 5
Wed., November 23	10.0 a.m.	Small Conference Room	British Cast Concrete Federation
	11.0 a.m.	Large Conference Room	Incorporated Society of Estate Clerks of Works
	4.30 p.m.	Large Conference Room	Colt Ventilation Ltd., lecture and film
	All day	LMBA Clubroom	LMBA Central Area No. 2
Thurs., November 24	All day	Large Conference Room	British Ceramic Society
	All day	LMBA Clubroom	LMBA North Western Area
Fri., November 25	3.0 p.m.	Large Conference Room	Tretol Ltd., lecture
	All day	LMBA Clubroom	LMBA Northern Area
Sat., November 26	2.0 p.m.	Large Conference Room	Guild of Bricklayers AGM
	2.30 p.m.	Small Conference Room	Institute of Certified Carpenters
	All day	LMBA Clubroom	LMBA Central Area No. 1
Mon., November 28	Luncheon	Empire Restaurant	Worshipful Company of Tylers and Bricklayers
	All day	LMBA Clubroom	LMBA South-Western Area
Tues., November 29	10.0 a.m.	Large Conference Room	National Federation of Clay Industries
	4.30 p.m.	Large Conference Room	Colt Ventilation Ltd., lecture and film
	All day	LMBA Clubroom	LMBA Central Area No. 3
	All day	LMBA Clubroom	LMBA Central Area No. 4
Wed., November 30	All day	LMBA Clubroom	Overseas visitors and exhibitors
Every day (except Sundays)	10 a.m.-8.0 p.m.	Visitors' Lounge (Grand Hall Gallery)	

N.B.: Both the large and the small conference rooms are off the National Hall Gallery (Section 13). The RIBA clubroom, the cinema and the foreign visitors lounge are off the Grand Hall Gallery (Section 12). The LMBA lounge, and nearby Pillar Hall, are off the Grand Hall (Section 7). The Addison Restaurant is off the National Hall (marked restaurant in Section 9).

This part of the Exhibition is, by tradition, devoted to machinery, most of it being for use by specialist sub-contractors. Its interest to architects is therefore limited. One exception to this is the remote control window equipment on the Teleflex stand (Y.389). The air-conditioning equipment on the Dallow Lambert stand (W.373) is of interest to architects with factories to design in heavily-polluted atmospheres, and Portasilo's stand (X.382) is certainly worth a look for those interested in site organization.

The Building Exhibition

Olympia 1955

EMPIRE HALL

1

Section

Y.390

Atlas Diesel Co. Ltd.

Contractors' tools are the main exhibits on the Atlas stand; they include compressors, concrete-breakers, pneumatic-hammers, saws

and sanders. The L.S.S.61 sander is designed with various attachments capable of stone dressing heavy welds, general grinding and cleaning off paint and rust.

Beresford Avenue, Wembley, Middlesex (Wembley 4426).



Above, Atlas Diesel L.S.S. 61 Sander.

Z.396

British Railways

An information bureau specializing in freight train services is provided by British Railways, and a detailed plan shows the general allocation of the proposed £1,200 million modernization plan.

222, Marylebone Road, London, N.W.1 (Ambassador 7711).

W.373

Dallow Lambert & Co. Ltd.

Equipment to control and remove dust or refuse in a variety of industrial processes is on show here. The firm maintains a complete design service to advise on installations varying from individual dust-collectors to large-scale plant.

London Office, 20, Fitzroy Square, W.1 (Euston 5796).

V.364

Dominion Machinery Co. Ltd.

This year Dominion add a new medium-sized spindle-moulder to their range of woodworking machinery. The most versatile product of the firm—the Elliott Comprehensive Woodworker—is also on show and its application in 10 different processes is demonstrated.

Hipperholme, Halifax (Halifax 69258-9).

Y.387

Interwood Ltd.

Specialist woodworking machinery, exhibited by Interwood, includes veneer and plywood-making plant, sanding, sawing and lacquer-spreading machines. The latter is one of the newest developments in this field, offering up to 30 per cent saving compared with older spray techniques.

326, Old Street, London, E.C.1 (Shoreditch 5334-5).

X.385

Kine Engineering Co. Ltd.

Kine Engineering repeat their display of Multico woodworking machines, with one exception—the introduction of a thick-nessing attachment to the 6-in. planer.

Multico Works, Salfords, Redhill, Surrey (Horley 1388-9).

X.380

Mackay Industrial Equipment Ltd.

Mackay of Feltham, who are showing their products for the first time at the Exhibition, display a winch and angledozer for use with the FIAT 25 CID tractor. The firm now have a licence for the British Pescara Muntz P.42 free-piston compressor and use a sectional model to demonstrate its working principles.

Faggs Road, Feltham, Middx. (Feltham 3435-9).

X.381

Massey-Harris-Ferguson (Sales) Ltd.

A new fork lift designed to travel over rough ground and lift 10 cwt. over 10 ft. is shown by Massey-Harris-Ferguson. The stand also includes a heavy- and light-weight tipping trailer and a Hydrovane 60 compressor.

Fletchamstead Highway, Coventry (Coventry 5533).

Z.399

John M. Perkins & Smith Ltd.

Concrete master drills and stonemasons' saws are exhibited for the first time on this stand. The firm, which is better known for its tungsten carbide-tipped drills, displays a complete range of these tools.

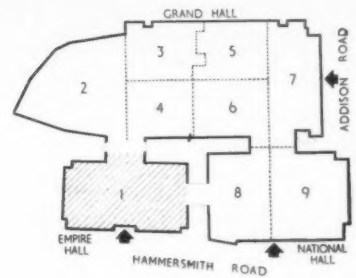
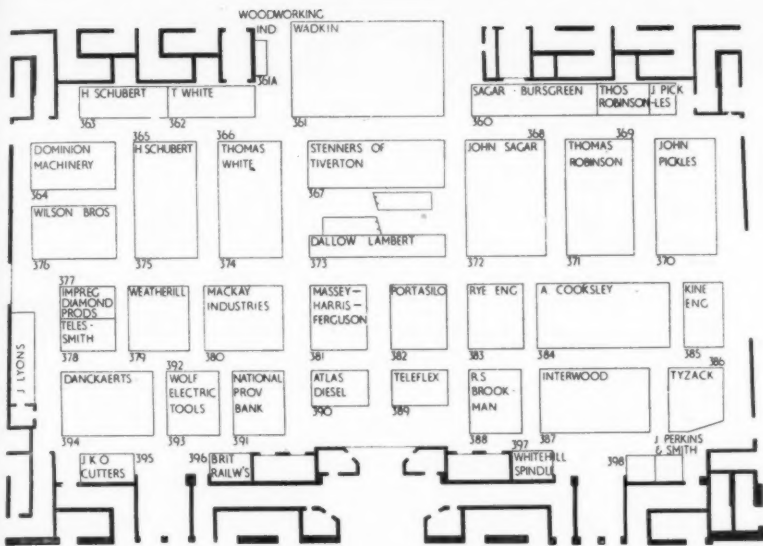
London Road Works, Braunston, Rugby (Braunston 238).

V.370

John Pickles & Son (Engineers) Ltd.

Pickles make saw-mill and woodworking machinery and show eight of their machines. One of these, the patent twin stair trenching machine, is capable of trenching two standard stair strings in about 3½ minutes.

London Office, 58, Victoria Street, S.W.1 (Victoria 2106).



The Key plan above shows in cross-hatching which part of the Exhibition is dealt with under Section 1. The plan on the left shows all the exhibitors in this section. Some of them—but not all—are mentioned (in alphabetical order) in our catalogue of the section.

X.382

Portasilo Ltd.

Widespread development of the Portasilo system has been governed by the number of bulk cement tankers available to feed it. Efforts to expand this pressurized delivery service are having effect and the Portasilo equipment is on exhibition for the first time. The silo is made of laminated wood and is pneumatically loaded from a bulk cement tanker. Three models of the equipment are marketed, ranging from 10- to 20-ton capacities.

Blue Bridge Lane, York (York 4872).

U.369, W.371

Thomas Robinson & Son Ltd.

Four new models are included in the selection of revised woodworking machines shown by the firm. They are a 54-in. vertical band re-saw, a tilting spindle dimension saw bench, an independent floor mounting top throating head unit and an automatic straight cutter grinder.

London Office, Africa House, Kingsway, W.C.2 (Temple Bar 2356).

V.367

Stenners of Tiverton Ltd.

The West Country firm of Stenners shows the three latest additions to its range of log conversion and woodworking machinery. Largest of these is a hydraulic-fed, heavy-duty cross-cut capable of cutting up to 30 in. x 11 in. timbers at 110 ft. per minute.

Lowman Works, Tiverton, Devon (Tiverton 2202-4).

Y.389

Teleflex Products Ltd.

Teleflex specializes in mechanical remote controls for windows, louvers, valves, dampers, etc., and demonstrates an installation on a bank of windows. Two revised and im-

proved versions are on show for the first time—the Fall-Back unit for bottom-hung windows and continuous opening light equipment for greenhouses.

Chadwell Heath, Essex (Seven Kings 5771).

U.361

Wadkin Ltd.

The Wadkin double-end tenoner and the open belt sander—both newcomers to the Building Exhibition—supplement the Wadkin range of woodworking machinery on show.

London Office, Brookfield House, 62-64 Brook Street, W.1 (Mayfair 7048-9).

U.362, V.366, W.374

Thomas White & Sons Ltd.

Improved versions of the firm's woodworking machinery are shown, and two new pieces, the double drum sander and the automatic plane iron grinder.

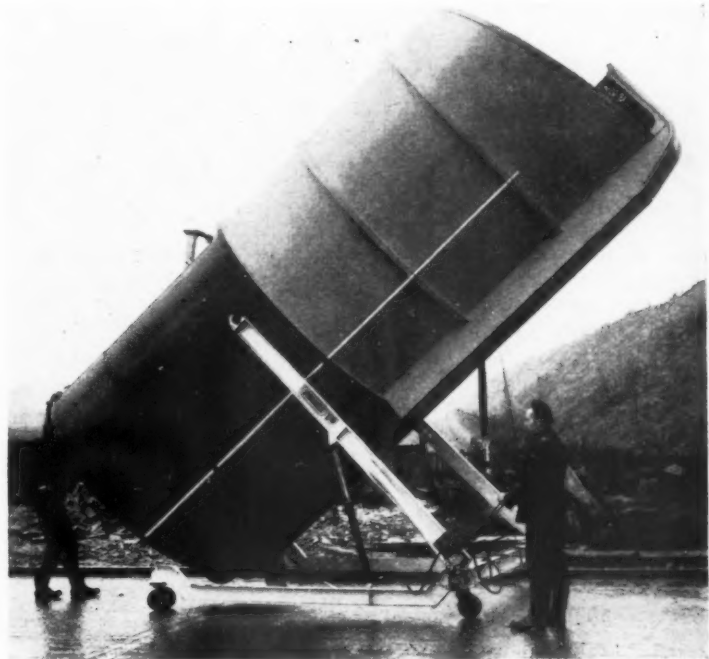
London Office, Clifton House, Euston Road, N.W.1 (Euston 4196-7).

W.376

Wilson Bros. (Leeds) Ltd.

This firm, which manufactures woodworking machinery, exhibits for the first time a five-motor single-ended tenoner, now capable of taking up to 6-in. x 15-in. timbers and making a tenon 5 in. long.

Victoria Road, Leeds 11 (Leeds 25141).



Above: unloading a Portasilo on a building site.

This end of the Grand Hall is traditionally devoted to contractors' plant, and the architect with little time to spare may give it a miss. An exhibit like that of Kwikform Ltd. (F.119-120), who are showing their new Mark II formwork, should interest him, as the product shown influences detailing. Important stands which do not fall within the general category include those of Sommerfeld (E.113), who show a most interesting exhibit of prestressed steelwork, the National Coal Board (E.109) who, we are inclined to forget, are one of the big manufacturers of brick, and the Hemel Hempstead Engineering Co. Ltd. (L.253), who are exhibiting a new Swedish solid fuel burner.

The Building Exhibition

Olympia 1955

GRAND HALL

2

Section

D.71, 72

Aveling-Barford Ltd.

Five machines—a maintenance grader, a calf-dozer, and three dumpers of $\frac{1}{2}$, 1 and 3 cu. yd. capacities are on show. The maintenance grader has a 9 ft. blade and offers the contractor an all-the-year-round service as bulldozer, scarifier, snow-plough, road planer and power take off.

London office: Morris House, 1-5 Jermyn Street, S.W.1 (Whitehall 0527).

L.255,

J. C. Bamford

A Fordson Major Tractor is used here as a base machine to demonstrate the Industrial Major Loader, a half-track attachment and an hydraulic excavator.

Lakeside Works, Rocester, Uttoxeter, Staffs (Rocester 371).

D.68, 69

The Chaseside Engineering Co. Ltd.

These specialists in earth moving machinery include, in their products, a diesel-powered scoop with a 2 cu. yd. capacity shovel known at the Loadmaster 500 shovel, and a $3\frac{1}{2}$ cu. yd. capacity high speed dumper.

Station Works, Hertford (Hertford 3113).

K.219

Consolidated Pneumatic Tool Co. Ltd.

This firm specializes in big time contractors' equipment. Shown here is a 120 cu. ft. rotary air compressor, a new triple tamper and a giant vibrator.

232, Dawes Road, London, S.W.6 (Fulham 7722).

D.70

Alan R. Davies

Exhibited here is the Multibloc Handling System which covers all stages in the manufacture of breeze blocks. The system is based on a mobile blockmaking machine capable of making 1 cu. yd. of breeze blocks every 6 minutes. Supplementary machines to complete the manufacturing unit include a feed truck, a patent lift truck, a carrier truck and a patent lifting grab for stacking or loading.

20, Whiteladies Road, Bristol 8 (Bristol 3-8418/9).

F.123

The Eclipse Rail-Track Ladder Co.

This firm specializes in ladders and shows a wide range from the 24-ft. high extending-

tower ladders to ordinary domestic steps. The difficulty of working at the top of a ladder is eased by the patent ladder-tool-tray by the company; this is an adjustable platform which can be secured to the ladder leg to carry tools, paint cans, etc.

Staple Hill, Bristol (Bristol 53281).

L.256

Guilliet, Sons & Co. Ltd.

Machines for joinery work are on show here, including a heavy duty spindle moulder with a special safety fitting which prevents it working loose, and a new motorized sharpening machine, designed to deal with all sizes of wide bandsaw blades.

28-30, Rivington Street, London, E.C.2 (Bishopsgate 5792-3-4).

L.253

The Hemel Hempstead Engineering Co. Ltd.

This firm exhibits for the first time the Suxé Burner firing a sectional boiler. The Suxé burner is a Swedish invention now manufactured under licence by the Hemel Hempstead Engineering Co. It is fully automatic and comprises a water-cooled furnace, fuel hopper and electric fan. The overhead hopper and fan-control maintain efficient long burning and require attention only twice a day.

Cupid Green Foundry, Hemel Hempstead, Herts (Boxmoor 3630).

G.162, 163

C. H. Johnson (Machinery), Ltd.

To be seen on this stand are portable conveyors, hydraulic jacks, pumps, rammers and screed board vibrators. The firm are sole agents in the British Isles for Allgemeine Baumaschinen-Gesellschaft, the German manufacturers of concrete road-making equipment.

Adswold, Stockport, Cheshire (Stockport 2642).

F.119, 120

Kwikform

On this stand is the Kwikform Mark II Formwork, evolved to cover a wide range of constructional work—walls, beams, piers, and columns. It consists of four basic components and eliminates cones and spacers. The stand itself is made of various Kwikform equipment, including Trestles, Props, Shores and the new Kwikform Road Form. London office: 66, Victoria Street, S.W.1 (Victoria 8915).

H.172, 173

R. A. Lister & Co. Ltd.

New to the exhibition is an unconventional three-cylinder water-cooled diesel engine known as the TS.3. This engine was designed by the Rootes Group for the automobile industry, but has now been developed for industrial uses.

15, Kingsway, London, W.C.2 (Temple Bar 9681).

E.109

National Coal Board

This stand was the subject of a competition won by D. E. Wright, L.R.I.B.A., one of the Board's architects in Cardiff. Synthaprufe, the rubber-based damp-proof liquid, Presomet, a black gloss bituminous paint, and Presotim, a wood preservative and stain are shown along with sample panels of the Board's bricks.

Hobart House, Grosvenor Place, London, S.W.1 (Sloane 3401).

C.64

Norton's Plant Hire Ltd.

Showing here are trench buckets and a new hydraulic ejector suitable for use with tractor-mounted diggers. The hydraulic ejector cuts trenches 10-12 in. wide.

Ramsden, Billericay, Essex (Ramsden Heath 365/366).

E.112

Ruston & Hornsby Ltd.

Heavy duty diesel engines are the main exhibit on the Ruston stand. A streamlined spares service has been set up at the firm's Lincoln works, and the company say that Ruston engines could be used to advantage on compressor sets, concrete mixers, hoists, pumping sets, road rollers, etc.

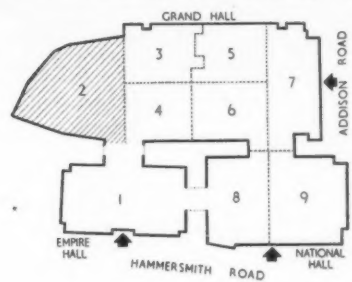
London office: 95 Aldwych, W.C.2 (Chancery 6531).

C.63

John Smith & Co. (London) Ltd.

Here is an extensive range of tents, portable collapsible canvas shelters and tarpaulins. Details of the tent and tarpaulin hire schemes are available on the stand.

Hainault Works, Hainault Road, Chadwell Heath, Romford, Essex (Seven Kings 6070).



Wellington, Salop (Wellington 1000).

Above, a Sommerfeld prestressed steel roof frame being placed in position.

An important stand here is that of the Zinc Development Association (D.82), which gives useful information about zinc coatings and how to detail zinc weatherings. BEDA have two stands (E.103, E.104) on which they carry out two campaigns—one for good wiring in conversions and another in favour of portable electric tools. This is also a good section for plumbing: Finch (stands A.12, A.13, A.14) show sample stacks illustrating the fittings they have developed for simplified plumbing systems; Econa (B.24, 25) show their copper traps and wastes—also a new copper radiator—while Conex-Terna and Sanbra (D.75) and Peglers (E.102) show their plumber's hardware.

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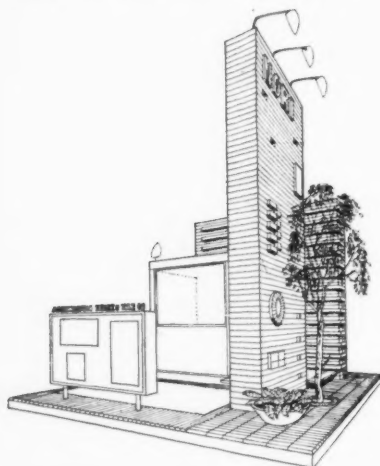
Section

C.58

Accrington Brick & Tile Co. Ltd.

On this stand, designed by Philip Dod, A.R.I.B.A., of Willink and Dod, F/R.I.B.A., coloured photograph transparencies are used to illustrate recent contracts completed by the firm. A 16-ft.-high display wall shows a wide range of facing bricks. The floor of the stand is paved with 2-in. thick multi-coloured, non-slip "paviors."

Accrington, Lancs (Accrington 2648).



E.103, E.104

British Electrical Development Association

A very interesting section of the stand shows detailed drawings of electrical installations in conversion jobs. In another section the ring circuit is described. Yet another section is devoted to the use of electric tools in building. Part of the stand will be lit by an "automatic daylight-controlled" lighting system, as used in factories. The Association suggests that the added cost of electronic control is offset by economic wiring.

2, Savoy Hill, London, W.C.2 (Temple Bar 9434).

A.15

Burtain Ltd.

Burtain Ltd.—a firm of specialist flooring-contractors—have added two new compounds to their flooring service—Burcol DFC Liquid Asphaltic Compound and Burcol Floor Seal, which gives a water-proof, stain-proof finish to floors.

16, Sheldon Street, London, W.2 (Paddington 1075-6).

C.55

Celotex Ltd.

This firm show their interesting range of products made from sugar cane fibre, a board which is the result of research on over 400 plant fibres. This insulating board is claimed to have great strength, due to the structure and length of the fibre, and can be supplied with a smooth white high-light finish suitable for immediate painting. A further development of cane fibre is found in Flexcell, a bituminous expansion joint filler, suitable for all forms of concrete constructions. The stand also shows the familiar Celotex range of hardboards.

Stonebridge Park, North Circular Road, London, N.W.10 (Elgar 5717).

C.60

Compactom Ltd.

Compactom specializes in the prefabrication and erection of dry construction, demountable partitions, and built-in units. Compaction is not based on the sole use of any one material, and a variety of finishes, acoustic, thermal or purely decorative, can be supplied.

Oxgate Lane, London, N.W.2 (Gladstone 6633).

D.75

Conex-Terna Ltd. and Sanbra Ltd.

These two Midland firms share a stand to show various types of kitchen and bathroom fittings. Among the better-known products are the Sanbra Easilyne basin and bath taps and the re-styled telephone-rest type Easilyne Elm bath-mixer, with its finger-tip control. The Conex and Conexcel range of fittings for copper pipes are supplemented by a new series of light-weight waste-pipe fittings and a variety of couplings for poly-

thene and plastic-tube cold-water services. Conex-Terna Ltd., Whitehall Road, Great Bridge, Tipton Staffs (Tipton 1162).

Sanbra Ltd., Aston Hall Road, Birmingham 6 (Birmingham East 1231).

B.29A

Crosby & Co. Ltd.

The most important exhibit on the stand of these door manufacturers is the Concavo flush door which, it is claimed, possesses added resistance to "ripple" and warping, through being moulded in its construction and through the omission of internal bracings, which are said to interfere with the natural movement of the surfaces.

Lion Works, Farnham, Surrey (Farnham 5291-3).

B.24-5

Econa Modern Products Ltd.

This show of preformed copper wastes and traps and all the attendant detailing is always interesting. A special exhibit this year is the Econarad, a radiator which is made wholly of copper tube and can, therefore, be fitted on to the direct hot-water system.

Aqua Works, Highlands Road, Shirley, Birmingham (Solihull 3078).

B.28

The Edison Swan Electric Co. Ltd.

Edison Swan now market the 13 amp. Wind-sor range, which includes the Easy-fuse plug, designed to be re-fused in 15 seconds without the use of tools. Among a variety of switches shown on the stand are a "sliding bar" switch—the Surrey—and ceiling switches equipped with nylon connectors in place of the normal short length of chain. 155 Charing Cross Road, London, W.C.2 (Gerrard 8660).

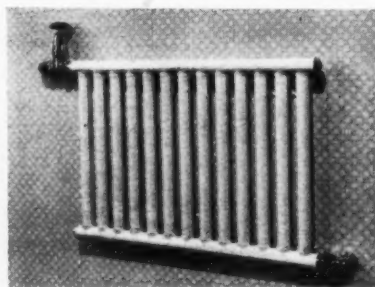
A.12/13/14

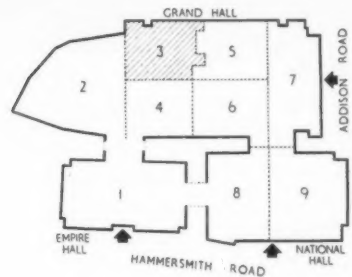
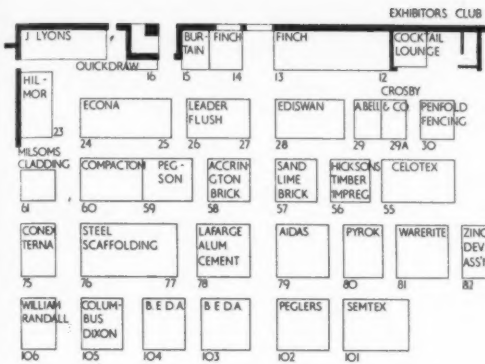
B. Finch & Co. Ltd.

Architects will remember the firm of Finch by its recent excellently-illustrated catalogue of Cast Iron, Soil, Drain and General Castings. Items from this catalogue occupy the centre of the Finch stand and are supplemented by Clofit cloakroom fittings and Unimer tubular steel buildings.

Belvedere Works, Barkingside, Essex (Valentine 8888).

Left: an Econarad. See Econa note above.



**C.56****Hickson's Timber Impregnation Co. Ltd.**

Tanalith and Pyrolith are Hickson's principal products in the field of timber preservation. Pyrolith is marketed as a water-borne fire-retardant and Tanalith is claimed to be proof against soft rots and dry rot. The chief point in favour of Tanalith seems to be that timber can be painted after treatment; traditional methods have always presented the problem of discolouring after painting. London office, 36, Victoria Street, S.W.1 (Abbey 1477-8).

D.78**Lafarge Aluminous Cement Co. Ltd.**

When building in concrete in industrial and other chemical-laden areas it is well to remember that Ciment Fondu, seen on this stand, is not only a rapid-hardening cement but is also immune to attack by mineral sulphates and resistant to many other chemicals. The Lafarge stand is staffed by technical representatives who will offer advice on any matters concerning this well-tried cement.

73, Brook Street, London, W.1 (Mayfair 8546).

C.61**Milsom's Patent Precast (Vermiculite) Cladding**

In an effort to reduce the standard 2-in. concrete cover to stanchions, Milsom's have developed a 1-in. thick Vermiculite pre-cast cladding having a resistance to fire equal to 2-in. concrete. The cladding is manufactured for the various sizes of stanchions so that it can be conveniently wrapped around the stanchion and secured with its own reinforcing wires. A fair-faced cladding is also available where the building is not to be plastered. Bury Wharf, Bury Street, Ruislip, Middx. (Ruislip 4929).

E.102**Peglers Ltd.**

In recent years the furring-up of ball valves in expansion tanks of indirect hot water systems has caused some havoc, and the latest solution of this problem is shown in the Prestex Neofeed Ballfeed. This valve is said to be virtually indestructible through normal wear and tear and its simplicity assures a long life. It is the most interesting exhibit of the firm's well-known range of Prestex taps, compression joints and plumbing fittings.

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

B.30**Penfold Fencing & Engineering Ltd.**

Penfold specializes in chain-link fencing and introduces two new products, prestressed concrete posts and a chain-link fence woven with stainless-steel wire. The latter has been designed for use in the vicinity of oil refineries, to combat the sulphur-laden air, or in coastal areas. The initial cost (almost six times that of ordinary chain-link) is offset by the very long life of the product.

21, Northumberland Avenue, W.C.2 (Whitehall 0701).

D.80**Pyrok Ltd.**

The possibilities of Pyrok are not yet fully explored, but thicknesses of $\frac{1}{2}$ in.— $\frac{3}{4}$ in. for such purposes as anti-condensation, acid-resisting linings, internal and external wall surfaces and fire protection have been tested and proved successful. Pyrok is a mixture of cement, exfoliated vermiculite, a lime plasticizer and water and can be sprayed in thicknesses up to 4 in., although the plaster thickness of $\frac{1}{2}$ in.— $\frac{3}{4}$ in. is usually adequate for most wall coverings.

401-4, Montrose Avenue, Slough, Bucks (Slough 24061-5).

C.57

Sand Lime Brick Manufacturers' Association
This stand was designed by Cable & Pite, F/A.R.I.B.A., for four members of the Association, namely, M. McCarthy & Sons Ltd., Midhurst Whites Ltd., Sevenoaks Brick Works Ltd., and Stonehenge Bricks Ltd. Most of the facings shown have been seen before; the manufacturers have concentrated on improving the quality of their bricks rather than extending the range.

47, Victoria Street, London, S.W.1 (Abbey 3891).

E.101**Semtex Ltd.**

Semtex Ltd. is a subsidiary company of the Dunlop Rubber Co. Ltd. and exhibits Semastic, Vinylex, Jointless Fleximers and Dunlop rubber tiles. (For Dunlop studded tiles see The Industry, JOURNAL, July 28, 1955.) There is a choice of colour but most tiles have mottled or marble shades and only a handful of plain colours is available. Semtex House, The Broadway, London, N.W.9 (Hendon 6543).

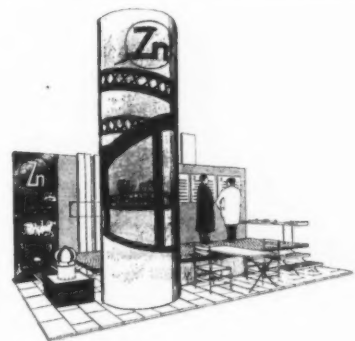
D.76-7**Steel Scaffolding Co. Ltd.**

This scaffolding firm, like many others in the field, has developed uses for its basic product which are distinct from the original use of scaffolding. On this stand can be seen two new forms of roofing framework: space deck units and tubular arched roofing reinforcement. A subsidiary firm, the Warrington Tube Co. Ltd., shows wrought fittings for gas, water and steam services and also such items as heating coils and tubular gates. 82, Victoria Street, London, S.W.1 (Victoria 7453).

D.81**Warerite Ltd.**

Warerite is a familiar name in these days of laminated plastics, and this stand is designed to show the versatility and wide application of the product. Incidentally, if you want to see Warerite panels incorporating a design look at the background panels of the Architectural Press Stand (T355). See pages 649 and 667.

12, Grosvenor Gardens, London, S.W.1 (Sloane 0898).

**D.82****Zinc Development Association**

The Zinc Development Association is a non-trading organization set up by Commonwealth producers of zinc to provide technical advice on the properties of zinc. This year the stand was designed by James Cubitt & Partners, F/A.R.I.B.A., and it illustrates all types of zinc coatings and zinc alloy castings and their various uses in building.

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

Here again is a mixed—but interesting—bag. The Solid Smokeless Fuels Federation (K.223) shows domestic fires for use in smokeless zones and also deals with the problem of fuel stores—a subject which seems popular this year. On two big stands in the section—Unimer's (F.125-6) and Scaffolding (GB) Ltd.'s (F.127)—show prefabricated structures of which steel tubes form the backbone. Three firms with what we may call a particularly good architect record are Janitor Boilers Ltd. (L.247), Adamsez Ltd. (H.180, J.205) and Frenger Ceilings Ltd (G.155). Though only of indirect interest, it is perhaps worth noting that no less than three exhibitors, Kango (H.179), Warsop (K.222) and British Equipment (H.175), show power tools for use on the site.

H.180, J.205**Adamsez Ltd.**

Though there are no new products on this stand, architects will not fail to admire the long line of excellent designs the firm has developed since the war, such as the Bean 15-in. and 22-in. lavatory basin, the Lotus rimless closet pan and the Lotus sink and drinking fountain.

75, Victoria Street, London, S.W.1 (Abbey 5846-8).

G.156**Alabastine Co. Ltd.**

Here are shown the varied uses of Alabastine filler in the building trades. Full information on the uses, sales and manufacture of this filler for plaster and woodwork is available to architects who, the company suggest, "may learn something new" from the display.

Ashmole Street, Clapham Road, London, S.W.8 (Reliance 3220).

H.175**British Equipment Co. Ltd.**

Architects will find plenty of interest in this company's wide range of power tools, designed to speed up building operations of every kind. A portable electric wood plane works ten times quicker than a jack plane; and there is a small electric saw for cutting timber less than 2 in. thick. For operating these other portable electric tools, the company is showing for the first time in this country a portable electric Diesel-run high frequency generator.

Ixworth Place, London, S.W.3 (Kensington 3491-7).

H.178**British Plimber Ltd.**

Half of this stand shows plastic-surfaced Plimberite used as a flooring material. $\frac{3}{4}$ in. boards are nailed over standard joists and the surface waxed. This could be very useful in the covering of large floor areas; and the price is said to be highly competitive with timber. The architect working on factories can also see the use of full-size $\frac{3}{4}$ in. Plimberite roof sections for covering large areas with the minimum of labour. Simple and quick handling is also a virtue of the Plimberite Rebond partitioning system, cut-away sections showing the complete fitting and dismantling process.

19, Albert Embankment, London, S.E.11 (Reliance 4242-3).

L.250**Samuel Denison & Son Ltd.**

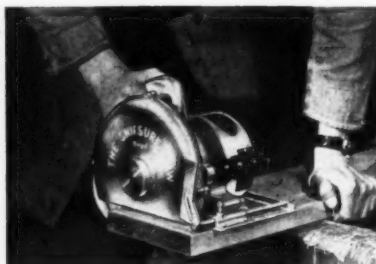
Architects interested in quality control of concrete can inspect here a compression testing machine, specially designed for testing concrete cubes, cylinders and bricks, in capacities from 100 to 300 tons. Controls are remote from the loading unit to reduce shocks to the gauges to a minimum.

Hunslet Foundry, Leeds 10 (Leeds 7-5488).

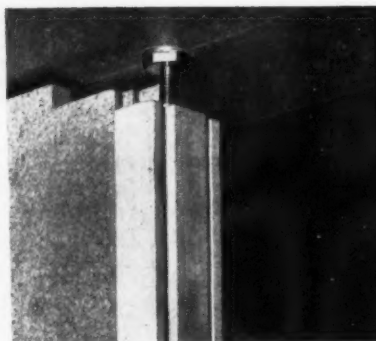
G.152/3**G. H. Downing & Co. Ltd.**

To be seen on this stand are sandfaced tiles in six colours and Red Floor quarries. Colour photographs show the uses of the products of the company's tileries at Stoke-on-Trent, Chesterton, Tunstall, Longton, Madeley and Silverdale.

Brampton Hill, Newcastle, Staffordshire (Newcastle Staffs 65381).



Above: the light Swiftsure saw for cutting timber less than 2 in. thick.



Above: the post and jack used in the Plimberite Rebond partitioning system.

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**G.154****Eastwoods Ltd.**

To be seen on this stand are 10 varieties of the company's bricks, and a photomontage of their brick-making processes. Samples of sand and ballast can also be seen, new double-pan interlocking tiles are included in the display. The stand was designed by Stillman and Eastwick-Field, A/A.R.I.B.A. 158, City Road, London, E.C.1 (Clerkenwell 2040).

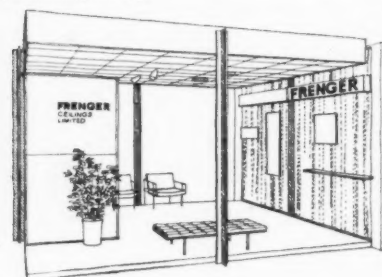
G.157**A. Elder Reed & Co. Ltd.**

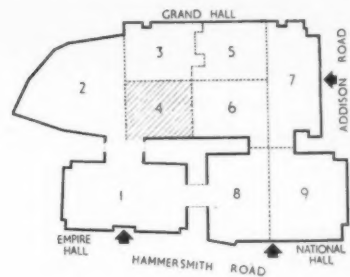
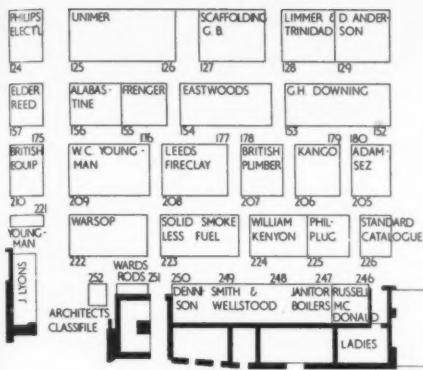
This firm exhibits materials for terrazzo and oxy-chloride jointless flooring. Specimen panels of Italian vitreous glass mosaic for tiling, flooring and decoration are included. The stand designer was Peter Turnbull.

103, Battersea High Street, London, S.W.11 (Battersea 6652-6).

G.155**Frenger Ceilings Ltd.**

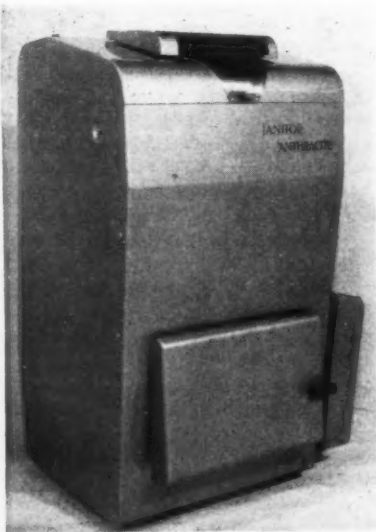
This firm shows its well known heated acoustic ceiling system; 24 in. square aluminium perforated panels are clipped to a grid of pipes and radiate heat from them. Sound waves passing through the panels are absorbed by a blanket above. The stand was designed by Cecil C. Handisyde, A.R.I.B.A. 67, Great Russell Street, London, W.C.1 (Chancery 5534).



**L.247****Janitor Boilers Ltd.**

The company is again showing its solid fuel burning boilers; each are said to need only five minutes attention each day, achieving a thermal efficiency of 75 per cent. For heating and hot water in kitchens and boiler houses, the anthracite-burning Janitor is guaranteed for a year. A newer development is the Cokette—as the name implies a gravity-feed coke-burning boiler. Designed in keeping with modern kitchen units, the Cokette has fuel storage for 16 hours and suggests varying uses for heating and hot water in the smaller home.

Head office and Works, Vale Road, Camberley, Surrey (Camberley 2471-3).



Above: the Janitor Anthracite boiler.

H.179, J.206**Kango Electric Hammers Ltd.**

This firm demonstrates what is described as the most powerful portable electric hammer in the world. For operating on either normal mains electricity or from a small portable generator, the hammer is mainly for heavy-duty concrete-breaking.

Morden Factory Estate, Lombard Road, London, S.W.19 (Liberty 4253-5).

K.224**William Kenyon & Sons Ltd.**

This firm manufactures almost everything to do with insulation. To be seen here is an extensive range of Rocksil, Vermiculite and

Cork materials for thermal and sound insulation. Asbestospray is a fibre insulation for spraying on metal, brick, concrete, wood or stone, and figures in the exhibits. Dukinfield, Cheshire (Ashton-under-Lyne 1614). London office, 50, Bloomsbury Street, W.C.1 (Museum 6363).

H.177, J.208**The Leeds Fireclay Co. Ltd.**

On this stand moulded sections and reeded columns demonstrate how block terra cotta can be worked in with slabwork for various kinds of construction. The company's Imperial porcelain sanitary ware is also on show, and the Lefco acid-resisting tiles are included in the stand, which was designed by A. J. Norcliffe, F.R.I.B.A., A.I.S.T.R.U.C.T.E.

Leeds House, Cavendish Place, London, W.1 (Langham 3511).

F.128**The Limmer & Trinidad Lake Asphalt Co. Ltd.**

To be seen on this stand is a wide range of asphalt floorings, some items of which are relatively new. These include on the one hand industrial floorings—heavy duty, acid-resisting, oil-resisting and compressed rock asphalt tiles—and on the other plain or marbled coloured asphalt floors.

Steel House, Tothill Street, London, S.W.1 (Whitehall 6776).

F.124**Philips Electrical Ltd.**

The stand features the work of the company's lighting design service, which is free to architects and builders. The service offers the co-operation of lighting engineers and architects in planning lighting installations in any part of Britain. Fittings, some lit, which have been used in completed schemes, are displayed.

Century House, Shaftesbury Avenue, London, W.C.2 (Gerrard 7033).

K.225**Philplug Products Ltd.**

New on this stand is the Philplug Studbolt. It is designed for conditions where the depth of concrete calls for limited penetration and consists of a standard set screw, with a collar, lead spreader and a threaded malleable iron wedge. The company is also showing water-proofing bolts used in tunnel segments and similar construction.

Aldbury Lodge, 343, High Road, Wembley, Middlesex (Wembley 2255/7).

F.127**Scaffolding (Great Britain) Ltd.**

Architects must not forget that this firm does not only manufacture scaffolding in the narrow sense.

Exhibited here is the Lattice Shell Roof, designed by Ove Arup and Partners. On other stands are models and photographs of the company's scaffolding and shuttering products.

Mitcham, Surrey (Mitcham 3400).

K.223**Solid Smokeless Fuels Federation**

This non-commercial organization is taking up the very pertinent subject of the storage of fuel in houses and flats (a subject which, readers may remember, was dealt with by the CUC in a handbook published last autumn). The stand shows where to put fuel stores and how to design them; makes recommendations also for their capacities—which we may assume are slightly larger than current usage. Also on the stand is a "live" exhibit of several appliances which have been approved for use in smoke control areas and which are burning away smokelessly.

74, Grosvenor Street, London, W.1 (Mayfair 3327-8).

F.125/6**United Merchants Ltd.**

This two-storey stand is built from the firms' own Unimer tubular steel components. The stand structure accommodates an observation platform, a four-flight steel staircase with tubular balustrade, and a small cinema, for showing films of the Unimer construction system.

418, Strand, London, W.C.2 (Temple Bar 5883).

K.222**Warsop Power Tools Ltd.**

On show here is the Benjo power hammer, which in the narrowest trenches can maintain a constant jumping height all day.

27, Regent Street, London, S.W.1 (Regent 4632).

H.176, J.221**W. C. Youngman Ltd.**

Among the exhibits are roof crawling boards which have been developed to safeguard workmen from falling through fragile roof coverings.

Manor Royal, Crawley, Sussex (Crawley 1234).

This section includes the BSI stand, which this year demonstrates all the published Standards relating to housebuilding. It includes also a formidable array of stands devoted to structural components: Williams and Williams (D.83) and Crittalls (E.98) show curtain walling; William Briggs (B.32, 33) show aluminium decking; Turners Asbestos (C.53, 54) show asbestos cavity decking; Concrete Ltd. (B.31) show a precast concrete plank floor, and ICI (D.86, 87) show the Kynalok secret-fix, aluminium alloy cladding. The Carter Group Stand (D.85) is as entertaining as usual and new products in the section include a precast concrete external boiler flue (True Flue Ltd., A.11) and a range of expanded metal plastering beads (Expanded Metal Co. Ltd., E.95, 96).

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Section

B.32-3

William Briggs & Sons Ltd.

On this interesting stand are the firm's five types of Bitumetal aluminium roofs—three Standard decks and two low-priced Shallow decks spanning up to 10 ft. The Briggs system of Challenge Roofs has not been used much in southern England, though introduced at the last Building Exhibition. It provides for movement in the structure without damage to the roofing felt—thus avoiding blistering and tearing.

London office, Vauxhall Grove, London, S.W.8 (Reliance 5961); Registered office, East Camperdown Street, Dundee (Dundee 8221).

B.34

British Rubber Development Board

The principal exhibit is a system of moulded rubber sheeting for use in casting concrete. Special finishes can be obtained by placing patterned rubber linings in the concrete casting-boxes and peeling the rubber away when the concrete has set. The technique will be further demonstrated in a pre-fabricated, pre-stressed building to be opened at Leigh, Lancs., in December. The stand will also include rubber flooring, floor tiles, latex cement mortars, anti-vibration mountings, rubberised paints, and rubber duct formers.

Market Buildings, Mark Lane, London, E.C.3 (Mansion House 9383).

A.10

British Standards Institution

With new building materials appearing almost every week the case for maintaining a minimum standard cannot be overstated. The BSI have worked for many years to achieve a basis of sound material and workmanship, and their stand shows some of the fruits of their labours. The relation of standardised features to specification is demonstrated by means of a model house and an isometric chart and the British Standard Handbook—without which no office is complete—is on show.

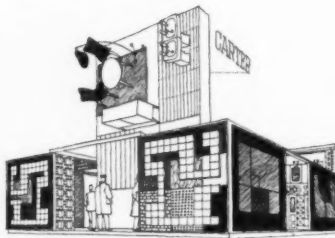
British Standards House, 2, Park Street, London, W.1 (Mayfair 9000).

D.85

The Carter Group

Readers of J. M. Howarth's Bossom paper on tiles (*RIBA Journal*, August and September) will have an opportunity of checking on this stand what exactly is meant by such terms as "tube line decoration" and "the overglaze process." The fact that the firm have employed Gordon Cullen to design their stand for them is evidence, if it were needed, that Carters is a tile firm which is most loyal to good architectural taste. On the stand are examples of imaginative detailing of the use of wall tiles in the three "atmospheres" of factory, pub and home. This stand is a "must."

Address of the London Unit of the Carter Group: Carter and Co. (London) Ltd., 29, Albert Embankment, S.E.11 (Reliance 1471).



A.8

Chubb & Son's Lock and Safe Co. Ltd.

Readers who remember the JOURNAL's ironmongery issue, September 9, 1954, may take the opportunity of checking up on standard fittings. Of special interest—though not new—are devices for locking windows, small safes for domestic purposes (which can be as small as a brick in size) and the plan of a master key system.

175-176, Tottenham Court Road, London, W.1 (Museum 5822-6).

D.84

Colthurst, Symons & Co., Ltd.

This important firm specialises in hand-made tiles, particularly in those of the pantile and double roman types. It is therefore fitting that the *pièce de résistance* on this year's stand should be a complete circular roof in tapering, green glazed tiles as designed for a Royal Palace in Saudi Arabia—just to show what can be done if you try.

Bridgwater, Somerset (Bridgwater 2226-7).

B.31

Concrete Ltd.

All architects should see what advances have been made—even since the last Building Exhibition—in reinforced concrete practice. This is one of the gratifying cases where economy has brought with it greater neatness. The stand shows the Bison plank floor (see the JOURNAL's technical article for September 15), a one-eighth full size model of a precast concrete frame, showing jointing details and photographs showing both manufacturing and fixing methods and details from actual buildings.

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

E.98

Crittall Manufacturing Co., Ltd.

The Crittall exhibit this year is devoted mainly to the Company's glazed walling technique (the Fenestra wall) and to the fenestration of tropical buildings—if "fenestration" is the right word to use when not only windows are meant but also louvres and flyscreens. Among more homely exhibits are an interesting "projected" window—a centre-hung, ventilator-type which, when opened, slides down (or up) and out and does not project backwards into the room, and a splendid purpose-made aluminium double-hung sash.

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

C.48

Drew, Clark & Co. Ltd.

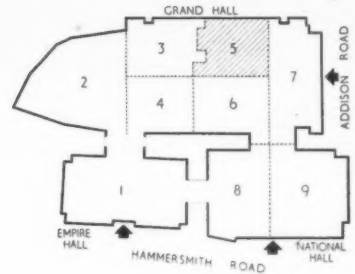
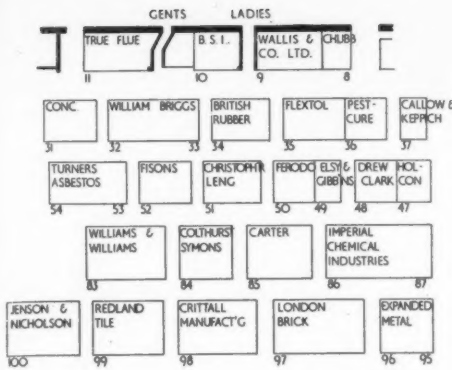
This old-established firm of ladder makers are of interest to architects mainly on account of their Rap-Rig timber scaffolding, which is much in demand for inside painting contracts. Remembering how much time and money scaffolding can run away with in jobs of this kind, architects might well take note.

"Diamond" Patent Ladder Works, London, E.10 (Leytonstone 2246).

E.95, 96

Expanded Metal Co. Ltd.

Though it is only a "detail," one of the most interesting exhibits on this stand is Expamet angle bead, with its associated units Expamet casing bead and screed bead. It has long been the practice in the north of England to use some form of beading on the angles



of plaster work, but in the south, for some unspecified reason, plasterers have generally used Keynes cement. The use of beading is surely the better practice as it serves as a template at the same time. These are fully described on Information Sheet 26.K1, published in the JOURNAL, March 31. Also on show are the various forms of expanded metal which have been designed for use in positions where they are open to view, such as Flattened Expamet, Safemesh Expamet and Expamet Expanded Aluminium. *Burwood House, Caxton Street, London, S.W.1 (Abbey 3933).*

C.50

Ferodo Ltd.

Architects who wish to know what is new on this stand could not do better than turn up the new Ferodo Information Sheet 19.Z11 which gives all the new metal nosing profiles. Perhaps the most significant addition to the range is the introduction of two more luxurious metals than the standard aluminium—manganese bronze and silver bronze. *Chapel-en-le-Frith, Derbyshire (Chapel-en-le-Frith 2520).*

C.52

Fisons Ltd., Brick Department

This stand shows admirable restraint, being confined to two large expanses of brickwork showing Burwell White Gault and Burwell Foundation Gaults. *Harvest House, Felixstowe, Suffolk (Felixstowe 1441).*

D.86, 87

Imperial Chemical Industries Ltd.

Five divisions of this great backroom boy of the building industry are exhibiting, but since the divisions do not as a rule market the products they develop, there are none here which are being shown for the first time. New since the last Building Exhibition, however, is Kynalok secret-fix aluminium alloy cladding. Developed by the Arcon Group, of which ICI is a member company to which A. M. Gear (F.R.I.B.A.) and Rodney Thomas (A.R.I.B.A.) are consultants, Kynalok set out to remove from aluminium sheeting all associations with corrugated iron. The Nobel Division shows silicone water-repellant resins which have the great merit of remaining invisible. The Paint Division shows the Dulux and Dulite ranges and the Plastics Division shows cor-

rugated Perspex and Alkathene cold water pipes.

I.C.I. Ltd., Imperial Chemical House, Millbank, London, S.W.1 (Victoria 4444).

E.100

Jenson and Nicholson Ltd.

Architects interested in the complementary problems of colour standardization and paint supply—see the DSIR stand—will want to see this, one of the most comprehensive ranges in the industry, with 999 colours in Robbialac paints supported by 99 pastel shades in the Robbialac Colorizer (Emulsion) paint.

Jenson House, Carpenter's Road, London, E.15 (Maryland 4567).

C.51

Christopher Leng & Sons, Ltd.

This stand shows the firm's large range of paint brushes.

Hazelwell Brush Works, Birmingham 30 (Kings Norton 1101).



E.97

London Brick Co. Ltd.

The main part of this exhibit is a life-size fragment of a typical multi-storey framed structure showing Phorpres bricks and hollow clay blocks used in external panels and floors. Architects who calculate their brickwork will be interested to see a 200-ton compression-testing machine at work, testing the strength of bricks, blocks and whole sections of brickwork.

The stand was designed by J. R. Harris, A.R.I.B.A.

Africa House, Kingsway, London, W.C.2 (Holborn 8282).

B.36

Pestcure Ltd.

This, the ground floor stand of this firm (there is another in the gallery) shows photographs of the work the firm is carrying out at Westminster Abbey—doubtless under the eye of S. E. Dykes Bower, F.R.I.B.A., architect to the fabric. On sale at this stand is a special preserving polish which is being used on the Abbey timbers.

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

E.99

Redland Tiles Ltd.

The most interesting exhibits on this stand are the firm's interlocking tiles, Redland 49 and Redland 50. Interlocking may be said to be the tile-making industry's chief contribution to rationalization, permitting as it does a really important reduction in weight—the chief drawback in this, the most well-tested of roofing materials. *Moorhouse, near Westerham, Kent (Westerham 3206).*

A.11

True Flue Ltd.

During the past few years this firm has been building up a wide range of pre-cast units made of refractory concrete for forming flues. A new addition to the list is a 7½-in. internal diameter external boiler flue which has been designed particularly for building additional flues in existing buildings. Full details of this product can be seen in Information Sheet 30.C4 published in the JOURNAL on October 20, 1955.

Convecter House, Acacia Road, London, N.W.8 (Primrose 7161-2).

C.53, 54

Turners Asbestos Cement Co. Ltd.

The newest product on this stand is the Turnall 2-ft. square asbestos insulation board ceiling panel. Also on show is a wide range of Turnall and Everite products including asbestos cement cavity decking and flat roofing tiles, Poilite fluted and ribbed sheets and a range of asbestos-cement non-corrodible cold-water storage cisterns.

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

D.83

Williams & Williams Ltd.

This stand, designed by Yorke, Rosenberg and Mardall, F/F/A.R.I.B.A., comprises a framework of Wallspan curtain walling into which has been fixed a spectacular "special" in the form of an aluminium "awning" window as supplied to the Central Hospital at Lima, and several new additions to the firm's range. These last include a horizontal sliding window, double hung sashes which use the Wallspan mullions as a fixed frame and two double glazed pivoted windows.

Victoria House, Southampton Row, London, W.C.1 (Holborn 9861).

If the only spectacular stand in this section is that of Pilkington Bros. (F.133), who show the nearly-all-glass scheme for Soho thought up for them by G. A. Jellicoe, F.R.I.B.A., Edward Mills F.R.I.B.A. and Ove Arup, there is a fair amount of detailed interest: E.J.M.A. (F.131) show standard casements for double-glazing; Expandite (K.227) show a gun kit for shooting their sealing compound into joints; Bellrock (K.229) have improved the profile of their storey-high partitions; the Bolton Gate Co. (H.184, J. 201) exhibit a toughened-glass door, opened and shut by electronics, to separate kitchens from dining-rooms; and Colt (K.231) show a two-way fan. Among products which are new are Pilkington's Muroglass, a coloured glass cladding (F.133), the Cement Marketing Co.'s new paint Sandtex, sold in paste form (F.130), and Sealdraught's Stick-a-seal, plastic foam weather strips (L. 245).

K.229**Bellrock Gypsum Industries Ltd.**

Bellrock have developed their prefabricated plaster partition panels with new improved edge profiles so that the panels are now fully interlocking and easily dismantled without damage. The whole system and its application to building will be demonstrated on the stand. It represents an important step in economic and speedy erection technique.

200, Westminster Bridge Road, London, S.E.1 (Waterloo 3461-5).

H.184, J.201**Bolton Gate Co. Ltd.**

This firm shows a toughened glass door controlled by a photo-electric cell. Bolton Gate Company suggest that such a door would be most useful as a connecting door between kitchen and dining rooms. Two other new doors are shown, the Dryvin, an automatic opening and closing side-hung door, and the Multi-panel sliding door of 20-gauge Zintec panels, specially designed to negotiate very small radii.

Waterloo Street, Bolton, Lancs (Bolton 4240).

H.185, L.200**Frederick Braby & Co. Ltd.**

Braby's cover the entire field of metal-clad structures, though their Wallstruct curtain walling is perhaps not so well known as others. It consists mainly of 4-in. deep aluminium extrusions designed for insulated dado panels and Insulight glazing with cleaning from the inside. The stand was designed by Ronald Dickens, M.B.E., F.S.I.A.

352-364, Euston Road, London, N.W.1 (Euston 3456).

**F.130****The Cement Marketing Co. Ltd.**

The exhibits on this stand, which was de-

signed by Kenneth Bayes, F.R.I.B.A., of Design Research Unit, cover only a fraction of the field served by Blue Circle products. The latest development here is Sandtex, which will be marketed shortly and could be used for many outside painting jobs. It will be supplied in paste form, requiring only the addition of water to form a paint. Portland House, Tothill Street, London, S.W.1 (Abbey 3456).

K.231**Colt Ventilation Ltd.**

Colt Ventilation Ltd. have produced a two-way fan (see The Industry, JOURNAL, June 16, 1955), and are showing it as the main exhibit on their stand. It provides extract and inlet at the same time, but is still comparable in size and capacity to its predecessors.

Surbiton, Surrey (Elmbridge 6511).

H.183, K.202**English Clock Systems Ltd.**

At the English Clock's stand you will learn, amongst other things, that a master clock in BOAC Headquarters at London Airport controls no fewer than 200 slave clocks and 16 solenoid-operated autoprnt Mark II time recorders. A range of small domestic clocks is also on show.

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

F.131**The English Joinery Manufacturers' Association**

This double-decker stand was designed by Thomas Sibthorp, F.R.I.B.A. EJMA Standard windows include a new range of Landscape Windows and a new section to accommodate patent double glazing units. The Landscape Windows follow the general size range of standard windows, omitting the mullions to give an unobstructed view.

In addition, an all-purpose sink unit has been developed to incorporate stainless steel, vitreous enamel or porcelain sinks.

Sackville House, 40, Piccadilly, London, W.1 (Regent 4448).

K. 227**Expandite Ltd.**

Joints are usually the first weak points in any structure and Expandite specialize in sealing joints, particularly those subject to

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some movement. The highlight of their display is the new Handiseal Gun Kit. This has been produced to meet the needs of the smaller user of "Seelastik," the all-purpose flexible sealing compound.

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

L.241**Fibreglass Ltd.**

Thermal and acoustic insulation media manufactured by Fibreglass are familiar to most people concerned with building. Their properties can be seen on Information Sheet 8.E1, JOURNAL, January 20, 1955, and the application of Fibreglass to domestic attics or roofs is demonstrated on the stand. A bitumen-bonded Fibreglass has been developed for structural use in walls, floors, etc., and being 100 per cent. glass is rot-proof and fire resistant.

Ravenhead, St. Helens, Lancs (St. Helens 4224).

L.244**Gulf Radiators Ltd.**

This firm show their column and panel type hot water radiators, and the parent company, Hursel Ltd., demonstrate oil-filled radiators of $\frac{1}{2}$ to 2 kW. ratings. With the accent on safety, a flame-proof head can now be attached to electric radiators for an extra £5—tax free where regulations demand its inclusion.

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

G.149**Gyproc Products Ltd.**

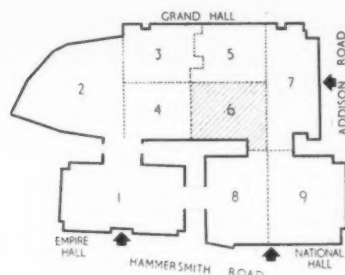
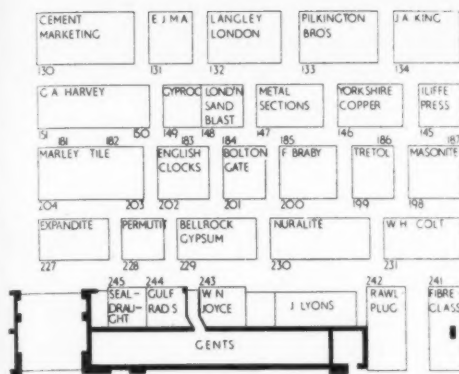
Gypsum building products are the main exhibits on this stand, the most advanced one being Gypunit panels, consisting of plaster-board faces with a cellular core.

Singlewell Road, Gravesend, Kent (Gravesend 4251-4).

G.150/1**G. A. Harvey & Co. (London) Ltd.**

The most interesting exhibit here is a new manhole and cover for hot water cylinders, cutting out hemp, red lead and other jointing material and also preventing the threads of bolts coming in contact with the water.

Greenwich Metal Works, London, S.E.7 (Greenwich 3232).

**F.134****J. A. King & Co. Ltd.**

To illustrate fully the potential uses of Glascrete, J. A. King & Co. exhibit a pre-cast concrete window frame on their stand. This window frame is being used in the external cladding of the new Harrow Technical College, and is yet another instance of how the building industry is gearing up to off-site fabrication. Glascrete, of course, is a familiar name in pavement lights, and various uses and adaptations of the system are again shown.

181, Queen Victoria Street, London, E.C.4 (Central 5866).

F.132**Langley London Ltd.**

The pierced ceramic screens which have long been associated with foreign magazines and all the glamour of the south are now being marketed by Langleys. Originally designed to break the sun's rays, they are now shown as possible decorative screens, etc. In addition the Langley stand includes roofing tiles, floor and sill tiles, and glazed ceramic wall facings.

163-5-7, Borough High Street, S.E.1 (Hop 4444).

G.148**The London Sand Blast Decorative Glass-works Ltd.**

Architects can here see glass-work techniques such as brilliant cutting, acid etching, sand-blasting, coloured silvering and ceramic enamelling applied to such situations as mirrors, balustrade and cash desk panels, fascias and bank screens.

Seager Place, Burdett Road, London, E.3 (Advance 1074).

H.181/2, J.203/4**The Marley Tile Co. Ltd.**

Roof tiles were the early products of the Marley Tile Co. and it is fitting that they should hold pride of place on the company's stand. Since the production of roof tiles the firm has followed up with a wide range of flooring tiles, finishes, etc., and gone on to such things as Marlite coloured concrete paving slabs, Marley garages and industrial buildings. Finally Marliith wood wool slabs and Marleythene plastic tubing complete the comprehensive products of a very comprehensive company.

London Road, Riverhead, Sevenoaks, Kent (Sevenoaks 2251-8).

H.187, J.198**Masonite Ltd.**

The Anglo-Swedish firm of Masonite have been making hardboards since their introduction to the building industry and this year are showing three new variations of Masonite. The most interesting of these is Enamelled Presdwood Perforated Board, where 5 mm. holes are made in a stove-enamelled plastic melamine finished Masonite Board.

Bevis Marks House, London, E.C.3 (Avenue 2846).

G.147**Metal Sections Ltd.**

Metsec is a new prefabricated building technique developed, after 25 years' experience of cold rolled sections, by Metal Sections Ltd. This system, in which three-pin arches are factory-made in four parts, was recently used on a large warehouse in the north. The whole building, covering over $\frac{1}{4}$ million sq. ft., was completed in less than 14 months.

Oldbury, Birmingham (Broadwell 1541).

K.230**Nuralite Sales Ltd.**

Based on an asbestos bitumen core, Nuralite can be bent to almost any shape with the aid of a blowlamp, and is proved as a substitute for lead and copper flashings and roofs.

3-4, Whitehall Place, Gravesend, Kent (Gravesend 4911).

K.228**The Permutit Co. Ltd.**

This stand is of particular interest to visitors from the chalk districts. There, with the ever-present problem of hard water, a water-softener is still something of a luxury, and Permutit have devoted their display to smaller domestic softeners.

Permutit House, Gunnersbury Avenue, London, W.4 (Chiswick 6431).

F.133**Pilkington Bros. Ltd.**

Some time ago G. A. Jellicoe, F.R.I.B.A., Edward D. Mills, F.R.I.B.A., and Ove Arup were invited by Pilkington's to redesign Soho as it might appear in A.D. 2000. The resultant world of glass envisaged by this group is shown in model form on the double-decker Pilkington stand. Also shown is a new

coloured surface glass cladding known as Muroglass. This should prove of interest to architects who want panels of colour on their elevations.

London office, Selwyn House, Cleveland Row, S.W.1 (Whitehall 5672).

L.242**The Rawlplug Co. Ltd.**

Nearly 30 years ago Rawlplugs were introduced as permanent fixing tubes in masonry, and their use is now more widespread than any other product of their kind in the world. Their excellence is proved by the fact that they remain unaltered. Side by side with the development of Rawlplug fixing devices, there has also grown a wide range of tools for making holes, the latest of these being the durium-tipped drill for use in a hand or electric tool.

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

L.245**Sealdraught Ltd.**

Sealdraught Ltd., the draught-proofing side of the Hursel Group, undertake to make almost any building-draught-proof and, in addition to the familiar sprung-bronze weatherstripping, a "do-it-yourself" plastic foam weatherstrip is introduced.

Chandos House, Buckingham Gate, S.W.1 (Abbey 357).

H.186, J.199**Tretol Ltd.**

Tretol are especially prominent in this Exhibition: on the second floor of the Empire Hall are the entries for the Tretol-sponsored competition, "The House for the Professional Man" (see page 650) and on the main stand in the Grand Hall is a comprehensive range of the firm's waterproofing solutions. With these solutions is Tretol Anti-Freezer, which "enables bricklaying to continue even in deep frost."

Tretol House, The Hyde, London, N.W.9 (Colindale 7223).

G.146**Yorkshire Copper Works Ltd.**

One of the main exhibits on this stand is Polyorc A polythene tubing. But copper remains the chief concern of the firm and on the rest of the stand you will find such traditional items as copper fittings, tubes and waste pipes.

Leeds (Leeds 7-2222).

One interesting stand in this section is that of Cape Asbestos (C.42), who show a removable suspended ceiling of Asbestolux, with four hours' fire protection, for use on very tall buildings. Henry Hope & Sons show their Windogrid curtain walling and also an exceedingly comprehensive selection of new tropical window and door gear on D.90-91. Gardiner of Bristol show their Thermagard Mark III prefabricated school construction on D.89, and Esavian show a vertical folding-and-lifting aluminium door for the larger types of garage on B.40. The Tomo wood windows on the Stramit stand (L.237-8) are always worth seeing and, to turn to heating equipment, Copperad Ltd. (C.44) have redesigned their convector heaters, and Aga Heat Ltd. (A.5-6) have a new model solid-fuel boiler which will heat a 30-50 gallon cylinder and provide 75 sq. ft. of radiator surface.



A.5/6

Aga Heat Limited

In their model 30/80 boiler, Aga have tackled the pressing problem of small to medium size houses requiring constant hot water and some central heating. This boiler will heat a 30-50 gall. cylinder and maintain 75 sq. ft. of radiating surface. It is equipped with the Aga-type thermostat temperature control and the Aga circular grate, and is demonstrated in a typical domestic layout. In addition, the complete range of Agamatic boilers is on display, and the Model CB is spotlighted as an economical cooker and water heater. The stand was designed by Arthur Braven, A.R.I.B.A.

Showroom, 20, North Audley Street, London, W.1; Offices, 30, Orchard Street, London, W.1 (Mayfair 8454).

C.46

Armstrong Cork Co. Ltd.

The two-storey Armstrong Cork stand was designed by Beck and Pollitzer to house the firm's flooring products. The latest additions to these is a vinyl asbestos Accoflex tile, the Accoflex inset tile and some improved adhesives. The inset tiles depict animals, numbers and special motifs, and can be cut to individual requirements.

Flooring Dept., Bush House, Aldwych, London, W.C.2 (Covent Garden 1101).

A.1

Berry Wiggins & Co. Ltd.

The Berry Wiggins stand takes as its theme "Bitumen in Building" and displays three new bitumen-based products: a plaster mix emulsion for waterproofing gypsum plasters, a bitumen emulsion for vermiculite/concrete screeds, and Kingsnorth 1752A—a jointing compound for curtain walling. The better known Aquaseal and Tensulac paints and adhesives made by the company are also on show.

Field House, Brems Buildings, Fetter Lane, London, E.C.4 (Chancery 4499).

E.94, 95

British Plaster Board (Manufacturing) Ltd.

This stand (the firm have another in section 10) demonstrates the use of Paramount dry partitions as an internal lining to curtain walling, and Gypsum Plaster Board as a fireproof lining. Technical films are being shown on the Company's Section 10 Stand (626/7).

Bath House, 82, Piccadilly, London, W.1 (Grosvenor 8311).

E.93

Bryce, White & Co. Ltd.

This stand is made from the Company's products and shows a variety of doors, mouldings and wallboards. Bryce White, who also import hardboards and are the main distributors of Weyroc, devote part of their stand to these materials.

Deseronto Wharf, Langley, Slough, Bucks (Langley 232).

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B.38

Cafferata & Co. Ltd.

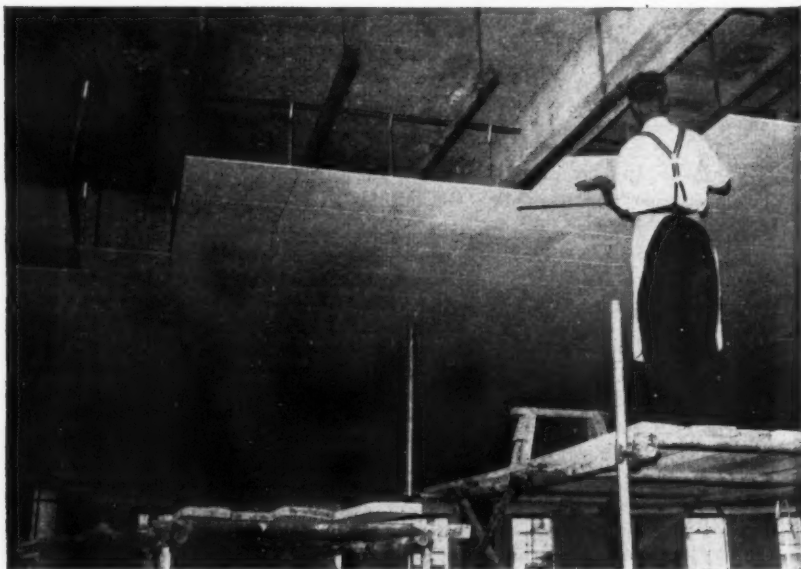
Cafferata, who obtain their gypsum rock from the nearby Hawton Quarries, exhibit Murlite plaster (compounded Murlite and Perlite to give lightness) and Thistle acoustic plaster which has good sound absorption. Newark-on-Trent, Notts (Newark 2060).

F.137, 138

Candy & Co. Ltd.

On view for the first time at the Exhibition is the Devonair Fire made by Candy & Co. A raised hearth provides space for under-draught, damper and built-in gas fire lighter, and the fire-back is designed to throw the heat forward and downward. A detachable front plate is available for overnight burning.

Heathfield, Newton Abbot, S. Devon (Bovey Tracey 3141).



Above: fitting an Asbestolux fire-resisting ceiling.

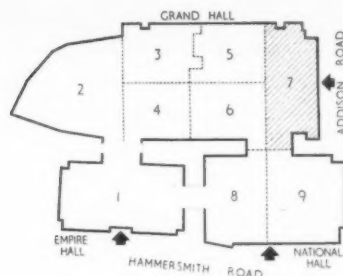
C.42

The Cape Asbestos Co. Ltd.

The Cape Asbestos Co. Ltd. use their stand for showing the fire protection properties of their asbestos insulation board Asbestolux. Of special interest is a mock-up of detailing from some four-storey blocks in the LCC Picton Street Scheme, which obtained a significant waiver from the fire

regulations, permitting outside/inside fire protection alone. A second exhibit shows the company's contribution to the design of very high buildings, namely, a removable, suspended ceiling, which has recently passed a four-hour fire-protection test at the Fire Research Station.

114-116, Park Street, London, W.1 (Grosvenor 6022).



section 7 continued overleaf

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Section 7

H.189 and J.196**Lead Sheet and Pipe Council in association with The Lead Development Association**

This stand was designed by John Pinckheard, A.R.I.B.A., and amongst general lead exhibits shows the model for Epstein's Madonna and Child. At a technical information bureau on the stand you will get answers to questions on lead specification in building. Prize-winning lead-work exhibits from technical schools are on view.

Eagle House, Jermyn Street, London, S.W.1 (Whitehall 4175).

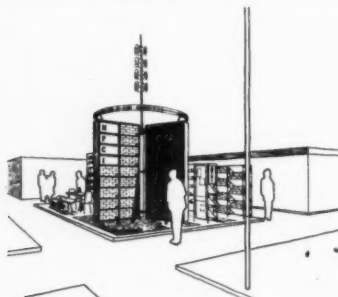


its penetration is said to be such that pressure impregnation is unnecessary. The stand was designed by Antony Gregory, A.R.I.B.A. *Richford Street, London, W.6 (Shepherds Bush 4461).*

K.235**H. C. Slingsby Ltd.**

Slingsby products range from six-wheeled trucks to sliding stairways, but the latter are perhaps more familiar to the building industry. They are on show and demonstrated throughout the period of the Exhibition.

Kingsway, London, W.C.2 (Holborn 2707).

**D.88****National Federation of Clay Industries**

Alan Mason, who won first prize in a stand competition at the Regent Street Polytechnic, developed his design for the Federation in association with C. C. Handisyde, A.R.I.B.A. The stand is devoted to bricks, clay roofing tiles and clay floor quarries, contributed by makers from all over the country. *Drayton House, 30, Gordon Street, London, W.C.1 (Euston 2568).*

H.188**Noelite Ltd.**

Noelite is a precast concrete paving slab, with a non-slip surface. The exhibition shows its use on terraces, housing scheme paths, etc., in conjunction with dwarf and boundary walling.

Noelite Works, Borough Green, Kent (Borough Green 137).

F.139**William Oliver & Sons Ltd.**

Olivers, who have specialized in English oak for over 150 years, show four English oak butts which will be later sawn through for boards or will be converted to Wainscot Billets. In addition to English oak, sample panels of 30 hardwoods imported by the firm are displayed.

12-13, Bow Lane, London, E.C.4 (City 3335).

H.191**Sealocrete Products Ltd.**

Sealocrete products in general aim at impregnating concrete floor finishes and masonry, and a number of new compounds have been developed to supplement the already wide range. Perhaps the most interesting newcomer is Scaloplas flooring, a plastic, rot-proof, flame-proof flooring which can be laid on concrete and should be left to harden with Sealocrete Floor Sealer for a week before use.

Atlantic Works, Hythe Road, London, N.W.10 (Ladbroke 0015-7).

**G.142****Secomastic Ltd.**

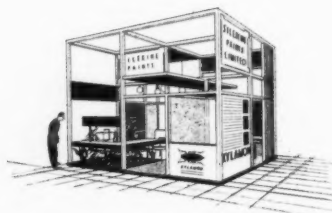
On this stand, designed by Dewar-Mills Associates Ltd., are shown the uses of Secomastic and of Galvafrond, a zinc rich paint for protecting iron and steel. A new light-weight skeleton gun has been developed to apply Secomastic and the use of mastic in the various types of curtain walling is demonstrated.

Western Road, Bracknell, Berks. (Bracknell 910-4).

B.39**Shanks & Co. Ltd.**

All the vitreous china products on this stand are available in five colours and include familiar designs for wash-basins, w.c. fittings, etc.

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

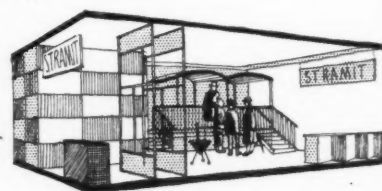
**C.43****Silexine Ltd.**

Silexine are better known as paint manufacturers specializing in stone paints, gloss paints and emulsion paints. The company are now introducing Silexine Water Repellent, a silicone masonry waterproofer, and Xylamon, a timber preservative. Xylamon has been widely used on the continent and

E.92**The South Eastern Brick & Tile Federation**

Products of most of the brick and roofing-tile works of the south-east are shown on this stand. The exhibit—designed to form a reference library for architects and contractors—contains 87 types of facing-brick, varying from hand-made to plastics machine-made bricks.

20, Southampton Place, London, W.C.1 (Chancery 7891-2).

**L.237/8****Stramit Boards Ltd.**

Chief exhibits on this stand are Stramit insulation board and Tomo double-glazed windows. Some 20,000 tons of Stramit boards are made each year, and Tomo windows, with the well-styled Fix ironmongery, are in wide demand. These windows can be made to many sizes, but Tomo sections must be used throughout. The stand was designed by June Park, A.R.I.B.A.

Packet Boat Dock, Cowley Peachey, Uxbridge, Middlesex (West Drayton 3021).

F.135**The Sussex & Dorking United Brick Co., Ltd.**

The main structure of this stand (designed by Lanchester and Lodge, F/R.I.B.A.) incorporates a complete range of the bricks produced in the factories of the group in the south east. On show also are some moulded clay units for building into screens and the firm announce some "recent developments in colour to meet modern trends." *Graylands, Horsham, Sussex (Horsham 2351).*

Though the main timber exhibits are upstairs in section 13, the TDA have a stand down here (P.299) on which the most interesting exhibit is the Scandinavian HB system of timber trusses. Next door is the Copper Development Association, (Q.307) who give useful information on copper finishes. Readers who read but did not understand our electrical issue (November 18, 1954) may learn about metal clad distribution systems on the GEC stand (N.276). Items of structural interest are Universal Asbestos' insulated hollow decking (O.283) and John Ellis' aggregate finishes for precast cladding units (O.284). For good-looking equipment see Shires' w.c. cisterns (N.277), Stelrad radiators (P.301), Dryad door and window furniture (Q.303), and most interesting of all, the Storemaster kitchen cabinets to be seen on Froy's stand (Q.304-5). The plan for section 8 is overleaf.

The Building Exhibition

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THE NATIONAL HALL

8

Section

T.355

The Architectural Press Ltd.

On the stand of the Architectural Press, publishers of the JOURNAL and the Architectural Review, are several important new books just published, including *Italy Builds*, by G. E. Kidder Smith (56s.), *Specification 1955* (30s.), *Architects' Working Details III*, edited by D. A. C. A. Boyne (21s.), and an illustrated survey of some of the more interesting post-war houses—*50 Modern Bungalows*, by Felix Walter (18s. 6d.). Also on show are other AP books, current periodicals and AJ Information Sheets. The stand by Dewar-Mills Associates Ltd. (Assistant: Bryan Spearpoint) includes a mural by Gordon Cullen of the firm's offices in Queen Anne's Gate (see pages 649 and 669). 9-13, Queen Anne's Gate, London, S.W.1 (Whitehall 0611).

N.272

Ascot Gas Water Heaters Ltd.

This stand, which was built to the winning competition design of Dennis E. Pugh, A.R.I.B.A., (see JOURNAL, August 4), illustrates the wide use of Ascot water heaters in new housing and improvement schemes. Spot-lighted are the Ascot 715 Balanced Flue multipoint water heater and the Ascot Jigged Wall Fitting, of which more than 100,000 have already been installed. There is no visible flue in the 715, and the flue terminal can be fitted anywhere on an outside wall, regardless of corners or overhanging projections such as balconies or eaves. 255, North Circular Road, London, N.W.10 (Willesden 5121).

N.274/275

Associated Building Construction Developments (Raynes Park) Ltd.

This firm, which specializes in prefabricated buildings of r.c. panel and post construction, exhibits the Alborough precast concrete garage fitted with a new up-and-over door. 34-5, Alpha Road, Surbiton, Surrey (Elmbridge 6591.)

N.278

Bachrich Patents Ltd.

On this stand you can see an electric timber-drying kiln in action. 217, Harrow Road, London, W.2 (Cunningham 7736.)

Q.303

A. J. Binns Ltd.

Most interesting on this stand is the admir-

able Dryad range of door and window furniture and the cloakroom equipment—a hitherto neglected branch of ironmongery which is now beginning to show the influence of architects' development groups.

29, Store Street, London, W.C.1 (Museum 5802.)

T.353

Briton Brush Co. Ltd.

This company, which has been making brushes for 200 years, is now producing a paint brush made of black and grey tapered-nylon, in addition to its traditional stock. London office, 32, Haymarket, S.W.1 (Whitehall 3049).

Q.307

Copper Development Association

This stand (designed by A. L. McMullen, F.R.I.B.A.) offers useful evidence on a subject which has been much neglected of late: metal finishes. You can see here such effects as satin finish on copper, brass and nickel silver; green patina and brown bronze on gilding metal, and black bronze and steel bronze on brass. You can also see models of the single-stack and one-pipe systems in copper.

Kendals Hall, Radlett, Herts (Radlett 5616).

O.284

John Ellis & Sons Ltd.

Newest here is an interesting range of exposed aggregate finishes, a product for which the firm's long experience in producing reconstructed stone should make them particularly adept. Also to be seen are various applied finishes—Emalux, Novalux (used on the London Airport tunnel), and Ellicem Stone Paint—and a selection of paving slabs and kerbs. 21, New Walk, Leicester (Leicester 56682).

R.327/8

English Fireplaces (Galleon) Ltd.

Don't miss the fireplaces manufactured "in smooth finish which, whilst giving the antique appearance of the Rustic Fireplace, can be easily cleaned and polished." Britannic Works, Haslemere Avenue, London, S.W.18 (Wimbledon 8080).

R.329

T. & W. Farmlow Ltd.

A superb swatch book for the 101 Standard Colours in Nine Elms Paint is just out. New

products include a power-driven paint roller, which should cut down cost of paint contracts, and a new metal-casement putty. Rochester Row, London, S.W.1 (Victoria 4480).

T.354

Finlock Gutters Ltd.

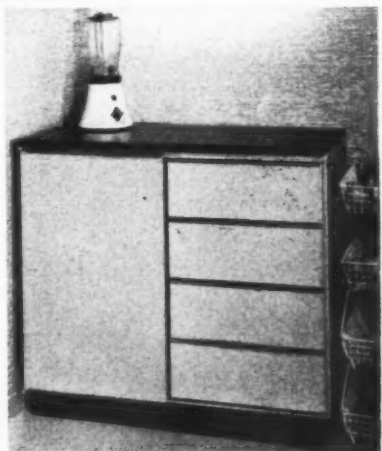
This firm has long pioneered in the rationalization of traditional building eaves. It is an excellent idea to form the gutter in precast concrete units which can be laid by the brickie and will last as long as the wall; and it is better still when this same unit can be used to form a reinforced-concrete lintel. The latest developments of this idea are a sprocket unit (see Information Sheet 20.D1, published in the JOURNAL on September 16, 1954) and a new service for supplying and fixing an aluminium, hot-bitumen lining. Finlock House, 25, Frant Road, Tunbridge Wells, Kent (Tunbridge Wells 3396).

Q.304/5

W. N. Froy & Son Ltd.

One exhibit promises to be of first-rate interest to architects: a range of kitchen cabinets designed by Clive Entwistle. These are admirable to look at (eschewing so-called "housewife taste") and have at least two points in their manufacture which make them of great technical interest. Brunswick Works, King Street, London, W.6 (Riverside 4101).

Below: The kitchen cabinet designed by Clive Entwistle.



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Section 8

N.276

General Electric Co. Ltd.

This company, which is exhibiting for the first time at the Building Exhibition, devotes a large part of its stand to the subject of metal-clad distribution systems. It shows, for instance, a vertical rising-main busbar system designed for large office or flat blocks. Architects who have firmly closed their minds against understanding the electrical niceties can hardly fail to be concerned in the relation between this equipment and the structure, and in types of underfloor duct and overhead busbar trunking. Also of special interest on the stand are Nightstor storage heaters for cashing in on night tariff rates.

Magnet House, Kingsway, London, W.C.2 (Temple Bar 8000).

S.335/336

The Gypsum Mines Ltd.

A new lightweight plaster, Siralitag, can be seen here. Composed of hemi-hydrate plaster and exfoliated vermiculite, it has been developed to give thermal insulation and sound absorption. You will also find on the stand instruction on using the firm's different plaster products on different backings.

Mountfield, Robertsbridge, Sussex (Robertsbridge 80).

S.338

Kerner Greenwood & Co. Ltd.

This exhibitor shows the uses of Pudlo cement waterproofer and Fensol refractory cement.

Kings Lynn, Norfolk (Kings Lynn 2253).

O.279

Lawler Ayres & Co. Ltd.

You can see here a new machine for bending pipes, a really accurate tile-cutter and a device—not unlike a fret-saw—for cutting holes in metal plates.

Broad Street House, 54, Old Broad Street, London, E.C.2 (London Wall 6331).

P.302

Revol Ltd.

This exhibitor shows a new brand of lubricant for site contractors who have a lot of heavy machinery exposed to the weather.

Exchange Buildings, Quayside, Newcastle-upon-Tyne, 1 (Newcastle 21841).

O.282

Road Machines (Drayton) Ltd.

This will interest architects who want to know more about site operations. There is a Monorail concrete transporter on the stand and a scale model showing it busy on different types of construction work.

West Drayton, Middx. (West Drayton 3221).

Q.308/9

The Ruberoid Co. Ltd.

New here is the embossed form of Ruberoid Aluminium Roof Deck. It is being shown alongside the firm's steel deck which—surprisingly enough—has now been in existence for 25 years. On show also are large-scale models of built-up roofing specifications, and one showing an economical method of repairing cracks and potholes in stone and concrete.

1-19, New Oxford Street, London, W.C.1 (Holborn 8797).

N.277

Shires & Co. (London) Ltd.

This firm shows a magnificent selection of w.c. cisterns in black plastic and white and coloured earthenware, including such refinements as the Reverso cistern which enables low-level cisterns to be fixed at no more expense than high-level ones, and the Kingfisher polythene syphon-mechanism, which is used in all models. A separate and no less interesting exhibit is Shirene alkathene tubing and all its attendant details.

Greenbottom Works, Guiseley, Yorks. (Guiseley 1041-5.)

S.334

Successors to Shapland & Pettey Ltd.

This firm specializes in flush doors and flush veneered panelling and apart from the usual samples of veneers shows a number of lightweight and special-purpose doors.

Rayleigh Works, Barnstaple, N. Devon (Barnstaple 4306-8).

S.332

E. Sherry Ltd.

This stand gives a good idea of the service of a big firm of timber importers. Most of the 65 different kinds of timber stocked are shown, and there is a special flooring exhibit and an account of the protection afforded by Celcure pressure impregnation.

Homerton Bridge, London E.9 (Amherst 1121.)

P.301

Steel Radiators Ltd.

This is an interesting stand, particularly since it has now been established that pressed steel is a better material for radiators than cast iron, as its low thermal capacity allows a quicker response to thermostatic control. This particular range is seemly and there appears to be a model to fit any reasonable wall space.

Stelrad Works, Bridge Road, Southall, Middx. (Southall 2603).

R.326

Stephens & Carter Ltd.

This firm manufactures builders' plant with a bias towards the painting and decorating trades. Of interest to architects is a new product, the Thompson Cornermaster Mark II, an ingenious gadget for lining out brickwork.

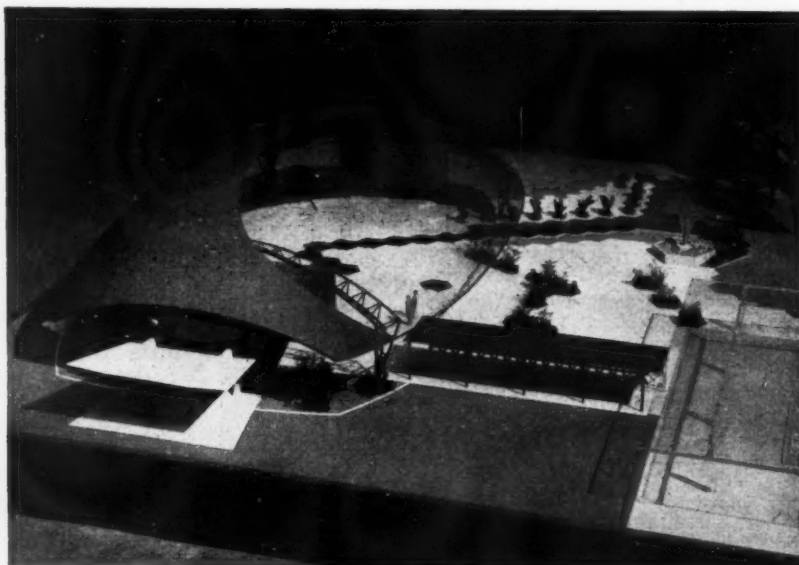
727-761, Harrow Road, London, N.W.10 (Ladbroke 1191).

P.299

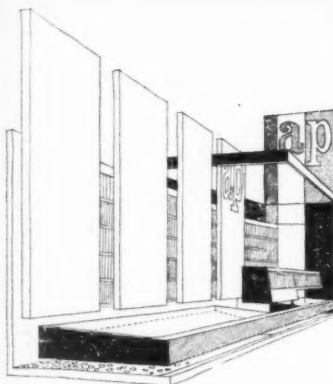
Timber Development Association

The fact that timber has been chosen as the "theme" of this year's Exhibition lends special importance to the TDA contribution. The stand, which is itself built up from the by now familiar, though always interesting, plywood box beams, shows models and photographs of timber design in factories, housing and schools. Among these the *pièce de résistance* is the model of the assembly hall at Rangoon University, and the item of most general interest is the Scandinavian HB system which takes vast spans in its stride, using only timber, glue and nails. Diagrams and sound track describe how TDA deals with problems of research.

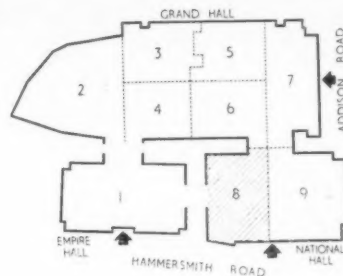
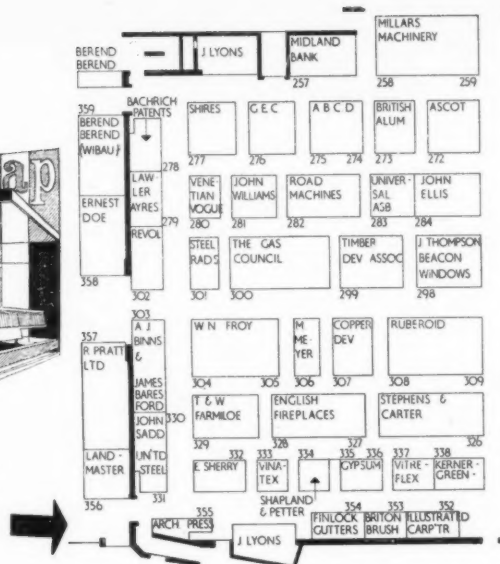
21 College Hill, London, E.C.4 (City 4771).



Left: The assembly hall at Rangoon University.



The Architectural Press stand by Dewar-Mills Associates Ltd. See pages 649 and 667.

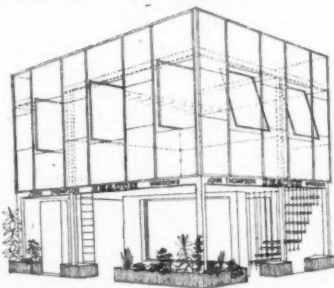


P.298

John Thompson Beacon Windows Ltd.

New here is the firm's system of curtain walling in rust-proofed steel. A detail of special interest is a food delivery hatch. The stand was designed by George Whitby, F.R.I.B.A.

Wolverhampton (Bilston 41121.)



O.280

Venetian Vogue Ltd.

The latest refinement in venetian blinds is the "two-tone" slat which has a grey convex side (i.e., the side which faces outwards when the blind is down) and a concave side of one of a wide variety of colours. 408, Montrose Avenue, Trading Estate, Slough, Bucks (Slough 24595).

S.333

Vinatex Ltd.

Shown here are Vinatex p.v.c. pastes (used for coating wire, etc.) and Vinamold hot melt compounds used for making "intricate mouldings in plaster, cement and cast resins."

Devonshire Road, Carshalton, Surrey (Wallington 9282.)

O.281

John Williams & Sons (Cardiff) Ltd.

This firm, like others in the field, is making a special feature of curtain walling. Jon-windows, as the products are called, show a wide range of neat and sensible detailing. East Moors Road, Cardiff (Cardiff 33622).

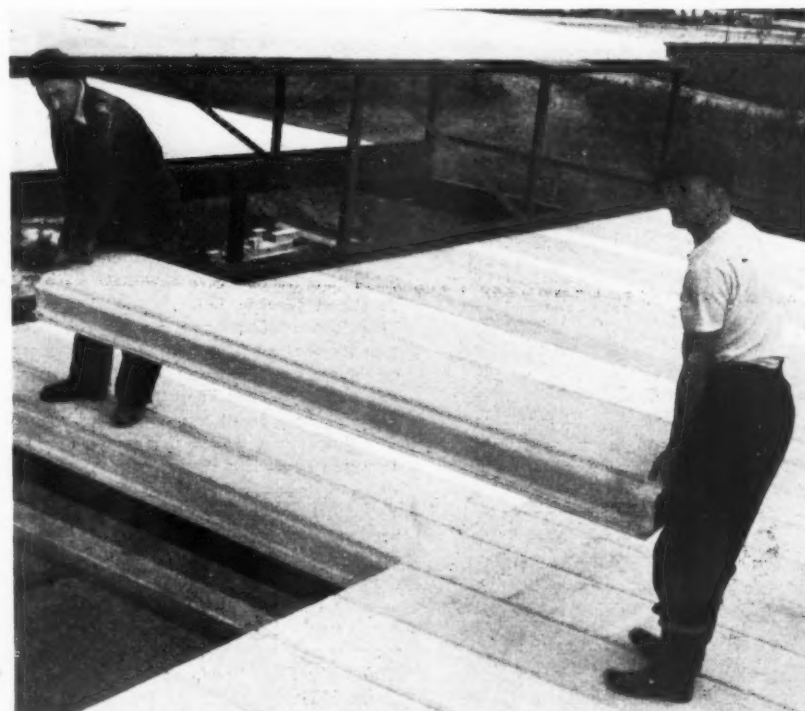
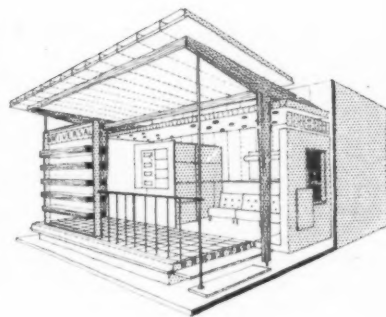
O.283

Universal Asbestos Manufacturing Co. Ltd.

The main exhibits here are two very important decking units which this firm has developed since the last Building Exhibition: namely, insulated-hollow decking in which hollow asbestos-cement "planks" are laid edge to edge to provide flat top and bottom surfaces, and battened decking, in which sheets formed of corrugated and flat asbestos-cement sheets, bonded together, have wood battens pre-fixed to the underside. The stand was designed by Lionel Brett and Peter Bosanquet, F/A.R.I.B.A., assistant V. J. Hutchings, A.R.I.B.A.

Tolpits, Watford, Herts (Watford 3371).

Below: Laying hollow asbestos-cement planks. See note above.



This section has a strong bias towards heating, for, not counting CUC (who show five free-standing convector open fires on stand M.260), there are no less than 14 stands showing heating in some form or other. Most interesting are the Radiation Heatmaster solid fuel unit which does everything for you at once on stand M.261, Brentford Electric's three domestic heat pumps on S.344, Crane skirting heating on N.267 and the very clever Primatic indirect copper cylinder on Range Boilers' stand, N.268.

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Section

O.285-6

A.C.E. Machinery Ltd.

Working demonstrations are being given of the Handscaper winch, which incorporates a new labour-saving technique for the purpose of feeding concrete-mixers by remote control.

Porden Road, London, S.W.2 (Brixton 3293).

R.325

E. P. Allam & Co. Ltd.

This firm specialises in making mechanical equipment for civil engineering contractors: of particular interest is a light power-float designed for the house builder to enable him to lay and finish concrete paths in one operation.

45, Great Peter Street, London, S.W.1 (Abbey 8353).

Q.311

Lewis Berger (Great Britain) Ltd.

This firm repeat their well-known range of Bergermaster enamels and emulsion paint. Bergermaster emulsion paint can be used internally or externally on almost any clean surface and is touch-dry within an hour.

Morning Lane, London, E.9 (Amherst 3321).

S.339-40

Blundell, Spence & Co. Ltd.

The stand of Blundell, Spence & Co. Ltd. centres round the application of Pammastic, their plastic emulsion paint. The stand was designed by Eric Mansfield and the display includes Pammatt, Pamel and Pamelette enamels.

9, Upper Thames Street, London, E.C.4 (Central 2542).

Q.317

S. N. Bridges & Co. Ltd.

Exhibits include a wide range of portable, electric precision-tools and machines and some work benches.

Bridges Place, Parsons Green Lane, London, S.W.6 (Renown 3344).

T.349

A. A. Byrd & Co. Ltd.

On this stand are three liquid applications for brick, stone and concrete etc.: Tricosal, which waterproofs and hardens concrete, Neocasal, a water repellent, and Florosol, which induces surface hardening and resistance to atmospheric disintegration.

210, Terminal House, Grosvenor Gardens, London, S.W.1 (Sloane 5236).

M.260

Coal Utilisation Council

Free-standing convector open fires have the place of honour, five of these appliances being shown. The display includes an example of the correct method of installing continuous-burning open fires in cut-away brickwork and the stand is designed by Mrs. Darcy Braddell.

3, Upper Belgrave Street, London, S.W.1 (Sloane 9116).

N.267

Crane Ltd.

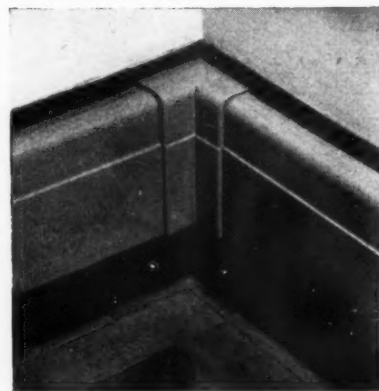
Especially interesting is the new Crane skirting heating system which was discussed in a technical article in the JOURNAL, May 6, 1954. The heat from a No. 3 New Carlton boiler is radiated at a height of 6 in. from heaters which replace the wooden skirting. One of the advantages of this system is that it allows freedom for furniture planning, and it is in homely surroundings that the product is displayed.

45-51, Leman Street, London, E.1 (Royal 1212).

Below: an angle of the crane skirting heating system.



Left: The Brentford Thermocoolair, a heat pump designed to supply hot water.



S.344

Brentford Electric Ltd.

This is one of the two firms which have actually succeeded in putting a heat pump on the market. Three versions are on show: the Brentford Duo-Therm Mark II which can provide a small house with hot water, a refrigerator, a cooled pantry and heat in an airing cupboard; the Brentford Twin-air, which is in effect an air-conditioning unit circulating either warm or cool air which has been "exchanged" from the outside air; and the Brentford Thermocoolair, which is designed to take the heat from cellars, dairies, etc., and to use it to supply constant hot water. All these are exceedingly interesting and well deserve a visit.

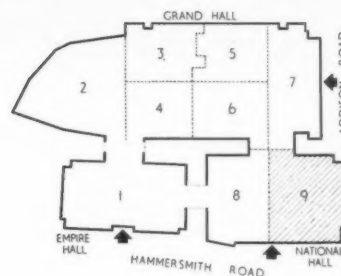
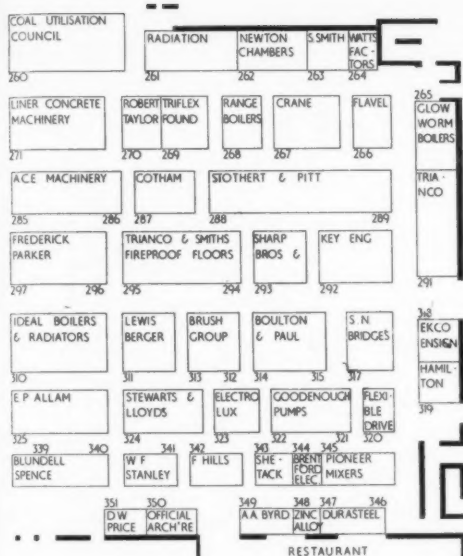
Kidbrooke Park Road, London, S.E.3 (Lee Green 1006).

T.346-7

Durasteel Ltd.

The main exhibit on this stand is Galt Glass, the firm's glass fibre translucent sheeting. This was shown at the last Exhibition, though the range of contours and types—which now covers 25 different profiles—has been mostly developed since. Also on show are items from the original Durasteel steel-and-asbestos products. The stand was designed by George Coles, F.R.I.B.A.

415, Oldfield Lane, Greenford, Middlesex (Waxlow 1051).

**Q.318****Ekco-Ensign Electric Ltd.**

Some new lighting methods are being displayed. A selection is shown from the established range of fluorescent fittings, lamps and lighting equipment manufactured for domestic, industrial and commercial purposes.

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

R.323**Electrolux Ltd.**

A built-in refrigerator (model M.151) is being shown on various fittings. This model is designed for simple installation in any rigid recess, so that its face is flush with, or its side flanges overlap, the sides of the recess, and is best fitted 2 to 3 ft. above the floor.

153-5, Regent Street, London, W.1 (Regent 7252-5).

N.266**Sidney Flavel & Co. Ltd.**

Of particular interest is the Flavel Gas-heated Clothes Dryer, which can be supplied as a unit standing on its own or for building into a recess or corner. The cabinet, strongly constructed of Zintex sheet steel with double doors, has eleven tubular bakelite rails on three levels above the guarded burner unit. Eagle Foundry, Leamington Spa (Leamington Spa 3091-2).

N.265**Glow-Worm Boilers Ltd.**

Exhibits include two boilers, specially designed for oil firing: the Conquest hot-water boiler of 25,000 BTUs output, and the Nu-Glow automatic hot-water and heating boiler with an output of 50,000 BTUs.

London office, 22-24, Buckingham Palace Road, London, S.W.1 (Victoria 7093); Head office and works, Derwent Foundry, Milford, near Derby.

R.322**Goodenough Pumps, Ltd.**

On show is an entirely new type of Diaphragm Pump called the Diavert, designed for lightness (it weighs about 200 lb.) and durability.

70-72, London Road, Twickenham, Middx. (Popesgrove 7354).

O.287**Gotham Co.**

The central feature of the stand, designed by Sir William Crawford & Partners Ltd., is a large white cube supported on four tubular legs. Under the cube are displayed the properties and uses of Thistle hardwall plasters, Barytite X-ray plasters and Hercolite for making accurate casts and moulds.

Brettenham House, Lancaster Place, London, W.C.2 (Temple Bar 4663).

R.319**Hamilton & Co. (London) Ltd.**

Most of this company's large range of painting brushes is available for inspection.

Brush House, Rosslyn Crescent, Wealdstone, Middlesex (Harrow 1405-6).

S.342**E. Hills & Sons Ltd.**

On this stand is a new interior flush-door core, a plastic-faced plywood and various West African hardwoods and veneers.

Norton Road, Stockton-on-Tees (Stockton-on-Tees 67141).

Q.310**Ideal Boilers & Radiators Ltd.**

A new exhibit this year is the Master Classic bath for recess fitting. It is made of cast-iron, enamelled with porcelain. Also shown for the first time is the O-DE domestic boiler, and other exhibits include a selection of Ideal towel rails and the Ideal Rayrad panel heaters.

London office, Ideal House, Great Marlborough Street, London, W.1 (Gerrard 8886); Head office and works, Ideal Works, Hull.

P.292**Key Engineering Co. Ltd.**

An underfloor, electrical duct system has recently been developed for shallow floors. The new system, D6, on display requires a minimum floor depth of only 1½ in., yet is complete with all normal fittings. The duct is 1½ in. in depth. Also exhibited are fibre conduits and Key fibre drain pipes, with certain new fittings.

4, Newgate Street, London, E.C.1 (City 1185-7).

M.262**Newton Chambers & Co. Ltd.**

The Redfyre heating stoves shown have a top feed with hotplate, and the rate of burning is precisely controlled from one point on the right-hand side by a simple lever. Another attractive new exhibit, the Newton coke-burning fret, has a 30% chrome-steel heat-resistant bottom grate, which can be reversed for burning coal. Both are finished in vitreous enamel. The stand is designed by Victor Rotter, of Publicity Planning Ltd., Richmond.

Thorncliffe, near Sheffield (Ecclesfield 3171).

P.296-7**Frederick Parker Ltd.**

New concrete-mixing machines exhibited are the Little Giant model 3½T, made partly of pressed steel, and the Compact model for soft ground or cramped space.

Viaduct Works, Catherine Street, Leicester (Leicester 62531).

N.268**Range Boilers Ltd.**

Prominence is given on this stand to the Primatic Universal Copper Cylinder, which can be seen working. This is a copper indirect cylinder, having only one feed tank for both primary and secondary waters, without their being mixed, instead of the usual two. The standard arrangement for ordinary direct cylinders is all that is required in pipe layout.

London office, 96, Victoria Street, London, S.W.1 (Tate Gallery 8848); P.O. Box No. 1, Stalybridge, Cheshire.

section 9 continued overleaf.

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Section 9

Right: the kitchen side of the Heatmaster. The Heatmaster has been used in Coventry redevelopment schemes.

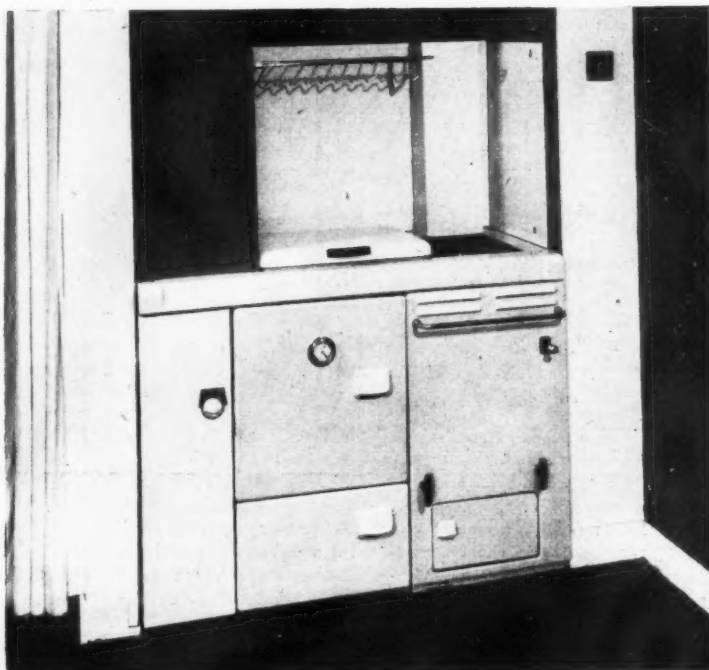
M.261

Radiation Group Sales Ltd.

The Heatmaster (see JOURNAL, Technical Section, June 23, 1955) is here publicly demonstrated for the first time. It provides in one unit the three essential services of cooking, hot water and house heating, under thermostatic control. It uses fuel at a rate of 2-2½ cwt. per week in the winter and 1½-1¾ cwt. per week in the summer, while cooking for 6 to 8 people and heating, through air ducts, a floor area of about 350 sq. ft. A 15-minute Heatmaster film is being shown daily in the public theatre at 10.30 a.m. and 3.45 p.m.

Among other new exhibits are the Parkray 3 smoke-consuming convector fire, and the Nautilus 55 automatic boiler, which occupies less floor space than a page of *The Times*.

Radiation House, 7, Stratford Place, London, W.1 (Mayfair 6462).



P.293

Sharp Bros. & Knight Ltd.

This firm with 70 years experience in the manufacture of high class joinery are showing a selection of their products which include full pivoted sash, landscape and the Burton range of bay windows with circular ends.

Lion House, Red Lion Street, Richmond, Surrey (Richmond 0165/6).

S.343

"Shetack" Tool Works Ltd.

A portable pipe-vice stand fitted with a folding wooden platform is one of several new exhibits.

Tunstall Road, London, S.W.9 (Brixton 1124-6).

P.294-5

Smiths' Fireproof Floors Ltd.

This company's reinforced concrete floor is exhibited with photographs of contracts on which it has been used. The floor consists of hollow concrete blocks with blind ends, placed in pairs, allowing reinforcement in both directions to support all types of loading and providing a continuous soffit with a good key.

Imber Court, East Molesey, Surrey (Emberbrook 5454).

M.263

S. Smith & Sons (England) Ltd.

An interesting exhibit is the Smith's Combustion Heater, a compact and self-contained space-heater burning light fuel oil.

Cricklewood Works, London, N.W.2 (Gladstone 3333).

S.341

W. F. Stanley & Co. Ltd.

Exhibited here for the first time is an all-metal levelling-staff, which has been specially designed and tested to withstand difficult climatic conditions (such as may be encountered in coastal, river and drainage surveys) where wooden staffs are subject to deterioration. Also on show are gunmetal-edged drawing boards.

New Eltham, London, S.E.9 (Eltham 3836).

R.324

Stewarts and Lloyds Ltd.

The display reflects the enormous range of this Company's tubular products and the variety of purposes—panel-heating and scaffolding are two instances—that they serve.

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

N.270

Robert Taylor & Co. (Ironfounders) Ltd.

The Tayco Royal domestic boiler is the principal item in a representative display of Tayco solid fuel boilers, with outputs varying from 20,000 to 65,000 BTUs. Tayco boilers were exhibited at the 1951 South Bank Exhibition as examples of outstandingly good boiler design.

London office, 66, Victoria Street, London, S.W.1 (Victoria 3972-3); Head office, Larnbert, Stirlingshire.

O.291

Trianco Ltd.

In the boilers exhibited, an economy is achieved by regulating fuel consumption to the boiler water temperature by means of an

auxiliary air-fan operated (electrically) through a thermostat. A new industrial type of boiler displays the additional advantage of an automatic declinking device. Also on show are Telescopic Centres designed for use in the construction of Smiths' Fireproof Floors (see stand P.294-5).

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

N.269

Triplex Foundry Ltd.

A new exhibit is the Triplex "W" Cooker (a smaller version of the "V" Cooker) fitting into an opening 36 in. wide and constructed for a 30-gall. hot water cylinder. It includes an extra oven underneath the main oven for slow cooking. Other new products displayed include an underdraught fire and boiler grates.

Upper Church Lane, Tipton, Staffs. (Tipton 1293).

M.264

Watts (Factors) Ltd.

Featured in the display of low-pressure hot-water boilers is a sample of a new oil-fired boiler of the pressure jet type. Also on show are some solid fuel boilers, all with gravity feeding.

High Street, Lydney, Glos. (Lydney 392-5).

T.348

Zinc Alloy Rust-Proofing Ltd.

Examples are shown of iron and steelwork, such as steel casements, nuts and gate fittings, that have been rendered rust-proof by the sherardizing process.

Shakespeare Street, Wolverhampton (Wolverhampton 20647-8).

This section is characterized by very large exhibits: there are about half-a-dozen whole prefabricated structures of which Brockhouse (624-5), and Newsum (610-11) most concern architects; and there are four stands dealing with different aspects of prestressing concrete. New products of note include Northern Aluminium's Noral Snaprib sheet (639), Quicktho aluminium windows (612) and the straw-cored Werno wall (643). In the ingenious gadget class is the Forster Perspektiv-Automat (601A). The plan for section 10 is shown overleaf.

The Building Exhibition

Olympia 1955

THE EMPIRE HALL

FIRST FLOOR

10

Section

656/7

Adam & Harvey (Rapid Hammer) Ltd.

On this stand are some interesting fixing tools which were first seen at the BIF last May. One new improvement to be noted in the hammers is an effective silencer, enabling the tools to be used in confined spaces and in such places as hospitals and convalescent homes where noise is barred. New to the existing range is the Rapid Fixer, which uses bolts of a slightly thinner shaft. Driven in with a 4-lb. hammer, these are claimed to give an excellent fixing in brickwork; a product of particular interest to the smaller builder and electrical contractor, as well as to the architect.

Greenwich House, 10/13, Newgate Street, E.C.1 (City 6671).

602

Aero Research Ltd.

Three products of this interesting firm are on show: Ardux 485, a synthetic resin floor sealer for the protection of wood floors; Aerolite synthetic resin glue—which was used in the trusses supporting the stand roof; and Araldite, an epoxy resin for bonding glass, metals, china, and indeed most materials in common use.

Duxford, Cambridge (Sawston 187).

605

Aga Trading Co. Ltd.

On this stand are a series of paper-backed wood veneers displayed on a 16 ft. x 6 ft. panel. The manufacturers claim that the veneers may be waxed, polished or lacquered within 24 hours of application to the base material.

1, Kingly Court, Regent Street, London, W.1 (Grosvenor 8294).

622

Ajax Architectural Products Ltd.

Ajax have tooled up a new factory for their latest production programme which covers extruded aluminium shopfront mouldings, frames, doors and fittings. Also on show is Jaxite stove enamelled- or anodized-aluminium facing-material, available in lengths up to 20ft.

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

658-9

Allied Ironfounders Ltd.

At the last Exhibition, readers may remember, this stand was devoted to the Stockton experiment in slum conversion. This year the company are confining themselves to

showing equipment, and the only echo of their conversion campaign will be the Compac bath suite, which will be shown installed (and, incidentally, connected up to a cooker/water-heater) in a minimum 6 ft. x 5 ft. bathroom. Most interesting among the new equipment is the Rayburn convector fire, an overnight burner with throat restrictor which has been specially designed to fit inside old fireplaces with unpredictable openings.

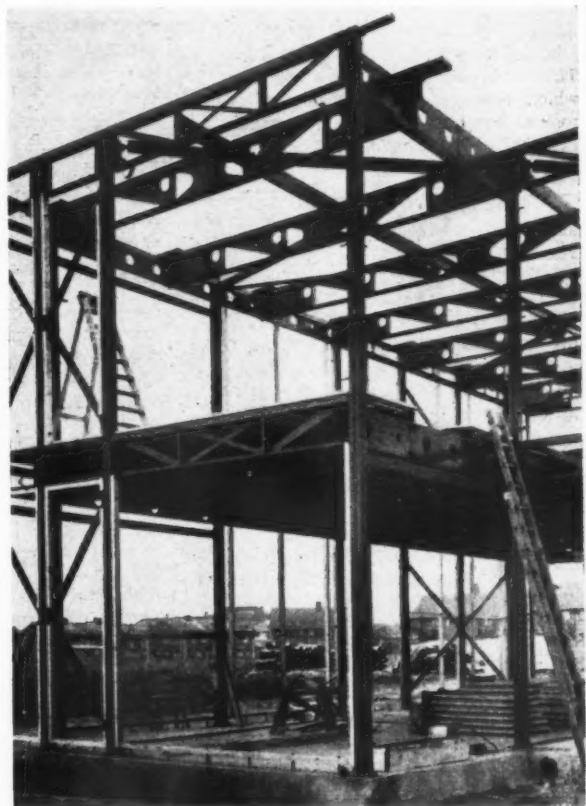
28, Brook Street, London, W.1 (Grosvenor 8941-49).

626/7 (see also E.94 in the Grand Hall)

The British Plaster Board (Mfg.) Ltd.

The stand, a full-size mock-up of a bungalow, demonstrates a system of elemental costing suitable for building with non-traditional methods. The designers were the company's consulting architects Brunton, Baden, Hellard and Partners, A/A.R.I.B.A.

Bath House, 82, Piccadilly, London, W.1 (Grosvenor 8311).



Right: A Brockhouse Steel frame in process of erection.

624-5

J. Brockhouse & Co. Ltd.

This stand is full of interesting products made by Brockhouse and their subsidiaries. Brockhouse Steel Structures have a prefabricated braced steel structure designed to a 3-ft. 4-in. horizontal grid. The design allows for a cavity-wall construction, and is best used with light internal partitions and wood-wool roof slabs. Stanchions are 4½ in. square, the whole being geared to rapid

erection. Brockhouse Heater Co. Ltd. show four Pressure Jet Oil Burners, sizes varying from 75,000 to 3,500,000 BTUs per hour. Lastly, Home Fittings (Great Britain) Ltd. exhibit Sun-Aire All-Metal venetian blinds and Modernfold doors. The doors are available in eight shades of Vynide plastic covering and are particularly economical in confined floor areas.

25, Hanover Square, London, W.1 (Mayfair 8783).

645

Celcon Ltd.

Architects are familiar with the use of lightweight concrete as insulating screeds, but not so familiar with its use as a lightweight structural material. Celcon Ltd., a firm of Danish origin, are featuring on their stand reinforced cell concrete slabs, the company's latest development. Recently introduced in this country for structural roofs and floors, the lightweight and high insulation value of the cell concrete should be attractive to designers. In roofing, the slabs do away with the need for an insulating screed and suggest a saving in labour and materials.

3, Victoria Street, London, S.W.1 (Abbey 7481-4).

603

Corroglaze Ltd.

Samples are shown of the company's corrugated wired glass for use with asbestos and all types of corrugated sheets on factory roofs.

Palace of Engineering, Wembley, Middlesex (Wembley 9411)

623

Disinfestation Ltd.

This stand illustrates the various ways in which premises can be protected against rodents by the Disinfestation Service.

125, Pall Mall, London, S.W.1 (Trafalgar 7621).

636-8

Thomas De La Rue & Co. Ltd.

The Potterton and the Plastics Division of the De La Rue Company have a stand either side of the gangway, and link the two sections together with a canopy. In the latter section is the familiar Formica laminated plastic—now almost a household word in this country. In the Potterton half of the show are oil and gas fired boilers. BTU output in the DOA series of oil-fired boilers ranges from 108,000 to 208,000 per hour. Of the gas-fired boilers the most interesting is the Diplomat with a BTU rating of 44,800 per hour. The domestic boiler is available in several colours and is equipped with a thermostat control flame safety device, gas control governor and a clock to make automatic service as economical as possible.

84, Regent Street, London, W.1 (Regent 2901).

664

Hawkhead, Bray & Son Ltd.

Architects should look out for three new products from this company: a low-level plastic flushing cistern that needs no painting; a copper cylinder claimed to be the cheapest and strongest of its kind on the market; and an all-welded boiler made from rustless steel alloy. The new boiler may solve the problems arising from all-night fires and smokeless fuels. The price will compete with the copper boiler.

Phoebe Lane Mills, Halifax (Halifax 4794-5).

619

High Duty Alloys Ltd.

The stand shows a two-module section of a Hawksley aluminium general purpose building. This panel-type construction has been widely used in the Commonwealth for prefabrication of offices, schools and hospitals. Photographs illustrate the applications of the Alframe buildings; among them aluminium alloy aircraft hangars up to 200 ft. clear span. A. F. Hare, A.R.I.B.A., designed the stand for Hawksley S.M.D. Ltd., an amalgamation of the firms producing Hawksley, Alframe, and S.M.D. buildings.

High Duty Alloys Ltd., Slough, Bucks (Slough 23901).

618

Holoplast Ltd.

The most recent item in this celebrated range of laminated plastics includes the Decorplast cavitied structural panel, useful for partition work and "curtain-walling." The hard resin surface, in a variety of patterns, colours and textures, is worth noting for kitchen and shop fittings particularly, and the cavities can be filled with sand, wood wool or other materials according to thermal and acoustic needs.

Head office and Works, New Hythe, near Maidstone, Kent. (Maidstone 7361-6).

640

Inertol Co. Ltd.

The main theme of the stand is to show the uses of Inertol enamel on concrete. This waterproof chlorinated rubber base coating comes in every shade from pale pastels to the most vivid.

They should interest many architects anxious to bring more colour into building. One good recommendation is the Pimlico scheme, where external concrete surfaces painted with Inertol five years ago, still appear in excellent shape.

West Carr Lane, Stoneferry, Hull E. Yorks (Hull 33701). London office: 348, Upper Richmond Road, Putney, London, S.W.15 (Putney 3376).

620

Jablo Plastic Industries Ltd.

New to the company's range this year is a selection of furniture parts of the built-in and portable type. The use of cellular core gives considerable strength and lightness; finishes vary from decorative veneered ply faces to hardboard for painting.

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

628

The Linoleum Manufacturers' Association

This organization is showing the uses of linoleum in a hospital, a school, an office, a cocktail bar, and in the home—for wall, as well as floor coverings. The display of patterns and colours will be backed up by a technical advisory service on how to use them.

127, Victoria Street, London, S.W.1 (Tate Gallery 4218-9).

610

H. Newsum Sons & Co. Ltd.

Though the Trofdek system is far from making its debut at the Building Exhibition, it still remains one of the most interesting and the most popular of the commercial applications of structural timber. The latest development (which will be on show) is Trofdek Super Span, a system of roof units designed for a minimum load over spans ranging from 25 to 40 ft.

28, St. George Street, Hanover Square, London, W.1 (Mayfair 3453).

E.639

Northern Aluminium Co. Ltd.

On show is the firm's recently marketed version of a clip-on aluminium sheeting, the Noral Snaprib sheet, for roofing and siding of houses and industrial plant. The sheet incorporates a simple snap-joint along the full length of overlapping corrugations and is secured to purlins by concealed clips. This continuous metal cladding can be erected quickly without drilling, and needs no maintenance. It can be taken down without damaging sheets or fixings, and used again. Cost is described as competitive with other forms of cladding. The sheet will withstand 30 lb./sq. ft. pressure or suction loading over a 5-ft. purlin spacing.

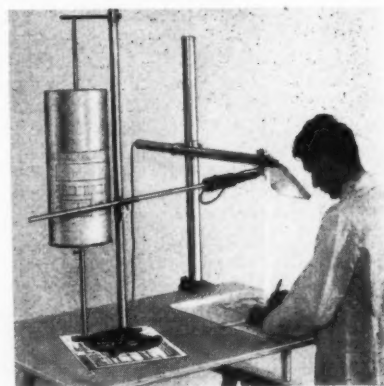
Banbury, Oxfordshire (Banbury 2242).

665

W. Ottway & Co. Ltd.

The firm exhibits its range of optical and scientific equipment, including surveying instruments for varying uses in the building industry.

Orion Works, Northfield Avenue, Ealing, London, W.13 (Ealing 5844).



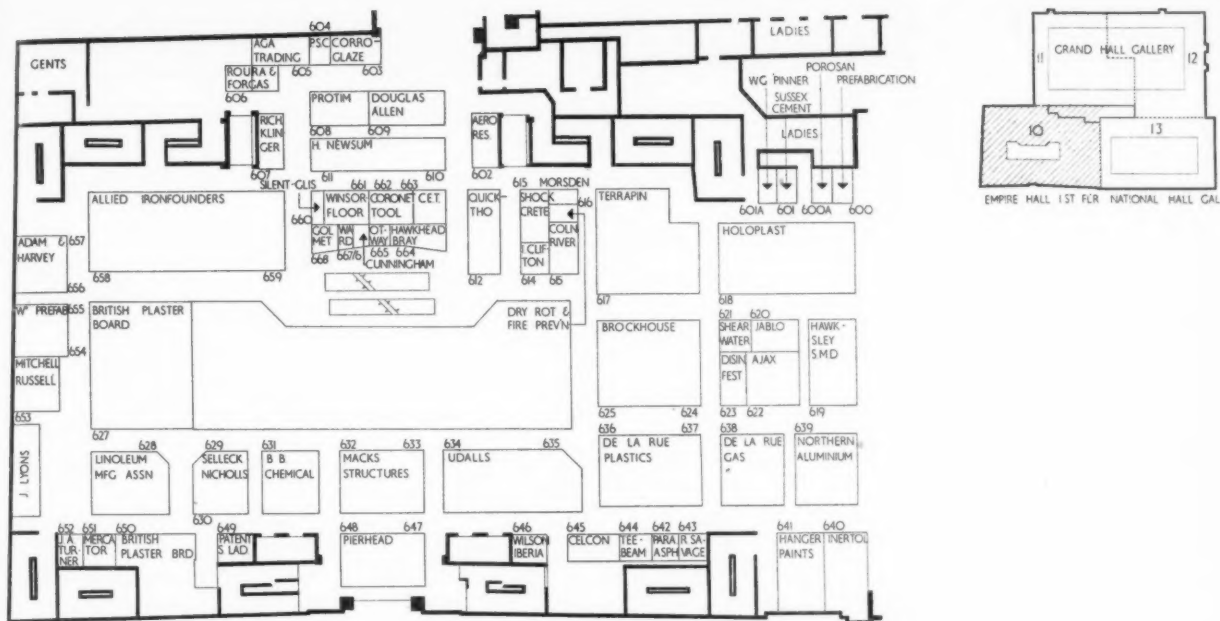
Above: The Forster Perspektiv-Automat.

A.601

W. G. Pinner & Co.

On this stand can be seen the Forster Perspektiv-Automat, an instrument which enables perspective drawings to be made from plans and elevations. It is exceedingly ingenious, permitting views to be taken from any reasonable position and taking bird's-eye views and very large town planning drawings in its stride.

1, York Road, Birmingham, 16 (Edgbaston 1251).



608

Protim Ltd.

Technical representatives give advice at this stand on the treatment and supply of timber preserved against dry rot and insects by Protim. This "water-free" preservative is not neutralized by mortar, nor, say the makers, does it bleed through paint.

356, Evelyn Street, Deptford, London, S.E.8.

604

P.S.C. Equipment Ltd.

The chief item on show is the one-wire system of prestressing, which the company are now introducing to meet the growing demand for inexpensive and lightweight equipment in this field. The most novel aspect of this new system is the tensioning gear. It is built into a portable box, with the hand pump and pressure gauge. The 7-lb. jack is the only item to be moved from wire to wire. A quick-release grip with the jack cuts the time for the stressing operation.

96, Victoria Street, London, S.W.1 (Victoria 9966).

612

Quicktho (1928) Ltd.

This firm's work is always interesting and differs from that of other manufacturers in many particulars, perhaps because of its associations with the transport industry. Added to the company's range of aluminium alloy window and ventilation fittings is the useful Windowall. This is an all aluminium alloy construction containing aluminium sliding windows and top-hung vents designed to take glass and dry panel infillings up to 2 in. thick.

Point Pleasant, Wandsworth, London, S.W.18 (Vandyke 4115/6).

606

Roura & Forgas Ltd.

A new Tornado cartridge hammer is introduced this year, with safety devices claimed

to be foolproof. A twist grip action controls cocking and firing. Another time-saver is automatic cartridge ejection. A metal protector safeguards operators from any ricochet. Prices are slightly below earlier models.

Colquhoun House, 27-37, Broadwick Street, London, W.1 (Gerrard 9641-8).

643

Richard Savage (Agencies) Ltd.

The stand is built up from Swedish Werno wall units faced with hardwood veneers bonded on to plywood, and other plastic-faced panels. Points for architects: window openings are pre-cut in Werno units at works, cutting glazing time on the site. No separate linings needed; beading is fixed direct to panel frames. No studding is needed for erection. Werno units, which are now also being used as false ceilings, are likely to go into production for the first time in this country at Barking early in the New Year.

79, Portland Place, London, W.1 (Langham 7704).

629/630

Selleck Nicholls & Co. Ltd.

Chief exhibits are Reformite stone building blocks, produced in a rough texture close to natural stone. See AJ Information Sheet 14.F1 published on February 17, 1955. Also displayed are Cornish Unit precast concrete structural components, which, the company says, have gone into the building of over 25,000 permanent houses since the war.

East Hill, St. Austell, Cornwall (St. Austell 1071-4).

613

Shockcrete Products Ltd.

Architects who may have noticed the excellent quality of precast units achieved by this firm's technique in Holland and Denmark have a chance to see here sections of precast, prestressed and reinforced concrete

units, with photographs of contracts on which the units have been used. The scale ranges from a 57-ft. beam of 2-ft. width to a hollow beam 8 ft. 6 in. long and 4½ in. thick. A newer development on show is a lightweight roof slab reinforced to carry light loads.

Rye House Works, Hoddesdon, Herts (Hoddesdon 3037/8 and 2557).

644

The Beam Structures (Britain) Ltd.

This firm shows a system of building with interlocking precast concrete blocks which can be combined in a structural wall to give a 5-in. cavity.

457, Union Street, Aberdeen (Aberdeen 20206).

634/5

Udalls Prestressed Concrete Ltd.

This firm has done as much as any to bring prestressing technique within the range of the small builder. Among the new items in the range of products are a poker vibrator, a grout pump, cross ferrules for casting in bolt fixings and, of course, the range of accessories which have been called into being by the application during the last two years of the Gifford-Udall-CCL prestressing system.

West Quay Road, Southampton (Southampton 26367).

654/5

"W" Prefabricated Concrete Buildings Ltd. Cretablocks Ltd.

This stand is devoted not only to a range of multiple prefabricated concrete garages which are described as having weatherboard-effect externally with a fair-face internal finish; but also to concrete fencing and bus shelters. Cretablocks are hydraulic-pressed, electrically-vibrated blocks, formed of lightweight foamed slag, breeze or clinker.

Cinderbank, Netherton, Dudley, Worcs. (Dudley 4516).

Pride of place in this section belongs unquestionably to the government departments whose stands occupy virtually the whole of one end of the gallery. DSIR (450, 452) have made this the occasion for publishing their development work on planning and production techniques, thermal insulation and colour; this stand is a "must." MOHLG (453, 455) are describing cross walls. MOW (445, 447) "illustrate various alternative methods of design and construction which in the interests of better building are worth serious consideration . . ." Private exhibits of note include a new metal finish, tin nickel alloy plating, which "gives a warm, rose tinted appearance" (Tin Research Institute, 456), a water level (Austin & Trimingham, 457) and Avery's doors, blinds and tracks (436) which are always worth a look.

468-472

The Aircscrew Co. & Jicwood Ltd.

In addition to the now familiar Weyroc, the Aircscrew Co. & Jicwood are showing the newly-developed Gold Label Weyroc, Weydec and Hardec. Gold Label Weyroc is a board similar to Weyroc but lighter, stronger, and water repellant, making it particularly suitable for high quality veneering. Ordinary Weyroc will in future be known as Blue Label Weyroc. A decorative melamine surface and plastic back have been applied to Weyroc to produce Weydec—a board with maximum resistance to warping and distortion. Finally there is Hardec, an $\frac{1}{8}$ in. hardboard treated in the same fashion as Weydec.

Weybridge, Surrey (Weybridge 1650).

457

Austin & Trimingham

To be seen on this stand is the Aqualev builder's water level, a gadget both cheap and ingenious which made its debut at the last Building Exhibition and has been going ahead ever since.

58, Warwick Gardens, London, W.14 (Park 8294).

436

J. Avery & Co. (Est. 1834) Ltd.

Three new products are introduced this year: the Sungear, a specially robust single control venetian blind; the Wellfold door, a revised version of the popular door—this one has PVC hinged panels instead of the normal concertina construction; and Stop-Gap, a do-it-yourself foam plastic adhesive draught excluder. The rest of the stand is given over to the firm's well-known blinds and accessories and includes the Panther track—a silent track for hospital cubicle curtains.

81, Great Portland Street, London, W.1 (Museum 9237).

431

BSA Co. Ltd.

The BSA stand, which is devoted to power units, demonstrates four basic air-cooled engines suitable for the mechanization of many site operations.

(Small Heath Group), Birmingham 11.

446, 448, 450, 452, 454

Department of Scientific and Industrial Research

The difficulty with this stand is to know how to pick out the most interesting items

from a long list of first rate material. Research programmes which appear to be coming to the surface for the first time include the Building Research Station's development work on planning and production techniques, on the use of air instead of lime to give added workability in mortars, and on the thermal insulation of roof and wall materials. The findings on the last subject are being presented in a new book published by the Stationery Office, "Thermal Insulation of Buildings." Another very important long-term venture which is getting its first publicity is the 101 Colour Range sponsored jointly by the RIBA, the paint manufacturers, BSI and government departments. Also of colour interest are some examples of coloured textured bricks of the kind described by William Allen at his talk at the British Architects' Conference last year. These have been manufactured experimentally at the Station and doubtless if architects call for them strenuously enough some manufacturer will take them up.

Charles House, 5-11, Regent Street, London, S.W.1 (Whitehall 9788).



Above: the 42 in. Mk. III Hoover Ezee sink unit.

464-466

Ezee Kitchens Ltd.

Kitchen units command a greater market now than they did before the war. The range is growing, the finish is smoother, but unfortunately the price keeps on going up. Ezee produce some of the cleanest and most efficient designs and manage to keep within the medium price range. The usual toe space is provided and all parts are

The Building Exhibition**Olympia 1955****THE GRAND HALL GALLERY**

11

Section

either plastic-faced or of stove-enamelled aluminium.

341A, Sauchiehall Street, Glasgow, C.2 (Douglas 0714-5).

434

George Greenwood & Sons

Greenwoods took a stand at the 1953 Exhibition and showed the Myko system of precast floors and roofs. Since then they have brought out a hollow-beam floor system; they exhibit the two systems on this year's stand.

King Cross Street, Halifax (Halifax 3201).

437

B. Heyman

This firm has produced a machine which will print patterns on a wall. This device consists of a roller and paint container, patterns or plain surfaces being rolled on to the wall. Various rollers are available, thus offering a variety of decoration.

47, Mildmay Park, London, N.1 (Canonbury 6053).

453, 455

Ministry of Housing & Local Government

This stand is devoted mainly to the subject of cross walls, a subject which the JOURNAL treated at some length in the issue of March 17, 1955. It is most significant that this technique is being presented as the means of cutting housing cost without lowering housing standards. The stand gives cost details for some four-storey maisonettes showing a saving of £188 per maisonette over orthodox building methods.

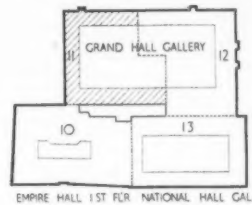
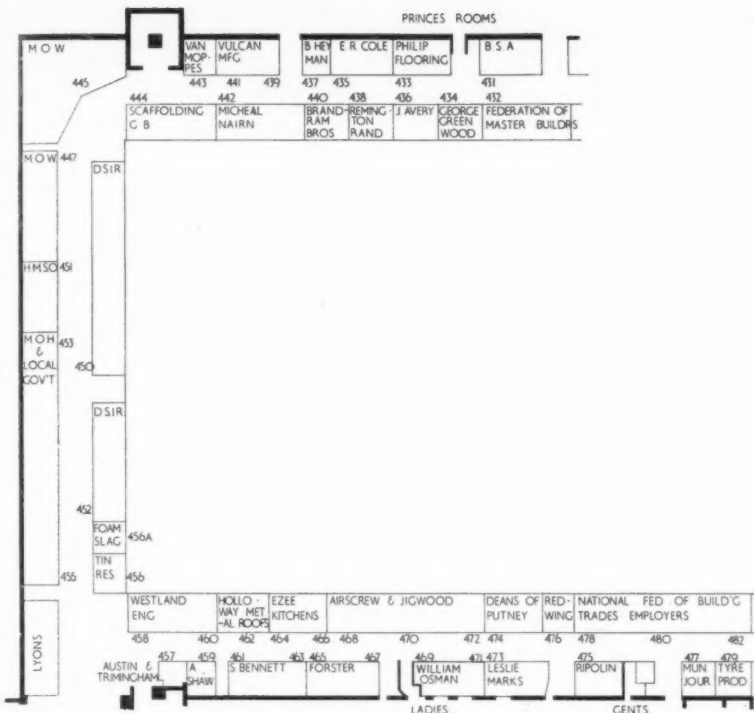
Whitehall, London, S.W.1 (Whitehall 4300).

445, 447, 449

Ministry of Works

The Ministry of Works illustrates various methods of design and construction which are worth recalling and considering before starting to plan a new project. New films on building methods which are being shown on the stand, will, it is hoped, be shown to technical colleges next year. For those who have not the time to look closely at the new buildings in London, the model of the LCC's recently completed 11-storey flats at Trinity Road is worth seeing.

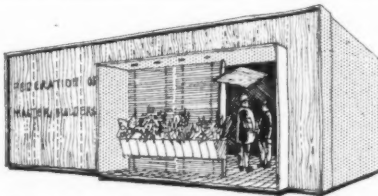
Lambeth Bridge House, Albert Embankment, London, S.E.1 (Reliance 7611).



462 Holloway Metal Roofs Ltd.

As the name of the firm suggests, this stand is concerned with copper and zinc roofing. Rainwater goods to be used in conjunction with these roofs are also shown.

44-46, *Queensland Road, London, N.7* (North 4424-5).



478-482 National Federation of Building Trades Employers

Derek Williams and Kenneth J. Lindy, F.R.I.B.A., were responsible for the design and layout of exhibits on the NFBTE stand. The stand shows the work and aims of the NFBTE and is concerned with prestige values rather than any particular material, component or service.

82, *New Cavendish Street, London, W.1* (Langham 4041).

469-471 William Osman

Osman's, who distribute woodworking machinery, show the products of several firms. Newest of these is the PEB.12 Universal Woodworker, comprising surface planer and thicknessing machine, circular saw and square chisel mortiser. The woodworker is also fitted with a two-speed motor to ensure the correct speed of all operations.

1450A, *High Road, Whetstone, London, N.20* (Hillside 6766).

433 The Philip Flooring Co. Ltd.

Wood-strip flooring is the main concern of this company and, as a general sign of the times, Canadian Maple, too long a memory in this country, is returning as one of the best woods for dance floors. 66-68, *Hertford Road, London, N.1* (Clissold 0131-2).

476 Redwing Ltd.

Redwing Ltd. have developed a series of kitchen units that will satisfy nearly everyone with ideas on kitchen planning. Tops are usually surfaced with Waverite and the cupboards, etc., are made of stove-enamelled aluminium and stainless steel. A planning service is available to assist in arranging the Redwing units in any location.

340, *Bensham Lane, Thornton Heath, Croydon, Surrey* (Thornton Heath 3663).

475 Ripolin Ltd.

Ripolin Paints need little introduction. New on this stand is Ripolac Insecticidal Lacquer, which contains a high percentage of dieldrin—lethal to insects—and should be painted around all cracks, hidden ledges, etc., which harbour germs and vermin. *Balfour Road, Southall, Middlesex* (Southall 4353).

459 A. Shaw & Son (Diamonds) Ltd.

Among the exhibits of A. Shaw & Son you will find diamond impregnated glass drills and metal bonded diamond impregnated laps for making bevels. An adaptor has been made so that the drills can be fixed to almost any bench drilling machine.

Waterloo Road, North Circular Road, London, N.W.2 (Gladstone 1171).

456 Tin Research Institute

Tin-nickel electroplate is the latest product of the Tin Research Institute. On the centre of the Institute's stand is a miniature plating installation which will produce tin-nickel alloy electroplate on small brass souvenirs. Tin-nickel can be applied on the usual metals by normal procedures, and its manufacturers suggest that its bright finish is particularly suited to builders' hardware and ironmongery. Details and working instructions are available from:

Fraser Road, Perivale, Greenford, Middlesex (Perivale 4254).

479 Tyre Products Ltd.

A heavy rubberized canvas-link doormat, known as the Typrod Beattall Wiper Mat, is shown on this stand, and a portable rubber well is also available to line existing floor wells.

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

443 L. M. Van Moppes & Sons (Diamond Tools) Ltd.

A diamond-tipped drill for use on wall tiles, flint, concrete, granite, porcelain and marble is shown on this stand. A water swivel and adaptor completes the kit. *Basingstoke, Hants* (Basingstoke 1240).

439/441 Vulcan Manufacturing (Wolverhampton) Ltd.

These manufacturers of "builders' ironmongery, locks, door bolts, cycle bells, heel tips, toe plates and tip nails" show a complete range of their products.

"New Griffin" Works, Wolverhampton (Wolverhampton 23241).

This section boasts two out of the three heat pump exhibits in the show: the Denco-Miller on Domestic Installations stand (489) and the Ferranti Fridge-Heater (416). There are also two makes of up-and-over garage doors on Acrow's stand (426) and on the Clarke Ellard stand (496, 498) where there is also an ingenious top-hung folding partition. Two more stands which are well worth a visit are Chance Bros. (430) who display the architectural use of coloured glass, and Barking Brassware (427) where there are some good taps.

The Building Exhibition

Olympia 1955

GRAND HALL GALLERY

12

Section

418-420

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

Acme are timber importers, sawmillers and kiln dryers; their stand is a repeat of the one in the 1953 exhibition.

River Road, Barking, Essex (Rippleway 2771).

488, 490

Ashdowns Ltd.

This stand is a repeat of the 1953 exhibit, the only difference being the developed and improved quality of the principal exhibit—Undulite. This is a reinforced, translucent glass-fibre material made in a number of sections to fit into most of the better known asbestos sheets, and is available in lengths of 36 in. to 96 in. By special arrangement some profiles are made up to 120 ft. long. Eccleston Works, Knowsley Road, St. Helens, Lancs. (St. Helens 3206).

427

Barking Brassware Ltd.

A number of taps, wastes and showers are displayed on this stand, all of them notable for their good design and finish. Probably the most interesting is the High-Low Bath and Shower Mixer. This combines the advantages of an overhead shower and hand shower, the "low" position being useful either as a hair rinse or for use by children. River Road, Barking, Essex (Rippleway 3057-9).

408

Edward Benton & Co. Ltd.

This stand shows a Creteangle concrete mixer and adjustable moulds for concrete precasting.

Creteangle Works, Ferring-by-Sea, Sussex (Goring-by-Sea 41479).

413

Berite Ltd.

Two plastic sheets are shown on the Berite stand—Berlam and Berite. Berite is fused to a ½-in. or ¾-in. board and Berlam is made in 1/20-in. sheets, being designed primarily as an edging strip to Berite. Berite is now supplied in five linen colours and the manufacturers suggest that it is best used in the manufacture of kitchen units and table and bar tops.

Lammas Road, London, E.10 (Leytonstone 6032).

430

Chance Brothers Ltd.

Lady Casson, A.R.I.B.A., designed this stand with the idea of introducing colour, in the form of glass, to everyday life. There is a screen of glass mosaics showing the range of tints available, another showing the lighting effect which can be obtained by using Norman slabs, a laylight of coloured glass louvres and some display light fittings using coloured antique glasses. Since we are expecting colour and an intelligent use of light to make good austere architecture more acceptable this should be a very interesting stand. Smethwick 40, Birmingham (West Bromwich 1824).

496-498

Clarke Ellard Engineering Co. Ltd.

This firm specialize in sliding and folding doors. Exhibits include an up-and-over garage door, a patented partition which will fold and slide in two different vertical planes, and a top-hung folding partition. Works Road, Letchworth, Herts. (Letchworth 613-4).

425

K. L. Cobb Ltd.

This is a specialist marketing organization which is exhibiting for the first time. Hardware exhibits include the excellent bathroom and sink fittings of the Barking Brassware Co. Ltd. (see also stand 427), the Otty hood—a patent throat unit—and some interesting porcelain enamel and fireclay sinks.

Suffolk House, 5 Laurence Pountney Hill, London, E.C.4 (Mansion House 5931).

481

Dimplex Ltd.

It's an ill wind that blows no good, and even if solid fuel costs rise we have a greater selection of fairly cheap electric radiators. One of these, the Dimplex oil-filled radiator (see The Industry, JOURNAL, February 3, 1955), incorporates a chromium-plated towel rail and offers a wide range of stove-enamel finishes. In addition, a specially low-built radiator has been designed for installation in such places as bay windows, church pews, etc.

Totton, Southampton (Totton 2481).

416

Ferranti Ltd.

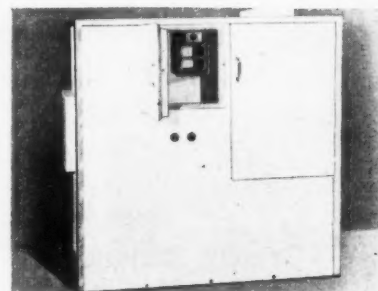
From the new Ferranti Factory in Lancashire comes a variety of products, ranging from

an electronic digital computer to a Fridge-Heater which is, in fact, a small heat pump. The Fridge-Heater automatically defrosts itself and has all the attributes of an automatic hot water heater. Three electric fires and a conventional background heater, Model CF.5168, are also shown. Hollinwood, Lancs (Fallsworth 2000).

489

Domestic Installations Ltd.

The most interesting exhibits on this stand are certainly the Prototype TR20 and TR30 Heat Pumps. These, which are also referred to as the Denco-Miller Heat Pumps, look like being the first commercial heat pumps in this country to provide full space heating. The two prototypes are rated at 20,000 and 30,000 BTUs, respectively. 74, Earls Court Road, London, W.8 (Western 3202).



Above: the prototype Denco-Miller heat pump.

409

Federation of Clinker Block Manufacturers

The Federation represents clinker block manufacturers in all parts of the country, and one of its chief aims is to encourage good quality products. The stand includes a wall of clinker blocks and samples of various types of hollow and solid blocks. 16, The Ridings, Surbiton, Surrey (Elmbridge 3149).

407

Fire Protection Association

The Fire Protection Association is a non-profit making organization, existing to further the cause of fire protection and prevention. Associate Membership costs a guinea a year and brings a regular supply of literature and a quarterly Journal. 15, Queen Street, London, E.C.4 (Central 4642).

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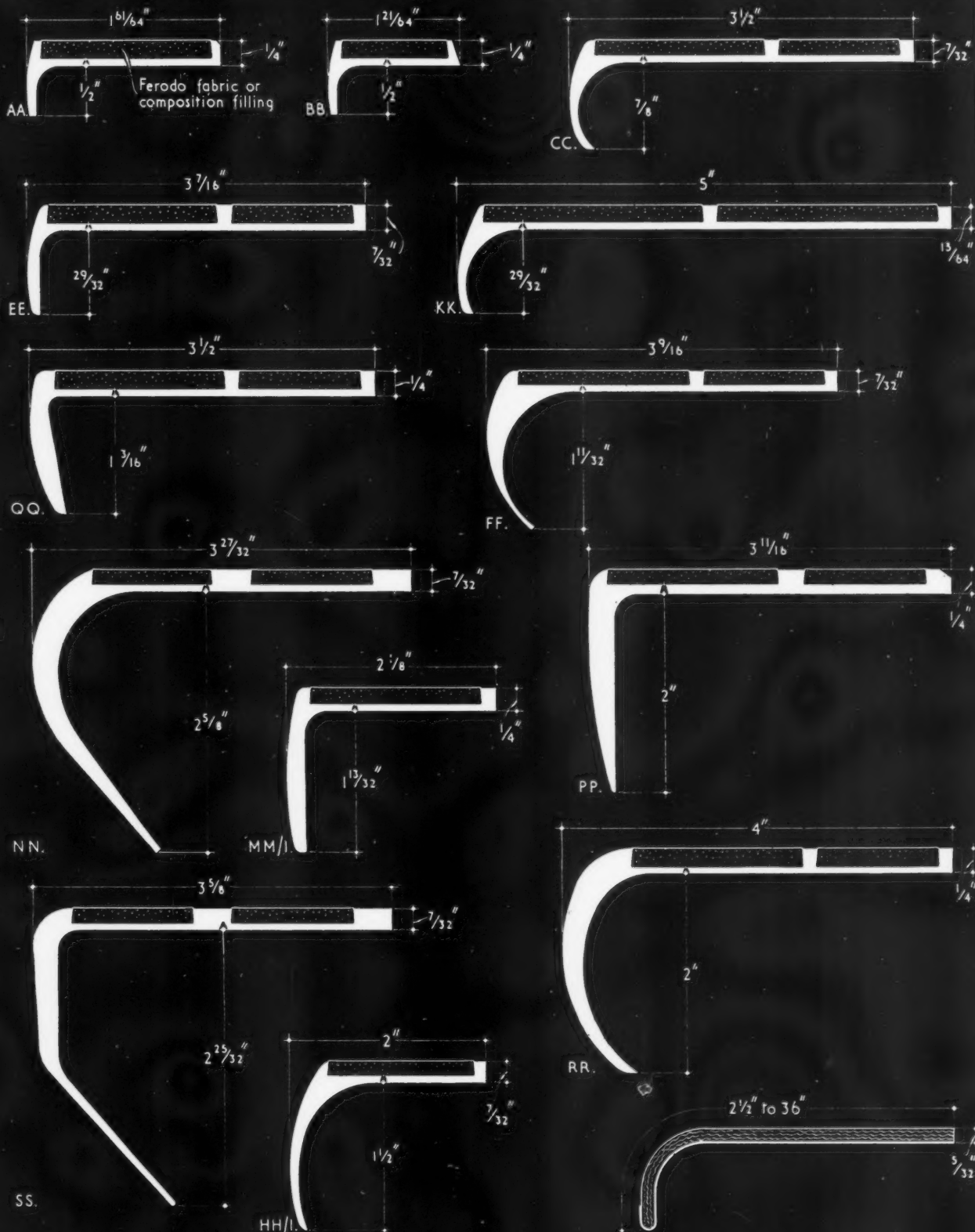
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TYPICAL TREAD-AND-NOSING SECTIONS.

FERODO METAL STAIR TREADS, FABRIC- OR COMPOSITION-FILLED. (scale $\frac{3}{4}$ full size)

Manufacturer: Ferodo Limited.

19.Z11 · FERODO · METAL STAIR TREADS, FABRIC- OR COMPOSITION-FILLED

This Sheet describes a range of metal stair nosings which are available fitted with inserts of Ferodo fabric or moulded composition. Flat tread sections are also obtainable to make up the required width where a wider tread is desired than that given by the nosing section. Feather-edged metal strips are also available for fixing to the back of the tread where the thickness of the flooring material does not bring the step up to the level of the nosing.

Sizes

The drawings on the face of the Sheet show, to a scale of $\frac{1}{4}$ full size, a selection from the range of sections available. They may be obtained in lengths of 13 ft. 6 in., or cut and drilled to specification. The industrial type of tread illustrated at the bottom of the face of the Sheet is backed with 24 gauge steel and is available in standard or cut lengths to a maximum of 6 ft. 0 in. Curved and specially-shaped treads can be supplied to drawings or templates.

Metal Sections

These are extruded from pure aluminium: in addition a limited range of silver bronze or aluminium bronze sections may be obtained. Industrial type are in steel as previously described.

Inserts

The fabric inserts are of the closely-woven, chemically-bonded Ferodo material used in the manufacture of brake and clutch linings. The moulded composi-

tion used is an asbestos and rubber-based material. It is weather-resistant, and retains its colour permanently: it is non-slip even when wet.

Colours: The fabric material is brown. Moulded composition inserts are available in seven colours: red, white, blue, green, black, brown and grey.

Fixing

The treads are supplied drilled to take 1-in. No. 8 countersunk screws. Plugs of matching material for concealing the screwheads are supplied by the manufacturer at no extra cost. Where stairs are badly worn, the surface should be levelled up and the nosing made good before the treads are fitted.

Stone stairs should be drilled and plugged. Treads should be fitted to metal stairs with $\frac{1}{4}$ -in. countersunk bolts and nuts.

Maintenance

Fabric treads simply require brushing with a clean, dry brush. Moulded composition treads may be easily washed.

Compiled from information supplied by:

Ferodo Limited.

Address: Chapel-en-le-Frith, Derbyshire.

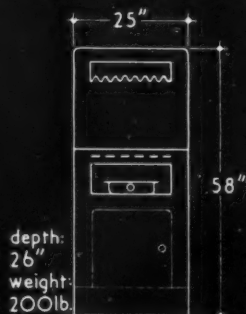
Telephone: Chapel-en-le-Frith 2520.

Telegrams: Ferodo, Chapel-en-le-Frith, Buxton.

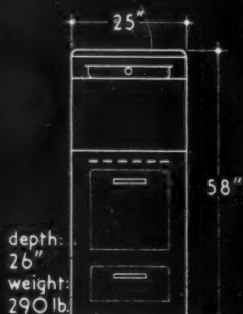
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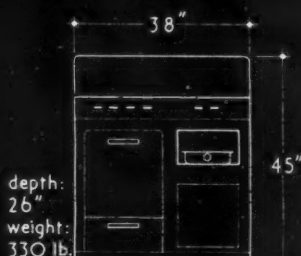
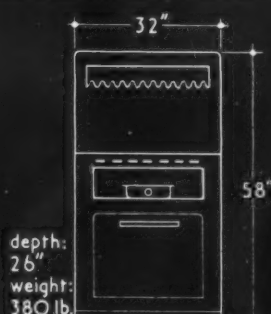
Editor: Cotterell Butler, A.R.I.B.A.



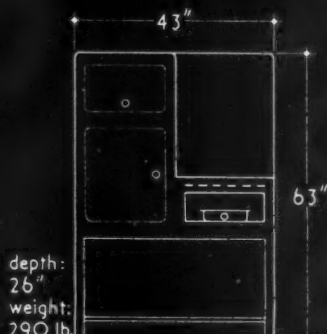
common domestic types: 4 boiling burners, oven, alternative positions for grill



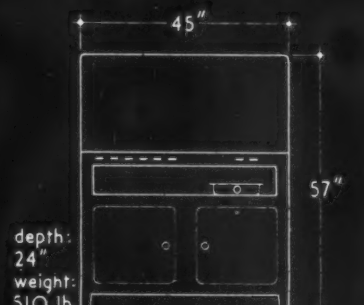
large oven type: 5 boiling burners, grill



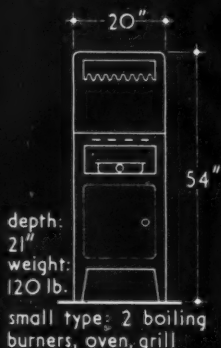
range type: 4 boiling burners, oven, grill, hot closet



raised oven type: 4 boiling burners, grill, hot closet



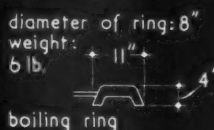
double oven type: 6 boiling burners, grill



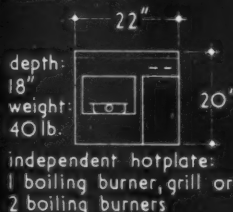
small type: 2 boiling burners, oven, grill



miniature type: 1 boiling burner, oven, grill or 2 boiling burners, oven. stand available



boiling ring



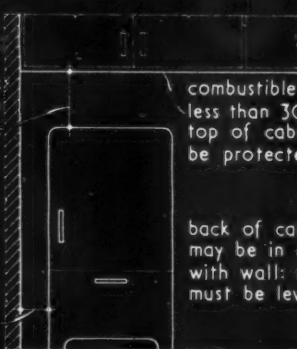
independent hotplate: 1 boiling burner, grill or 2 boiling burners

note: maximum weights and dimensions are given: width includes elbow projection for lighter

COOKING APPLIANCES.

free air circulation above cooling fins: (for minimum clearances see notes on reverse of Sheet)

access at side for cleaning



free-standing type

REFRIGERATORS.

combustible material less than 30" from top of cabinet should be protected

back of cabinet may be in contact with wall: refrigerator must be level

where adjacent to cooker 1" air space or equivalent insulation required



inset type (recess required 32" high x 21" wide x 20" deep)

capacity (cu.ft.)	approximate external dimensions			approx. weight (lb.)
	height (in.)	width (in.)	depth (in.)	
1.5	28-38	22	22	80-140
2.0	37	24	23	120-170
3.0	47	25	27	200
4.5	54	28	28	320
7.3	61	31	29	400

TYPICAL DOMESTIC GAS COOKING APPLIANCES AND REFRIGERATORS.

Compiled from information supplied by The Gas Council.

31.C3 DOMESTIC GAS COOKING APPLIANCES AND REFRIGERATORS

This Sheet summarises the common types of domestic gas cooking appliance and refrigerator.

Architects' Drawings

Drawings should show the space available for the appliance and the position and size of gas point. $\frac{1}{4}$ -in. B.S.P. is sufficient for all types of cooking appliance except the large oven and range sizes which require $\frac{3}{4}$ -in. B.S.P. For all types of refrigerator $\frac{1}{4}$ -in. B.S.P. is adequate.

Gas Cookers

Selection: Customs and tastes vary according to locality. A family of up to six persons can be served by a cooker with four boiling burners and grill, with an oven of appropriate capacity. The common domestic type may have the grill at the top of the splashplate, providing greater capacity and giving better visibility, and at the same time allowing the oven to be raised to a higher level than usual. The space beneath the oven is occupied by a drawer, which is indirectly heated by the oven and may be used for plate-warming or as storage for utensils. Plinth bases are also available as an alternative to legs.

Location: The cooker should be fitted in a well-lighted position away from draughts and close to a sink and work table. It should not be so situated in relation to a door that room and cooker doors can foul each other or passers-by can brush the hotplate. There should be a clear space of 3 ft. 6 in. above the cooker hotplate to any ceiling, shelf or fitment. Having flush-fitting sides, and control taps and oven flue outlet at the front, the cooker may be fixed adjacent to other kitchen equipment. The back may be fitted flush against the wall. When fixed as an independent unit, a space of 4 in. minimum should be allowed around the sides for cleaning purposes. The temperature of the floor and adjacent walls does not exceed 150° F. when the cooker is in use and no precautions against overheating of these surfaces are necessary.

Ventilation: Flue equipment is not necessary for domestic cookers but removal of steam and odours from the kitchen is ensured by providing adequate air change in the kitchen as a whole. For this reason B.S. Code of Practice CP 3, Chapter 1 (C): 1950 *Ventilation* recommends a minimum of 2,000 cu. ft./hr. Where desired, kitchen appliances, including the cooker, may be grouped under a canopy which is vented to the outside air.

Refrigerators

General: Operating on the absorption principle, gas refrigerators are silent in operation and the cabinet temperature is thermostatically controlled.

The smaller models provide enamel table tops, and the smallest can be obtained as a self-contained inset unit for building-in.

Selection: As a guide to the size required, an allowance of 0.5 cu. ft. per person of the refrigerator capacity is sufficient for the storage of perishable essential foods, e.g., milk, butter, fresh meat, fish. To provide more generous space, for vegetables, fruit, cooked meats and beverages, the allowance should be doubled.

Location: The refrigerator should be fitted in as cool a position as possible and not exposed to excessive sunlight or other heat. Where adjacent to a cooker, a 1-in. air space is required at the side. The position should be free from draughts and well lit. No precautions are necessary against the overheating of the floor and adjacent walls, but, as the unit is air-cooled, it is essential to allow free air movement over the cooling fins at the rear of the cabinet: a minimum clearance of 8 in. should be allowed for refrigerators up to 3 cu. ft. capacity and 12 in. minimum for larger sizes. The refrigerator should not be fitted in a larder nor immediately below a cupboard in which food is stored.

The back may be fitted flush against the wall, but a free-standing refrigerator requires a 4-in. space at the sides for cleaning purposes. This clearance is essential on the right-hand side to allow the door to open to 90°.

British Standards

B.S. 1250: (Part 1) 1955 (Part 2) 1955 *Domestic appliances burning town gas.*

B.S. 1195: 1948 *Kitchen fitments and equipment.*

Further Information

More detailed information will be found in British Standard Codes of Practice: CP 331,103: 1947 *Gas installation pipes*, CP 332,401: 1947 *Gas cooking installations, single family dwellings*, CP 332,501: 1947 *Gas operated refrigerators* and CP 3 Chapter 1 (C): 1950 *Ventilation*.

This Series of Sheets deals with the provision of service and installation pipes, meters, flues and all other considerations involving the installation of gas equipment concerning the architect.

Compiled from information supplied by:

The Gas Council

Address: Gas Industry House, 1, Grosvenor Place, London, S.W.1.

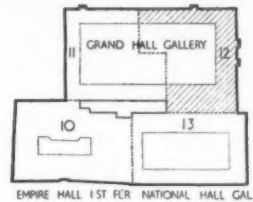
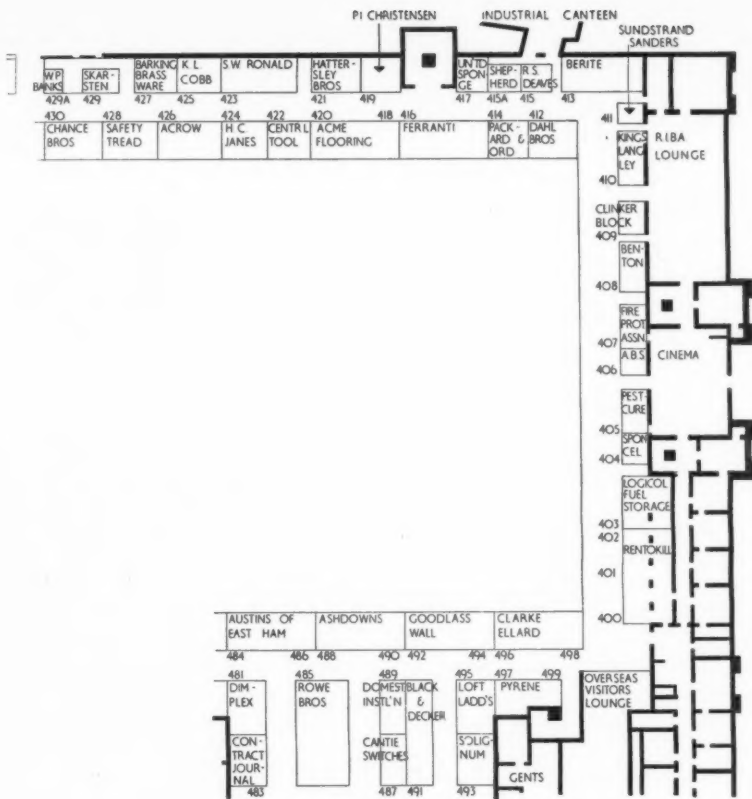
Telephone: Sloane 4554.

Telegrams: Gascil, Knights, London.

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Editor: Cotterell Butler, A.R.I.B.A.



406

Architects' Benevolent Society

The ABS stand was provided by Mrs. Montgomery (Hon. ARIBA and organizer of the Building Exhibition). Christmas cards are on sale here and architects are reminded that by purchasing these cards they contribute to their own charity.

66, Portland Place, London, W.1 (Langham 5721).

492-4

Goodlass, Wall & Co. Ltd.

These paint manufacturers display a comprehensive range of colours in gloss, emulsion and lustre paints.

185, Great Portland Street, London, W.1 (Langham 5566).

421

Hattersley Bros. Ltd.

This stand shows the Swinton series of back-boilers, stoves and combination grates, finished in various shades of vitreous enamel.

Queen's Foundry, Swinton, Mexborough, Yorks. (Mexborough 2332-4).

424

H. C. Janes Ltd.

Janes make Modolite Joinery—a range of traditional and contemporary windows, certain mouldings being standard to both. The products are robust, inexpensive and very versatile.

Barton, Beds. (Hexton 364-5).

414

Packard & Ord Ltd.

"Hand-painted decorative tiles with background colours in varying pastel shades" are the predominant motifs of Marlborough Fireplaces, displayed on this stand.

Marlborough, Wilts (Marlborough 297).

497-499

The Pyrene Co. Ltd.

Phomene building processes by the Cellular Products Division of The Pyrene Co. are shown on this stand.

9, Grosvenor Gardens, London, S.W.1 (Victoria 3401).

423

S. W. Ronald & Co. (London) Ltd.

Visitors to the last Exhibition will remember the first appearance of Fural sheeting. This idea of fixing corrugated aluminium sheet by pressure instead of bolts, which this firm brought over from Switzerland, has now been taken up by a number of other manufacturers: which is not surprising, as it saves time and permits re-use of the sheeting.

Bank Chambers, 329, High Holborn, London, W.C.1 (Holborn 2237).

485

Rowe Bros. & Co. Ltd.

Rowe Brothers stock metal windows and make metal partitioning, but the most interesting fitting on their stand is the Sloan Royal Flush Valve. This takes the place of the usual flushing cistern and is the only diaphragm pattern made in this country. In addition to the normal hand-operated valves, foot pedal valves can be supplied.

Pall Mall, Liverpool, 3 (Central 5401).

428

The Safety Tread Ltd.

In addition to the stair treads and nosings shown two years ago at the Exhibition, a new Alfab section is introduced. These nosings are filled with either brake-lining fabric or coloured composition.

Crown Wharf, Ironworks, Dace Road. Old Ford, London, E.3 (Amherst 4407).

429

Skarsten Manufacturing Co. Ltd.

To most decorators, and to those who do their own decorating, Skarsten is a familiar name. A new paint scraper, electrically-

operated, is on show on the stand and costs 60s.

21, Hyde Way, Welwyn Garden City, Herts. (Welwyn Garden City 873).

493

Solignum Ltd.

Highlight of the Solignum display of wood preservatives, paints and distempers is the impervious (Silicone) Water Repeller. This silicone application is particularly effective in preserving masonry from the effects of frost and chemical fumes.

Donington House, Norfolk Street, London, W.C.2 (Temple Bar 0024).

404

Spencil Ltd.

On this stand Spontex cellulose sponges are displayed.

40, Chancery Lane, London, W.C.2 (Chancery 8111).

403

Stopper Manufacturing Co. Ltd.

This is one of several firms which manufactures solid fuel storage. Shown here are Logicol coal bins and bunkers for domestic use.

Tavu Works, Waterloo, Huddersfield, Yorks. (Huddersfield 174).

411

Sunstrand Sanders Ltd.

Finishing-off demands some form of sanding machine and Sunstrand manufacture machines to rub down wood, metal, plastics and stone. Associated products are filters, pressure gauges and lubricators for compressed air tools.

Norgren Works, Campden Road, Shipston-on-Stour, Warwicks (Shipston-on-Stour 110).

This section houses the exhibition-within-an-exhibition entitled "Timber as a modern building material." The introductory stand (518, 520, 522, 524) shows photographs of good timber practice, and it is followed by a number of stands of various timber suppliers who show examples of their products and one stand belonging to the Forest Products Research Laboratory (531, 533) who have an interesting exhibit describing their proposals for grading home-grown softwoods. Other interesting products to be seen in the section are E. K. Cole's new forced-air heaters and high-temperature panel-heaters (514), the Burgess-Sulzer heated acoustic ceiling (508), and an admirable plumbing joint which can be fixed with only a spanner on Federated Foundries' stand (501).

The Building Exhibition

Olympia 1955

NATIONAL HALL GALLERY

13

Section

565

The Adamite Co. Ltd.

Adamite make a variety of floor coverings, safety stair treads and nosings. In addition to these products, on the stand are Colemanoid waterproofing and hardening liquids and Radalon cement retarder.
Manfield House, Strand, London, W.C.2 (Temple Bar 6233-6).

548-550

F. H. Bourner & Co. (Engineers) Ltd.

Bourners show and demonstrate Supataps and the Supadynamic Power Driving Tool. The latter is designed for nailing into steel, certain types of concrete, and brickwork. Pins are secured with a cartridge-loaded gun each shot costing between 4d. and 7d. inclusive of nail, cartridge, labour, overheads, etc. The Supatap stand shows a variety of taps of particularly interesting design, and demonstrates the long life cushioned nylon washer.
Manor Royal, Crawley, Sussex (Crawley 1312-3).

504

British Lead Mills Ltd.

This stand shows the wide field covered by British Lead Mills' products and includes their full range of gloss, enamel and emulsion paints. Foremost amongst these is an anti-condensation paint, known as Seculate, which can be applied to most walls, concrete and metals.
Treforest, Pontypridd, Glam. (Treforest 2211).

508

Burgess Products Co. Ltd.

This stand takes the form of a lounge constructed of slatted wood and glass panels, the ceiling being made up of 24-in. Burgess Acoustic Tiles. In conjunction with acoustic ceilings the firm have introduced the Burgess/Sulzer heated acoustic ceiling which includes radiant heating fixed independently of the tiles. Details of Burgess sound-proofing equipment and services are also available on the stand.
Acoustical Division, PO Box 11, Hinckley, Leics. (Hinckley 700).

534-535

Canadian Government Exhibition Commission

The Canadian Government bring to the notice of the building trade many species

of Canadian timbers and other building materials. Remembering always the excessively low temperatures presented by the Canadian winter, thermal insulation practices shown on the stand should be very interesting and worth noting. Particularly is this important in the case of, say, a heat pump, where the low output of BTU demands the best insulation available. Finally, with an eye on heavy construction and engineering, exceptionally long rafters and joists are shown.

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

540

Cascaloid

Cascaloid are a division of the British Xylonite Co. Ltd. and devote their stand to Cascalite, a translucent reinforced glass fibre material, available in pastel shades if required.
Abbey Lane, Leicester (Leicester 61811).

514

E. K. Cole Ltd.

New on the stand of this architect-minded firm are three new forced-air heaters for fixing high up in fairly large spaces such as workshops, factories, etc.; also two new high temperature panel heaters for use where there is too great a heat loss for convection equipment. The Thermovent convectors are also on show: it is interesting to notice that the BC type have a new individual automatic heat control.
5, Vigo Street, London, W.1 (Regent 7030).

501

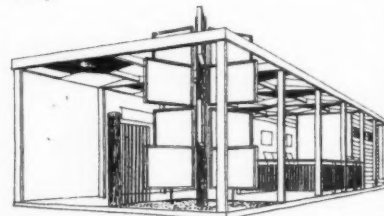
Federated Foundries Ltd.

Two or three months ago the Sofono Sunray Homeheater was introduced to the building industry, and it now makes its debut at the Building Exhibition. This combustion stove is designed to fit into existing fireplace openings or to be completely recessed into a wall and is one of the most useful and unobtrusive stoves on the market. In addition to this stove, an oil burner, and the FF joint are on display. The FF joint is a simple screwed joint for connecting branch wastes to the cast-iron stack of a single stack plumbing scheme. It does not require adaptors or unions and is claimed to be foolproof and a great time-saver in fixing.
4, Stratford Place, London, W.1 (Mayfair 5054-5).

530

The Federated Home Timber Associations

This stand, designed by Joseph Revill, M.S.I.A., and Norman Frith, A.R.I.B.A., shows uses of home-grown timbers and includes an exhibition of doors made of home-grown hardwood, weatherboarding and fencing.
75, Cannon Street, London, E.C.4 (City 4444).



531, 533

Forest Products Research Laboratory

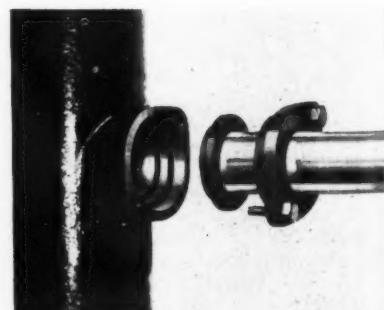
To be seen here are some of the available hardwoods from those countries which do not have separate exhibits. Particularly interesting is an exhibit illustrating the grading rules for homegrown softwoods recently put forward by the FPRL. There is also a preview of the plantation-grown conifers which we may expect on the market in a few years.
Princes Risborough, Aylesbury, Bucks (Princes Risborough 101).

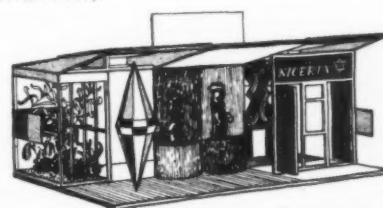
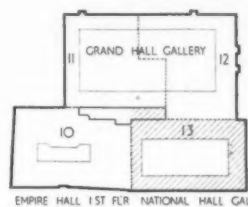
560

Arthur L. Gibson & Co. Ltd.

This firm, which specializes in rolling shutters and grilles, is also showing versions of the up-and-over door.
Radnor Works, Strawberry Vale, Twickenham, Middlesex (Popesgrove 2276).

Below: the FF screwed joint for connecting branch wastes to cast iron stacks. The only labour required in fixing is that of aligning the pipes and securing the fixing bolts.





(Continued on page 682)

The Building Exhibition Olympia 1955

NATIONAL HALL GALLERY

Section 13

529

North Borneo

This stand shows the uses of North Borneo hardwoods for flooring, door frames, mouldings, weather boarding, etc.
The Chief Secretary, Jesselton, North Borneo.

541

North British Plastics Limited

Panalac and Challenge are the trade names given to a melamine/alkyd stoving system applied to hardboard, laminated plastic and aluminium sheets. These sheets, made by North British Plastics, are 8 ft. by 4 ft. and are available in plain colours, wood grain or marble patterns.
Blaydon-on-Tyne (Blaydon 347-8).

503

Purimachos Ltd.

Three new products are introduced in addition to the better-known Purimachos' tile cements. They are a colourless liquid water-proofer for use on walls, a cement water-proofer, and a rust-preventative for use in central-heating systems.
St. Philips, Bristol, 2 (Bristol 57839).

572, 573

Royal Institution of Chartered Surveyors

The Institution's stand was designed by Frederick Barber, F.R.I.B.A., and takes the form of a lounge for use of members and their guests. There is an information and enquiry desk.

12, Great George Street, London, S.W.1 (Whitehall 5322).

500, 502

J. H. Sankey & Sons Ltd.

The only new material on this stand since the last Building Exhibition is Copper Armoured Sisalkraft, the marketing of which was suspended by the war. The rest of the Sisalkraft waterproof building papers are on show and their proven worth needs little introduction. The products of two subsidiary brick yards are shown, together with special cements and bricks by the Refractories Division—in these days of lightweight partitions Sankey's Moler hollow blocks are well worth a second look.

Aldwych House, Aldwych, London, W.C.2 (Holborn 6949).

538

Surflex Flooring Co.

Two plastic floorings are shown on this stand—Polyflex for domestic and light floors, Vinyl-Surflex for heavy and industrial purposes. The floors are supplied in plain or veined colours and demonstrations of laying techniques are given.

48, High Street, Camberley, Surrey (Camberley 2263).

523, 525

Technical Exhibit: Rigid Frame Buildings

This is an exhibit prepared by the TDA to describe the Rigid Frame System of construction which was originally developed by TDA to meet the needs of farmers, but can also serve for village halls, pavilions, etc. It consists of double timber post and rafter members, connected at eaves and ridge to metal channel sections.

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

518, 520, 522, 524

Timber as a Modern Building Material

This stand—an introduction to the timber section of the Exhibition—was designed by A. Roscoe Hudson, A.R.I.B.A., architect to the TDA, and was built of material supplied by the British Columbia Lumber Manufacturers Association of Vancouver. Under a wide canopy, held up by laminated timber arches, can be seen photographs of picked timber structures of all types from many parts of the world.

542/544

Tubewrights Ltd.

Tubewrights are a subsidiary of Stewarts and Lloyds who are showing in the National Hall, R.324. A staircase has been made from the parent company stand to Tubewrights', and the balcony display illustrates Tubewrights' work in the design and fabrication of welded steel structures. Models and examples of work, from wheelbarrow frames to Unimer buildings (see page 659), stand F.125, 6, are shown, and the technical staff in attendance will be pleased to deal with any enquiries.

25, Buckingham Gate, London, S.W.1 (Victoria 0451).

505, 507

Unique Balance Co. Ltd.

Though they are now by no means new, Unique Spiral Balances remain among the most interesting items in the field of builders' hardware. More recent additions to the range include heavy balances to take sashes up to 100 lb., and the incorporation of the balances in the ingenious range of Tabula sliding chalk-boards for schools.

West Hendford, Yeovil, Somerset (Yeovil 2231).

index

The figure in brackets, after each firm, is the stand number; the following figure is the number of the section in the JOURNAL in which the Stand's position is shown on a key plan. Not all the exhibits listed here are described in the JOURNAL, but those that are will be found under the section number.

A

- A.B.C.D. (Raynes Park) Ltd., 34-35, Alpha Road, Surbiton, Surrey. (N.274/5) 8.
 A.B. Mould & Construction Co., Ltd., 92, Whitehorse Road, Croydon, Surrey. (K.220) 2.
 A.C.E. Machinery, Ltd., Porden Road, S.W.2. (O.285/6) 9.
 Accrington Brick & Tile Co., Ltd., Accrington, Lancs. (C.58) 3.
 Acme Flooring & Paving Co. (1904) Ltd., The River Road, Barking, Essex. (Gal. 418.420) 12.
 Acrow (Engineers) Ltd., South Wharf, W.2. (Row E.107/8) 2 and (Gal. 426) 12, (Gal. 506) 13.
 Adam & Harvey (Rapid Hammer) Ltd., Greenwich House, 10-13, New Street, E.C.1. (Gal. 656/7) 10.
 Adamite Co., Ltd., The (Flooring Section), Manfield House, Strand, W.C.2. (Gal. 565) 13.
 Adamsez, Ltd., 75, Victoria Street, S.W.1. (H.180 and J.205) 4.
 Aero Research, Ltd., Duxford, Cambridge. (Gal. 602) 10.

- Aga Heat, Ltd., 20, North Audley Street, W.1. (A.5/6) 7.
 Aga Trading Co., Ltd., 1, Kingly Court, Regent Street, W.1. (Gal. 605) 10.
 Aidas Electric Ltd., Sadia Works, Rowdell Road, Northolt, Middlesex. (D.79) 3.
 Aircrow Company and Jicwood, Ltd., Weybridge, Surrey. (Gal. 468, 470, 472) 11.
 Ajax Architectural Products, Ltd., Kangley Bridge Road, S.E.26. (Gal. 622) 10.
 Alabastine Co., Ltd., The, Ashmole Street, S.W.8. (G.156) 4.
 Allam E. P. & Co., Ltd., 45, Great Peter Street, S.W.1. (R.325) 9.
 Allen, Douglas, Ltd., Allen House, Wellesley Court Road, Croydon. (Gal. 609) 10.
 Allied Ironfounders, Ltd., 28, Brook Street, W.1. (Gal. 658/9) 10.
 Anderson, D. & Son, Ltd., Old Ford, E.3. (F.129) 4.
 Architects' Benevolent Society, The, 66, Portland Place, W.1. (Gal. 406) 12.
 Architects' Classfile, 39, St. James's Street, S.W.1. (L.252) 4.
 Architectural Press, Ltd., The, 9-13, Queen Anne's Gate, S.W.1. (T.355) 8.
 Armstrong Cork Co., Ltd., The, Flooring Department, Bush House, Aldwych, W.C.2. (C.46) 7.
 Ascot Gas Water Heaters, Ltd., 255, North Circular Road, N.W.10. (N.272) 8.
 Ashdowns, Ltd., Eccleston Works, St. Helens. (Gal. 488, 490) 12.
 Associated Brassfounders, Birmingham, Ltd., Willesden Works, Old Oak Lane, N.W.10. (Gal. 553) 13.
 Atlas Diesel Co., Ltd., The, Beresford Avenue, Wembley, Middlesex. (Y.390) 1.
 Austins of East Ham, Ltd., East Ham, E.6. (Gal. 484, 486) 12.
 Austin & Trimmingham, 58, Warwick Gardens, W.14. (Gal. 457) 11.
 Aveling-Barford, Ltd., Invicta Works, Grantham, Lincs. (D.71/2) 2.
 Avery, J., & Co. (Est. 1834), Ltd., 81, Great Portland Street, W.1. (Gal. 436) 11.

B

- Bachrich Patents, Ltd., 217, Harrow Road, W.2. (N.278) 8.
 Bamford, J. C., Lakeside Works, Rocester, near Uttor-eter, Staffs. (L.255) 2.
 Banks, W. P., Ltd., Dunton Green, Nr. Sevenoaks. (Gal. 429A) 12.
 Barking Brassware Co., Ltd., River Road, Barking, Essex. (Gal. 427) 12.
 B.B. Chemical Co., Ltd., Ulverscroft Road, Leicester. (Gal. 631) 10.
 Bell, A., & Co., Ltd., Gold Street, Northampton. (B.29) 3.
 Bellrock Gypsum Industries, Ltd., 200, Westminster Bridge Road, S.E.1. (K.229) 6.
 Benford, Ltd., The Cape, Warwick. (D.73/4) 2.
 Benn Brothers, Ltd., Bouverie House, 154-160, Fleet Street, E.C.4. (A.7) 7.
 Bennett, S., & Son (Wood Flooring), Ltd., Queen's Park Road, Harold Wood, Romford, Essex. (Gal. 461, 463) 11.
 Benton, Edward, & Co., Ltd., Ferring, Worthing. (Gal. 408) 12.
 Beresford, James, & Sons, Ltd., Stork Works, Kitts Green, Birmingham, 33. (Q.303) 8.
 Berger, Lewis (Great Britain) Ltd., Berger House, Berkeley Square, W.1. (Q.311) 9.
 Berrie, Ltd., Period Works, Lammars Road, Lea Bridge Road, E.10. (Gal. 413) 12.
 Berry Wiggins, Ltd., Breams Buildings, Fetter Lane, E.C.4. (A.1) 7.
 Binns, A. J., Ltd., 29, Store Street, W.C.1.
 Black & Decker Ltd., Harmondsworth, Middlesex. (Gal. 491) 12.
 Blundell, Spence & Co., Ltd., York House, 37, Queen Square, W.C.1. (S.339/40) 9.
 Bolton Gate Co., Ltd., Waterloo Street, Bolton, Lancs. (H.184 and J.201) 6.
 "Books & Careers," 485, Oxford Street, W.1. (Gal. 513) 13.

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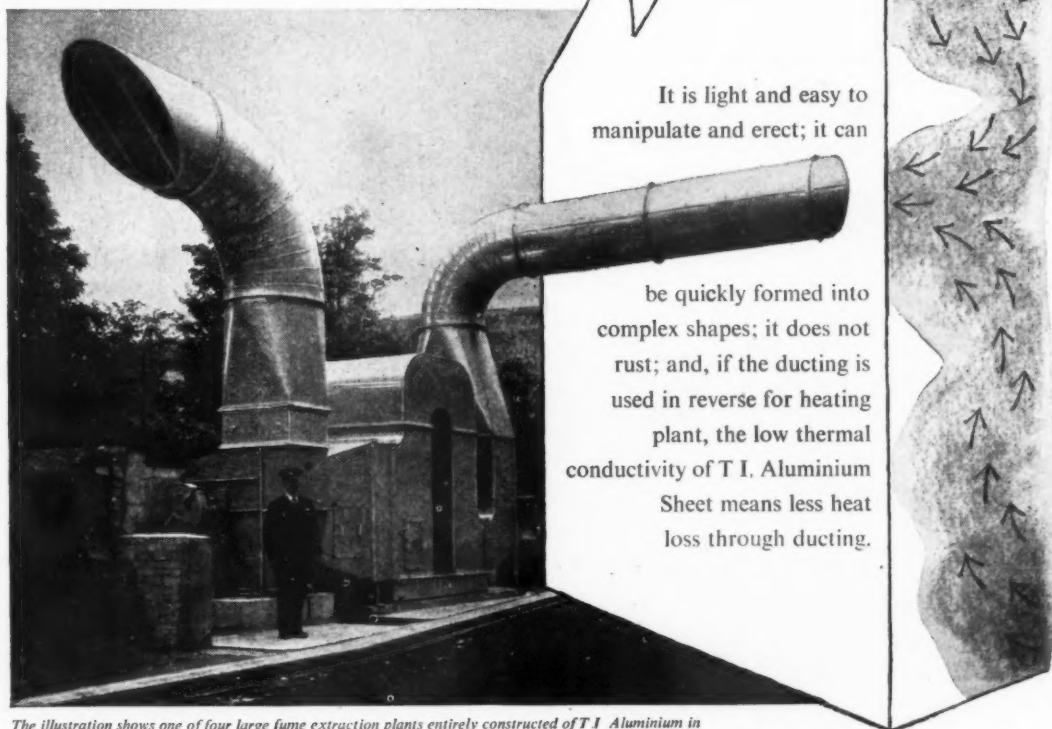
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 Boulton & Paul, Ltd., Riverside Works, Norwich. (Q.314/5) 9.
 Bourner, F. H., & Co. (Engineers), Ltd., Manor Royal, Crawley, Sussex. (Gal. 548, 550) 13.
 Braby, Fredk., & Co., Ltd., 352-364, Euston Road, N.W.1. (H.185 and J.200) 6.
 Brandram Bros. & Co., Ltd., Rotherhithe Works, Neptune Street, S.E.16. (Gal. 440) 11.
 Bray, W. E., & Co., Ltd., Faggs Road, Feltham, Middlesex. (C.65) 2.
 Brecomin (England), Ltd., 5, New Square, Lincoln's Inn, W.C.1. (Gal. 510b), 13.
 Brentford Electric, Ltd., Kidbrooke Park Road, S.E.3. (S.344) 9.
 Bridges, S. N., & Co., Ltd., Bridges Place, Parsons Green Lane, S.W.6. (Q.316/7) 9.
 Briggs, Wm., & Sons, Ltd., Vauxhall Grove, S.W.8. (S.32/3) 5.
 British Aluminium Co., Ltd., The, Norfolk House, St. James's Square, S.W.1. (N.273) 8.
 British Building & Engineering Appliances, Ltd., 63/53, London Road, Sandy, Beds. (G.164/5) 2.
 British Electrical Development Association, The, 2, Savoy Hill, W.C.2. (E.103/4) 3.
 British Equipment Co., Ltd., The, Ixworth Place, S.W.3. (H.175 and J.210) 4.
 British Gates, Ltd., Biddenden, Kent. (Gal. 509, 511) 13.
 British Hoist & Crane Co., Ltd., Compton, Berks. (E.110) 2.
 British Lead Mills, Ltd., Byron House, 7-9, St. James's Street, S.W.1. (Gal. 504) 13.
 British Plaster Board (Manufacturing), Ltd., Bath House, 82, Piccadilly, W.1. (E.94, Gal. 626/7) 7 and 10.
 British Plimber, Ltd., 19, Albert Embankment, S.E.11. (H.178 and J.207) 4.
 British Rubber Development Board, Market Buildings, Mark Lane, E.C.3. (B.34) 5.
 British Standards Institution, British Standard House, 2, Park Street, W.1. (A.10) 5.
 British Transport Commission, British Railways, 222, Marylebone Road, N.W.1. (Z.396) 1.
 Briton Brush Co., Ltd., The, Wymondham, Norfolk. (T.353) 8.
 Brockhouse, J., & Co., Ltd., 25, Hanover Square, W.1. (Gal. 624/5) 10.
 Brookman, R. S., Ltd., Parkside Works, Rothley, Leicester. (Y.388) 1.
 Brush Group, Ltd., The, 312/3, Duke's Court, Duke Street, St. James's, S.W.1. (Q.312/3) 9.
 Bryce White & Co., Ltd., Deseronto Wharf, Langley, Bucks. (E.93) 7.
 B.S.A. Motor Cycles, Ltd., Birmingham, 11. (Gal. 431) 11.
 Builder, The, Ltd., The Builder House, Catherine Street, Aldwych, W.C.2. (G.141) 7.
 Building Industries & Scottish Architect, 63, John Street, Glasgow, C.1. (K.234) 7.
 Building Industry Distributors, Ltd., 52-54, High Holborn, W.C.1. (Gal. 570/1) 13.
 Burgess Products Co., Ltd., (Acoustical Division), P.O. Box 11, Hinkley, Leics. (Gal. 508) 13.
 Burtain, Ltd., 16, Sheldon Road, W.2. (A.15) 3.
 Byrd, A. A., & Co., Ltd., 210, Terminal House, Grosvenor Gardens, S.W.1. (T.349) 9.

C

Cafferata & Co., Ltd., Newark-on-Trent, Notts. (B.38) 7.
 Calders, Ltd., Plough Way, Rotherhithe, London, S.E.16. (L.239) 7.
 Callow & Keppich, Ltd., Cheddar, Somerset. (B.37) 5.
 Canadian Government Exhibition Commission, Timber Division, Canada House, Trafalgar Square, S.W.1. (Gal. 534/5) 13.
 Candy & Co., Ltd., Heathfield Station, Newton Abbot, Devon. (F.137/8) 7.
 Cantie Switches, Ltd., Port Causeway, New Ferry, Birkenhead. (Gal. 487) 12.
 Cape Asbestos Co., Ltd., The, 114-116, Park Street, W.1. (C.42) 7.
 Carter Group of Companies, The, Poole, Dorset. (D.85) 5.
 Caselloid, Ltd., Abbey Lane, Leicester. (Gal. 540) 13.
 Caxton Publishing Co., Ltd., Morley Hall, 25/26, St. George Street, Hanover Square, W.1. (A.3) 7.
 Cayless Bros. (Battersea), Ltd., Battersea Park Road, S.W.8. (B.17/18) 2.
 Celcon, Ltd., 3, Victoria Street, S.W.1. (Gal. 645) 10.
 Celotex, Ltd., North Circular Road, Stonebridge Park, N.W.10. (C.55) 3.
 Cement Marketing Co., Ltd., The, Portland House, Tothill Street, S.W.1. (F.130) 6.
 Central Tool & Equipment Co., Ltd., The, Centec Works, Hemel Hempstead, Herts. (Gal. 422) 12.
 C.E.T. (Tractors), Ltd., 23, Old Burlington Street, W.1. (Gal. 663) 10.
 Chadwick & Shapcott, Ltd., Acorn Works, 173, High Street, Waltham Cross, Herts. (H.190 and J.195) 7.
 Chamberlain Weatherstrips, Ltd., 436, Hook Road, Chessington, Surrey. (Gal. 543) 13.
 Chance Brothers, Ltd., 29/30, St. James's Square, S.W.1. (Gal. 430) 12.

Chasestide Engineering Co., Ltd., Station Works, Hertford, Herts. (D.68/9) 2.
 Christensen, P. I., & Co., Ltd., 231, Strand, W.C.2. (Gal. 419) 12.
 Chubb & Son's Lock & Safe Co., Ltd., 175-176, Tottenham Court Road, W.1. (A.8) 5.
 Clarke Ellard Engineering Co., Ltd., Works Road, Letchworth, Herts. (Gal. 496, 498) 12.
 Clifton, I., & Sons, Ltd., 784, Harrow Road, Willesden, London, N.W.10. (Gal. 614) 10.
 Clubley Armstrong Danarm, J., Ltd., Abford House, Wilton Road, S.W.1. (Gal. 559) 13.
 Coal Utilisation Council, 3, Upper Belgrave Street, S.W.1. (M.260) 9.
 Cobb, K. L., Ltd., Suffolk House, 5, Laurence Pountney Hill, E.C.4. (Gal. 425) 12.
 Cole, E. K., Ltd., 5, Vigo Street, W.1. (Gal. 514) 13.
 Cole, E. R., Ltd., Coombe Road, Neasden Lane, N.W.10. (Gal. 435) 13.
 Coln River Concrete Units, Ltd., 45 Lansdown Crescent, Cheltenham. (Gal. 615) 10.
 Colt, W. H. (London), Ltd., Surbiton, Surrey. (K.231) 6.
 Colthurst Symons & Co., Ltd., Bridgwater, Somerset. (D.84) 5.
 Columbus Dixon Organisation, The, Wembley, Middlesex. (E.105) 3.
 Compactum Ltd., Oxgate Lane, Cricklewood, London, N.W.2. (C.60) 3.
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 Contract Journal Co., Ltd., The, 32 Southwark Bridge Road, S.E.1. (Gal. 483) 12.
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 Copper Development Association, Kendals Hall, Radlett, Herts. (Q.307) 8.
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 Cotswold Dale Stone Co., Ltd., Magdalen Works, Tetbury, Glos. (A.2) 7.
 Crane, Ltd., 45-51, Leman Street, E.1. (N.267) 9.
 Crittall Manufacturing Co., Ltd., The, Braintree, Essex. (E.98) 5.
 Crosby & Co., Ltd., Lion Works, West Street, Farnham, Surrey. (B.29a) 3.
 Cunningham, W. G., 38, Gledstanes Road, W.14. (Gal. 666) 10.

D

Dahl Brothers, Ltd., 52, Haymarket, S.W.1. (Gal. 412) 12.
 Dallow Lambert & Co., Ltd., Thurmaston, Leicester. (W.373) 1.
 Danckaerts Woodworking Machinery, Ltd., 2, 4 & 6, East Road, City Road, N.1. (Y.394) 1.
 Davies, Alan R., 20, Whiteladies Road, Bristol 8. (D.70) 2.
 De La Rue & Co., Ltd., Thomas (Plastics), Imperial House, 84-86, Regent Street, W.1. (Gal. 636/7) 10.
 De La Rue & Co., Ltd., Thomas (Gas Division), 20-30, Buckhold Road, S.W.18. (Gal. 638) 10.
 Deans Blinds (Putney), Ltd., 329, 331, 333, Putney Bridge Road, S.W.15. (Gal. 474) 11.
 Deaves, R. J., 57, Tennyson Road, Small Heath, Birmingham, 10. (Gal. 415, 561) 12 / 13.
 Denison, Saml., & Son, Ltd., Hunslet Foundry, Leeds, 10. (L.250) 4.
 Department of Scientific and Industrial Research, Charles House, 5-11, Regent Street, S.W.1. (Gal. 446, 448, 450, 452, 454) 11.
 Dimplex, Ltd., Totton, Southampton. (Gal. 481) 12.
 Disinfection, Ltd., 125, Pall Mall, S.W.1. (Gal. 623) 10.
 Doe, Ernest, & Sons, Ltd., Ulting, Maldon, Essex. (Portcullis Ave. 358, 358a) 8.
 Dohm, Ltd., 167, Victoria Street, S.W.1. (L.240) 7.
 Domestic Installations Co., Ltd., The Heating Centre, 74, Earls Court Road, W.8. (Gal. 489) 12.
 Dominion Machinery Co., Ltd., Hipperholme, Halifax. (V.364) 1.
 Downing, G. H., & Co., Ltd., Brompton Hill, Newcastle, Staffs. (G.152/3) 4.
 Drew, Clark & Co., Ltd., "Diamond" Patent Ladder Works, E.10. (C.48) 5.
 Dry Rot & Fire Prevention Co., Ltd., 30, St. Pancras Way, N.W.1. (Gal. 616) 10.
 Durasteel, Ltd., Oldfield Lane, Greenford, Middlesex. (T.346/7) 9.

E

Easiwork, Ltd., 29, Goodge Street, W.1. (Gal. 562) 13.
 Eastwoods, Ltd., Eastwood House, City Road, E.C.1. (G.154) 4.

Eclipse Rail-Track Ladder Co., Ltd., The, Staple Hill, nr. Bristol. (F.123) 2.
 Econa Modern Products, Ltd., Aqua Works, Highlands Road, Shirley, Birmingham. (B.24/25) 3.
 Edison Swan Electric Co., Ltd., The, 155, Charing Cross Road, W.C.2. (B.28) 3.
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 Elder Reed, A., & Co., Ltd., 103 & 105, Battersea High Street, S.W.11. (G.157) 4.
 Electrolux, Ltd., 153/5, Regent Street, W.1. (R.323) 9.
 Ellis, John, & Sons, Ltd., 21, New Walk, Leicester. (O.284) 8.
 Elsy & Gibbons, Ltd., Elson Tank Works, Havelock Street, South Shields. (C.49) 6.
 English Clock Systems, Ltd., 179-185, Great Portland Street, W.1. (H.183 and J.202) 6.
 English Fireplaces (Galleon), Ltd., Britannic Works, Haslemere Avenue, S.W.18. (R.327/8) 8.
 English Joinery Manufacturers' Association, The, (Incorporated), Sackville House, Piccadilly, W.1. (F.131) 6.
 Esavian, Ltd., Esavian Works, Stevenage, Herts. (B.40) 7.
 Expanded Metal Co., Ltd., The, Burwood House, Caxton Street, S.W.1. (E.95/96) 5.
 Expandite, Ltd., Chase Road, N.W.10. (K.227) 6.
 Ezee Kitchens, Ltd., 341a, Sauchiehall Street, Glasgow, C.2. (Gal. 464, 466) 11.

F

Farmiloe, T. & W., Ltd., 17, 23, Rochester Row, S.W.1. (R.329) 8.
 Federated Employers' Press, Ltd., 82, New Cavendish Street, W.1. (A.4) 7.
 Federated Foundries, Ltd., 75, Hawthorn Street, Glasgow, N.2. (Gal. 501) 13.
 Federated Home Timber Associations, 75, Cannon Street, E.C.4. (Gal. 530, 532) 13.
 Federation of Clinker Block Manufacturers, 16, The Ridings, Surbiton, Surrey. (Gal. 409) 12.
 Federation of Master Builders, 26, Great Ormond Street, W.C.1. (Gal. 432) 11.
 Ferodo, Ltd., Chapel-en-le-Frith, Derbyshire. (C.50) 5.
 Ferranti, Ltd., Hollinwood, Lancs. (Gal. 416) 12.
 Fibreglass, Ltd., Ravenhead, St. Helens, Lancs. (L.241) 6.
 Finch, B., & Co., Ltd., Belvedere Works, Barkingside, Essex. (A.12, 13, 14) 3.
 Finlock Gutters, Ltd., Finlock House, 25, Frant Road, Tunbridge Wells, Kent. (T.354) 8.
 Fire Officers' Committee Fire Protection Association, 15, Queen Street, E.C.4. (Gal. 407) 12.
 Fisons, Ltd., Brick Department, Harvest House, Felixstowe. (C.52) 5.
 Foamed Slag Producers' Federation, Ltd., 262, Gray's Inn Road, W.C.1. (Gal. 456a) 11.
 Flavel, Sydney, & Co., Ltd., Eagle Foundry, Leamington Spa. (N.266) 9.
 Flexaire, Ltd., 108, Victoria Street, S.W.1. (G.143) 7.
 Flexible Drive & Tool Co., Ltd., The, 17, Queensberry Way, S.W.7. (R.320) 9.
 Flextol Engineering Co., Ltd., Flextol Works, The Green, Ealing, W.5. (B.35) 5.
 Forest Products Research Laboratory, Princes Risborough, Aylesbury, Bucks. (Gal. 531, 533) 13.
 Forster, L. G. (Construction), Ltd., 55-57, Whitton Road, Hounslow, Middlesex. (Gal. 465, 467) 11.
 Fowell, George, Ltd., Service Works, Rabone Lane, Smethwick, 40, Staffs. (C.66) 2.
 Frenger Ceilings, Ltd., 67, Great Russell Street, W.C.1. (G.155) 4.
 Froy, W. N., & Sons, Ltd., Brunswick Works, King Street, W.6. (Q.304/5) 8.

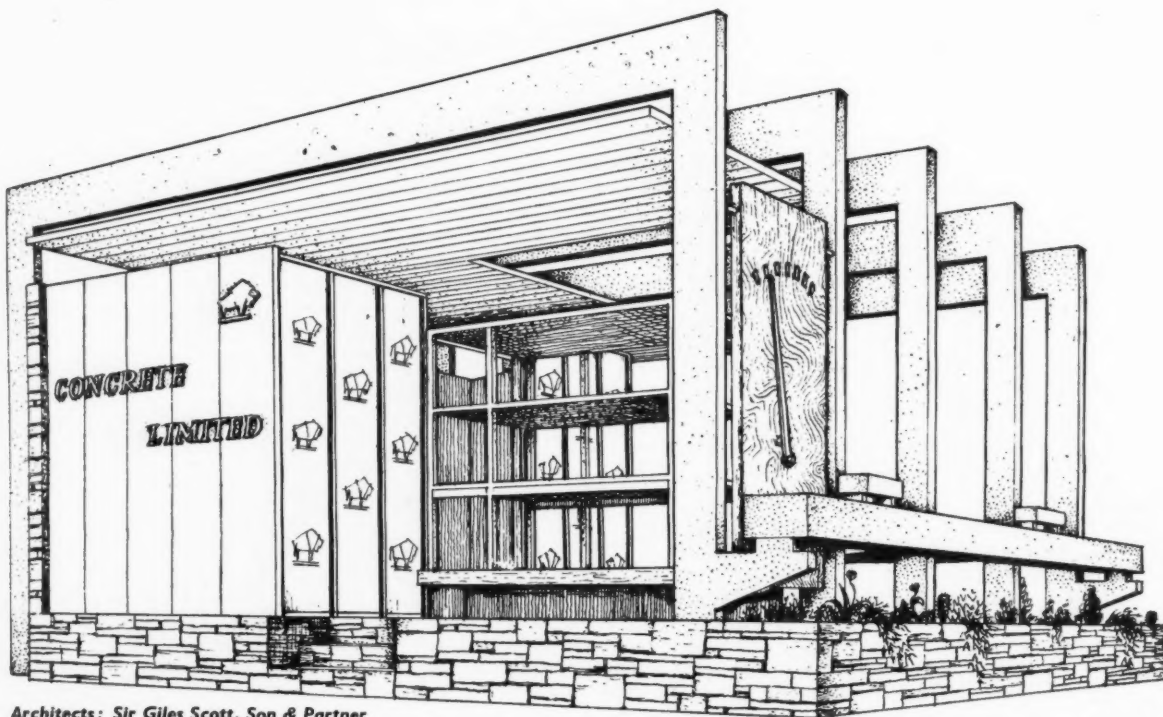
G

Gardiner, Sons & Co., Ltd., Midland Works and Nelson Street, Bristol. (D.89) 7.
 Gas Council, The, 1, Grosvenor Place, S.W.1. (P.300) 8.
 Gay, R., & Co., Westmorland House, 127-131, Regent Street, W.1. (Gal. 539) 13.
 General Electric Co., Ltd., The, Magnet House, Kingsway, W.C.2. (N.276) 8.
 Gibson, Arthur L., & Co., Ltd., Radnor Works, Twickenham, Middlesex. (Gal. 560) 13.
 Gliksien, J., & Sons, Ltd., Carpenters Road, E.15. (G.144) 7.
 Glow-Worm Boilers, Ltd., Derwent Foundry, Milford, nr. Derby. (N.265) 9.
 Gold Coast Office, The, 13, Belgrave Square, S.W.1. (Gal. 519, 521) 13.
 Golmet Doors, Ltd., Virginia Park, Caerphilly, Glam. (Gal. 668) 10.
 Goodenough Pumps, Ltd., 70-72, London Road, Twickenham, Middlesex. (R.321/2) 9.
 Goodlass, Wall & Co., Ltd., 179-185, Great Portland Street, W.1. (Gal. 492, 494) 12.
 Gotham Company, Ltd., The, Gotham, Nottingham. (O.287) 9.
 Greenwood's & Airvac Ventilating Co., Ltd., Beacon House, 113, Kingsway, W.C.2. (H.192 and J.193/4) 7.



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Lichfield 2404

FALKIRK
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Falkirk 1585

EDINBURGH
Sighthill Industrial Estate, Edinburgh
Craiglockhart 1729

Greenwood, George, & Sons, Kings Cross Street, Halifax. (Gal. 434) 11.
Guilliet Sons & Co., Ltd., 28-30, Rivington Street, E.C.2. (L. 256) 2.
Gulf Radiators, Ltd., Penarth Road, Cardiff. (L.244) 6.
Gyproc Products, Ltd., Westfield, Upper Singwell Road, Gravesend, Kent. (G.149) 6.
Gypsum Mines, Ltd., Mountfield, Robertsbridge, Sussex. (S.335/6) 8.

H

Hamilton & Co. (London), Ltd., Brush House, Rosslyn Crescent, Wealdstone, Middlesex. (R.319) 9.
Hangers Paints, Ltd., Hull. (Gal. 641) 10.
Harvey, G. A., & Co. (London), Ltd., Greenwich Metal Works, S.E.7. (G.150/1) 6.
Hattersley Brothers, Ltd., Queen's Foundry, Swinton, nr. Mexborough, Yorks. (Gal. 421) 12.
Hawkhead, Bray & Son, Ltd., Phoebe Lane Mills, Halifax. (Gal. 664) 10.
Hawksley, S. M. D., Ltd., Buckingham Avenue, Slough Bucks. (Gal. 619) 10.
Heller & Sons (Engineers), Ltd., 51b-53b, Turnpike Lane, N.8. (Gal. 536) 13.
Hemel Hempstead Engineering Co., Ltd., Cupid Green Foundry, Hemel Hempstead, Herts. (L.253) 2.
Her Majesty's Stationery Office, P.O. Box 569, S.E.1. (Gal. 451) 11.
Heyman, B., 47, Mildmay Park, N.1. (Gal., 437) 11.
Hickson's Timber Impregnation Co. (G.B.), Ltd., Ings Lane, Castleford, Yorks. (C.56) 3.
Hilger & Watts, Ltd., 48, Addington Square, S.E.5. (Gal. 546) 13.
Hilmor, Ltd., Caxton Way, Stevenage, Herts. (B.23) 3.
Hills, F., & Sons, Ltd., Norton Road, Stockton-on-Tees. (S.342) 9.
Holcon, Ltd., 4, Drapers Gardens, Throgmorton Avenue, E.C.2. (C.47) 5.
Holloway Metal Roofs, Ltd., 44-46, Queensland Road, N.7. (Gal. 462) 11.
Holoplast, Ltd., 116, Victoria Street, S.W.1. (Gal.618) 10.
Hope, Henry, & Sons, Ltd., Smethwick, Birmingham. (D.90, 91) 7.
Housing Centre Trust, The, 13, Suffolk Street, S.W.1. (Gal. 563) 13.

I

Ide, T. & W., Ltd., Glasshouse Fields, E.1. (K.232) 7.
Ideal Boilers & Radiators, Ltd., Ideal House, Great Marlborough Street, W.1. (Q.310) 9.
Iliffe & Sons, Ltd., Dorset House, Stamford Street, S.E.1. (G.145) 6.
Illustrated Carpenter & Builder, Pioneer House, Grays Inn Road, W.C.1. (T.52) 8.
Imperial Chemical Industries Ltd., Imperial Chemical House, Millbank, S.W.1. (D.86/7) 5.
Impregnated Diamond Products Ltd., Tuffley Crescent, Gloucester. (X.377) 1.
Inertol Co., Ltd., West Carr Lane, Stoneferry, Hull. (Gal. 640) 10.
Internal Constructions, Ltd., Invicta House, 11-13, Cheapside, E.C.2. (Gal. 557) 13.
International Paints, Ltd., Grosvenor Gardens House, S.W.1. (Gal. 564, 566) 13.
Interwood, Ltd., 326, Old Street, E.C.1. (Y.387) 1.

J

Jablo Plastics Industries, Ltd., Mill Lane, Waddon, Croydon, Surrey. (Gal. 620) 10.
James, H. C., Ltd., Barton, Beds. (Gal. 424) 12.
Janitor Boilers, Ltd., Vale Road, Camberley, Surrey. (L.247) 4.
Jenson & Nicholson, Ltd., Jenson House, E.15. (E.100) 5.
J.K.O. Cutters, Ltd., Hughenden Avenue, High Wycombe, Bucks. (Z.395) 1.
Johnson, C. H. (Machinery), Ltd., Adswold, Stockport, Cheshire. (G.162/3) 2.
Johnson's Reinforced Concrete Engineering Co., Ltd., Artillery House, Artillery Row, S.W.1. (C.45) 7.
Joyce, W. N., & Sons, Ltd., 10, Clifton Terrace, N.4. (L.243) 6.

K

Kane, Douglas, Associates, 55, Pall Mall, S.W.1. (Gal. 510A) 13.
Kango Electric Hammers, Ltd., Lombard Road, Morden Road, S.W.19. (H.179, J.206) 4.
Kennedy, W., Ltd., Station Works, West Drayton, Mx. (K.233) 7.
Kenyon, Wm., & Sons, Ltd., Dukinfield, Cheshire. (K.224) 4.

Kerner Greenwood & Co., Ltd., Kings Lynn, Norfolk. (S.338) 8.
Key Engineering Co., Ltd., The, 4, Newgate Street, E.C.1. (P.292) 9.
Kine Engineering Co., Ltd., Multico Works, Salfords, Redhill, Surrey. (X.385) 1.
King, J. A., & Co., Ltd., 181, Queen Victoria Street, E.C.4. (F.134) 6.
Kings Langley Engineering Co., Ltd., Kings Langley, Herts. (Gal. 410) 12.
Klinger, Richard, Ltd., Klingerit Works, Sidcup, Kent. (Gal. 607) 10.
Kwikform Ltd., Waterloo Road, Birmingham 25. (F.119, 120) 2.

L

Laconite, Ltd., Halfway Green, Walton-on-Thames, Surrey. (Gal. 556, 558) 13.
Lafarge Aluminous Cement Co., Ltd., 73, Brook Street, W.1. (D.78) 3.
Landmaster, Ltd., Hucknall, Nottingham. (356) 8.
Langham Export Co., Ltd., 19, Margaret Street, W.1. (Gal. 545, 547) 13.
Langley London, Ltd., 163-7, Borough High Street, S.E.1. (F.132) 6.
Langton, H. S., Ace Ladder Works, Bitterne, Southampton. (L.254) 2.
Latter, A., & Co., Ltd., 43, South End, Croydon, Surrey. (Gal. 551) 13.
Lawler, Ayers & Co., Ltd., 54, Old Broad Street, E.C.2. (O.279) 8.
Leaderflush, Ltd., Trowell, Nottingham. (B.26/7) 3.
Lead Sheet & Pipe Council, Eagle House, Jermyn Street, S.W.1. (H.189, J.196) 7.
Leeds Fireclay Co., Ltd., The, Leeds House, Cavendish Place, W.1. (H.177, J.208) 4.
Leng, Christopher, & Sons, Ltd., Hazelwell Brush Works, Stirlchley, Birmingham 30. (C.51) 5.
Limmer & Trinidad Lake Asphalt Co., Ltd., Steel House, Tothill Street, S.W.1. (F.128) 4.
Liner Concrete Machinery Co., Ltd., The, Park Road Works, Gateshead 8. (N.271) 9.
Linoleum Manufacturers' Association, The, 127, Victoria Street, S.W.1. (Gal. 628) 10.
Lister, R. A., & Co., Ltd., Dursley, Glos. (H.172/3, J.212/3) 2.
Lloyds Bank Ltd., 71, Lombard Street, E.C.3. (G.140) 7.
Loft Ladders, Ltd., Broadway Works, 3a, High Street, Bromley, Kent. (Gal. 495) 12.
London Brick Co., Ltd., The Africa House, Kingsway, W.C.2. (E.97) 5.
London & Midland Steel Scaffolding Co., Ltd., 6, Lygon Place, S.W.1. (G.159) 2.
London Sand Blast Decorative Glass Works, Ltd., Seager Place, Burdett Road, E.3. (G.148) 6.
Lyte Ladders, Ltd., Lyte Works, Rogerstone, Newport, Mon. (B.19) 2.

M

Machinery (Continental), Ltd., 175, Brompton Road, S.W.3. (F.118) 2.
Mackay Industrial Equipment, Ltd., Faggs Road, Feltham, Mx. (X.380) 1.
Macks Structures (Birmingham), Ltd., 20, Grosvenor Place, S.W.1. (Gal. 632/3) 10.
Maidenhead Brick & Tile Co., Ltd., "Inholmes," Burgess Hill, Sussex. (G.158) 2.
Marks, Leslie & Co., Ltd., 3-9, Earham Street, W.C.2. (Gal. 473) 11.
Marley Tile Co., Ltd., The, London Road, Riverhead, Sevenoaks, Kent. (H.181/2, J.203/4) 6.
Masonite, Ltd., Bevis Marks House, Bevis Marks, E.C.3. (H.187, J.198) 6.
Massey-Harris-Ferguson (Sales), Ltd., Coventry. (X.381) 1.
M.E. Engineering, Ltd., 457, Finchley Road, N.W.3. (C.62) 2.
Mercator Trading Co., Ltd., 19/21, Wilson Street, E.C.2. (Gal. 651) 10.
Metal Sections, Ltd., Oldbury, Birmingham. (G.147) 6.
Meyer, Montague L., Ltd., 14, Buckingham Street, W.C.2. (Q.306) 8.
Midland Bank, Ltd., Poultry, E.C.2. (M.257) 8.
Millar's Machinery Co., Ltd., Thorley Works, Bishops Stortford, Herts. (M.258/9) 8.
Mills Scaffold Co., Ltd., Trussley Works, Hammersmith Grove, W.6. (F.121/2) 2.
Milsom's Patent Precast (Vermiculite) Cladding, Bury Wharf, Bury Street, Ruislip, Mx. (C.61) 3.
Ministry of Housing & Local Government, Whitehall, S.W.1. (Gal. 453, 455) 11.
Ministry of Works, Lambeth Bridge House, Albert Embankment, S.E.1. (Gal. 445, 447, 449) 11.
Mitchell, Russell & Co., Ltd., Chattan Foundry, Bonnybridge, Scotland. (Gal. 653) 10.
Molesley Sheet Metal Works, 14, Grove Road, East Molesley, Surrey. (Gal. 516) 13.
Moorsden Ignition & Accessories Co., Moorsden Engineering Works, W.6. (Gal. 616A) 10.

Municipal Journal, Ltd., The, 3, Clements Inn, W.C.2. (Gal. 477) 11.
Munster Developments Co. (Fulham), Ltd., 226, Munster Road, S.W.6. (Gal. 555) 13.
Myers, Fred, Tractor & Equipment Co., 4, Tilney Street, Park Lane, W.1. (H.167) 2.

N

Nairn, Michael, & Co., Ltd., Kirkcaldy, Scotland. (Gal. 442) 11.
National Coal Board, The, Hobart House, S.W.1. (E.109) 2.
National Federation of Building Trades Employers, 82, New Cavendish Street, W.1. (Gal. 478, 480, 482) 11.
National Federation of Clay Industries, Drayton House, 30, Gordon Street, W.C.1. (D.88) 7.
National Provincial Bank, Ltd., 15, Bishopsgate, E.C.2. (Y.391) 1.
New Era Publishing Co., Ltd., The, 45, New Oxford Street, W.C.1. (B.20) 2.
Newsom, H., Sons & Co., Ltd., Carholme Road, Lincoln. (Gal. 610/1) 10.
Newton, Chambers & Co., Ltd., Thornecliffe, nr. Sheffield. (M.262) 9.
Nigeria Office, 41, Buckingham Palace Road, S.W.1. (Gal. 526, 528) 13.
"Noelite," Ltd., Noelite Works, Borough Green, Kent. (H.188) 7.
North British Plastics, Ltd., Blaydon-on-Tyne. (Gal. 541) 13.
Northern Aluminium Co., Ltd., Bush House, Aldwych, W.C.2. (Gal. 639) 10.
North Borneo, Chief Secretary, Jesselton, North Borneo. (Gal. 529) 13.
Norton's Plant Hire, Ltd., Ramsden, Billericay, Essex. (C.64) 2.
Nufloor Ltd., Basildon, Essex. (J.197) 7.
Nuralite Sales, Ltd., Whitehall Place, Gravesend, Kent. (K.230) 6.

O

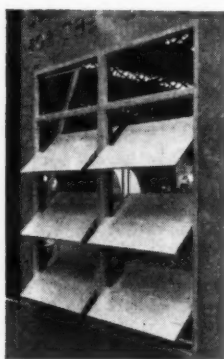
Official Architecture & Planning, 63, Neal Street, W.C.2. (T.350) 9.
Oliver, William, & Sons, Ltd., 12-13, Bow Lane, E.C.4. (F.139) 7.
Osman, William, 1450a, High Road, N.20. (Gal. 469, 471) 11.
Ottway, W., & Co., Ltd., Orion Works, Northfield Avenue, W.13. (Gal. 665) 10.

P

Packard & Ord, Ltd., Marlborough, Wilts. (Gal. 414) 12.
Palmer's Travelling Cradle & Scaffold Co., Ltd., 129, Great Suffolk Street, S.E.1. (H.174, J.211) 2.
Paramount Asphalt & Flooring Co., Ltd., 149, Kennington Park Road, S.E.11. (Gal. 643) 10.
Parker, Frederick, Ltd., Viaduct Works, Leicester. (P.296/7) 9.
Patent Safety Ladder Co., Ltd., The, Bridge Street, Peterborough. (Gal. 649) 10.
Peerless Built-in Furniture, Ltd., Western Avenue, Perivale, Greenford, Mx.(B.41) 7.
Peglers, Ltd., 11, Marshalsea Road, S.E.1. (E.102), 3
Pegson, Ltd., Coalville, Leics. (C.59) 3.
Penfold Fencing & Engineering, Ltd., Imperial Works, Watford, Herts. (B.30) 3.
Perkins, John, & Smith, Ltd., London Road Works, Braunston, nr. Rugby. (Z.399) 1.
Permutit Co., Ltd., 151, Regent Street, W.1. (K.228) 6.
Pesture, Ltd., 30, Cavendish Square, W.1. (B.36, Gal. 405) 5, 12.
Philip Flooring Co., Ltd., The, 66/68, Hertford Road, N.1. (Gal. 433) 11.
Philips Electrical, Ltd., Century House, Shaftesbury Avenue, W.C.2. (F.124) 4.
Philplug Products, Ltd., 343, High Road, Wembley, Mx. (K.225) 4.
Pickles, John, & Son (Engineers), Ltd., Hebden Bridge, Yorks. (V. & W.370) 1.
Pierhead, Ltd., Speke Boulevard, Liverpool 19. (Gal. 647/8) 10.
Pilkington Bros., Ltd., St. Helens, Lancs. (F.133) 6.
Pinner, W. G., & Co., 1, York Road, Birmingham 16. (Gal. 601A) 10.
Pioneer Mixers, Ltd., 31, Front Street, Monkseaton, Northumberland. (S.345) 9.
Porosan, Ltd., 30, South Street, Chichester, Sussex. (Gal. 600A) 10.
Portasilo, Ltd., Blue Bridge Lane, York. (X.382/3) 1.
Pratt, R., Ltd., 268/70, High Street, Sutton, Surrey. (357) 8.
"Prefabrication," 32, Millbank, S.W.1. (Gal. 600) 10.
Prestwich, J. A., Industries, Ltd., 24, Manchester Square, W.1. (K.217) 2.
Price, D. W., & Son, Ltd., Braemar Works, Neasden Parade, N.W.10. (T.351) 9.

HOPE'S WINDOWS & LOUVRES FOR THE TROPICS

STAND



90/91

BUILDING EXHIBITION OLYMPIA

NOV. 16-30

HENRY HOPE & SONS LTD., BIRMINGHAM & LONDON

Protim, Ltd., 356/368, Evelyn Street, S.E.8. (Gal. 608) 10.
 Prowse, Keith, & Co., Ltd., 90, New Bond Street, W.1. (L.236) 7.
 P.S.C. Equipment, Ltd., 96, Victoria Street, S.W.1. (Gal. 604) 10.
 Purimachos, Ltd., St. Philip's, Bristol, 2. (Gal. 503) 13.
 Pyrene Co., Ltd., Great West Road, Brentford, Mx. (Gal. 497, 499) 12.
 Pyrok, Ltd., 401/404, Montrose Avenue, Slough, Bucks. (D.80) 3.

Q

Quickdraw Co., Ltd., The, 127, Gunnersbury Avenue, W.3 (A.16) 3.
 Quicktho (1928), Ltd., Point Pleasant, S.W.18. (Gal. 612) 10.

R

Radiation Group Sales, Ltd., Solid Fuel Div., Leeds, 12. (M.261) 9.
 Randall, Wm., & Co. (Horsham), Ltd., Slinfold, Horsham, Sussex. (E.106) 3.
 Range Boilers, Ltd., 96/98, Victoria Street, S.W.1. (N.268) 9.
 Rapid Metal Developments, Ltd., 209, Walsall Road, Perry Barr, Birmingham, 22B. (F.114/5) 2.
 Rawlplug Co., Ltd., The, Cromwell Road, S.W.7. (L.242) 6.
 Redland Tile Co., Ltd., The, Moorhouse, nr. Westerham, Kent. (E.99) 5.
 Redwing, Ltd., 340, Bensham Lane, Thornton Heath, Croydon, Surrey. (Gal. 476) 11.
 Remington Rand, Ltd., Commonwealth House, 1-19, New Oxford Street, W.C.1. (Gal. 438) 11.
 Rentokil, Ltd., Fetcham, Leatherhead, Surrey. (Gal. 400/1) 12.
 Revol, Ltd., Exchange Buildings, Quayside, Newcastle-upon-Tyne, 1. (P.302) 8.
 Ripolin, Ltd., Balfour Road, Southall, Mx. (Gal. 475) 11.
 Road Machines (Drayton), Ltd., West Drayton, Mx. (O.282) 8.
 Roberts, David, & Co. (Engineers), Ltd., 276, Monument Road, Birmingham, 16. (H.170, J.215) 2.
 Robinson, Thomas, & Son, Ltd., Railway Works, Rochdale. (V.369, W.371) 1.
 Rollet, H., & Co., Ltd., 6, Chesham Place, S.W.1. (Gal. 512) 13.
 Ronald, S. W., & Co. (London), Ltd., Bank Chambers, 329, High Holborn, W.C.1. (Gal. 423) 12.
 Roura & Forgas, Ltd., Colquhoun House, 27/36, Broadwick Street, W.1. (Gal. 606) 10.
 Rowe Brothers & Co., Ltd., Pall Mall, Liverpool, 3. (Gal. 485) 12.
 Royal Institution of Chartered Surveyors, 12, Great George Street, S.W.1. (Gal. 572/3) 13.
 Ruberoid Co., Ltd., The, Commonwealth House, 1-19, New Oxford Street, W.C.1. (Q.308/9) 8.
 Russell, Macdonald & Co., Ltd., 31/35, Pittfield Street, N.1. (L.246) 4.
 Ruston & Hornsby, Ltd., Lincoln. (E.112) 2.
 Rye Engineering Works (High Wycombe), Ltd., Lancaster Road, High Wycombe, Bucks. (X.383) 1.

S

Sadd, John, & Sons, Ltd., Maldon, Essex. (R.330) 8.
 Safety Tread, Ltd., The, Dace Road, E.3. (Gal. 428) 12.
 Sagar, J., & Co., Ltd., Halifax, Yorks. (V.368, W.372) 1.
 Sagar Bursgreen, Ltd., Halifax, Yorks. (U.360) 1.
 Sanbra, Ltd., Aston Hall Road, Birmingham, 6. (D.75) 3.
 Sandline Brick Manufacturers Association, Ltd., 47, Victoria Street, S.W.1. (C.57) 3.
 Sankey, J. H., & Son, Ltd., Aldwych House, Aldwych W.C.2. (Gal. 500, 502) 13.
 Saunders, H. A., Ltd., 836/842, High Road, N.12. (F.116/7) 2.
 Savage, Richard (Agencies), Ltd., 79, Portland Place, W.1. (Gal. 642) 10.
 Scaffolding (Gt. Britain), Ltd., Mitcham, Surrey. (F.127, H.166 & Gal. 444) 4, 2 & 11.
 Schubert, H., Ltd., Imperial Works, Wenlock Road, N.1. (U.363, V.365, W.375) 1.
 Sealdraught, Ltd., Chandos House, Buckingham Gate, S.W.1. (L.245) 6.
 Sealcrete Products, Ltd., Atlantic Works, Hythe Road, N.W.10. (H.191) 7.
 Secomastic, Ltd., Bracknell, Berks. (G.142) 7.
 Selleck, Nicholls & Co., Ltd., St. Austell, Cornwall, (Gal. 629/30) 10.
 Semtex, Ltd., Semtex House, The Broadway, Welsh Harp, N.W.9. (E.101) 3.
 Shaftesbury Ladders, Ltd., 453, Katherine Road, E.7. (B.21/2) 2.

Shanks & Co., Ltd., 81, New Bond Street, W.1. (B.39) 7.
 Successors to Shapland & Pether, Ltd., Raligh Works, Barnstaple, N. Devon. (S.334) 8.
 Sharp Bros. & Knight, Ltd., Lion House, Red Lion Street, Richmond, Surrey. (P.293) 9.
 Shaw, A., & Son (Diamonds), Ltd., Waterloo Works, Waterloo Road, N.W.2. (Gal. 459) 11.
 Shearwater, Ltd., Ditton Road, Widnes, Lancs. (Gal. 621) 10.
 Shepherd & Sons, Ltd., Burscough, nr. Ormskirk, Lancs. (Gal. 415A) 12.
 Sherry, E., Ltd., Homerton Bridge, E.9. (S.332) 8.
 "Shetack" Tool Works, Ltd., The, Tunstall Road, S.W.9. (S.343) 9.
 Shires & Co. (London), Ltd., Greenbottom Works, Guiseley, Yorks. (N.277) 8.
 Shockcrete Products, Ltd., Rye House Works, Hoddesdon, Herts. (Gal. 613) 10.
 Silent-Gliss, Ltd., 39, Berners Street, W.1. (Gal. 660) 10.
 Silixine Paints, Ltd., Richford Street, Goldhawk Road, W.6. (C.43) 7.
 Skarsten Manufacturing Co., Ltd., 21, Hyde Way, Welwyn Garden City, Herts. (Gal. 429) 12.
 Slingsby, H. C., Ltd., 89, 95 & 97, Kingsway, W.C.2. (K.235) 7.
 Smart & Brown (Machine Tools), Ltd., 25, Manchester Square, W.1. (Gal. 549) 13.
 Smith, John, & Co. (London), Ltd., Hainault Works, Hainault Road, Chadwell Heath, Romford, Essex. (C.63) 2.
 Smith, S., & Sons (England), Ltd., Waterloo Road, N.W.2. (M.263) 9.
 Smith & Wellstood, Ltd., Bonnybridge, Stirlingshire. (L.248/9) 4.
 Smith's Fireproof Floors, Ltd., Imber Court, East Molesey, Surrey. (P.294/5) 9.
 Solid Smokeless Fuels Federation, 74, Grosvenor Street, W.1. (K.223) 4.
 Solignum, Ltd., 30, Norfolk Street, W.C.2. (Gal. 493) 12.
 Sommerfelds, Ltd., Wellington, Shropshire. (E.113) 2.
 South Eastern Brick & Tile Federation, 20, Southampton Place, W.C.1. (E.92) 7.
 Sponcel, Ltd., 40, Chancery Lane, W.C.2. (Gal. 404) 12.
 Standard Catalogue Co., Ltd., The, 26, Bloomsbury Way, W.C.1. (K.226) 4.
 Stanley, W. F., & Co., Ltd., New Eltham, S.E.9. (S.341) 9.
 Steel Radiators, Ltd., Stelrad Works, Bridge Road, Southall, Mx. (P.301) 8.
 Steel Scaffolding Co., Ltd., 82, Victoria Street, S.W.1. (D.76/7) 3.
 Stenners of Tiverton, Ltd., Lowman Works, Tiverton, Devon. (V.367) 1.
 Stephens & Carter, Ltd., 727/761, Harrow Road, N.W.10. (R.326) 8.
 Stewarts and Lloyds, Ltd., 8, Gough Square, Fleet Street, E.C.4. (R.324) 9.
 Stothert & Pitt, Ltd., 38, Victoria Street, S.W.1. (O.288/9) 9.
 Stramit Boards, Ltd., Packet Boat Dock, Cowley Peachey, nr. Uxbridge, Mx. (L.237/8) 7.
 Sundstrand Sanders, Ltd., Shipston-on-Stour, Warwicks. (Gal. 411) 12.
 Surfex Flooring Co., Ltd., 48, High Street, Camberley, Surrey. (Gal. 538) 13.
 Sussex Cement & Concrete Products, Hillside, Washington, Sussex. (Gal. 601) 10.
 Sussex & Dorking United Brick Companies, Ltd., Graylands, Horsham, Sussex. (F.135/6) 7.

T

Taylor, Robert, & Co. (Ironfounders Sales), Ltd., Larnbert, Stirlingshire. (N.270) 9.
 Tee Beam Structures (Britain), Ltd., 457, Union Street, Aberdeen. (Gal. 644) 10.
 Teleflex Products, Ltd., Basildon, Essex. (Y.389) 1.
 Teles Smith, Ltd., 8, South Wharf, W.2. (X.378) 1.
 Terrapin, Ltd., 6, Portman Mansions, W.1. (Gal. 617) 10.
 Thompson, John, Beacon Windows, Ltd., Beacon Works, Wolverhampton. (P.298) 8.
 Thwaites Agricultural Eng. Co., Ltd., The, Welsh Road Works, Cublington, Leamington Spa, Warwicks. (H.171, J.214) 2.
 Thynne, H. & G., Ltd., Victoria Tile Works, Hereford. (Gal. 552/4) 13.
 Timber Development Association, 21, College Hill, E.C.4. (P.299) 8.
 Tin Research Institute, Fraser Road, Perivale, Greenford, Mx. (Gal. 456) 11.
 Trianco, Ltd., Imber Court, East Molesey, Surrey. (O.290/1) 9.
 Tretol, Ltd., Tretol House, The Hyde, N.W.9. (H.186, J.199) 6.
 Triplex Foundry, Ltd., Great Bridge, Tipton, Staffs. (N.269) 9.
 True Flue Ltd., Convector House, Acacia Road, N.W.8. (A.11) 5.
 Tubewrights, Ltd., 25, Buckingham Gate, S.W.1. (Gal. 542/4) 13.
 Turner, J. A., & Co., Ltd., Jaytex Works, Pink Bank Lane, Manchester 12. (Gal. 652) 10.

Turners Asbestos Cement Co., Ltd., Trafford Park Manchester 17. (C.53/4) 5.
 Tyre Products, Ltd., 303, Harrow Road, Wembley, Mx. (Gal. 479) 11.
 Tyzack, S., & Son, Ltd., 341/345, Old Street, E.C.1. (Y.386) 1.

U

Udalls Prestressed Concrete, Ltd., West Quay Road, Southampton. (Gal. 634/5) 10.
 Unique Balance Co., Ltd., West Hendford, Yeovil, Som. (Gal. 505, 507) 13.
 United Merchants, Ltd., 418/422, Strand, W.C.2. (F.125/6) 4.
 United Sponge Co., Ltd., The, 63, Highway, E.1. (Gal. 417) 12.
 United Steel Structural Co., Ltd., Frodingham Works, Scunthorpe, Lincs. (S.331) 8.
 Universal Asbestos Manufacturing Co., Ltd., Tolpits, Watford, Herts. (O.283) 8.

V

Van Moppes, L. M., & Sons (Diamond Tools), Ltd., Basingstoke, Hants. (Gal. 443) 11.
 Venetian Vogue, Ltd., 408, Montrose Avenue, Slough, Bucks. (O.280) 8.
 Vinatex, Ltd., Carshalton, Surrey. (S.333) 8.
 Vitreflex, Ltd., Dafen, Llanelly, South Wales. (S.337) 8.
 Vulcan Manufacturing (Wolverhampton), Ltd., "New Griffin" Works, Wolverhampton. (Gal. 439/41) 11.

W

"W" Prefabricated Concrete Buildings, Ltd., Cinderbank, Netherton, Dudley, Worcs. (Gal. 654/5) 10.
 Wadkin, Ltd., Green Lane Works, Leicester. (U.361) 1.
 Wallis & Co. (Long Eaton), Ltd., Nottingham Road, Long Eaton, nr. Nottingham. (A.9) 5.
 Ward & Co., 128, Cheltenham Road, Bristol 6. (Gal. 667) 10.
 Ward, Thos. W., Ltd., Albion Works, Sheffield. (H.168/9, J.216) 2.
 Ward's Flexible Rod Co., Ltd., 81, High Street, Farnborough, Kent. (L.251) 4.
 Wareite, Ltd., Ware, Herts. (D.81) 3.
 Warry Patent Building Equipment Co., Ltd., North Feltham Trading Estate, Faggs Road, Feltham, Mx. (D.67) 2.
 Warsop Power Tools, Ltd., 27, Regent Street, S.W.1. (K.222) 4.
 Watts (Factors), Ltd., High Street, Lydney, Glos. (M.264) 9.
 Weatherill, F. E., Ltd., Tewin Road, Welwyn Garden City, Herts. (X.379) 1.
 Westland Engineers, Ltd., Yeovil, Som. (Gal. 458/60) 11.
 Westminster Bank, Ltd., 41, Lothbury, E.C.2. (Gal. 568/9) 13.
 White, Thos., & Sons, Ltd., Paisley. (U.362, V.366, W.374) 1.
 Whitehill Spindle Tools, Ltd., 12, Woodside Road, New Malden, Surrey. (Z.397) 1.
 Whitlock Bros., Ltd., Great Yeldam, Essex. (E.111) 2.
 Wibau, G.m.b.H., Rothenbergen, Germany. (359) 8.
 Wickham Engineering Co., Ltd., Dashwood House, Old Broad Street, E.C.2. (G.160/1) 2.
 Williams, John, & Sons (Cardiff), Ltd., Bank Chambers, Finsbury Park, N.4. (O.281) 8.
 Williams & Williams, Ltd., Reliance Works, Chester. (D.83) 6.
 Wilson Brothers (Leeds), Ltd., Victoria Road, Holbeck, Leeds 11. (W.376) 1.
 Wilson (Iberia) Coal Co., Ltd., 321, Salisbury House, E.C.2. (Gal. 646) 10.
 Winsorfloor, Ltd., Enham Arch Works, Newbury Road, Andover, Hants. (Gal. 661) 10.
 Wiltor, Ltd., 107/9, Lancaster Street, Birmingham 4. (K.218) 2.
 Wolf Electric Tools, Ltd., Pioneer Works, Hanger Lane, W.5. (Y.392/3) 1.

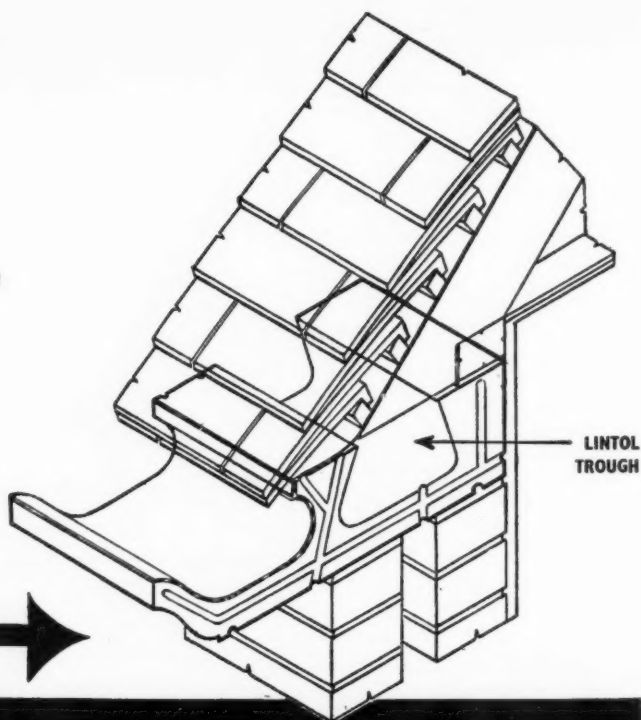
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Yorkshire Copper Works, Ltd., The, Leeds. (G.146) 6.
 Youngman, W. C., Ltd., Wandsworth Works, Wandsworth Road, S.W.8. (H.176, J.209, K.221) 4.

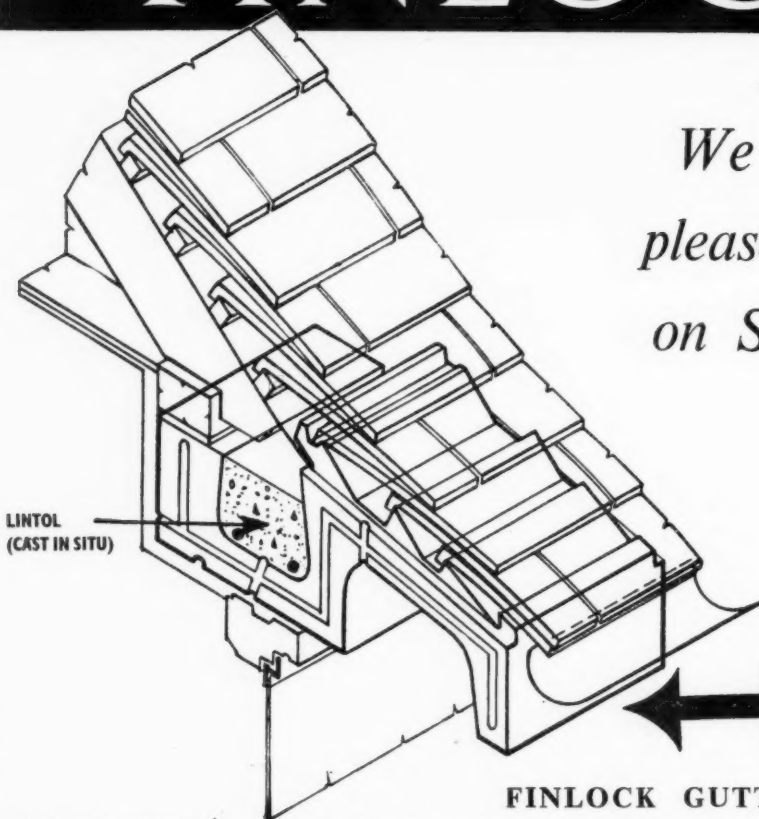
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Robin Mudie went behind the scenes at the Building Exhibition, Olympia, some time before it was opened to the public. Below are his impressions of his visit.

THE BUILDING EXHIBITION PRE-VISITED

By Robin Mudie

Henri Cartier-Bresson would enjoy it all right. There is Olympia in a half light as evening falls like inky milk upon the high, latticed roof filling the vast tunnels of glass with melancholy yellowness. Sunday. Double time, matey, or time and a half when autumnal Mr. Butler's had his whack. You come in by the traffic gates and wander amid the planned disorder of construction. Before you a laden lorry creeps delicately back, completely blocking an aisle. You squeeze round and a half-finished stand seems to loom out of a mist like a ghost-ship with the name *Gypsum Mines* on her prow. But on most sites work has only just commenced. The electric cable conduits are down, and over some of them the floors so that the cable ends poke up through holes like frozen cat o' nine tails. More lorries move in. An architect steps briskly along, a rolled tracing under his arm. A dumpy, three-ton crane (it's called a machinery-lifter) lowers a top girder as delicately balanced as laboratory scales. On some deserted pitch an empty dog-cart waits for no one.

The noise can be imagined. Close up against one of the giant compressors you will think it is about to explode. Its pipes trail away through skeletons of alloy and its big curved mudguard shudders in non-sympathy. It is the power that has to be applied in Olympia that impresses; pneumatic drills working on the hard grey floor for the bedding-in of girders, then the riveting and welding and the buzzing of high-speed hand tools. On one stand a man drills lightly into the floor and the vibration causes the drilled waste to come crawling out of the hole and across the floor like agitated woodlice. Such controlled, concentrated power makes the single ham-

mering-in of a nail seem as outdated as candlelight.

What next impresses? It is the variety of structural materials. If that seems trite remember that you seldom see so many together in the rough and in course of erection. Smartened-up alloys, tubes and timbers, etc., are all very well for sales purposes, but this way they seem to tell a more impressive story. So on you go, picking your way between heaps of sand, sacks of cement, stacks of straw-protected glazed bricks and barriers of crates marked CERAMICS DO NOT DROP to, say, the small hall. There you notice that some of the long wires that hang down in twists from the roof, their ends coiled like nooses, are already taut suspending canopies on some of the stands.

Is this cheating, from a design point of view? Surely no more than the dramatic aerial first entrance of Peter Pan. But where are the architects today? And where are their friends the designers? It is early for many of them yet. At this stage Olympia is print-built. There are prints everywhere. Spread-out prints on stacks of paving stones, rolled-up prints in empty metal drums. A few architects are present. They are tall men in heavy unbuttoned overcoats, their hats on briefcases safely tucked away in clean places. They have given up their cosy Sunday afternoons for this and their faces show confidence and professional peace of mind as they chat to the foremen and puff at their pipes. About five o'clock the noise, which has been lessening, begins to die down, and group by group the lights begin to go out. Knocking-off time. But on the improvised coat racks (a length of timber and a row of nails) one or two workmen's coats remain. You scarcely notice how dark it is getting, until something makes you look up into the dark of the roof in the main hall and straight into the strong, down-beating moons of lamps arranged in groups of four and at the long wires glistening as they twist down. Shouting commences. Olympia is being cleared. Later, in almost total darkness, LADIES and GENTLEMEN and EXIT signs float conspicuously in mid-air. "Blythe Road only," you are told, and going out by the Blythe Road exit you look back into Olympia and with its platforms and ladders it seems like a gigantic film studio calling for the monarchy of Carol Reed.

A day or so later, change has accumulated geometrically. Flesh is being

grafted round the skeletons. There is a feeling for tidiness already as auto-trucks rumble round collecting rubbish which the broad-broom squads have swept up. Now white overalls predominate. The artisans are in. Instead of the smell of dogs after the dog show there is a smell of paint. A few of the smaller stands are finished and painted and the joinery is done. There is still some high-speed drilling here and there and by one stand a huge negro is bending iron rods in a vice. On another stand a brand new coir carpet rests hopefully, covered with wood chips, and on a third the letters RTIN WAT suggest that partitioning is being improvised. Sooner or later as you stroll around, a stray piece of coiled flex will get caught up in your trouser bottoms and you will have to stop to kick it clear.

There is a strange reverence for that which has been completed. It looks so fresh and so vulnerable yet somehow you feel that it will not be touched. What halts you, as it might anywhere, is the graceful throwing-up, and dexterous catching, of the bricks. So too, the bricklayer surrounded by assistants like a grand chef.

It is all very far advanced and there is a week yet to go. Where they are separate from the stands the exhibits themselves still have to be moved in, and nearer the time, the booze, pots of paint, and such appurtenances as the architect may have forgotten to provide for. Finally the harrassed sales staffs pursued by irate directors. That the JOURNAL goes to press too early to describe the furor of the last night's preparations does not matter very much. It is legendary enough. What the mind boggles at is the amount of money that must be spent on the Building Exhibition. Let us hope that everybody gets something out of it, though it doesn't seem possible. Not everybody. Or maybe that is false economics.

Announcements

PROFESSIONAL

Arthur T. Beer, A.R.I.B.A., has moved to Victoria Chambers, Bridge Street, Newport, Mon. (Tel.: Business, Newport 63325; Residence, Newport 72316.)

The Architecture Department of the School of Art, Huddersfield Technical College, has moved to Transport Buildings, Longroyd Bridge, and the lecturer in charge and the students will be pleased to receive trade catalogues and samples, particularly those suitable for inclusion in a "Samples Museum."

S. J. Smith and Partners, Quantity Surveyors, have moved to Alma House, Alma Street, Luton, Beds. Telephone number: Luton 4896.

Readers requiring up-to-date information on building products and services may complete and post this form to the Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1

ENQUIRY FORM

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17.11.55

D. Harvey-Browne, A.R.I.C.S., and K. E. Parker, A.R.I.C.S., have entered into partnership. The style and address of the firm will be Messrs. Parker and Browne, Chartered Quantity Surveyors, 71, Wimpole Street, W.1, telephone number Welbeck 1470.

Max Lock & Partners, F./A./A.R.I.B.A., M./A.M.T.P.L., have moved their London office (only) to 109, Great Russell Street, W.C.1, telephone number Museum 2193.

TRADE

C. G. Coulton has been appointed as the Birmingham Manager of Messrs. Gent & Co. Ltd., Faraday Works, Leicester.

The London offices of Messrs. Chance Brothers Ltd. are now at 29/30, St. James's Street, S.W.1, telephone number Whitehall 6002.

J. S. Dumeresque, A.M.I.E.E., has been appointed general manager of Semtex Ltd., the Dunlop subsidiary.

Cantie Switches Ltd. have established new branch offices as follows:—248, West George Street, Glasgow, C.2, telephone number and telegrams, Central 3739 (under the management of Mr. T. C. Paton, Scottish Area Manager); 32, Deansgate, Manchester, 3, telephone number and telegrams, Blackfriars 3851 (Mr. J. T. Jolley, Manager for the North Western Area); Room No. 31, Sun Insurance Buildings, Collingwood Street, Newcastle-upon-Tyne, 1, telephone number and telegrams, Newcastle 29171 (Mr. W. K. Freeman, North Eastern Area sales engineer); 37, Talbot Street, Nottingham (Mr. A. E. Royle, East Midlands Area sales engineer). Another branch office will shortly be established at Leeds, under the management of Mr. N. Rayner.

Conder Engineering Co. Ltd. have opened a new branch at Peel House, Lichfield Street, Burton-on-Trent, telephone number Burton-on-Trent 4690.

Mr. Eric Bellingham, at present Director General of the Coal Utilisation Council has been appointed General Manager of Radiation Group Sales Ltd., Solid Fuel Sales Division, as from November 1. His headquarters will be at 7, Stratford Place, London, W.1.

P.I.M. Board Co. Ltd. announce that building operations commenced on September 1 at Millboard Works, Sunbury-on-Thames, connected with the foundations and buildings required for a new hardboard manufacturing plant the Company are to bring into production in the Spring of 1956. This is to be the most modern plant in the world and will be able to supply hardboards in a variety of sizes and thicknesses in standard and extra hard qualities.

Karl V. Duncan, of "Ralbren," Duffield Road, Derby, senior representative of Joseph Mason & Co. Ltd., paint manufacturers, of Nottingham Road, Derby, has been appointed to the Board of Directors.

L. A. Hartless has been appointed technical sales representative by Geo. W. King Ltd., Argyle Works, Stevenage, Herts, for their Agricultural and Sliding Door Gear products for the West of England.

S. O. Bouker Ltd. announce that comprehensive stocks of Tenby Accessories are now held at the premises of their Scottish representative, A. Roy Duff. His address is 73, Robertson Street, Glasgow. (Tel.: Glasgow Central 6962).

Richard McCullough has been appointed managing director of Lumenated Ceilings Ltd.

Dallow Lambert & Co. Ltd., Leicester, Pneumatic Dust Control Engineers, have moved to Thurmaston, Leicester. (Tel.: Syston 86931). Telegrams, "Dust," Leicester.



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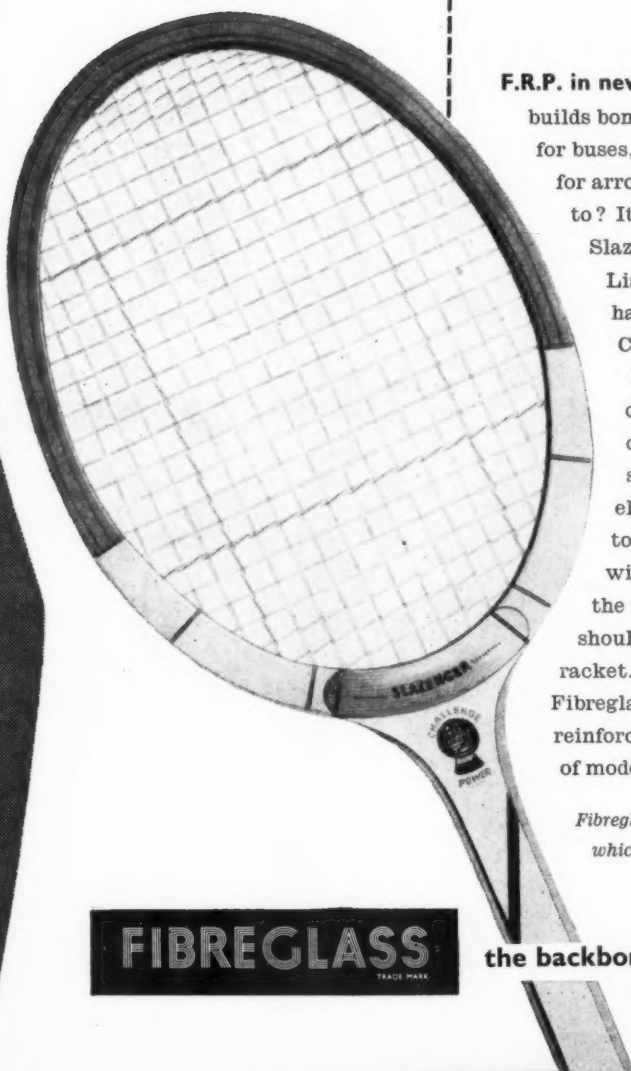
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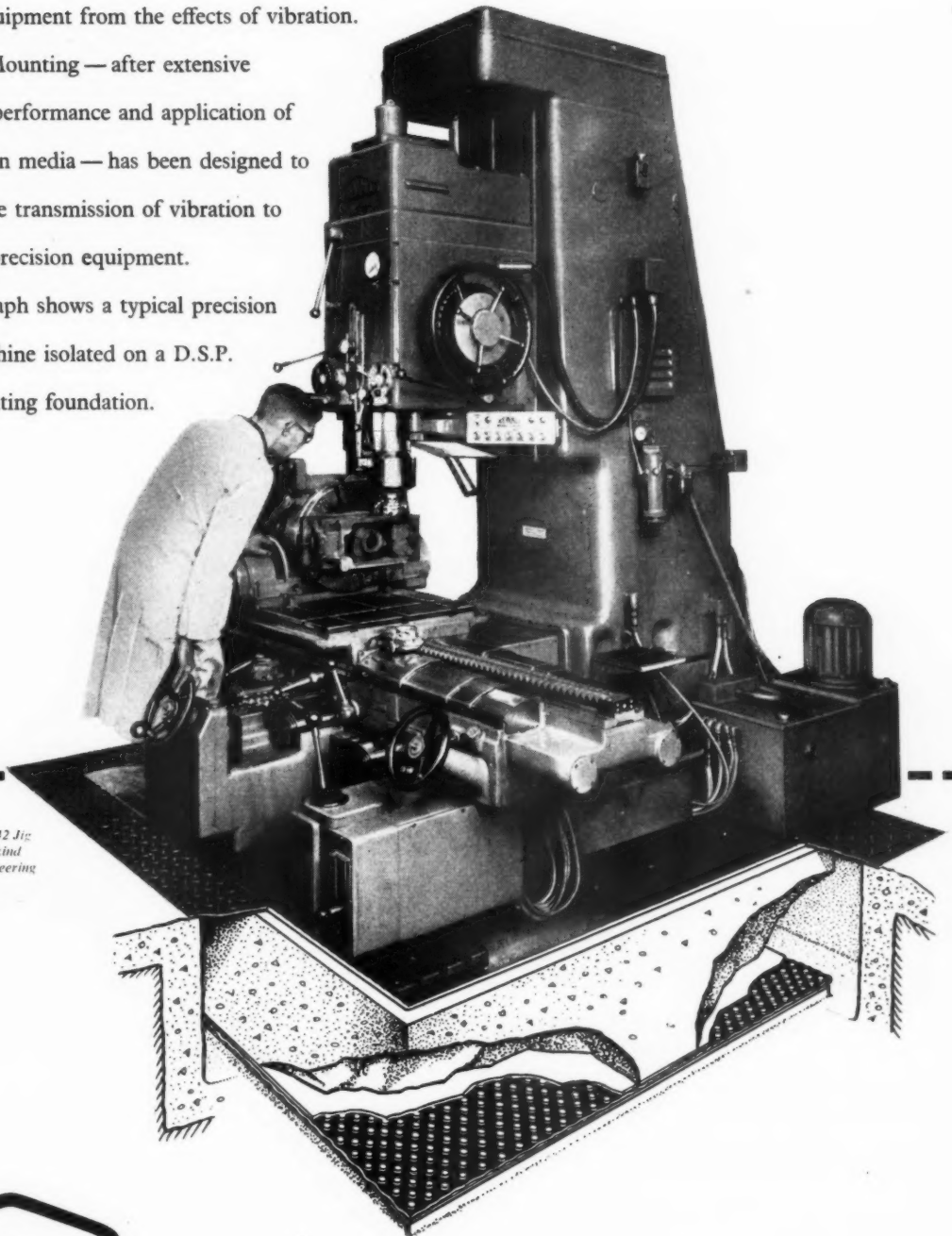
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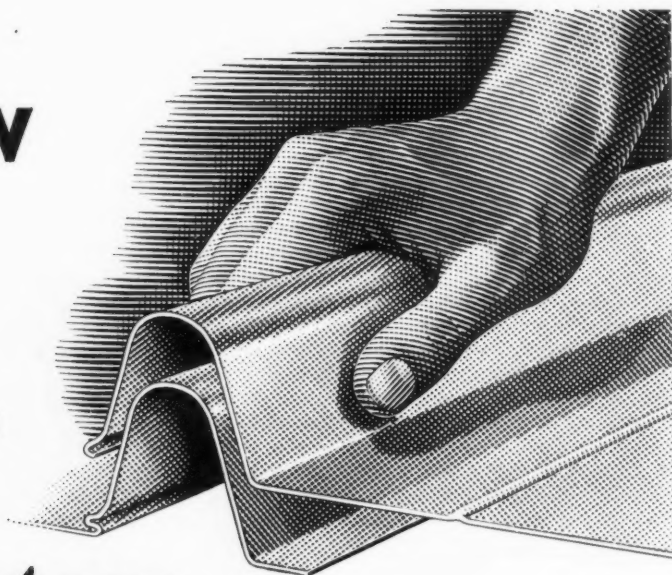
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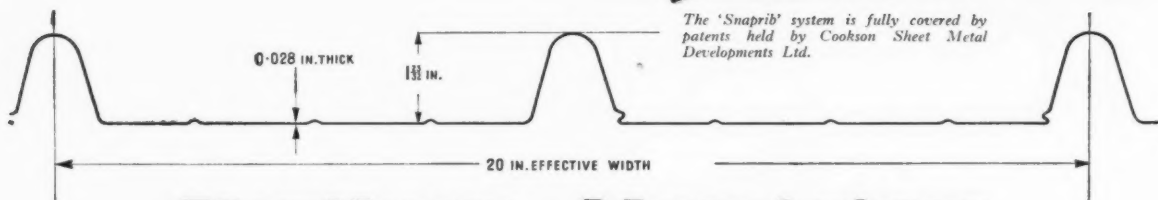
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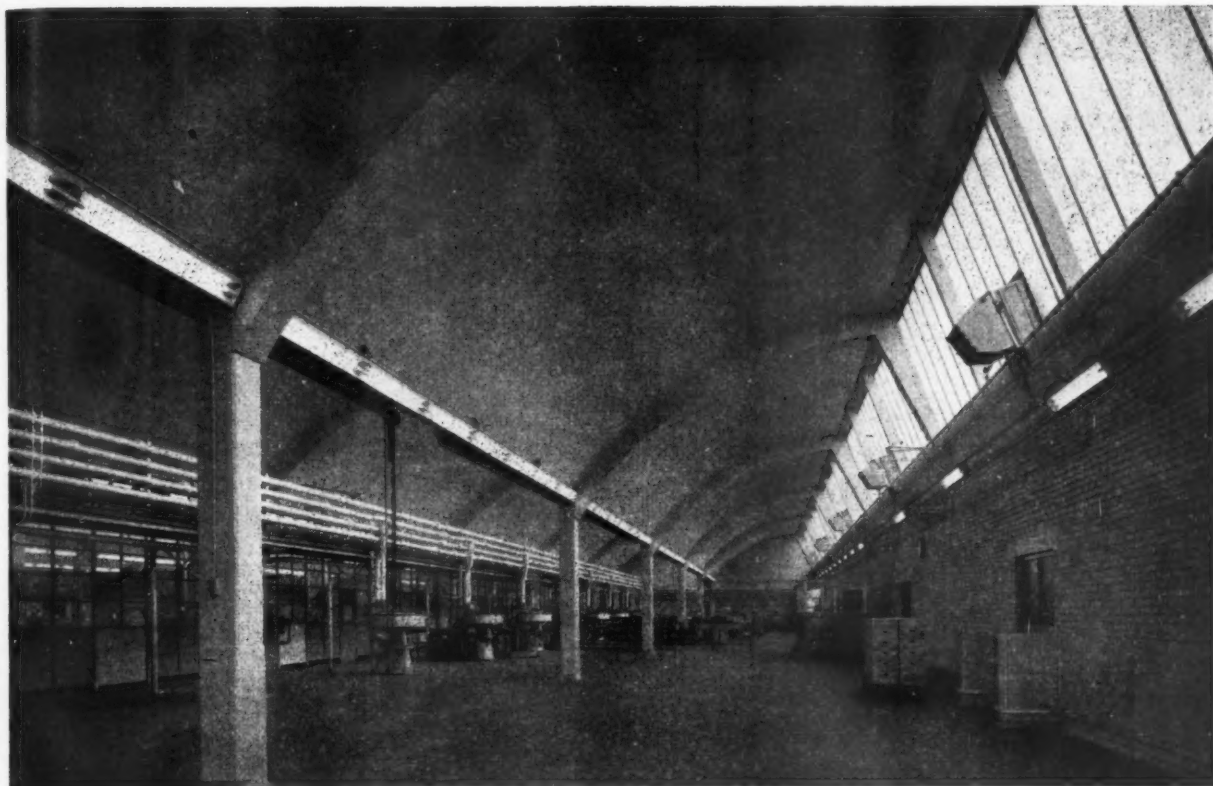
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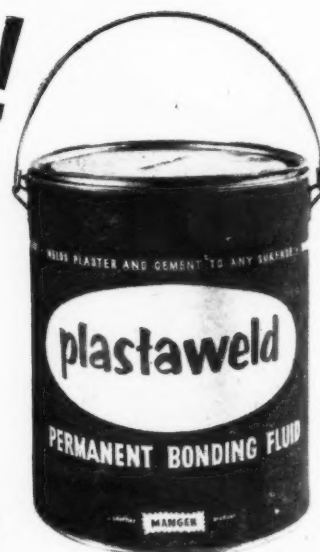
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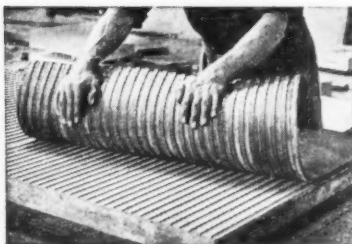


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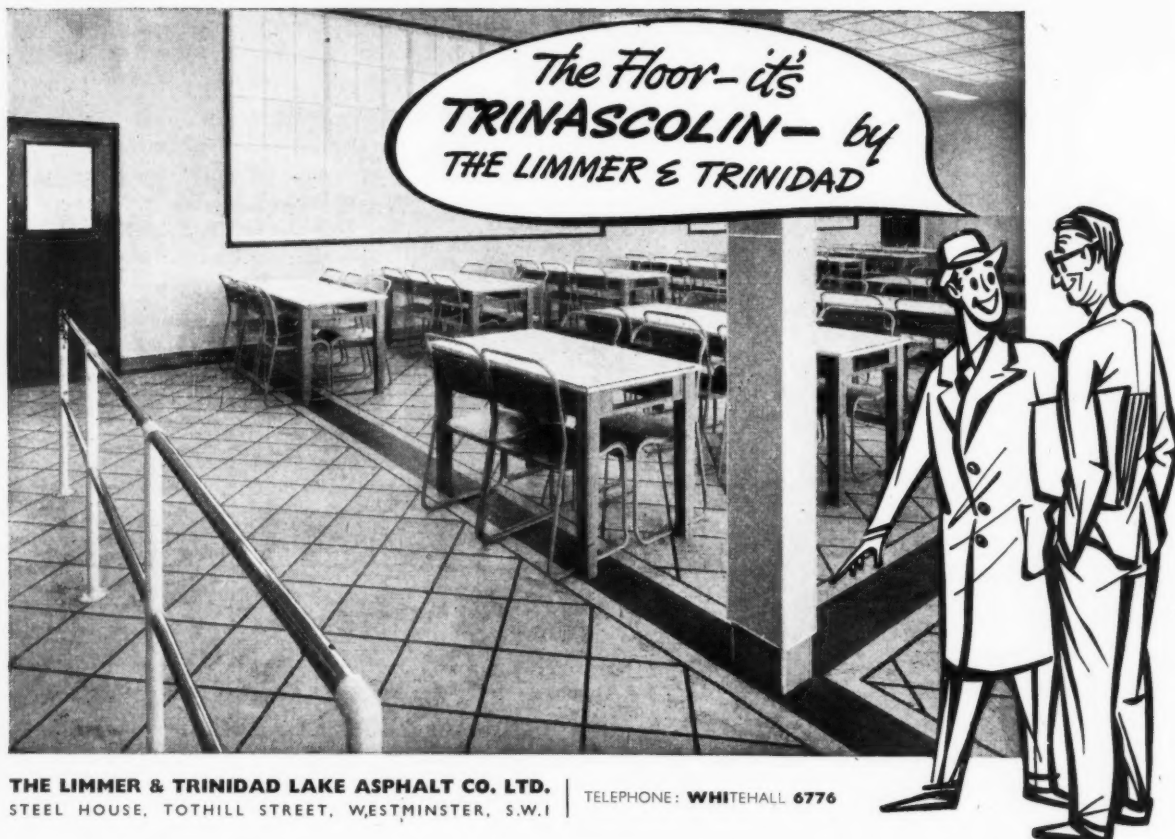
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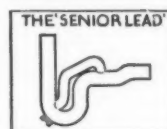
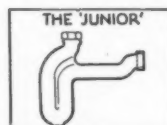
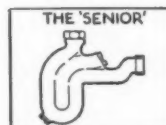
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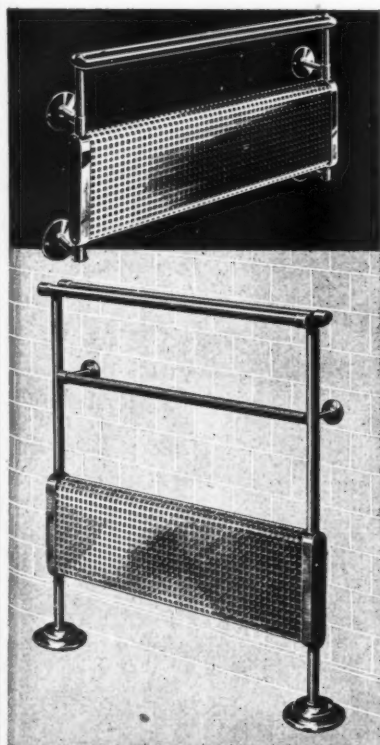
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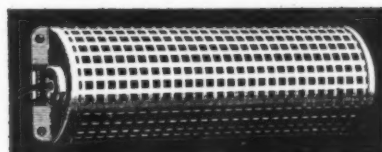
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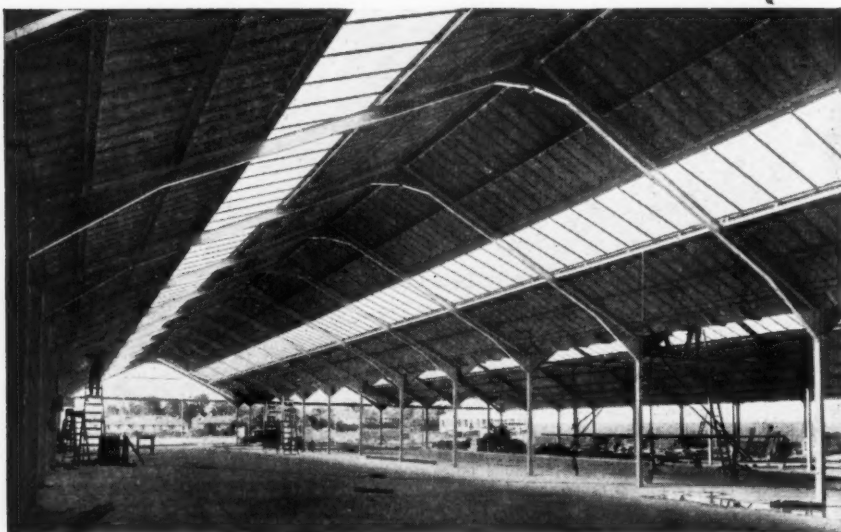
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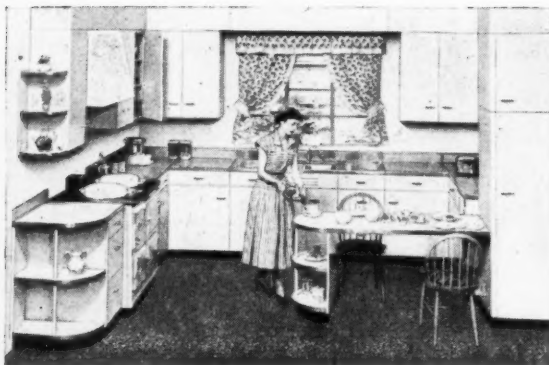
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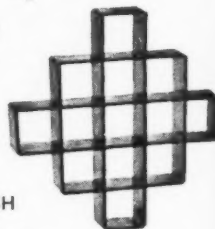
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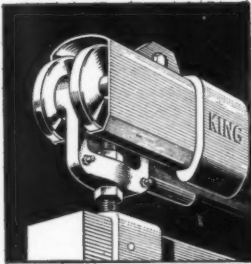
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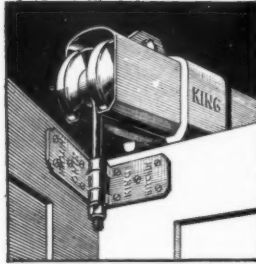
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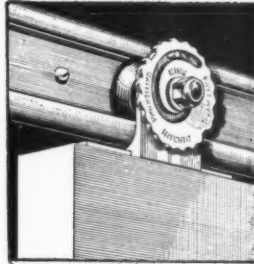
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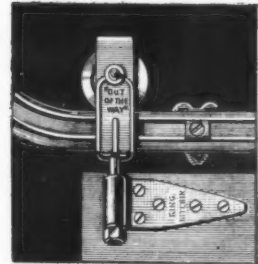
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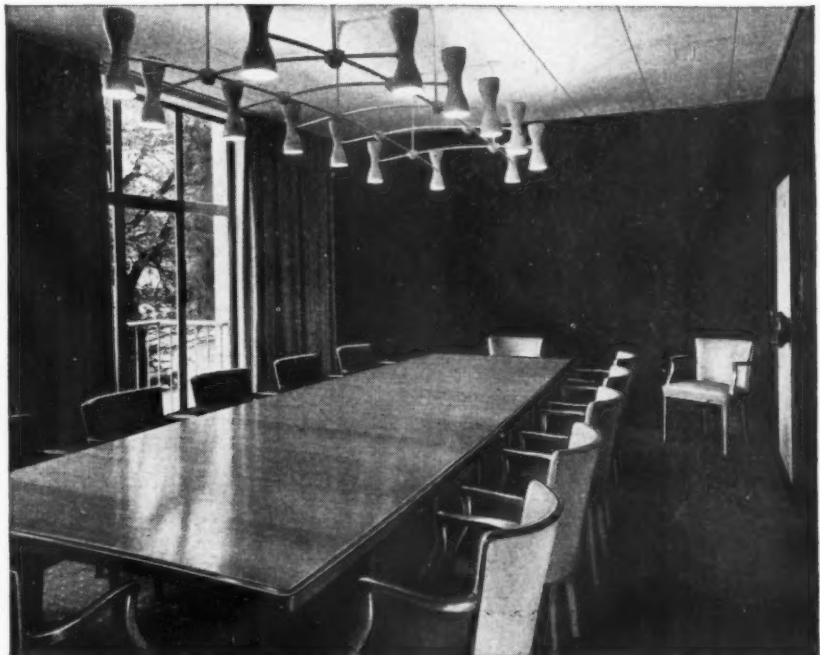
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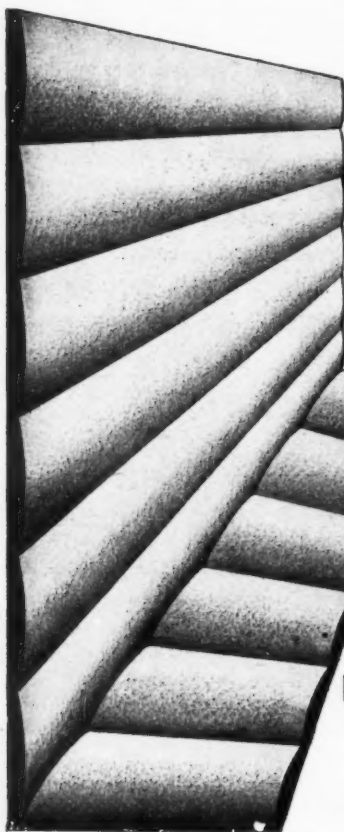
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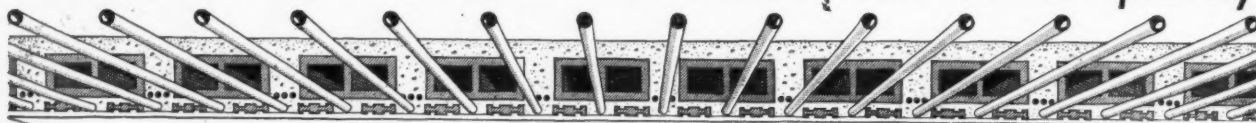
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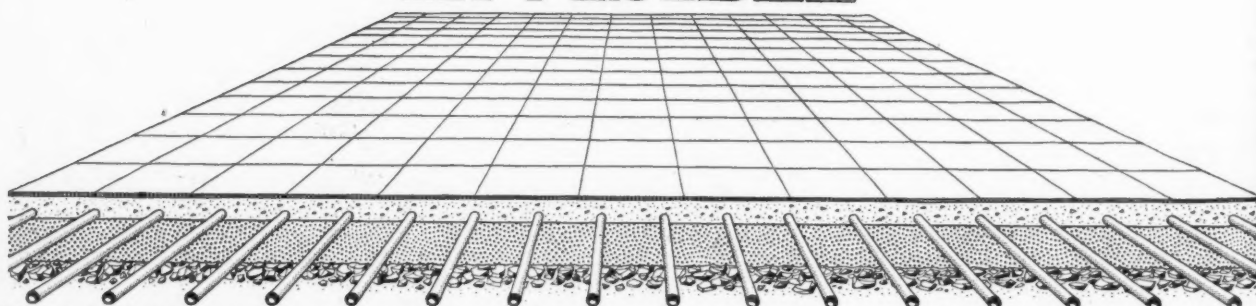
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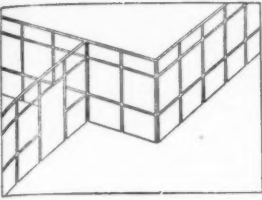


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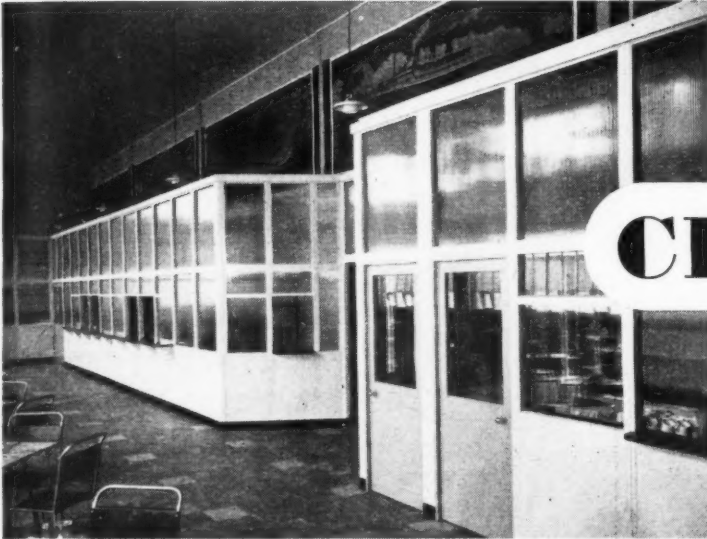
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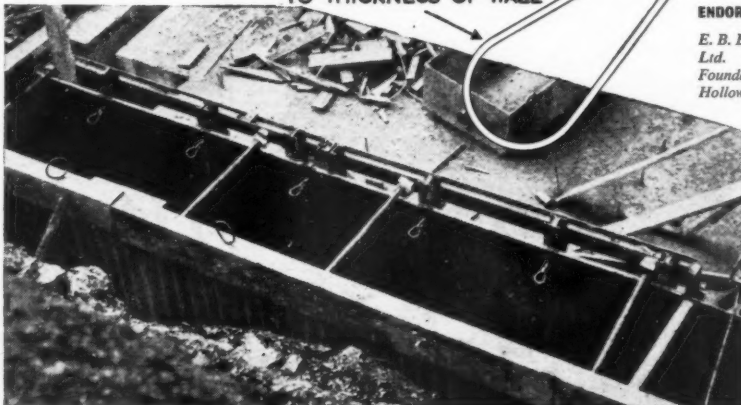
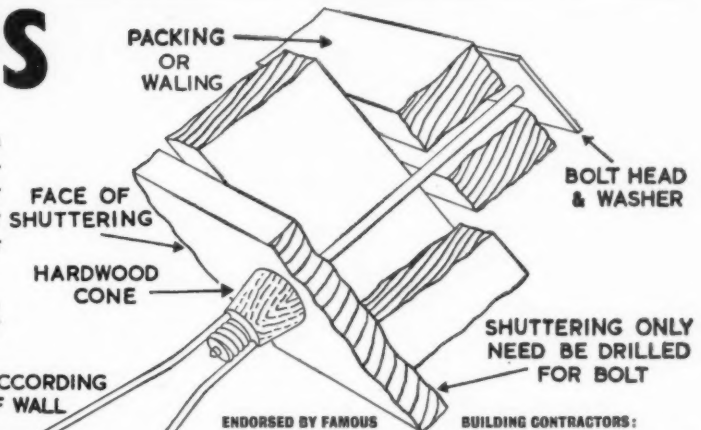
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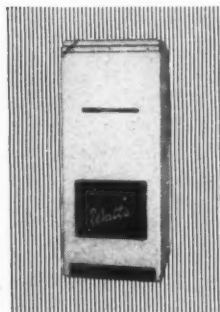
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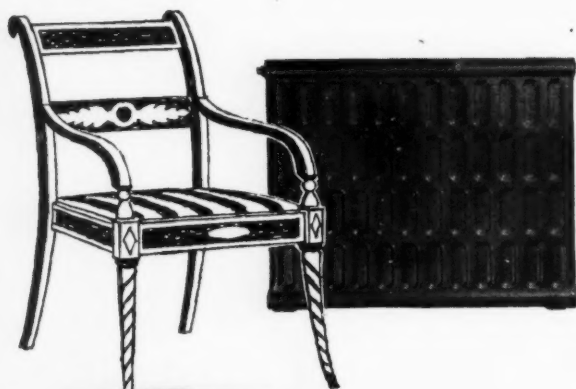
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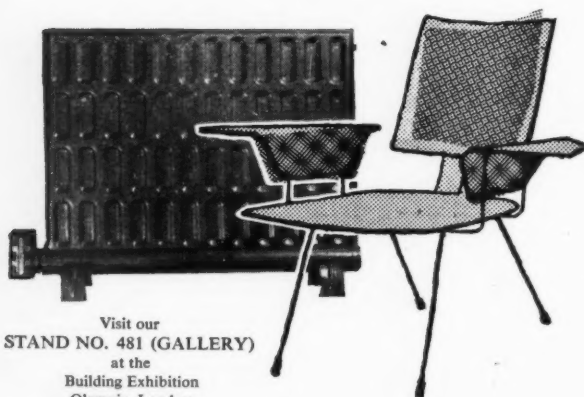
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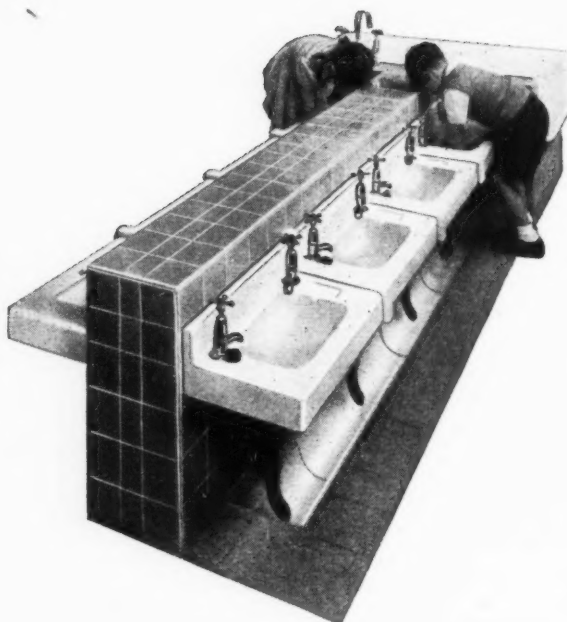
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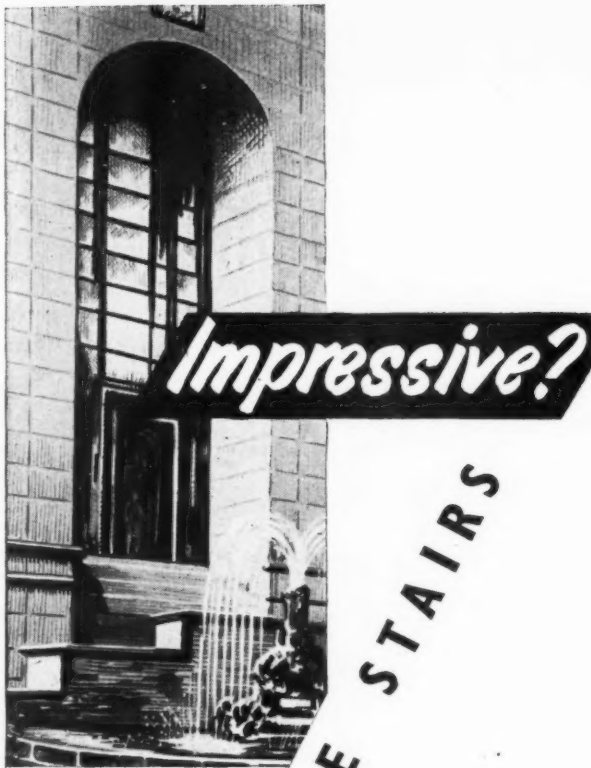
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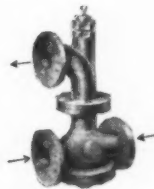
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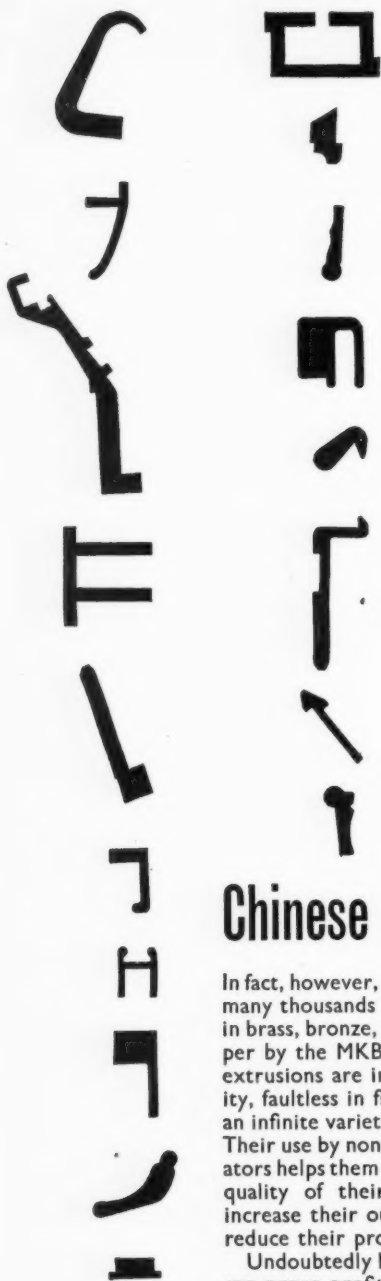
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Electricity from Nuclear Energy

1955	1965	1975
TOTAL GENERATING CAPACITY	TOTAL GENERATING CAPACITY	TOTAL GENERATING CAPACITY
20,000 MW	35-40,000 MW	55-60,000 MW
	2,000 MW	10-15,000 MW
20,000 MW	33-38,000 MW	45-50,000 MW

□ COAL FIRED POWER STATIONS
■ NUCLEAR POWER STATIONS

20 years' development programme

Britain's nuclear power station construction programme provides for twelve such stations to be built at a cost of some £300 million in the next ten years.

The First Ten Years

Work will start on the first two nuclear power stations in 1957. These will each have two gas-cooled reactors and the stations will be in operation by 1960/61. Two further gas-cooled reactor stations—each housing two reactors of improved type—to be begun in 1958/9 will come into service by 1963. The output of these four stations will be between 400,000 and 800,000 kilowatts.

The construction of two groups of four stations each will begin in 1960 and 1961/2 and they will be supplying electricity to the Grid by 1963/4 and 1965 respectively. The first group of stations will probably have one gas-cooled reactor each. The second group will probably utilise liquid-cooled reactors—one high rated reactor each. These stations will add well over 1,000,000 kilowatts to the nation's power resources.

The Second Ten Years

By 1975, it is anticipated that nuclear reactor power stations in Britain will have an aggregate installed capacity of between 10,000,000 and 15,000,000 kilowatts; and about half the national consumption of electricity will be derived from nuclear energy.



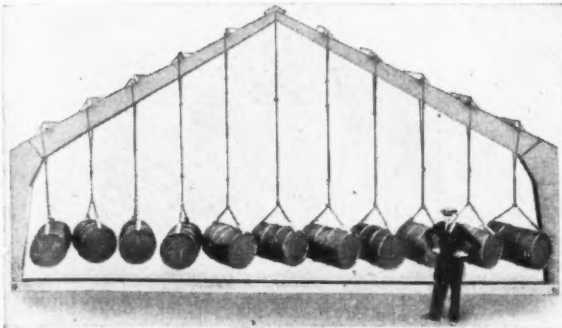
7 YEARS' PROGRESS

47 NEW POWER STATIONS

10,000,000 ADDITIONAL HORSEPOWER INSTALLED

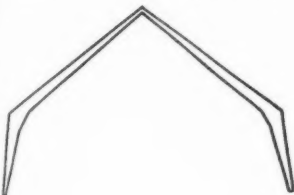


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