

THE ARCHITECTS' JOURNAL



Standard contents

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

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Details of Planning, Construction,
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Wanted and Vacant

No. 3239]

[Vol. 125

THE ARCHITECTURAL PRESS

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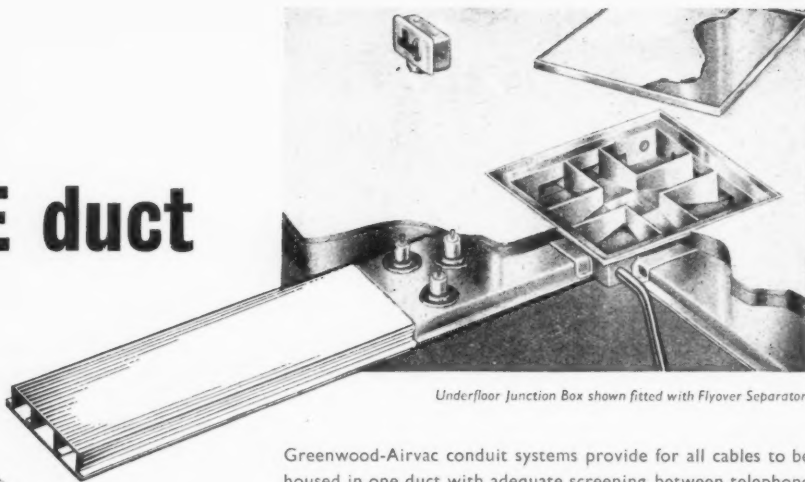
Registered as a Newspaper.

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 1, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
ARCUK	Architects' Registration Council. 78, Wimpole Street, W.1.	Welbeck 2915
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. Reliance 7611, Ext. 1706	
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1.	Museum 5400
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5.	Ealing 9621
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Fremantle 8494
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2	Glasgow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
BRS	Building Research Station. Bucknalls Lane, Watford	Garston 4040
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. British Standards House, 2, Park St., W.1.	Mayfair 9000
BTE	Building Trades Exhibition. 32, Millbank, S.W.1.	Tate Gallery 8134
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Civic Centre, Newport, Mon.	Newport 65491
CAS	County Architects' Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Chichester 3001
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Belgravia 6661
CCP	Council for Codes of Practice. Lambeth Bridge House, S.E.1.	Reliance 7611 Ext. 1284
CDA	Copper Development Association. 55, South Audley Street, W.1.	Grosvenor 8811
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland	
COID	Council of Industrial Design. 28, Haymarket, S.W.1.	Trafalgar 8000
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.1.	Sloane 4280
CUC	Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.	Sloane 9116
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Reading 72255
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
DPT	Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 68, Gloucester Place, W.1.	Welbeck 9966
FASS	Federation of Association of Specialists and Sub-Contractors, Artillery House, Artillery Row, S.W.1.	Abbey 7232
FBBD0	Fibre Building Board Development Organization, Ltd. (Fidor), 47, Princes Gate, Kensington, S.W.7.	Kensington 4577
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	Regent 0221
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd., Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4341
GPDA	Gypsum Plasterboard Development Association, 11, Ironmonger Lane, E.C.2.	Monarch 8888
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
GG	Georgian Group. 2, Chester Street, S.W.1.	Belgravia 3081
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
LAAS	Incorporated Association of Architects and Surveyors. 29, Belgrave Square, S.W.1.	Belgravia 3755
ICA	Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1.	Grosvenor 6186
ICE	Institution of Civil Engineers. 1, Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, Victoria Embankment, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266

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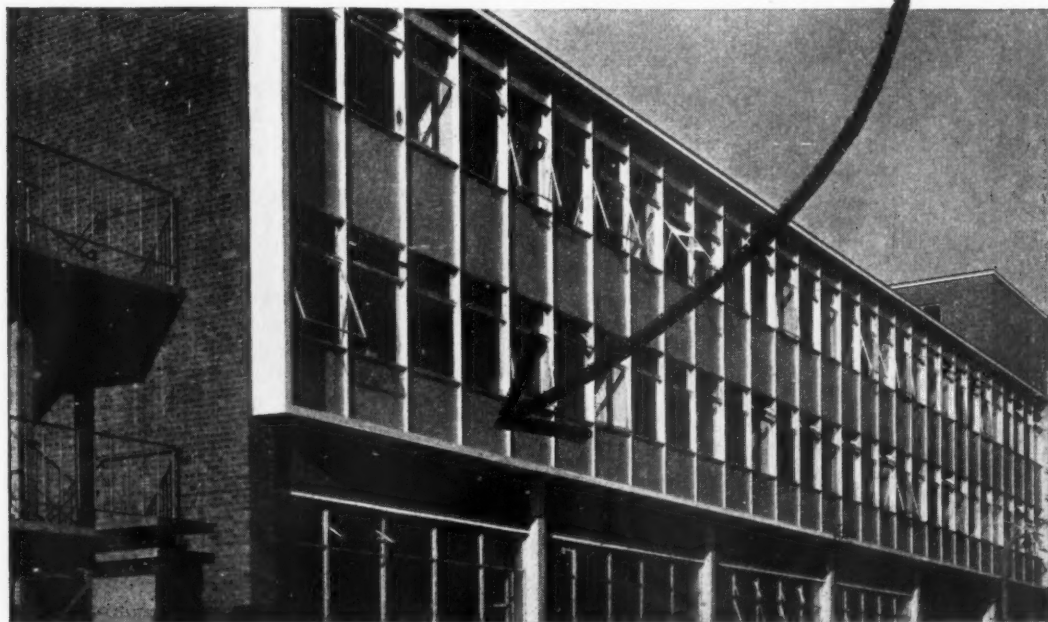


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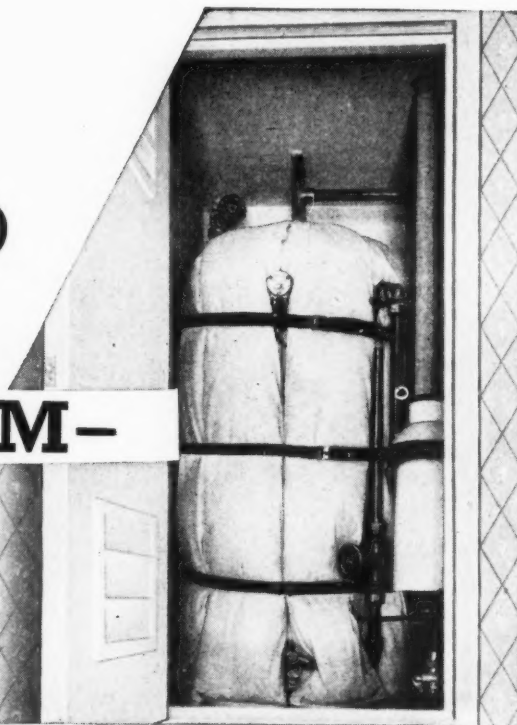
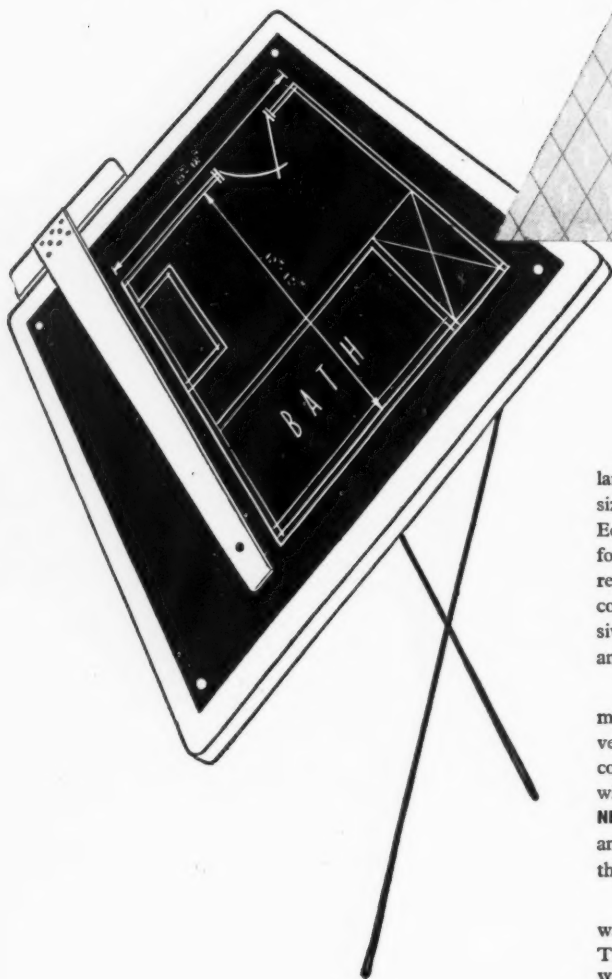
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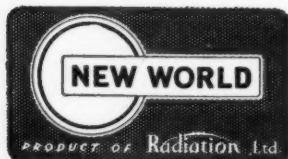
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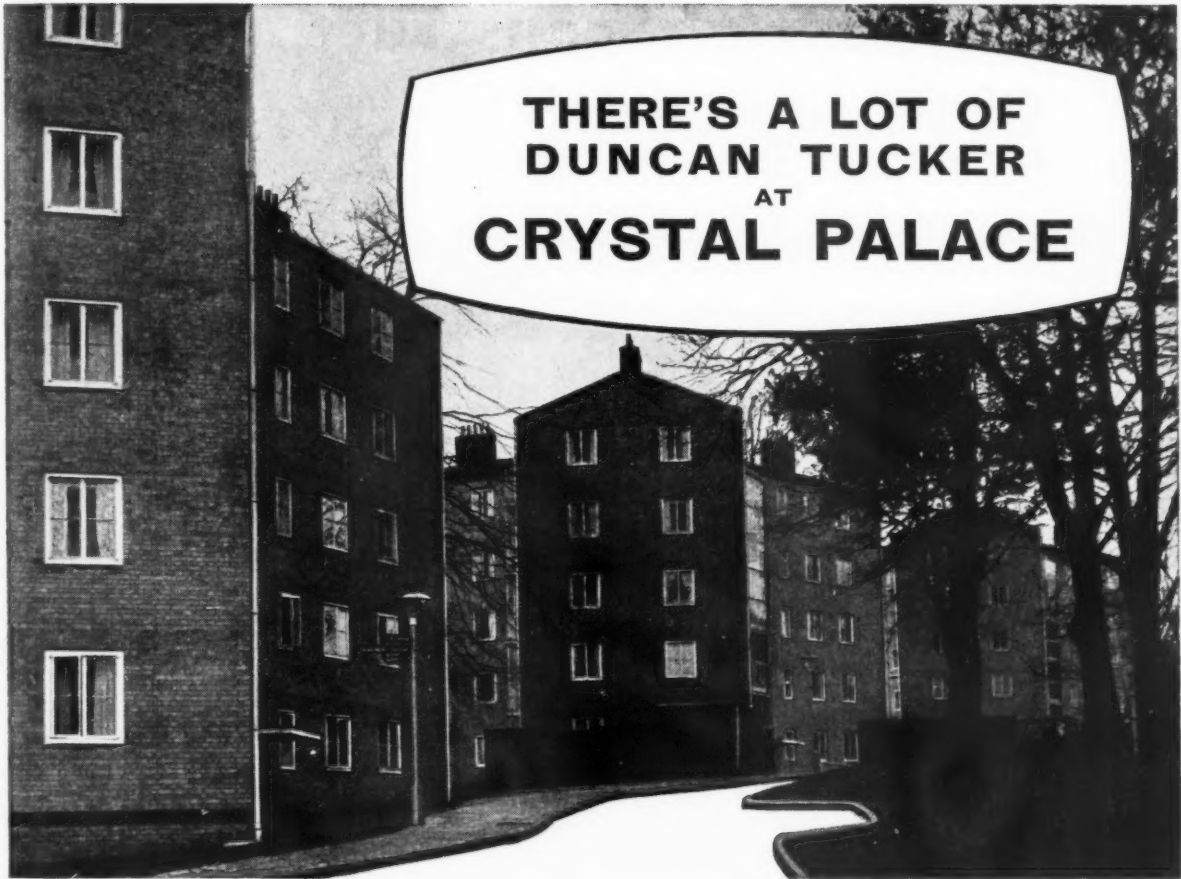
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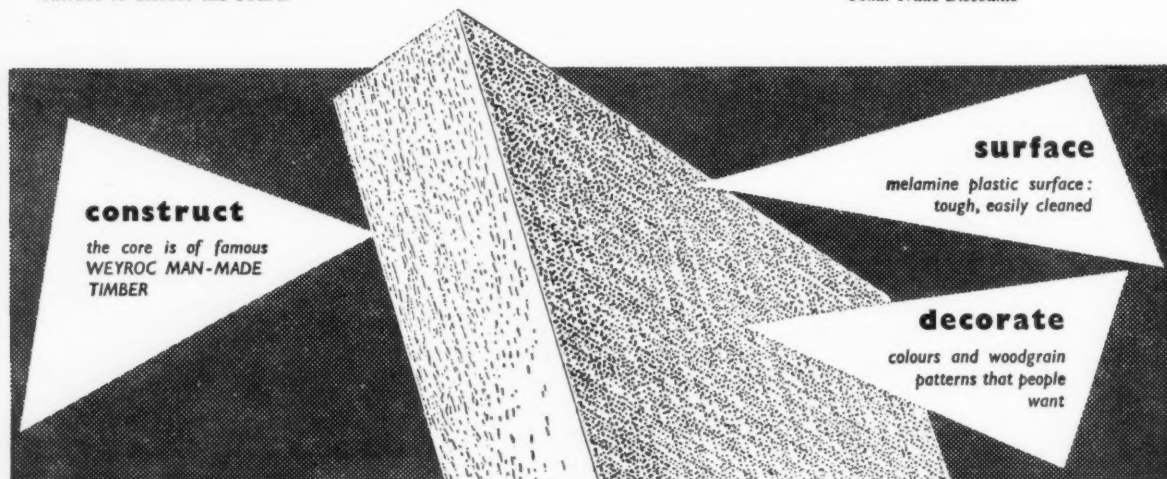
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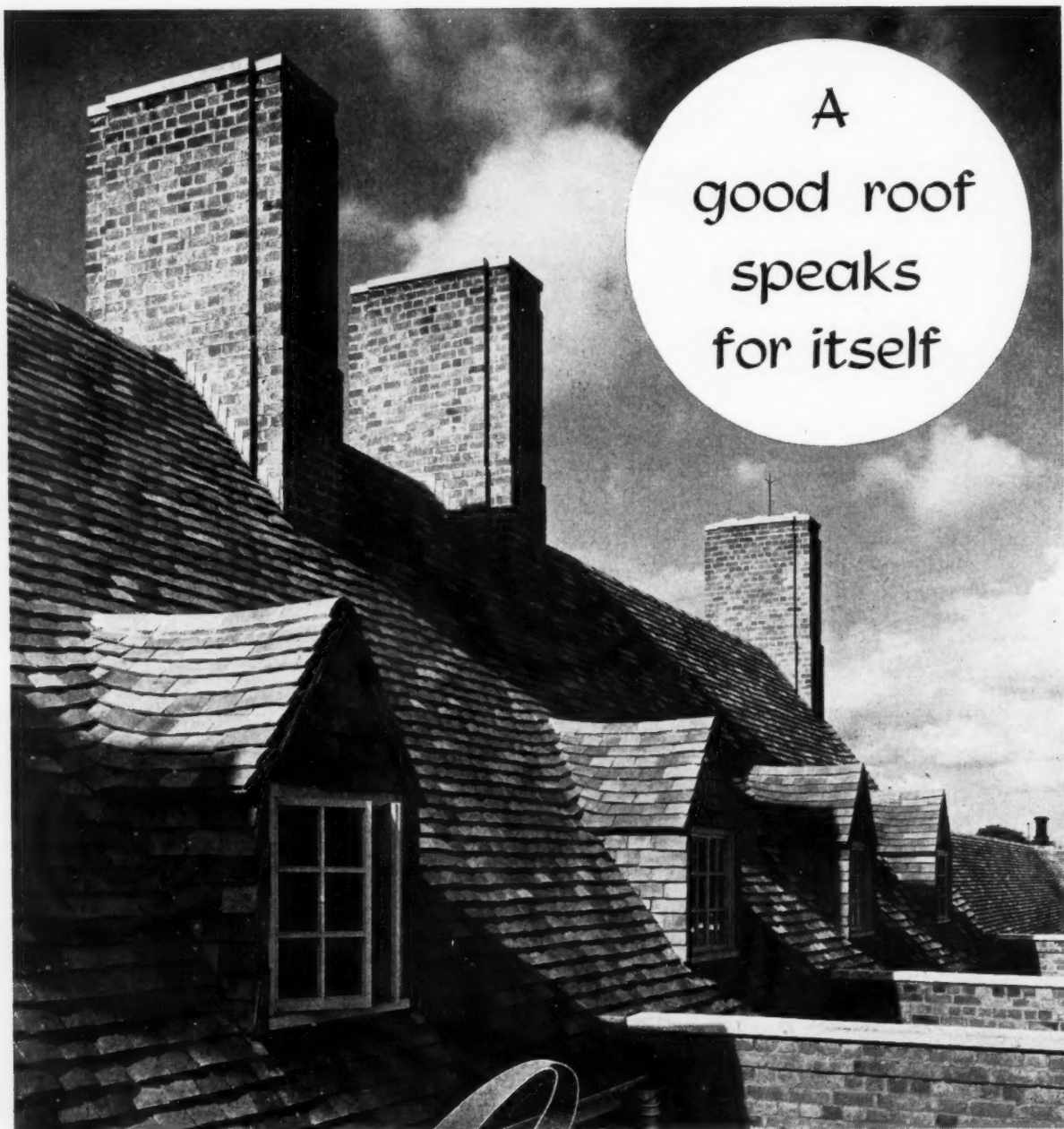
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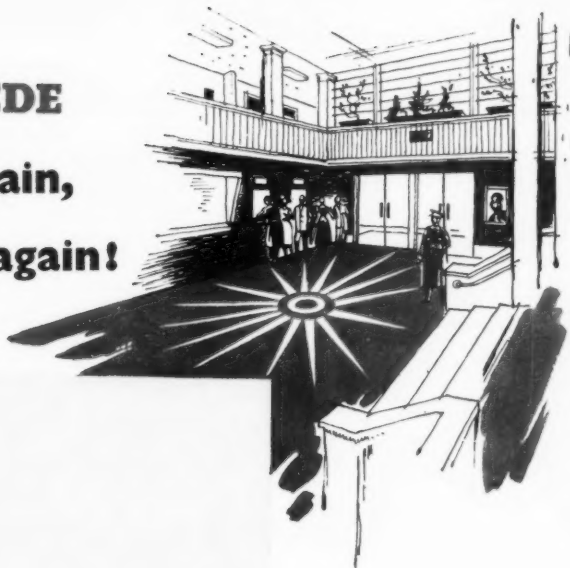
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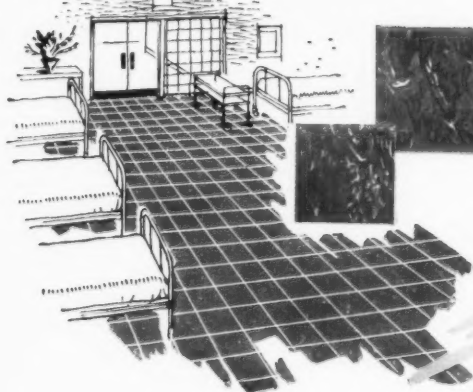
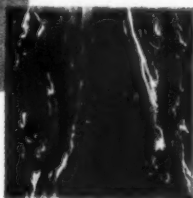
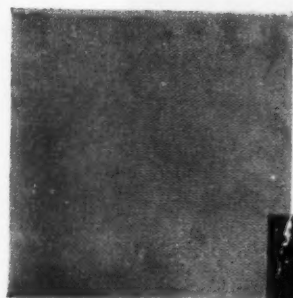
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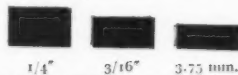
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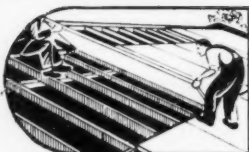
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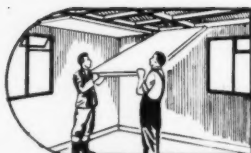
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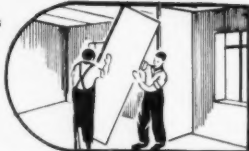


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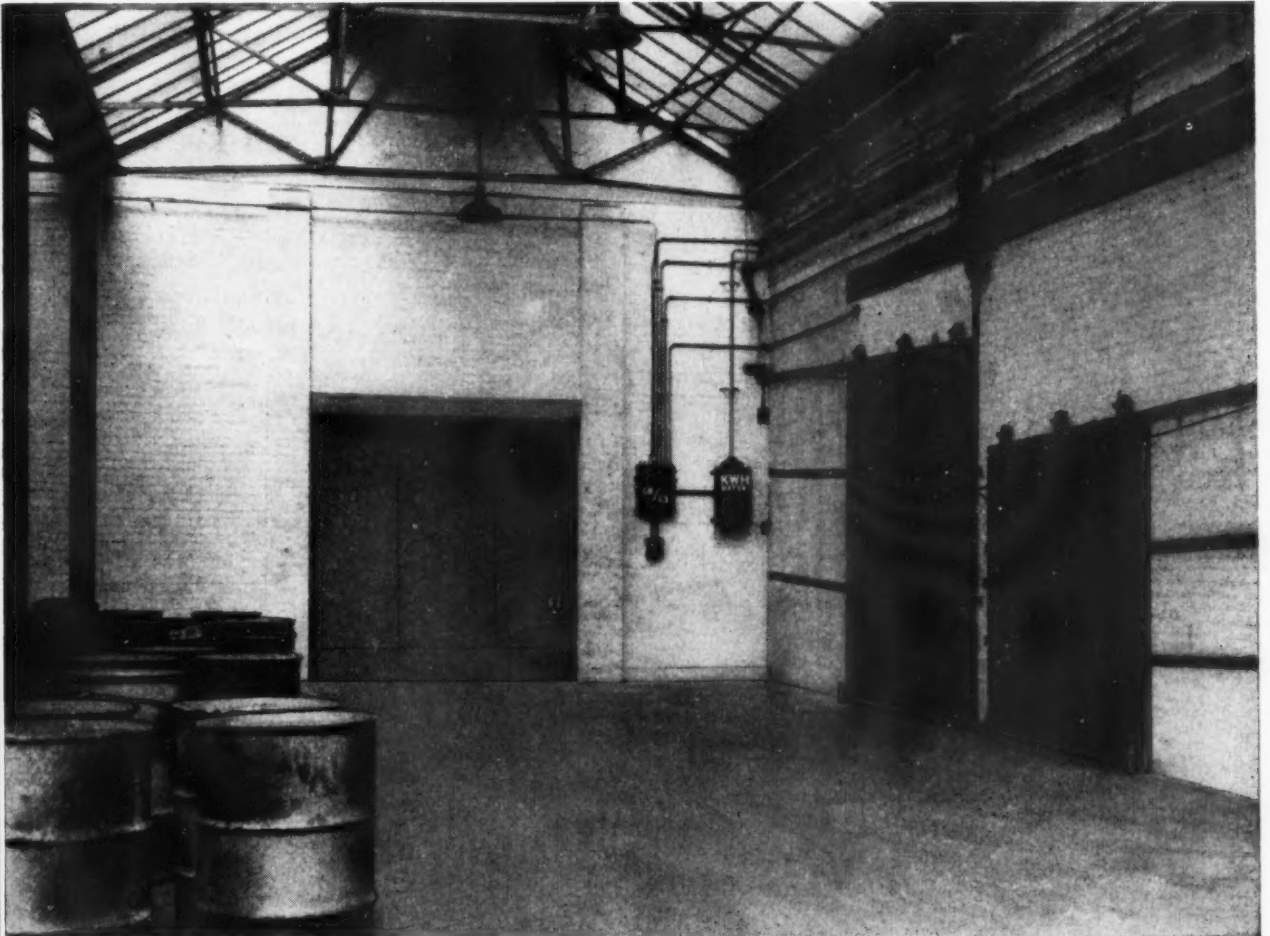
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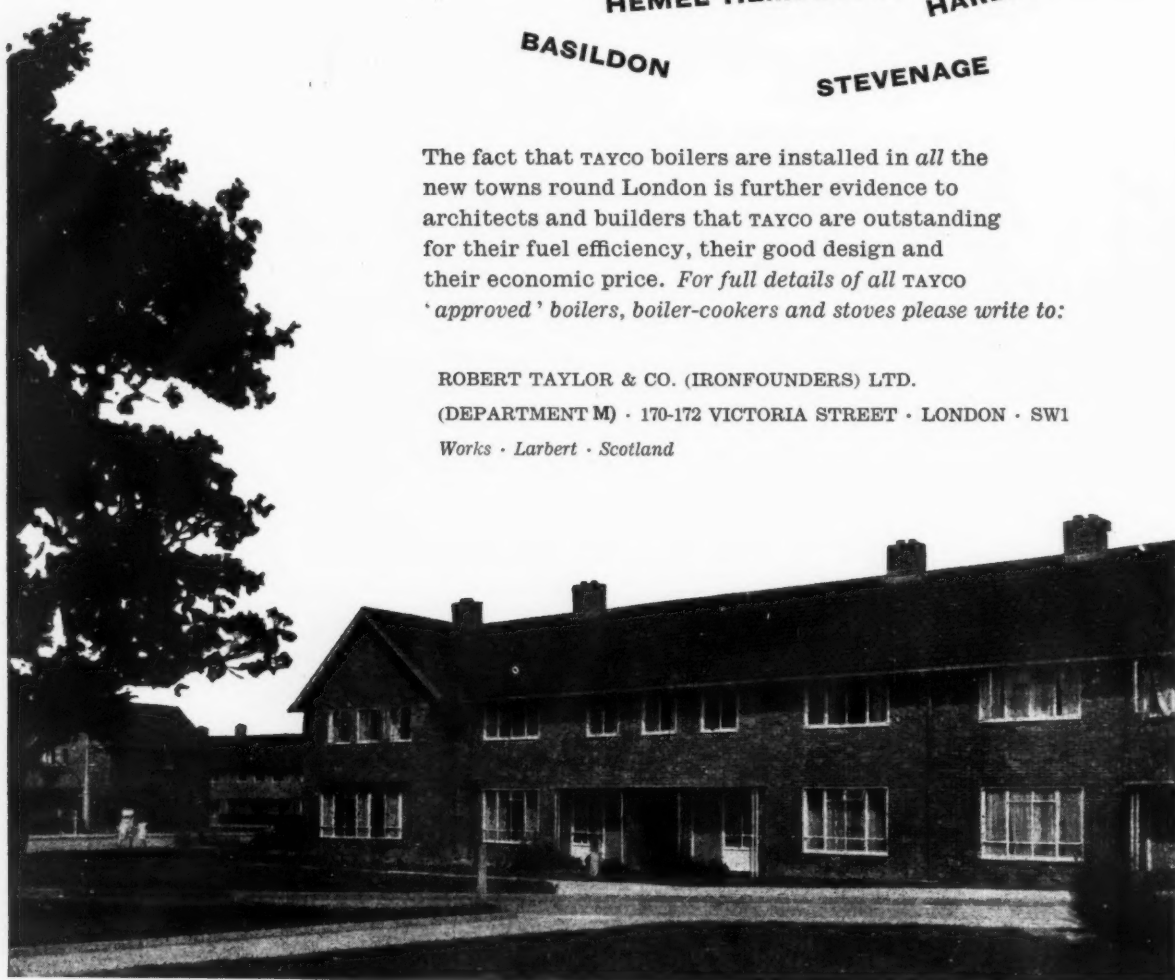
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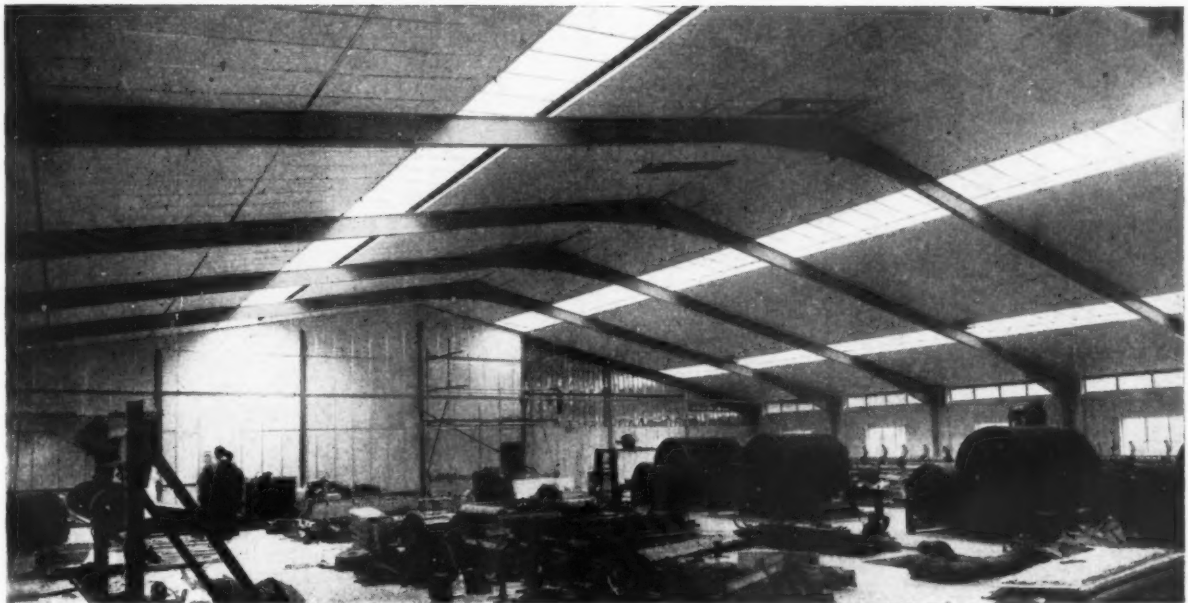
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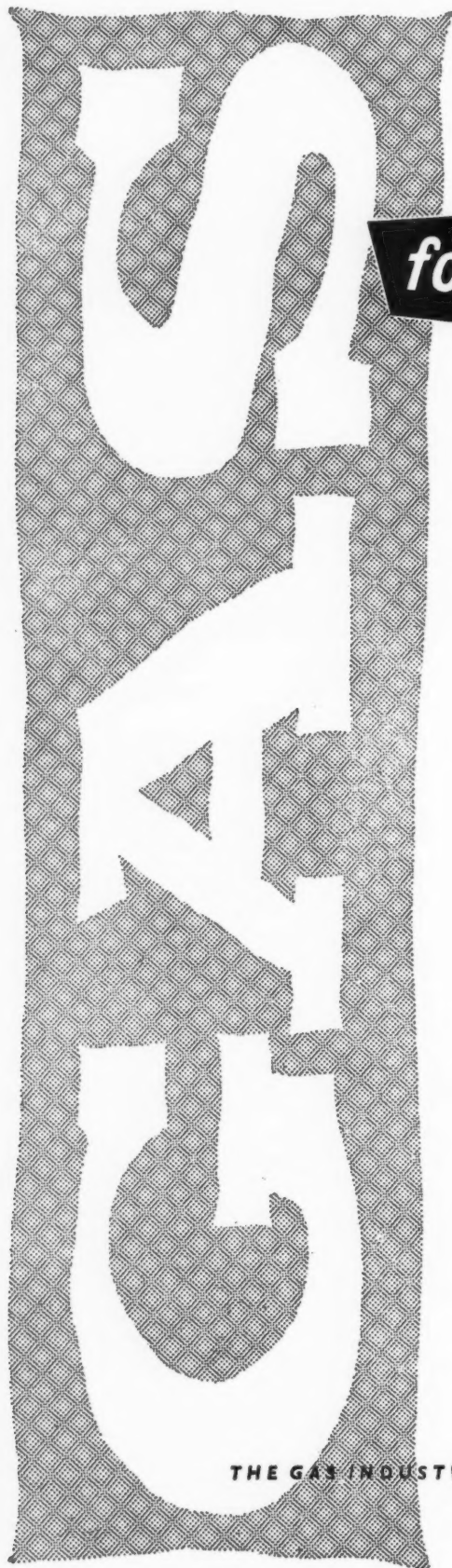


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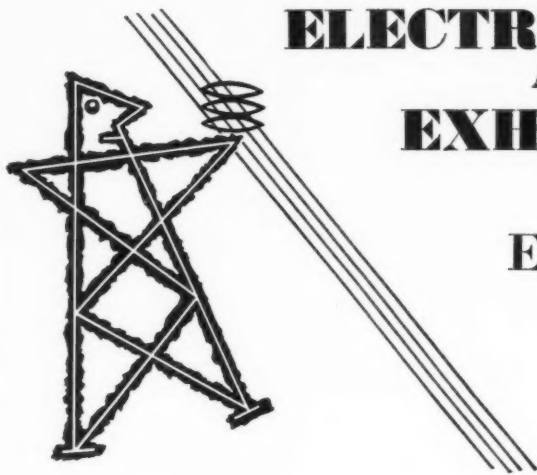
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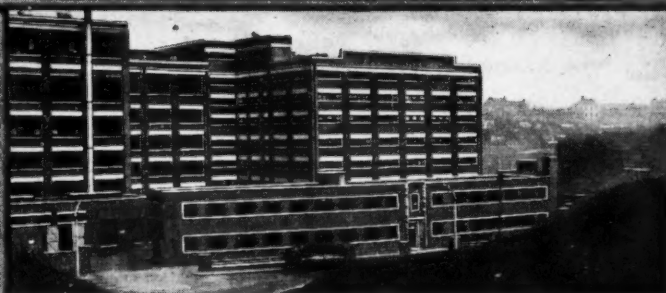
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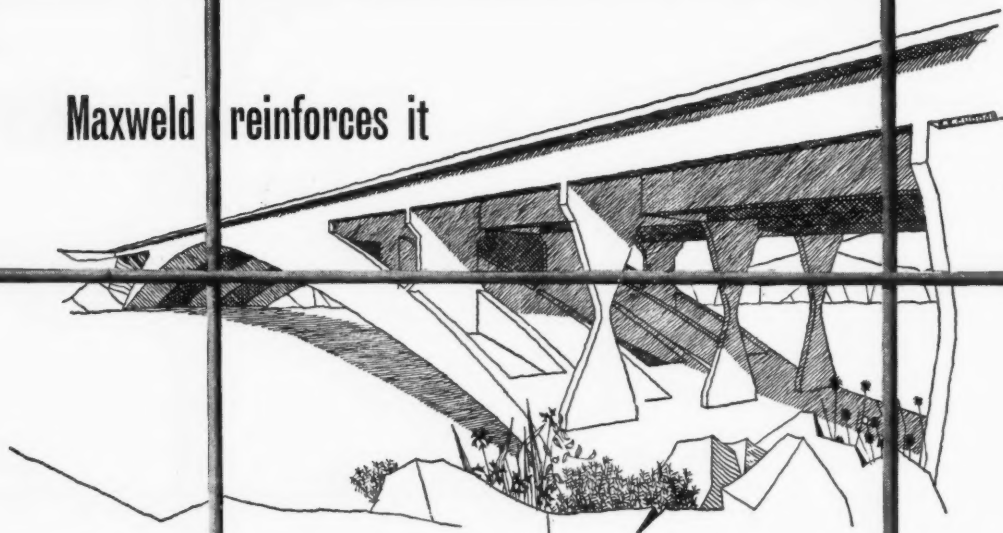
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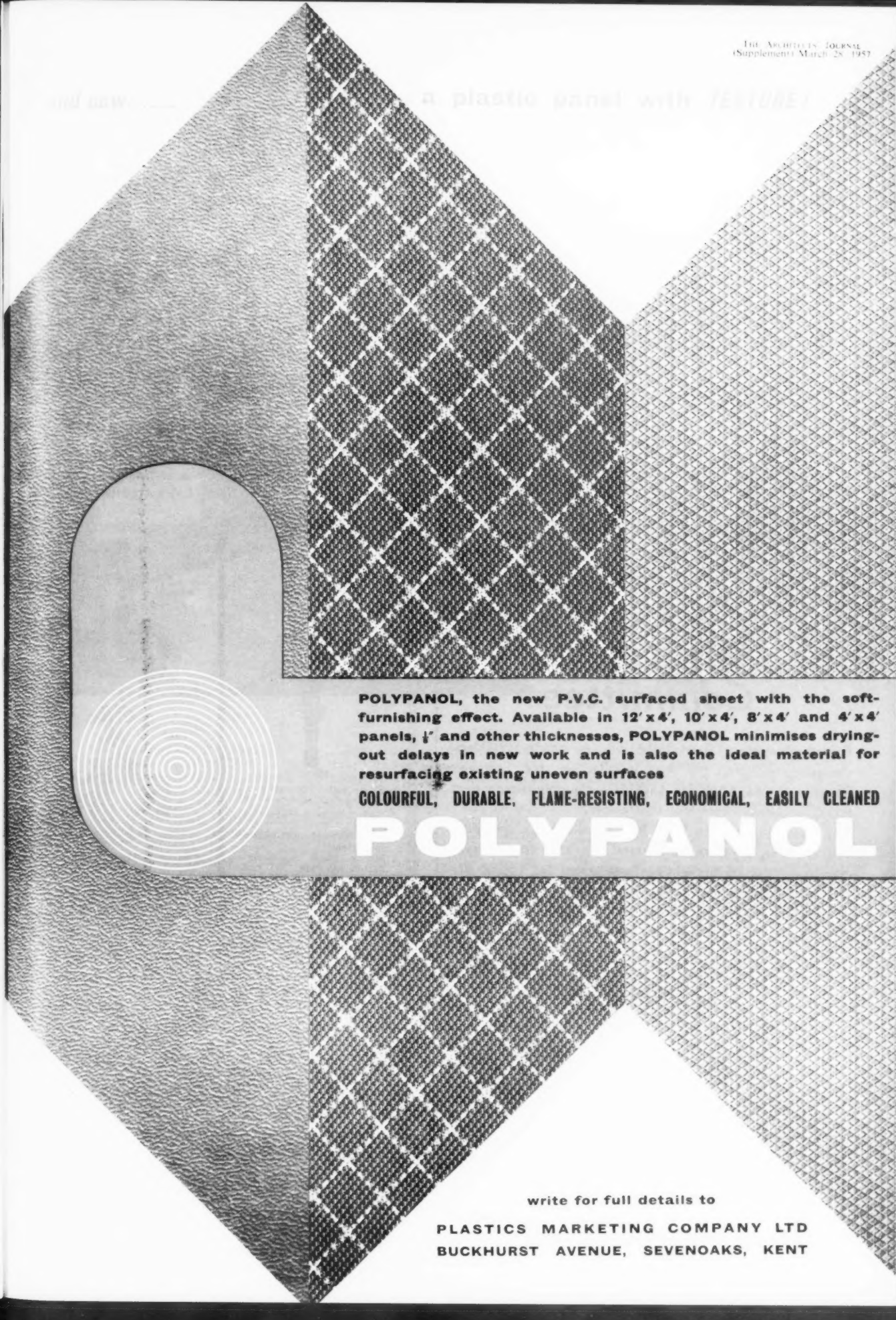
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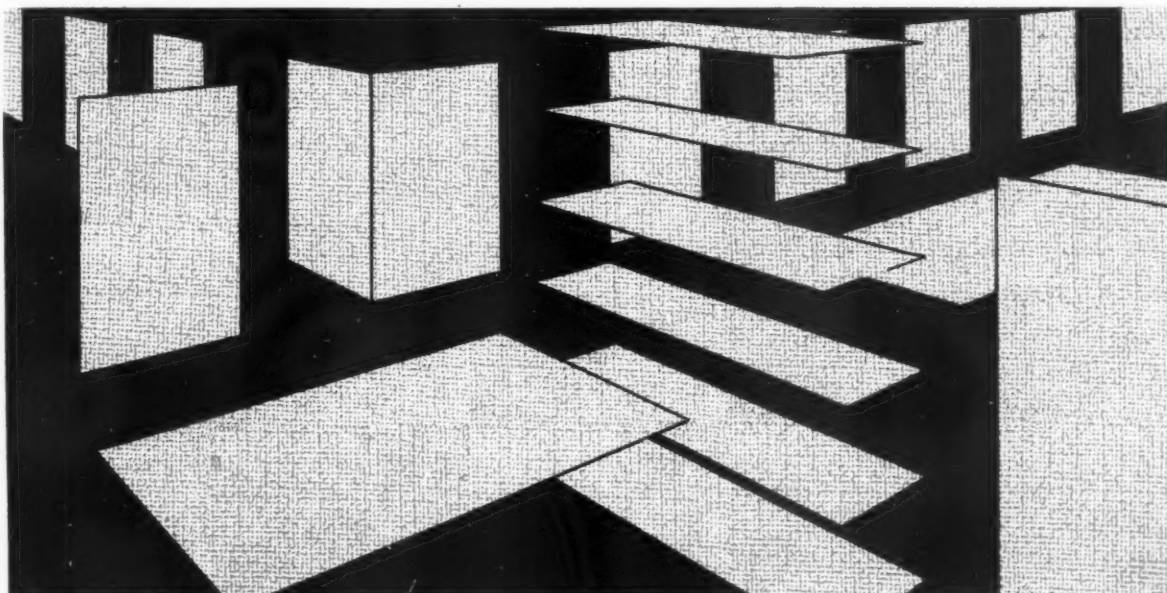
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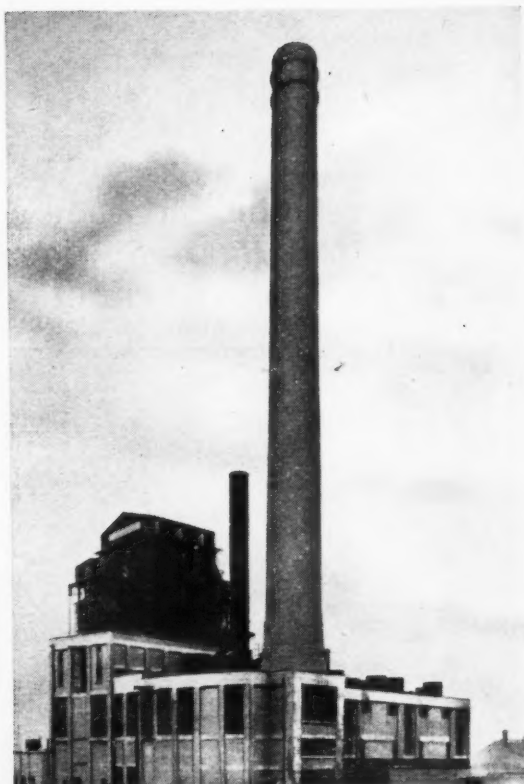
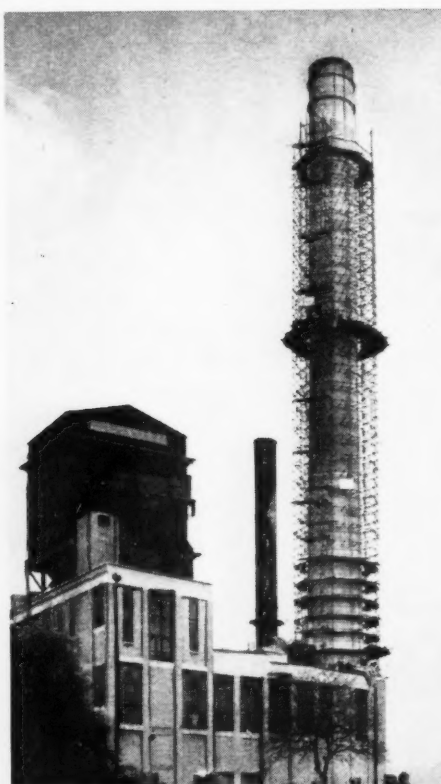
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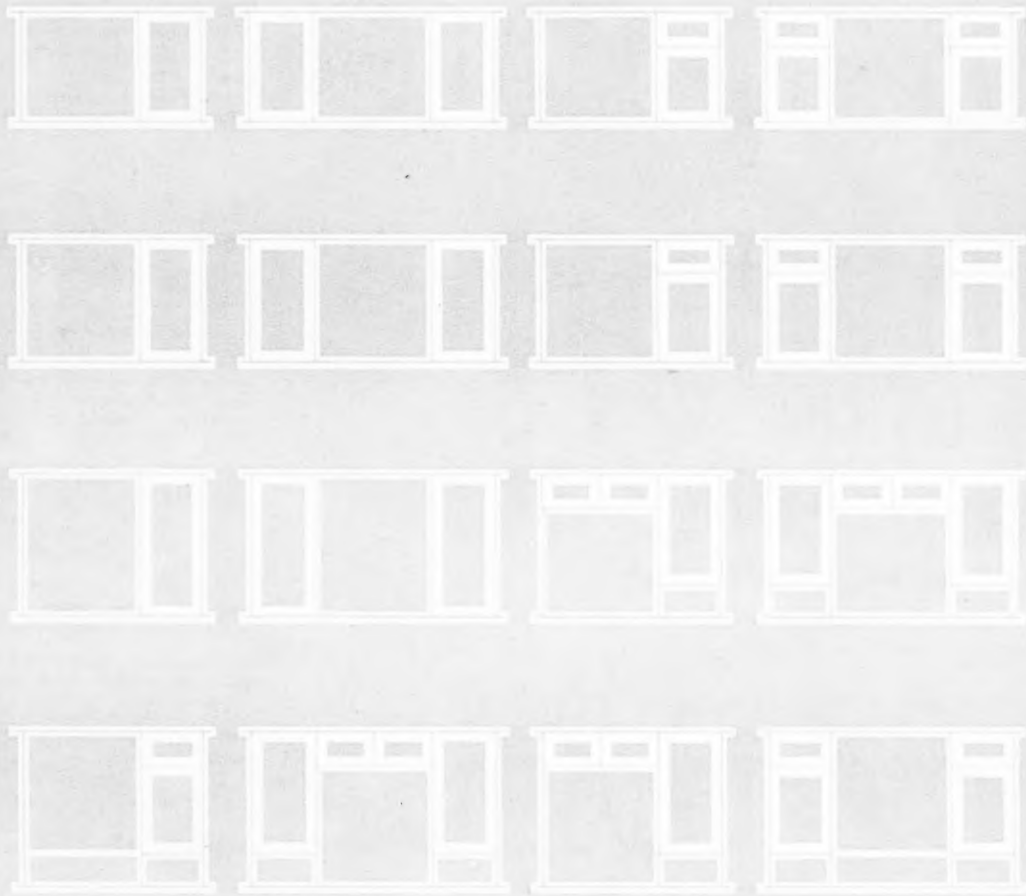
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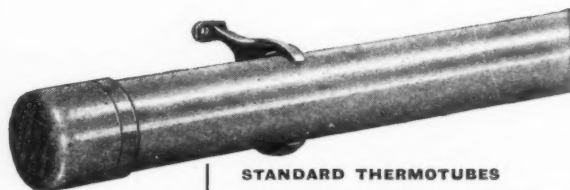
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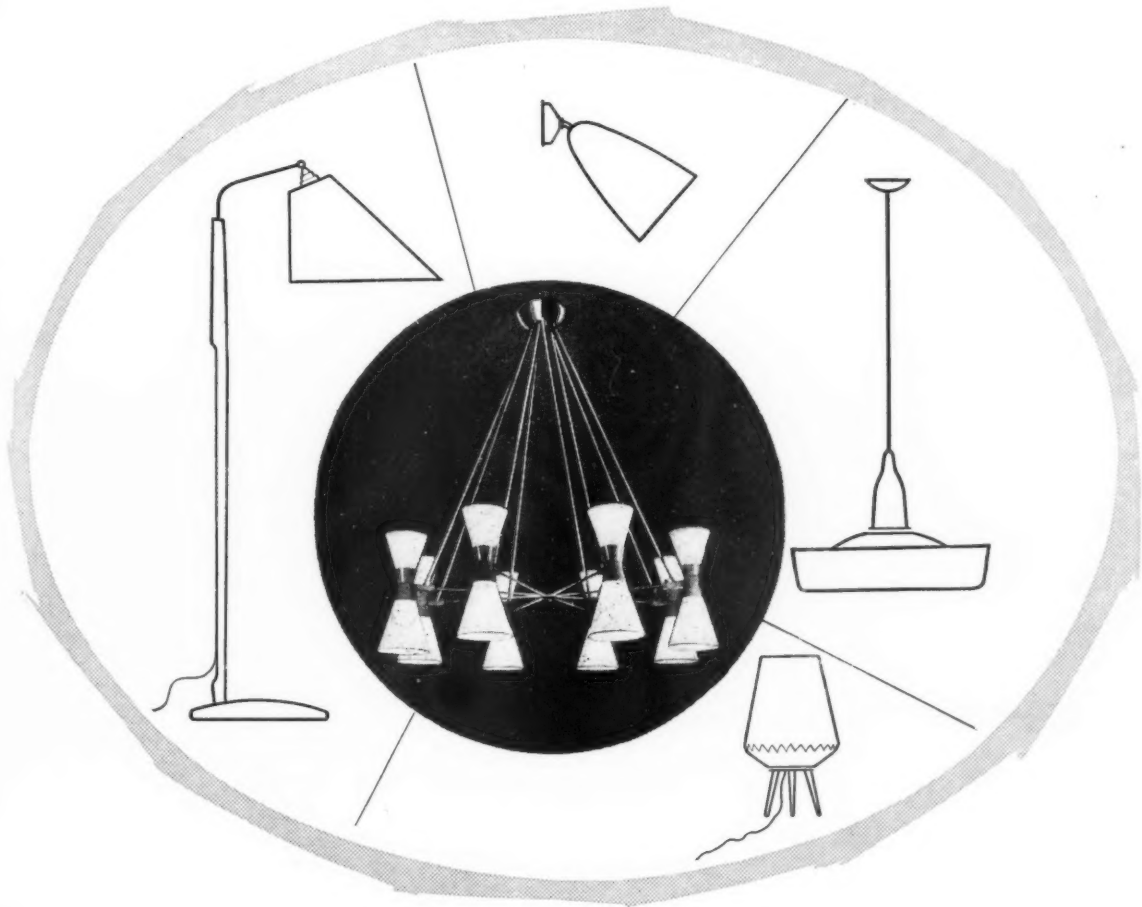
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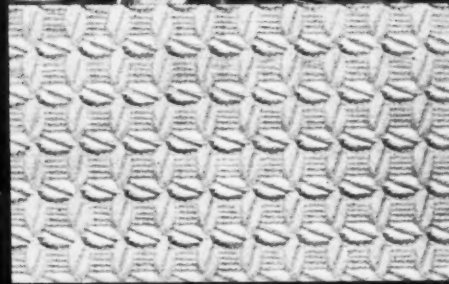
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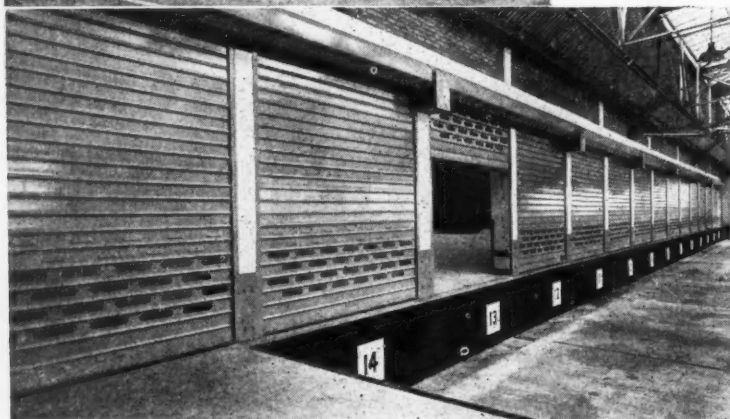
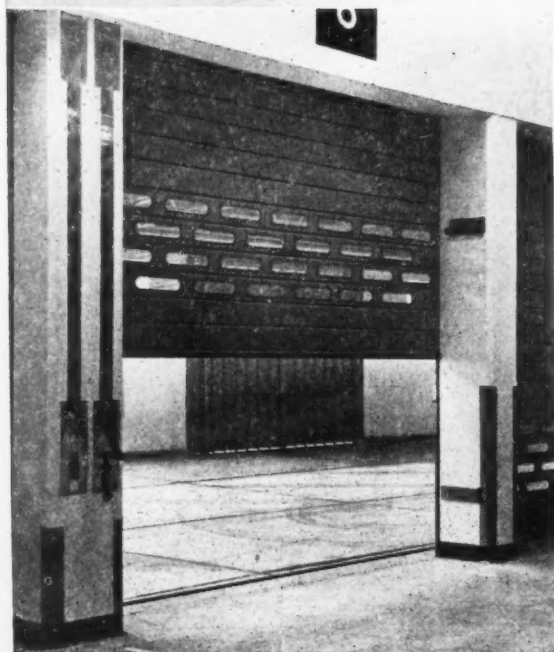
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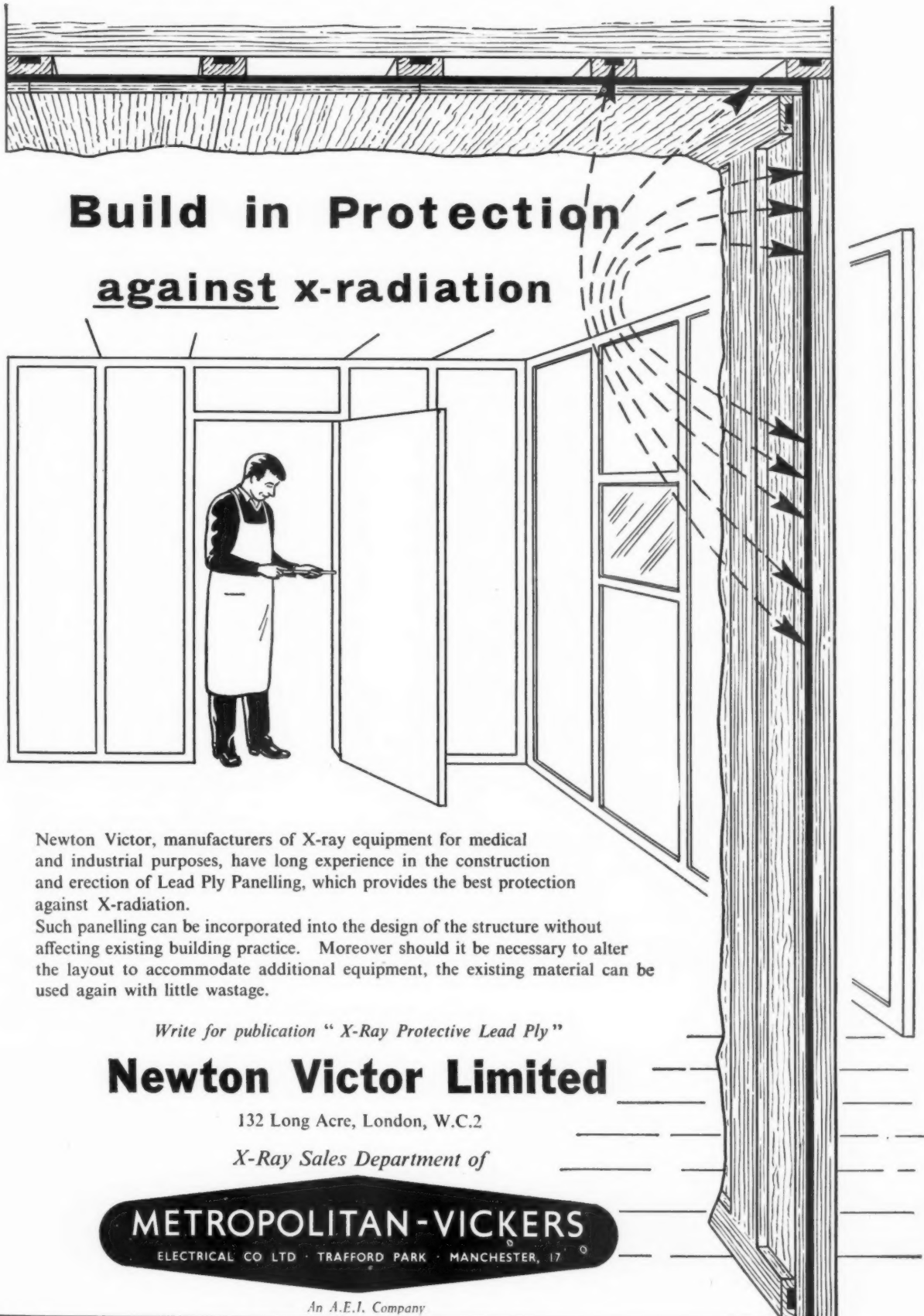
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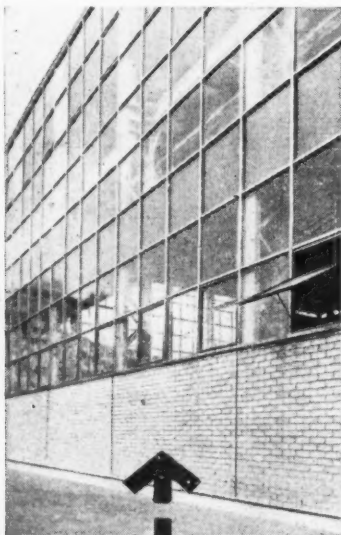
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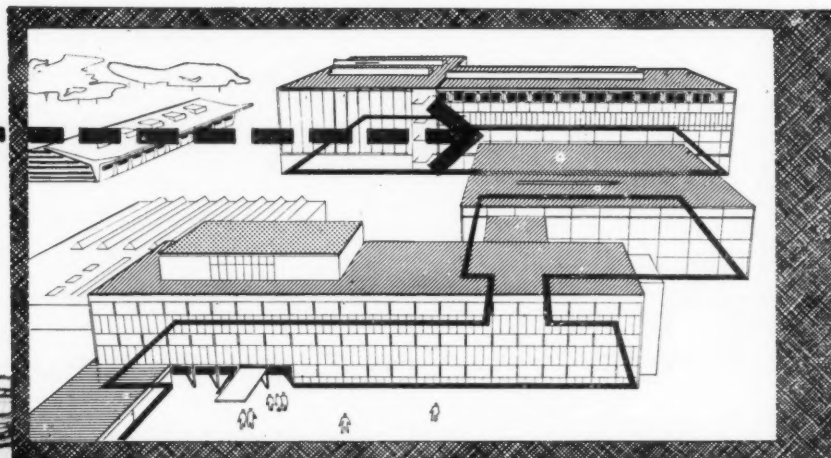
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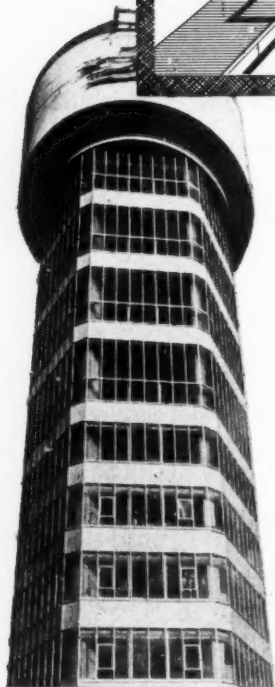
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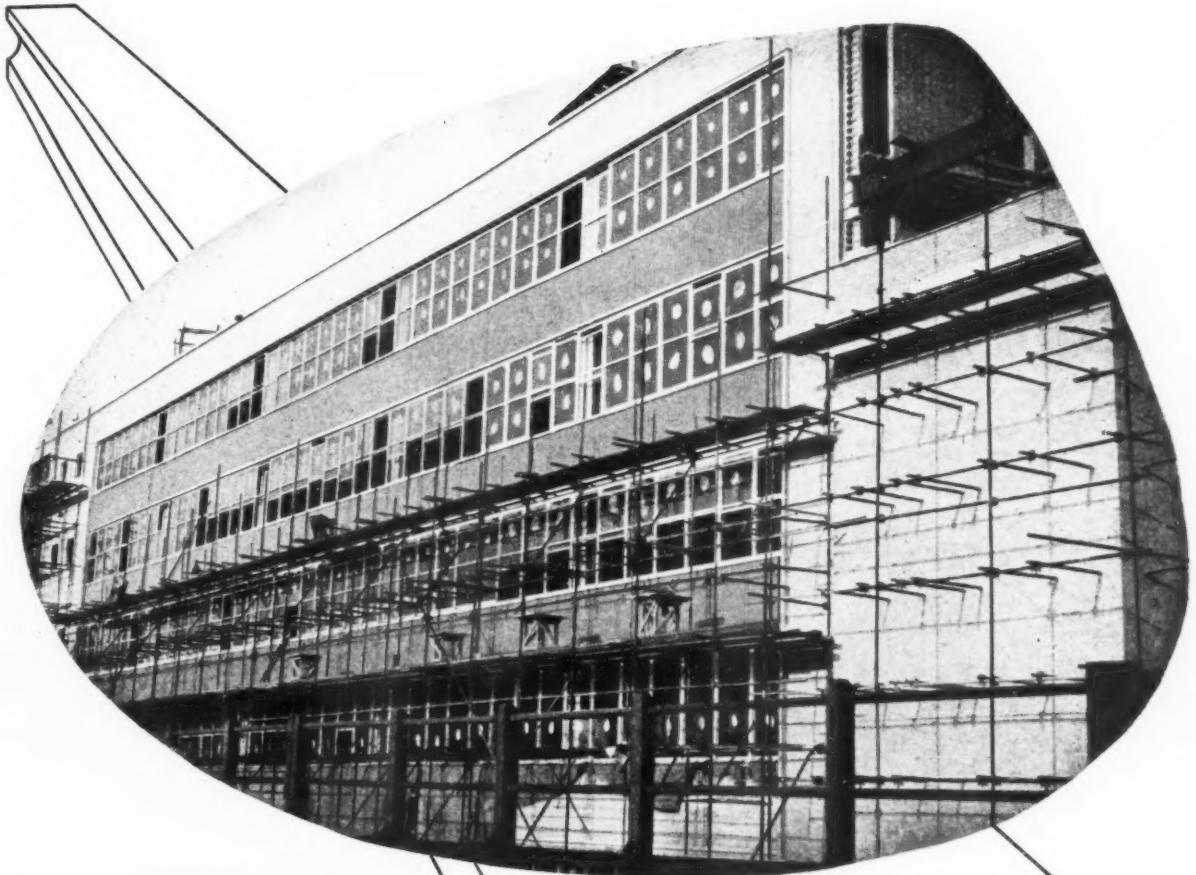
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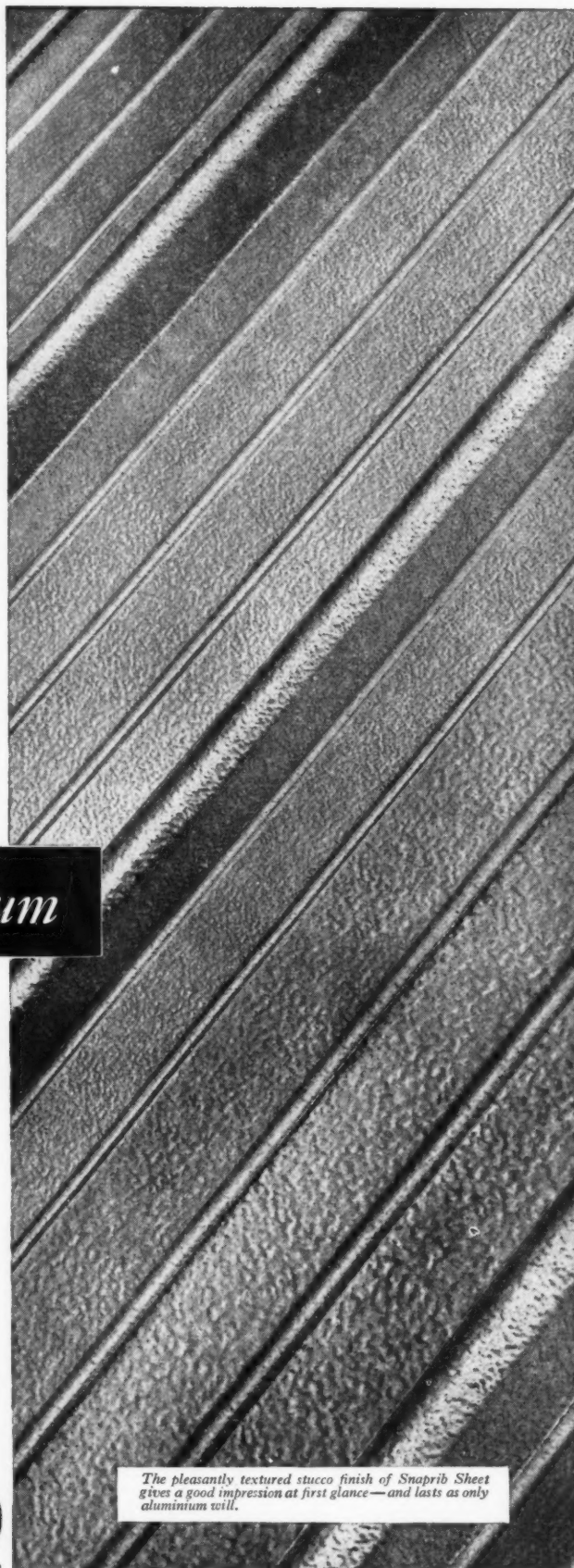
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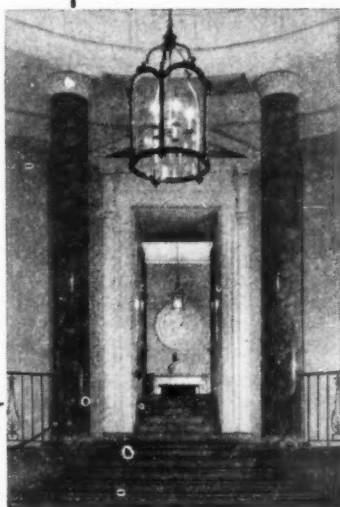


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ABOVE: Part of the Secretary of State for Scotland's room featuring Crane Pall Mall radiators.

LEFT: A view of the Entrance Hall which has four Ionic columns rising to an elegant dome, the crown of which is glazed with an extremely delicate grille.

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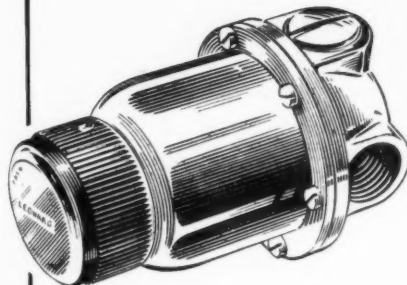
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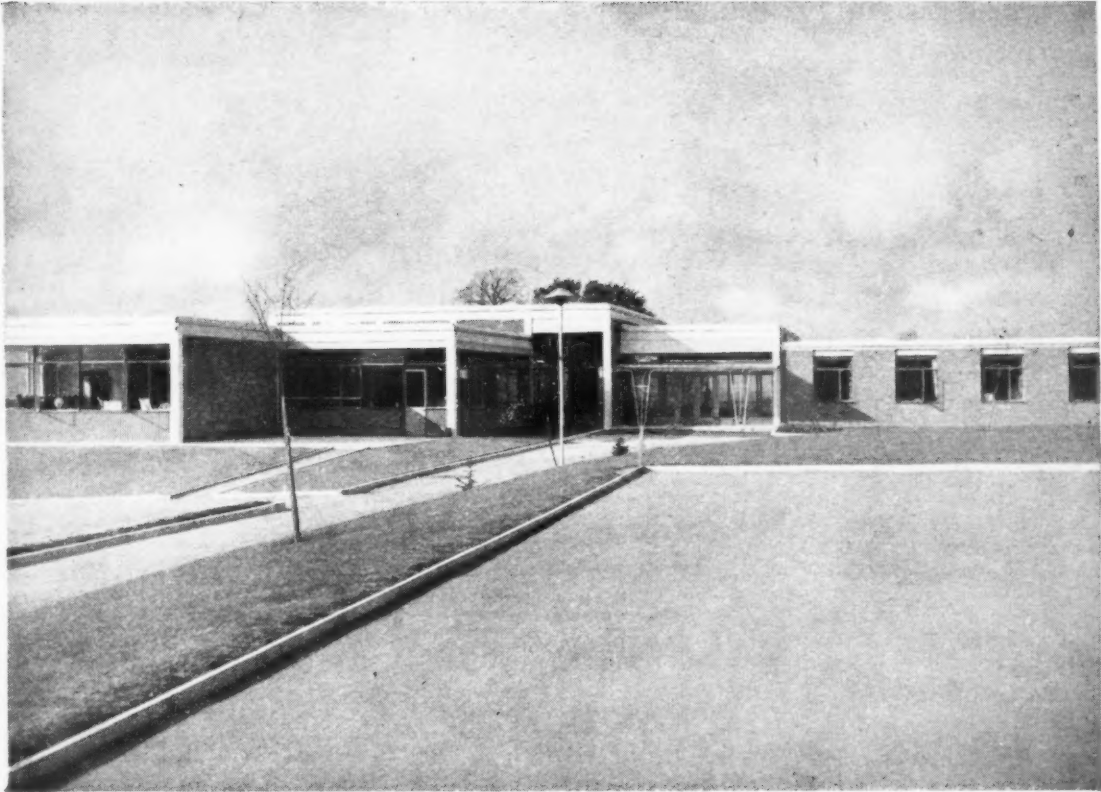
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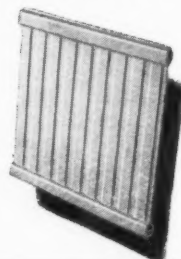
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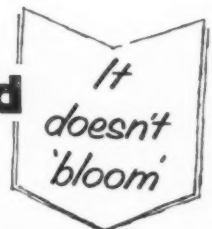
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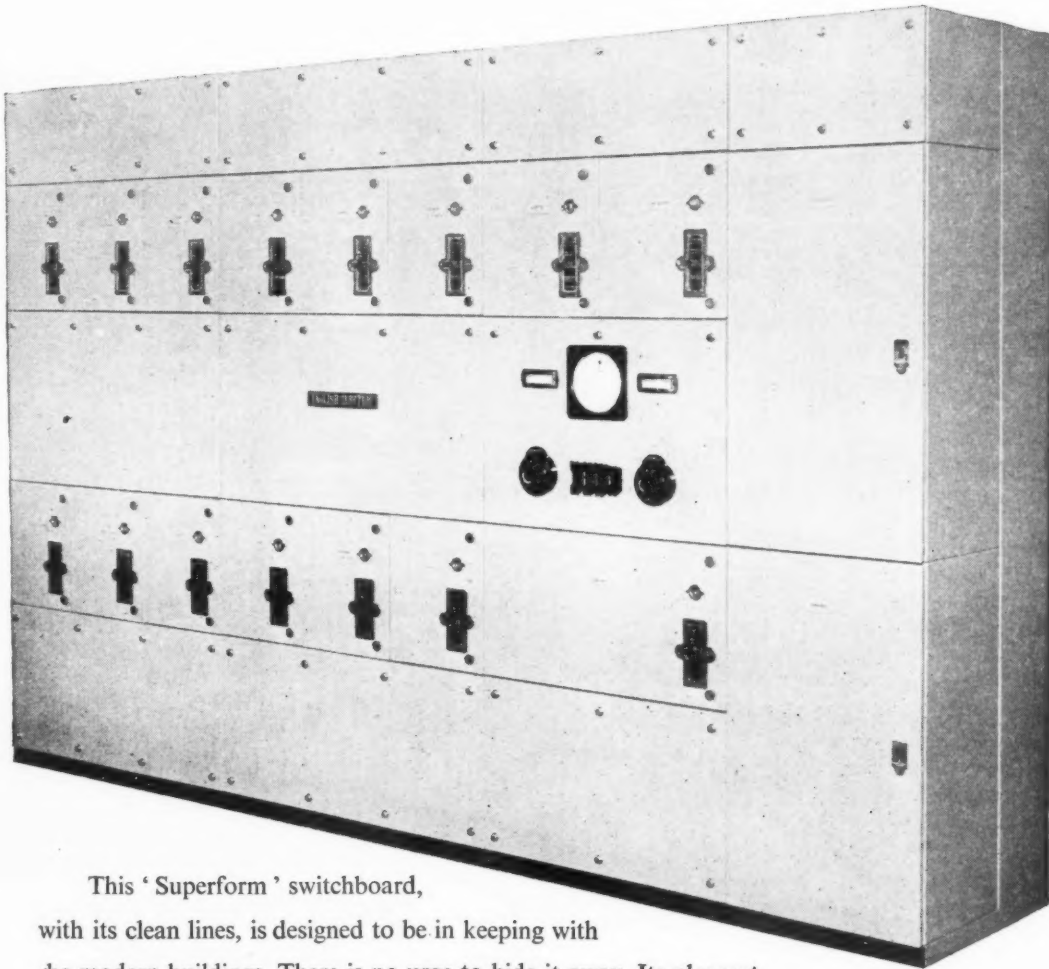
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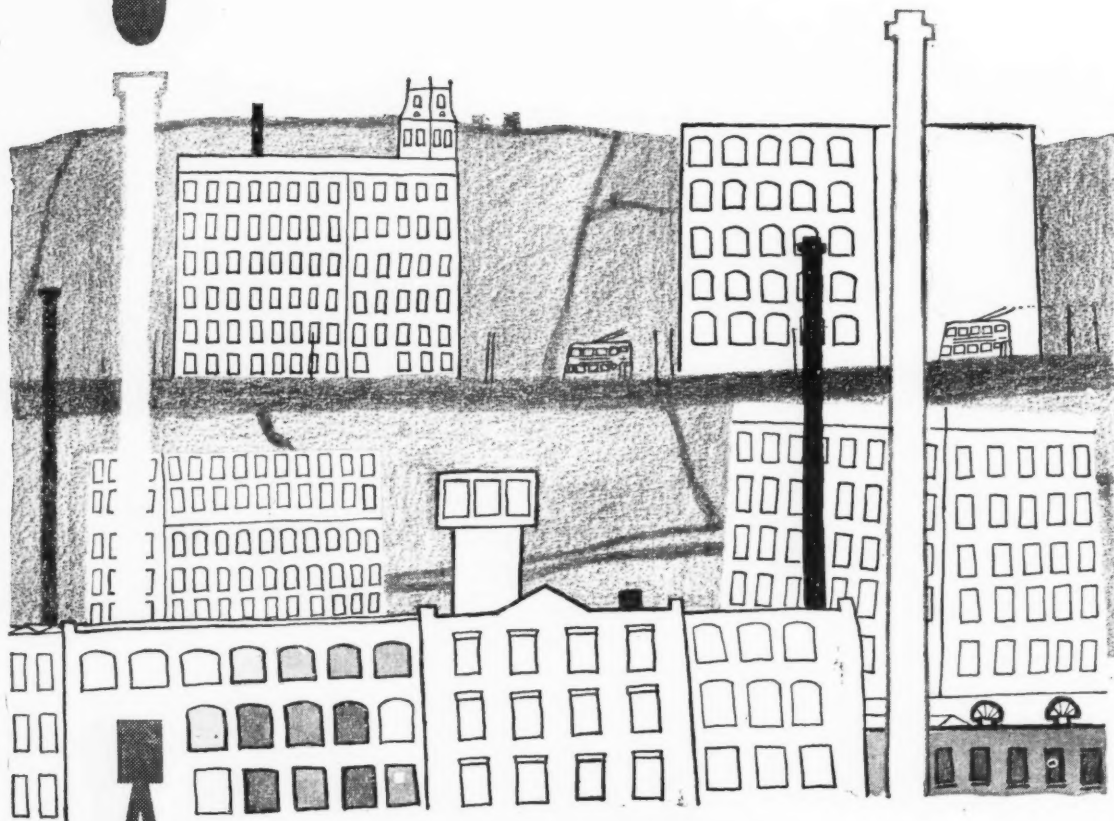
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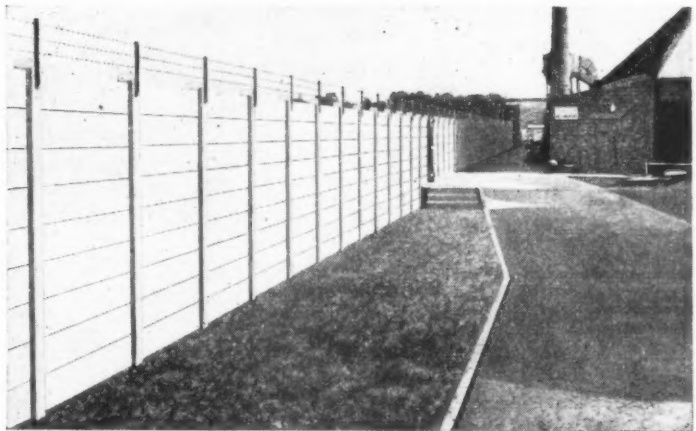
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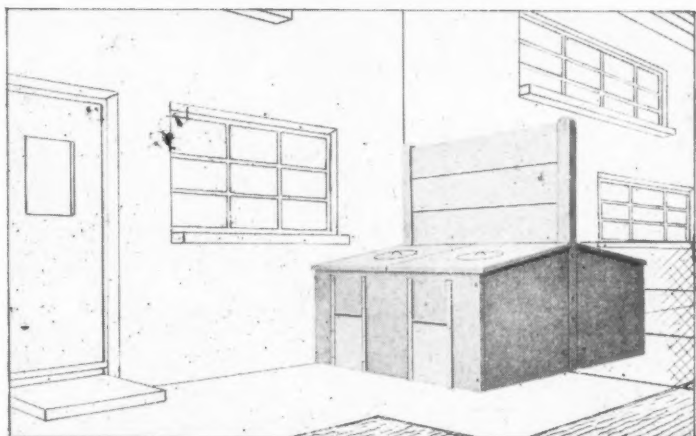
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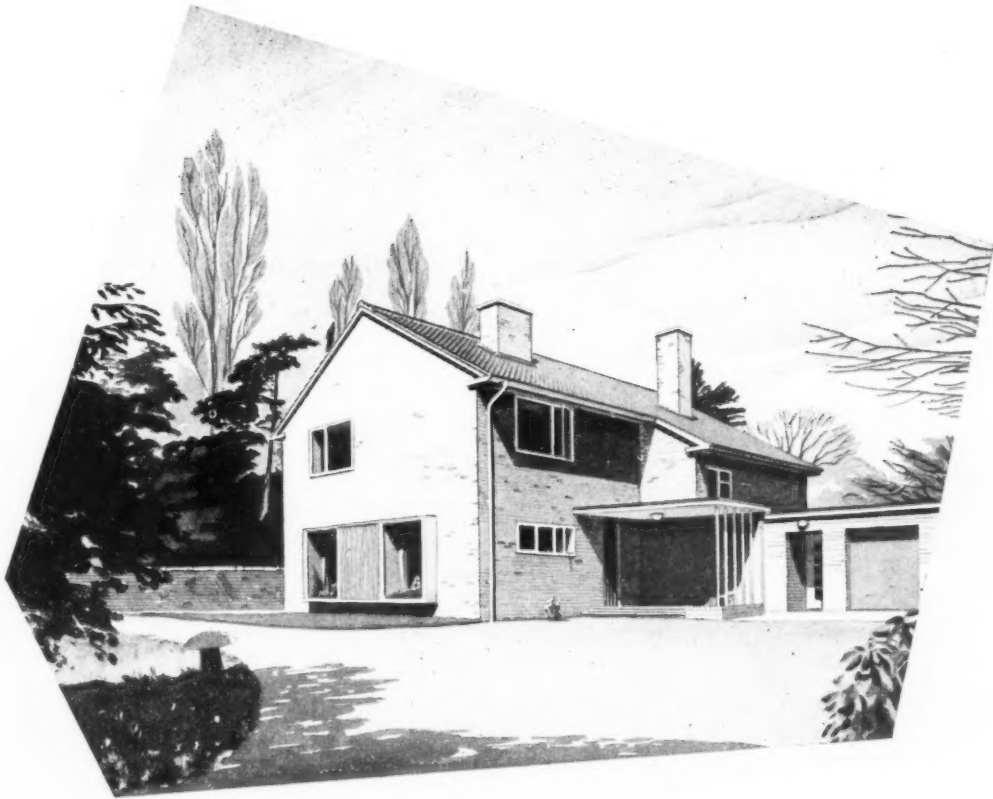
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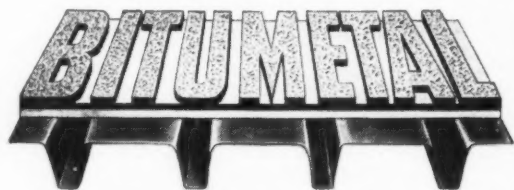


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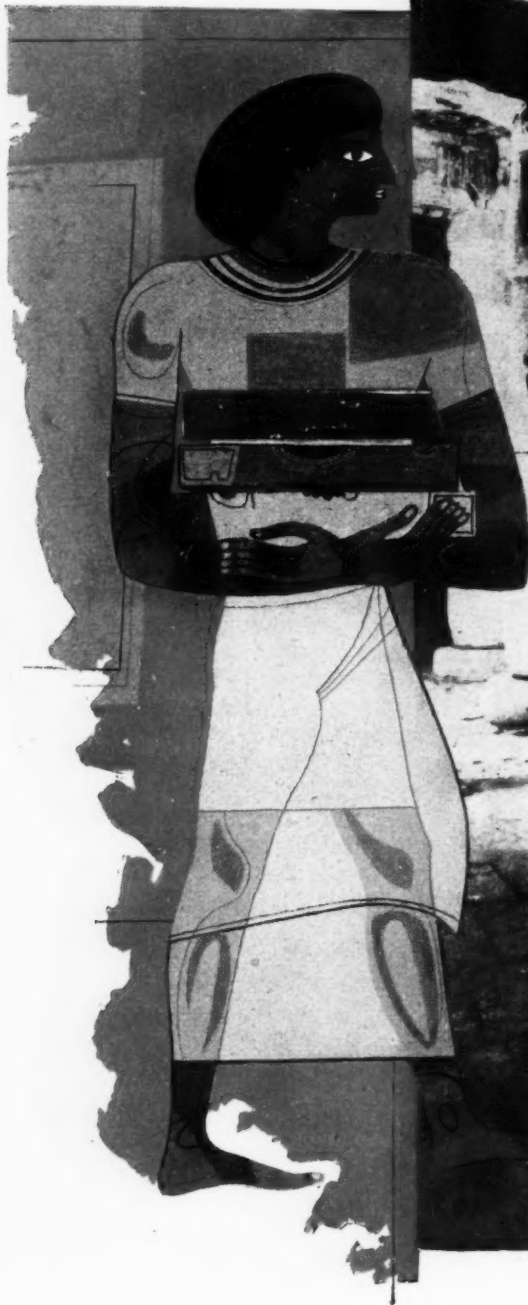
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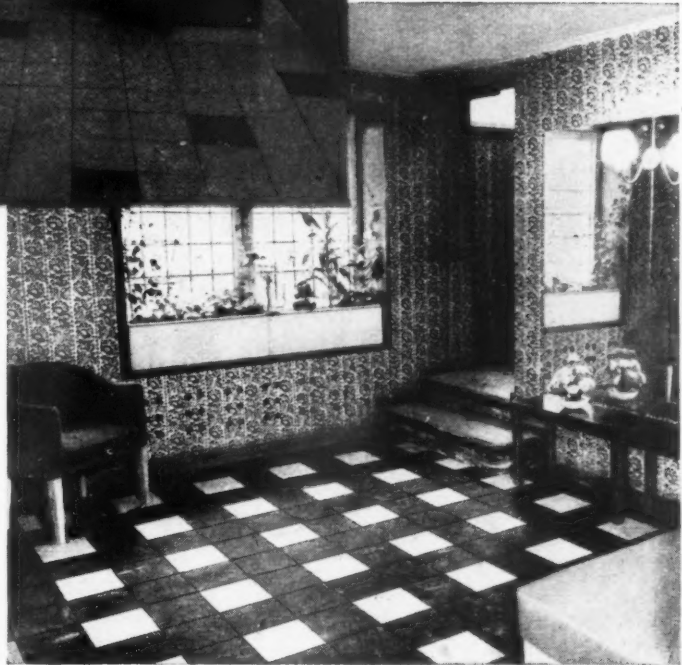
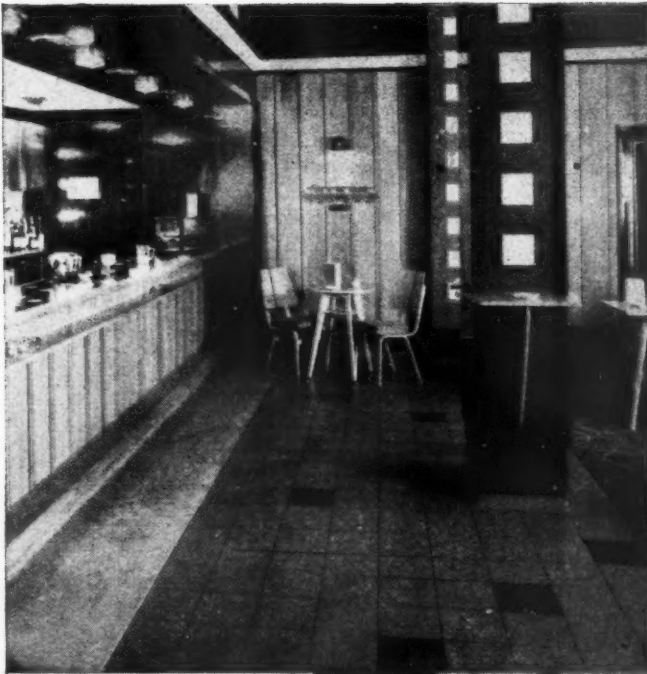


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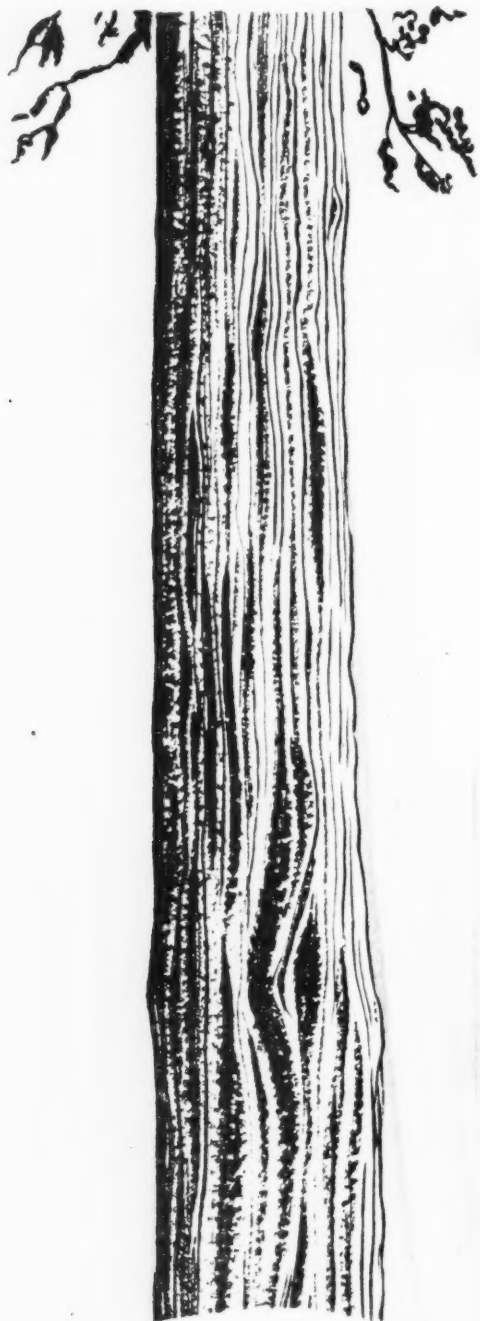
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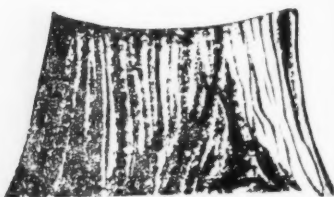
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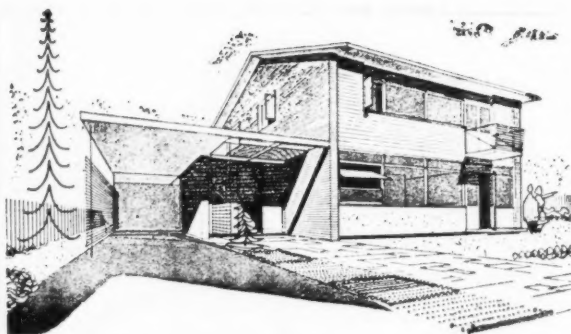


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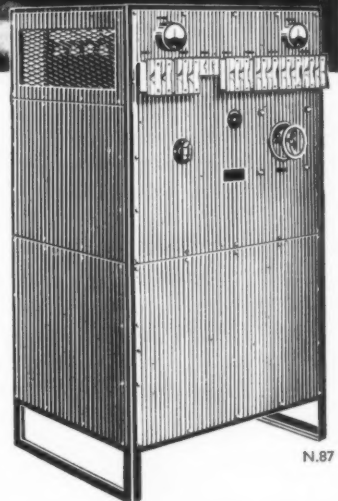


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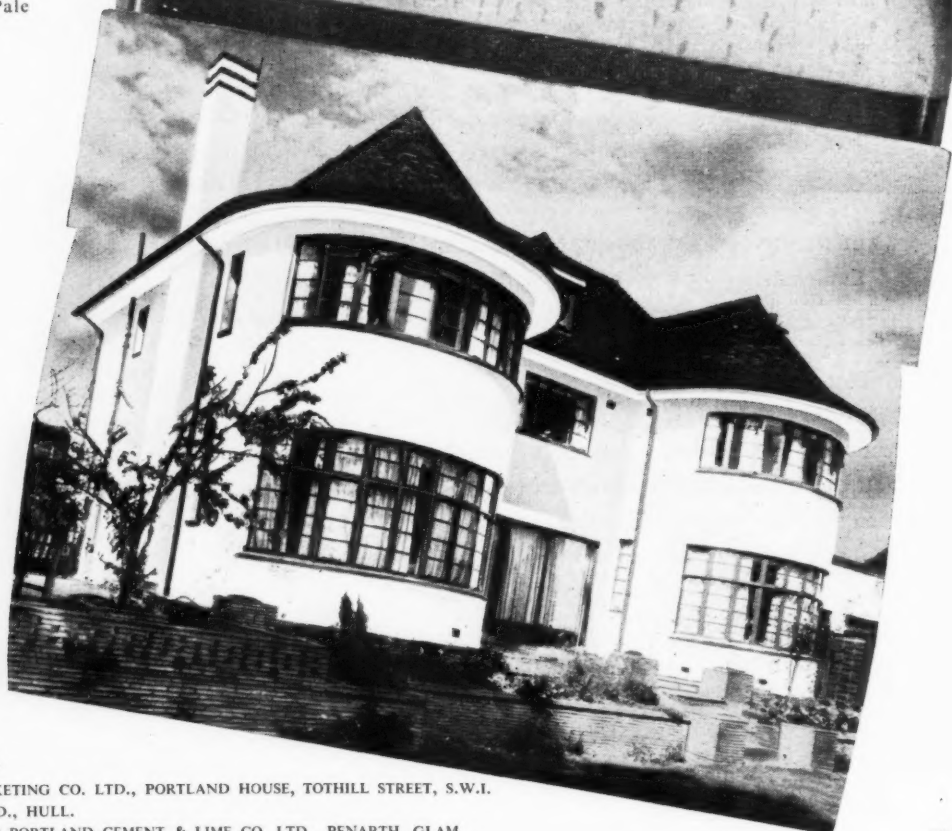
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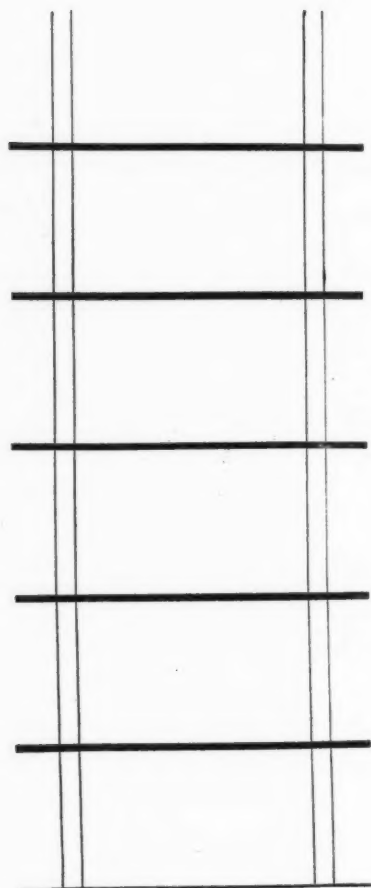
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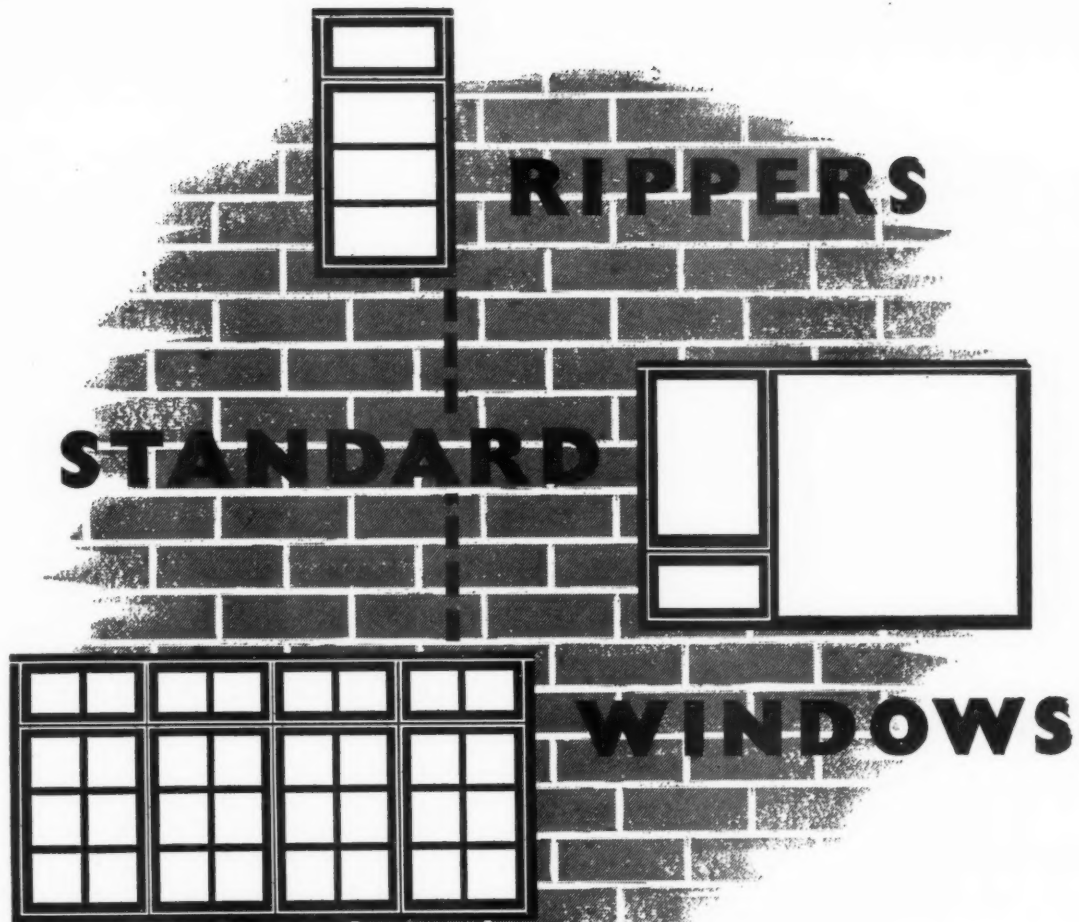
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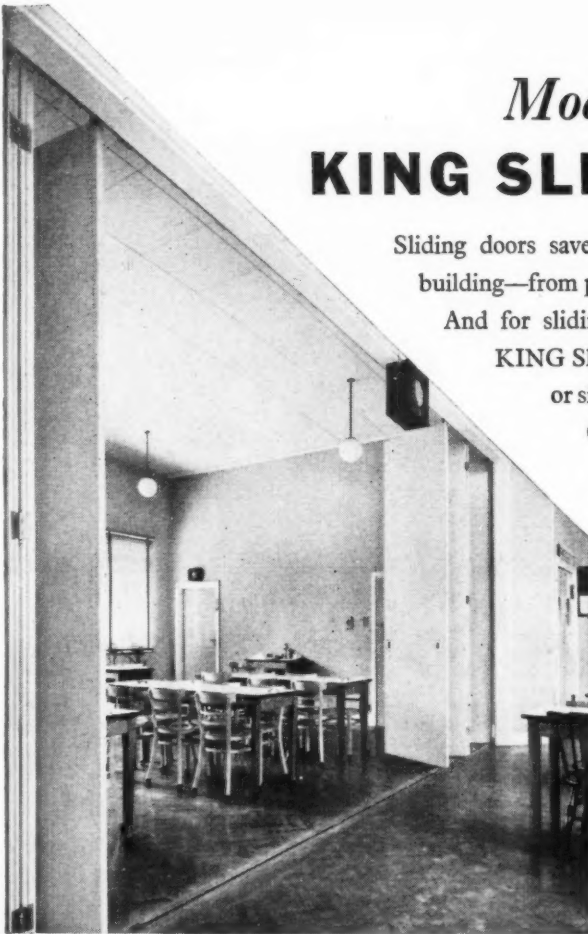
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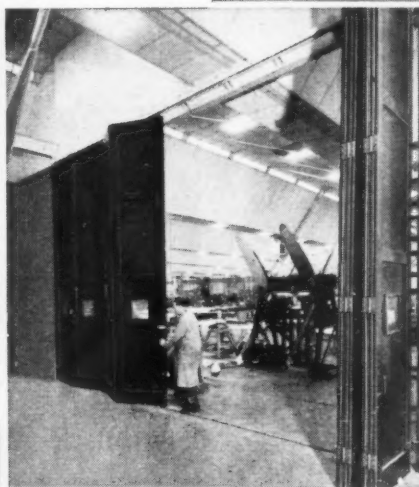
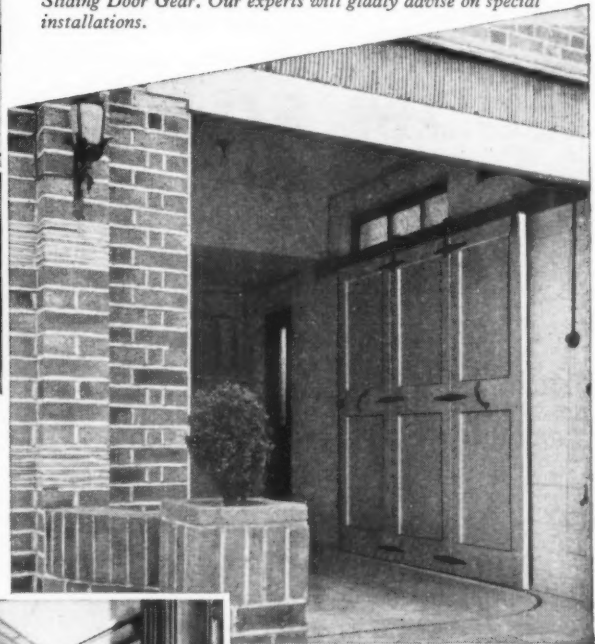
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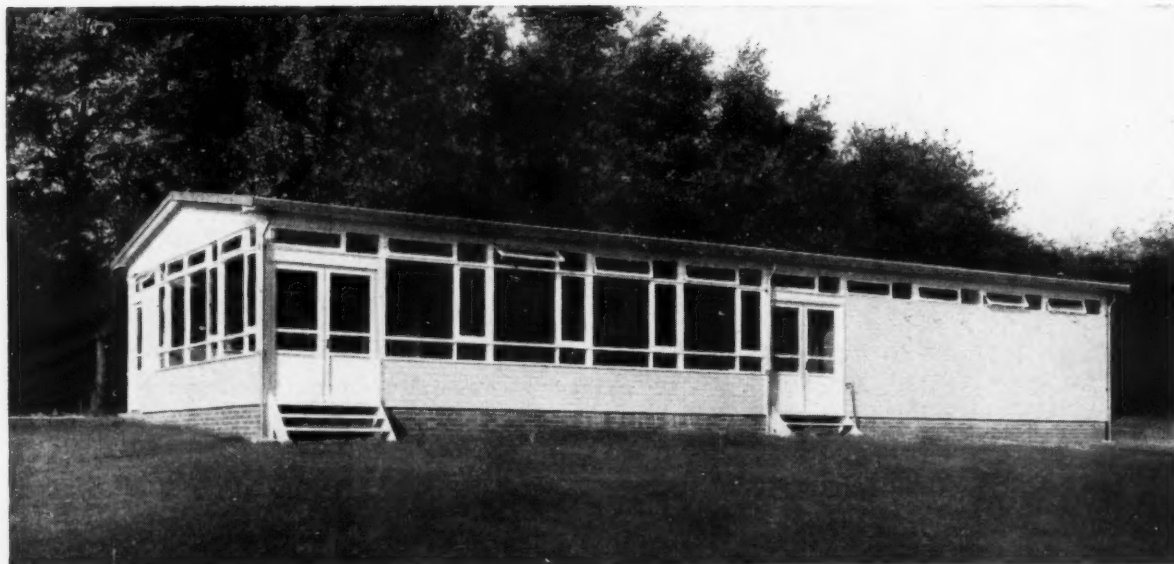
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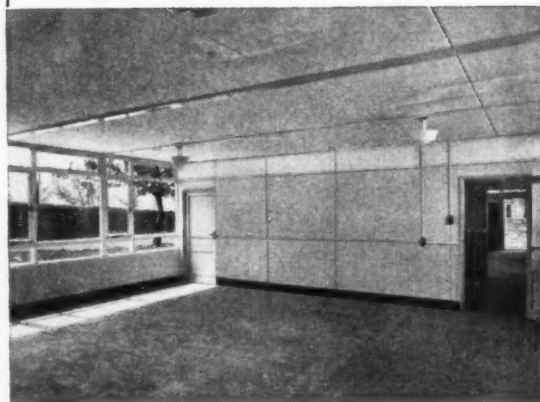
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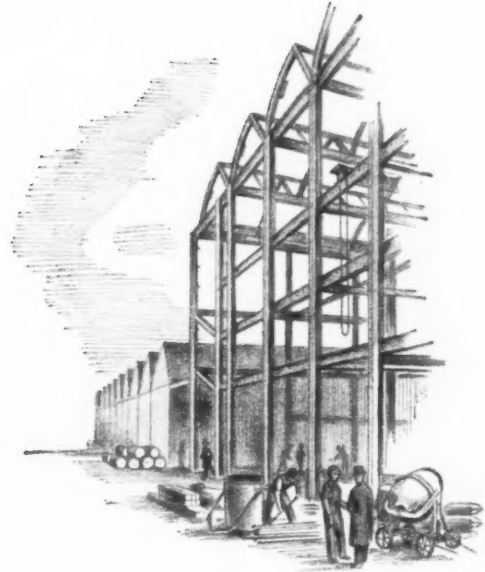
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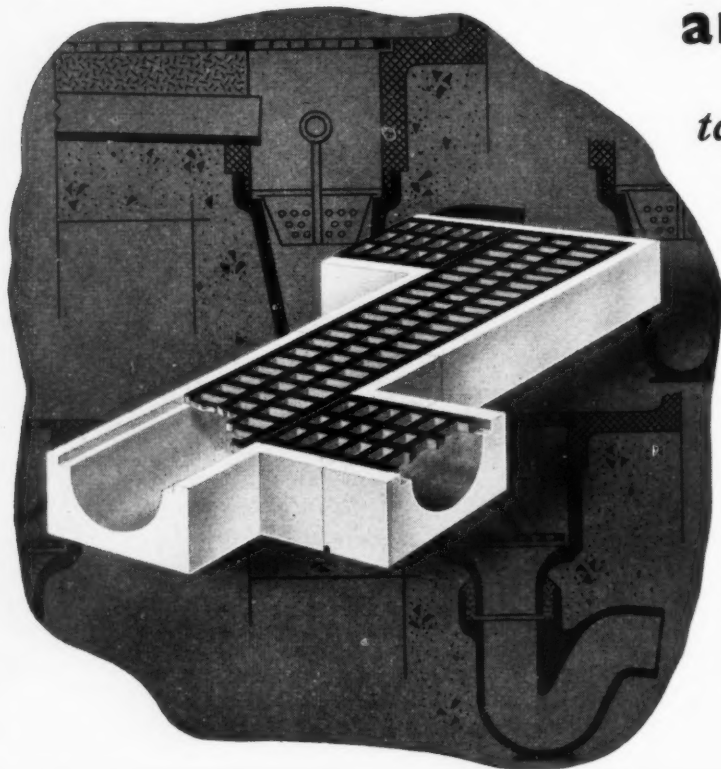
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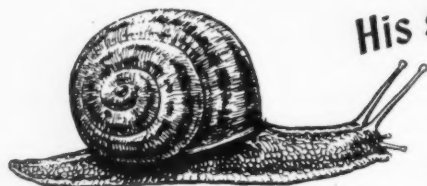
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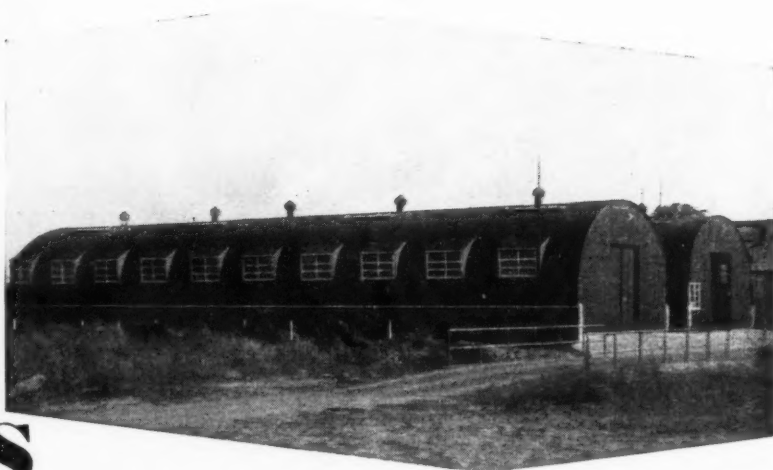


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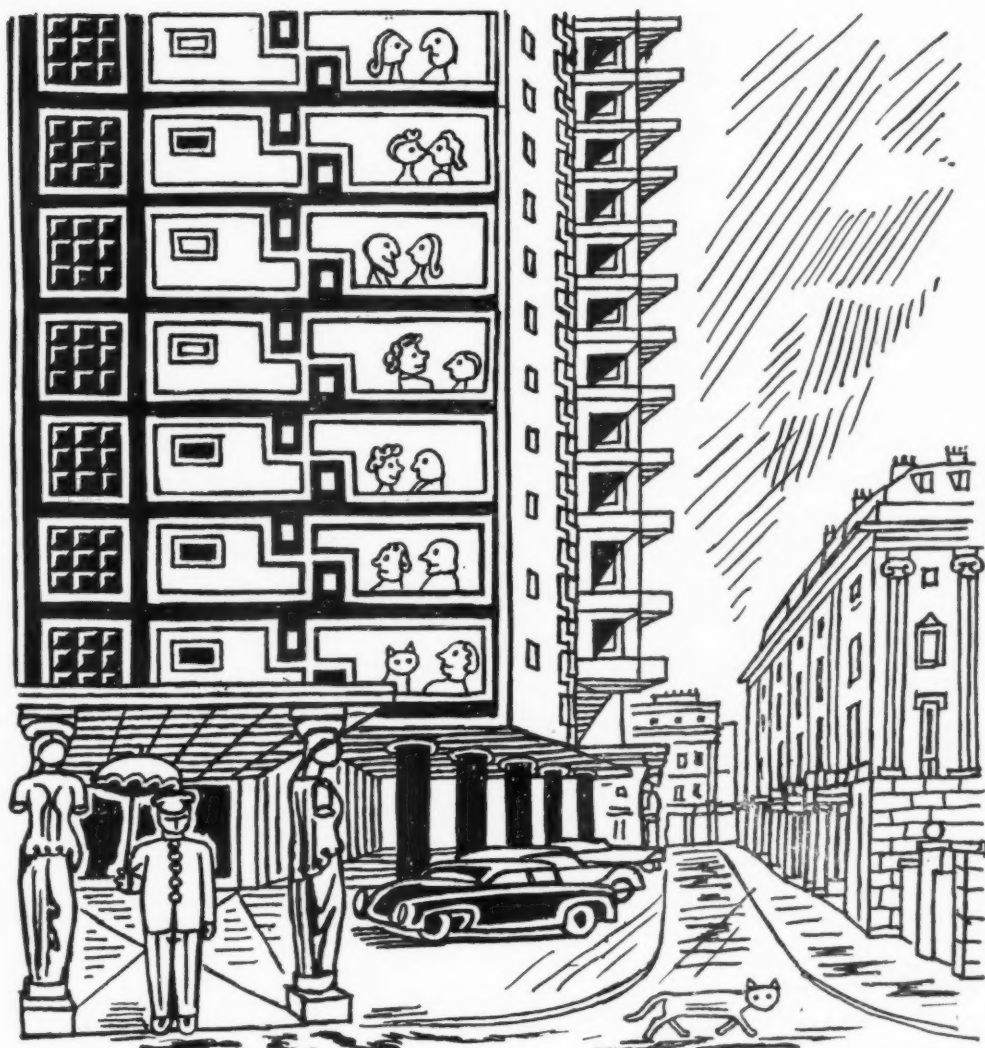
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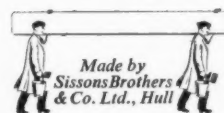
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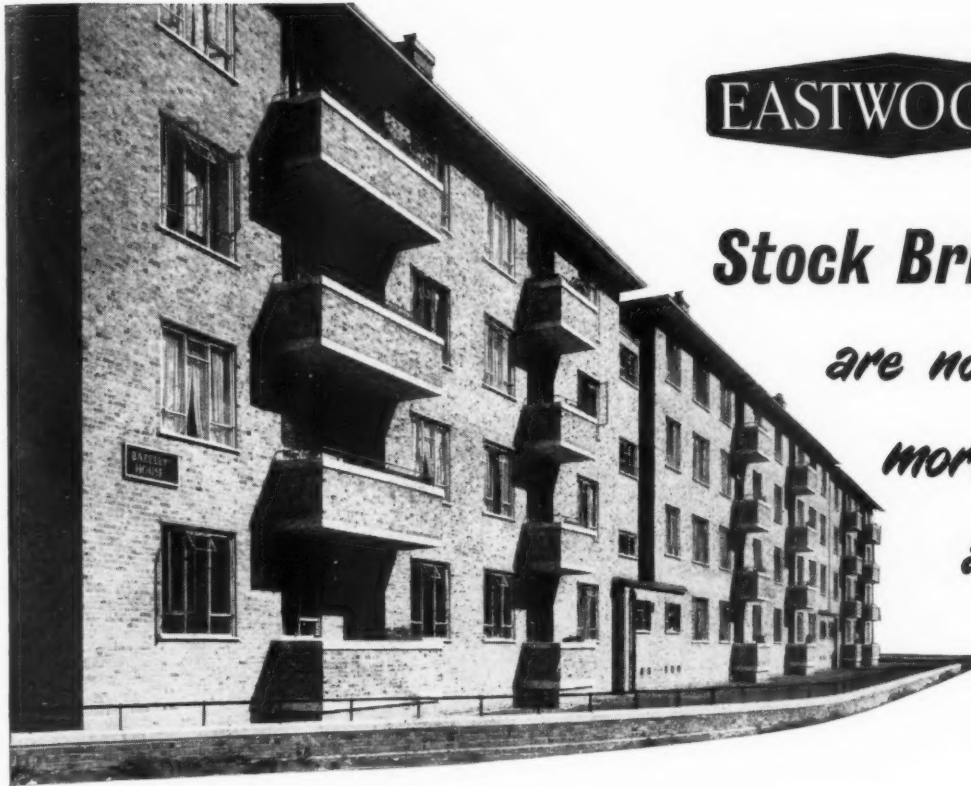
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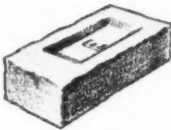
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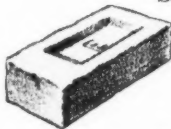
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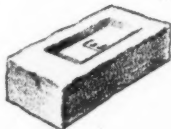
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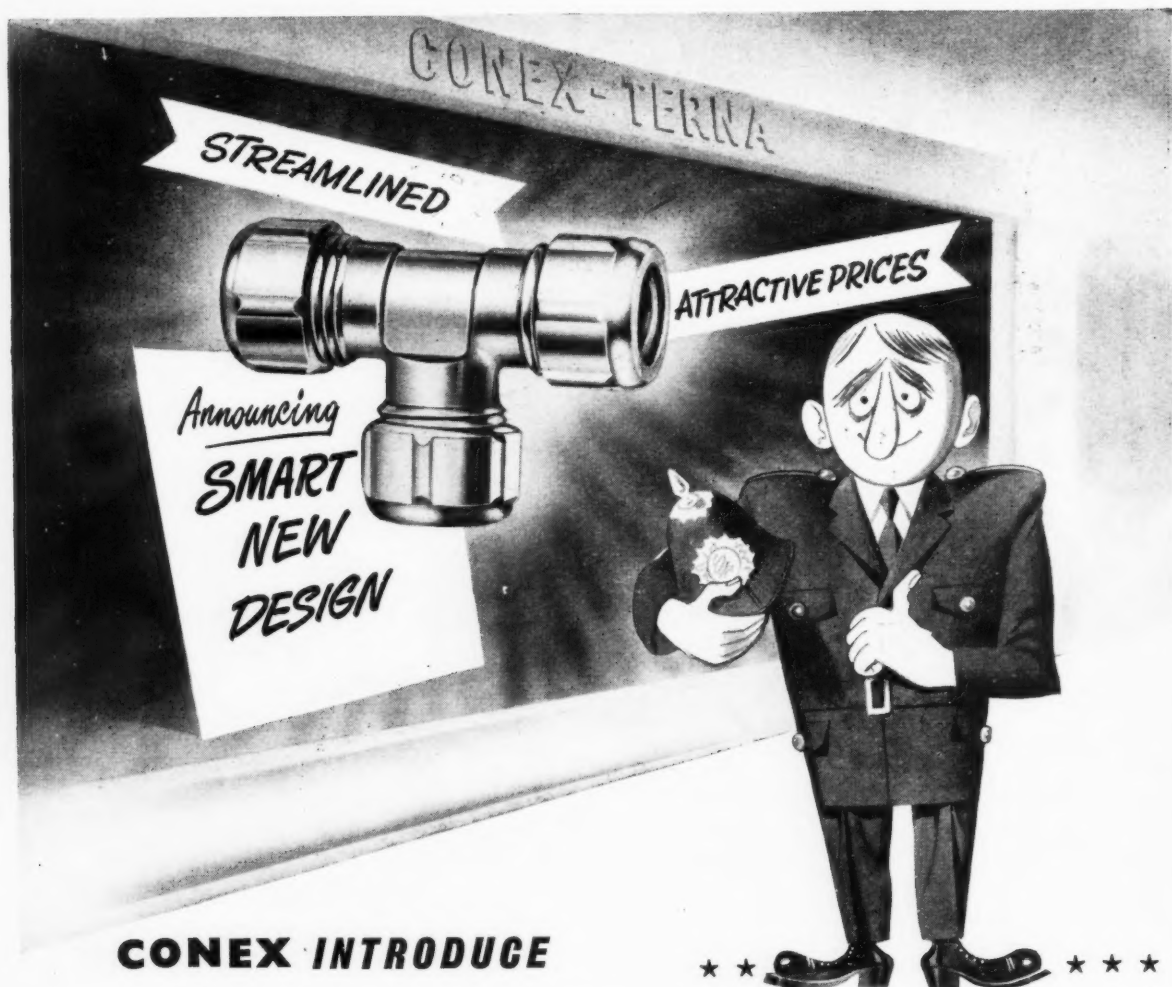
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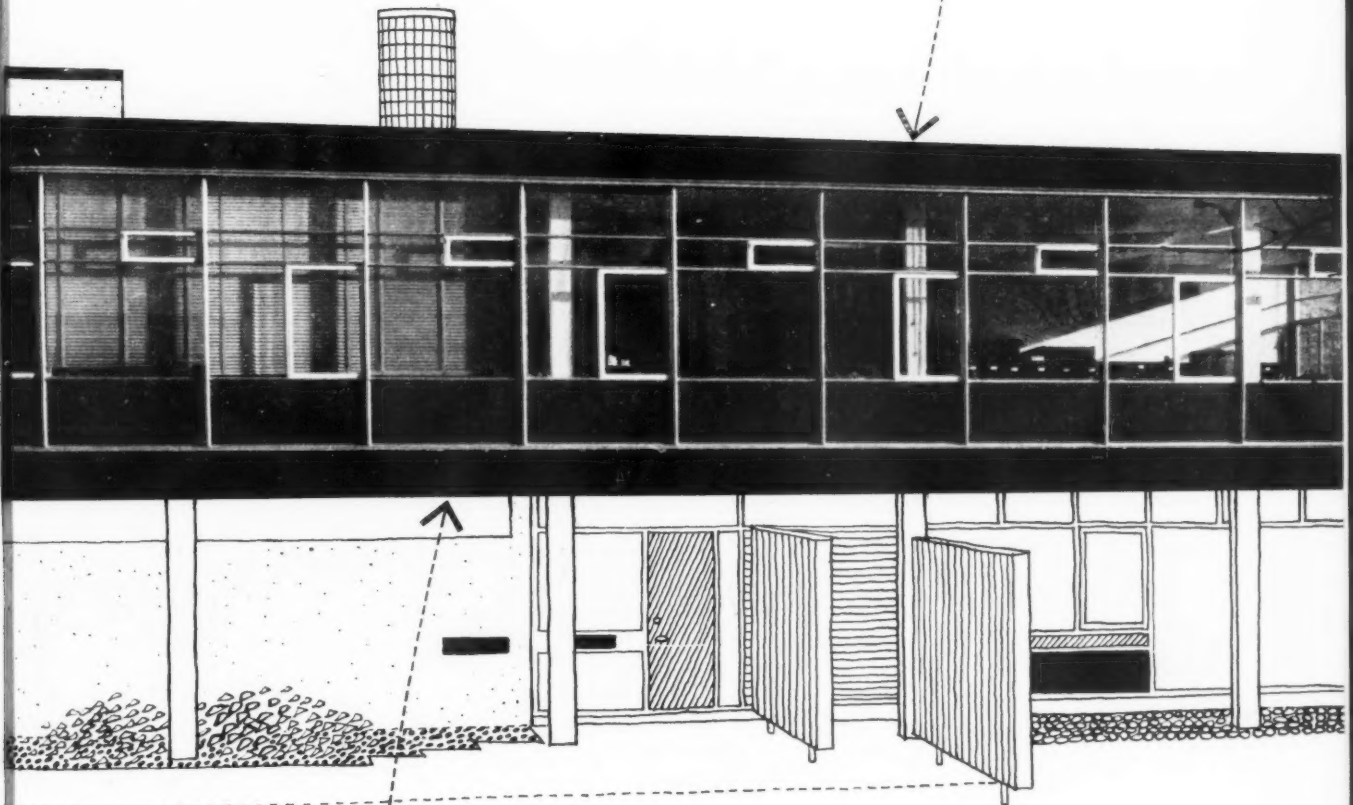
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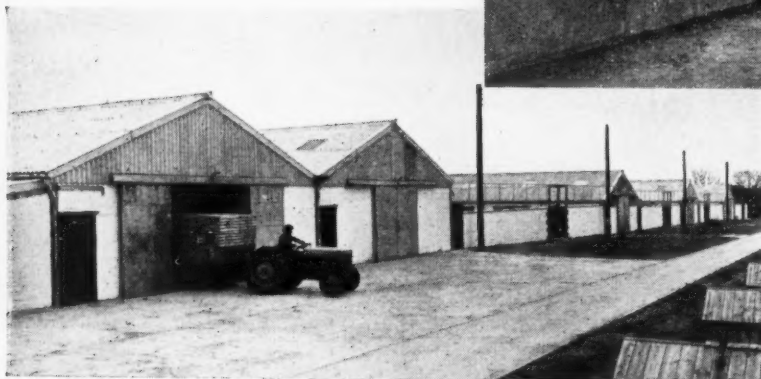
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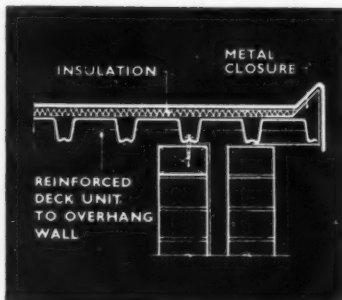
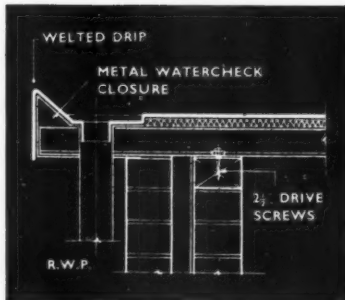
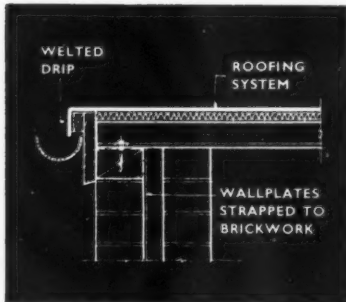
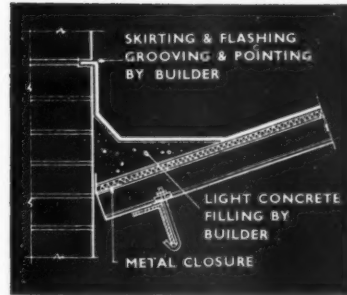
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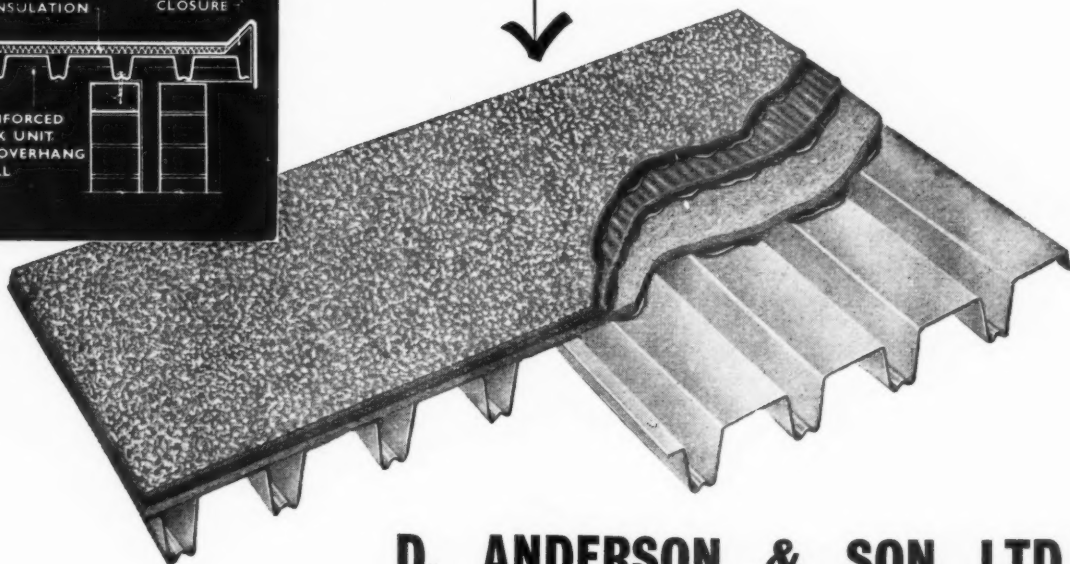
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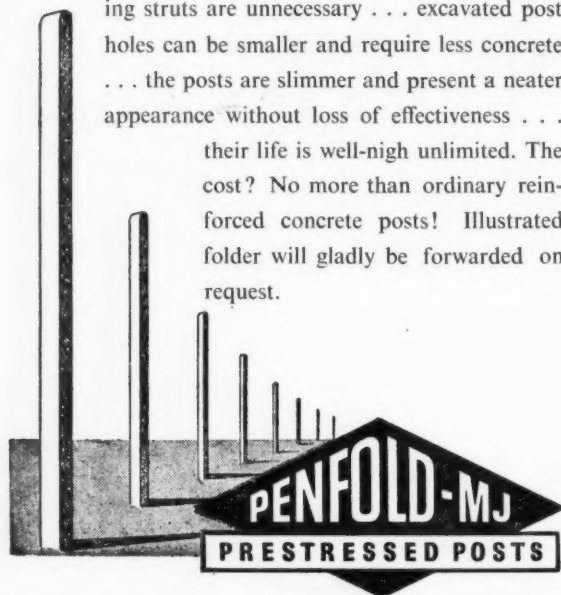
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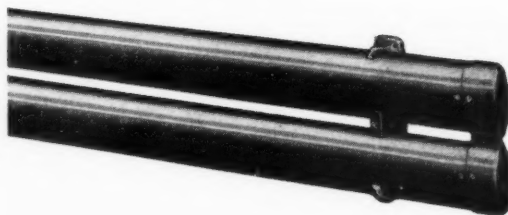
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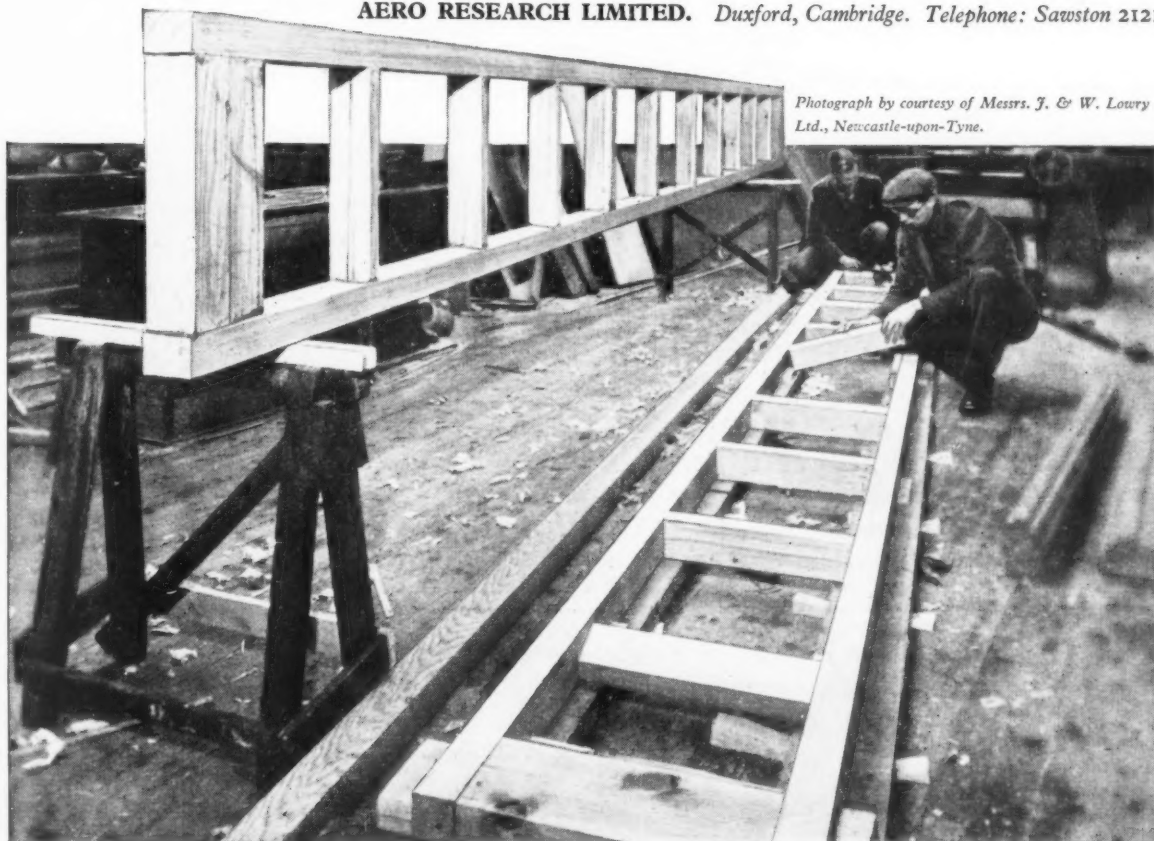
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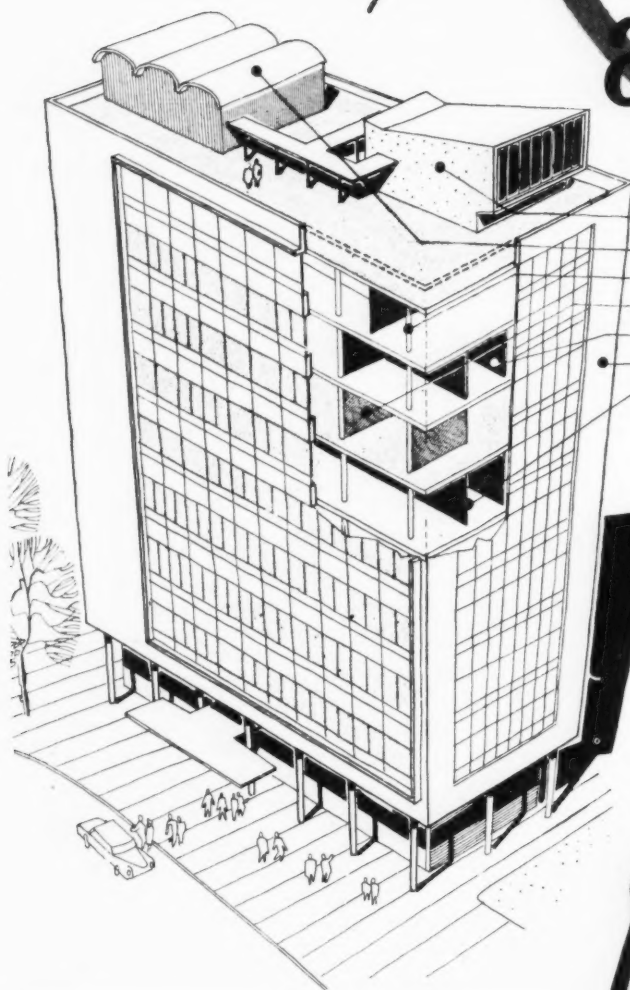
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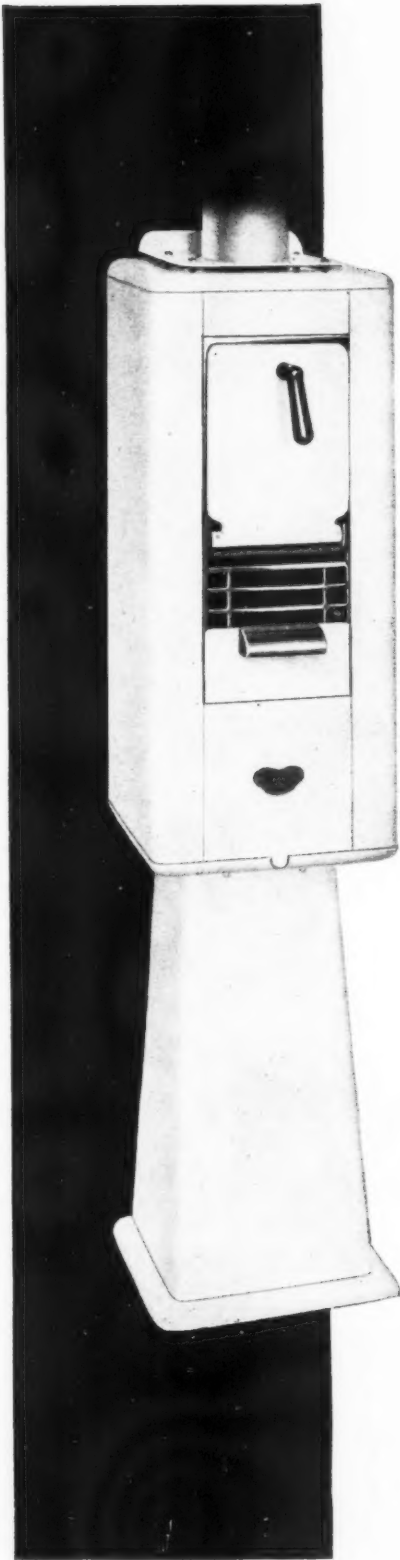


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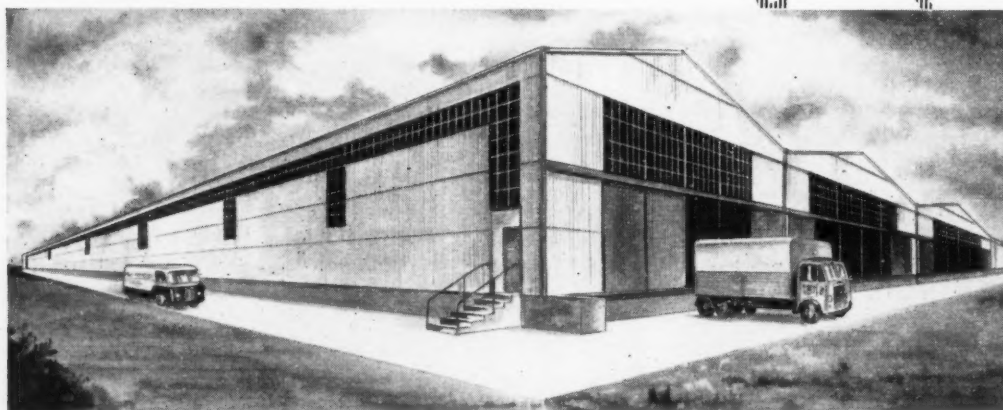
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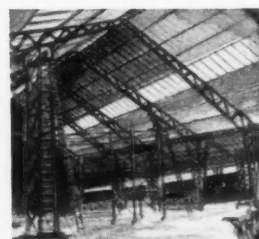
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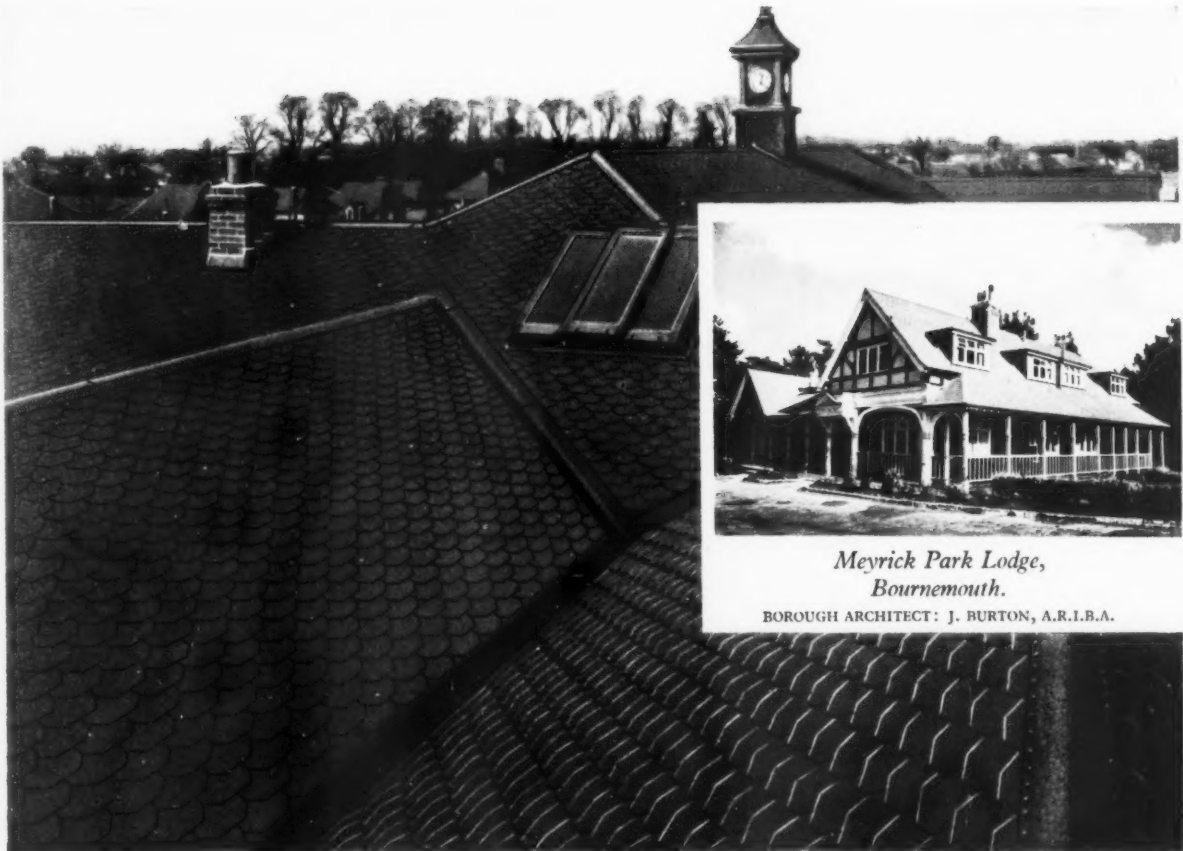


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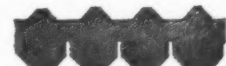
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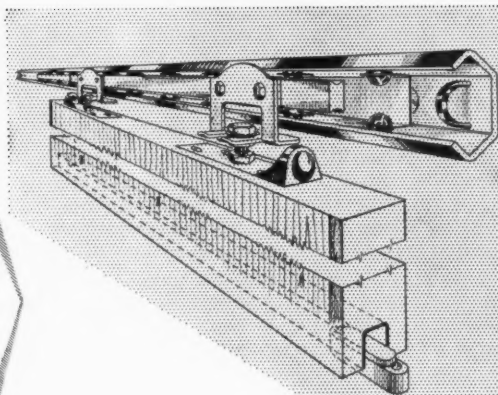
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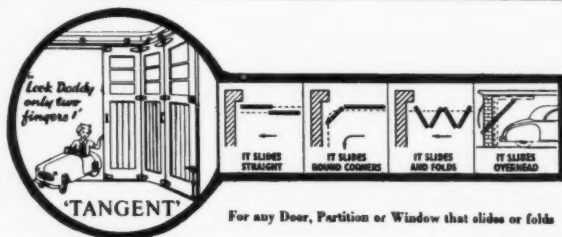
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NOT QUITE ARCHITECTURE

A SLOOP IN THE DEEP

Or, How to Rule the Waves

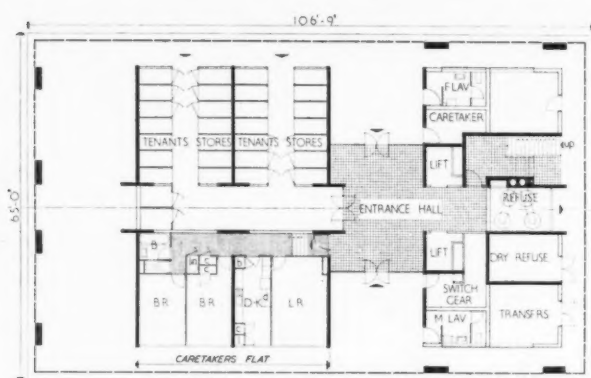
To say that a boat must float is to oversimplify. She must float at a predetermined level and fore-and-aft trim. This involves calculation of the underwater volume (Blessed be Simpson's Rule and the planimeter!) and a simple but laborious calculation of the weight and moment of each part of the structure. When the yacht comes to be launched, some designers shut their eyes and pray, and even the most experienced keep their fingers crossed, and hope that any arithmetical errors have cancelled out.

*

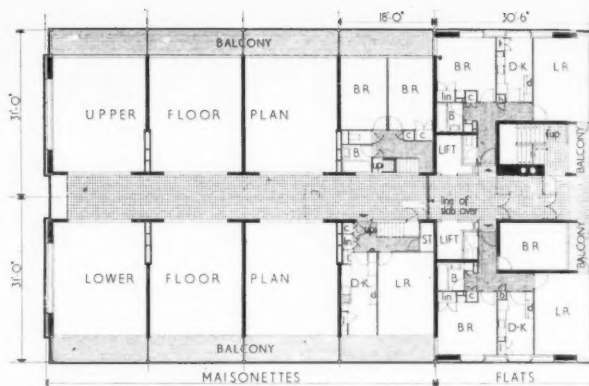
The shape of the hull is a compromise between speed and stability (power to carry sail). Most sailing yachts are designed with the measurement rule of the Royal Ocean Racing Club more or less in mind. This rule, which is used throughout Western Europe, decides the time allowance which a larger yacht must give to a smaller so that they can race on level terms. It encourages beam and depth of hull, the qualities which make for sloth and comfort, and discourages length and sail area, the speed-making factors. And it still leaves the designer plenty of scope for exercise of judgment.

*

Whether the hull is constructed of wood, steel, aluminium alloy, fibreglass, or even Professor Nervi's ferro-cement, it must be light, strong, free from leaks, and capable of being tossed around with several hundred square feet of canvas struggling against a few tons of lead or iron bolted to the keel. It is necessary for stability to have between 30 and 50



Ground floor plan



Typical floor plans above ground floor



High Stepney

Four 17-storey blocks of flats and maisonettes, overlooking some of the new open green spaces that are being created among the squalor and ruins of London's East End, will be the central features of two new housing schemes in Stepney approved by the LCC last week. There will be three blocks in Clive Street and one at Mountmorres Road. Their construction marks a new stage in the work that has now been going on for 10 years in the Stepney-Poplar comprehensive development area where, as we report on page 457, one can now begin to see the emergence of a definite plan amid the mess and muddle of old and new that now afflicts the eye. These new blocks may also signal the abandonment by the East London Borough Councils of the conservatism that led Poplar bitterly to oppose the 19-storey Tidey Street point block. Stepney, instead of launching into opposition, invited the LCC to explain their plans. The LCC planners and architects not only laid on an exhibition for the Stepney councillors and officials, but were able at a meeting last week to win their acceptance, and even their enthusiasm for the new project. The construction of the new blocks, which lie midway between point blocks and slabs, is straightforward: a concrete box frame, walls in brick or glazed insulated panels, balconies in aluminium and glass. A cleaner roof line has been achieved by the aid of underground water storage and the fact that the lifts do not serve the top floors (they serve the maisonette floors only, access to the flats above being by staircase); this has helped to keep the height of the tank and lift room below 8 ft. Internal planning is compact, apart from the wasted space involved in the broad internal access corridor, which rises through two floors except at the south end where an intermediate floor gives access to the flats. The only dwelling on the ground floor, which is unpopular with tenants because of noise and lack of privacy, is the caretaker's flat. On the remaining floors there are four maisonettes on the east and west sides of the broad central corridor, which is lit at both ends. Closed access gives both warmth and privacy. Internal bathrooms and w.c.s keep the frontage to the minimum, reserving it for living rooms and bedrooms and reducing heat losses. The tall blocks (but not the accompanying low dwellings) have central heating and hot water supply, partially controlled by the tenants. They were designed by the LCC Architect's Department, directed by Hubert Bennett, Architect; F. G. West, Deputy Architect, and H. J. Whitfield-Lewis, Principal Housing Architect.

per cent. of the total weight of the yacht in the keel. Many yachts are built to Lloyd's Rules, which take the place of Codes of Practice and Building By-Laws. The recent revision of these rules has produced a sensible standard of construction, and while Lloyd's Surveyors are helpful and reasonable men, they are also imbued with Scottish caution, and are not easy to convince if you want a waiver.

*

Then the sail plan. Sloop? Cutter? Yawl? Ketch? Schooner? How much sail is needed to drive a given hull, bearing in mind that the different rigs differ in efficiency in different conditions of sailing? The sloop, with two sails only, is the most efficient, but the ketch and schooner with their sub-divided sail plans are easier to handle. The mast will probably be a hollow tube with walls only an inch or two thick, built up of a number of pieces of Sitka spruce scarphed and glued together. It will be supported by steel wires attached to steel fittings on the mast. The stresses run into several tons in quite a small boat, and there are no British Standards for fittings, nor can they be seen in catalogues or at a Building Centre. They all have to be designed for the job; they must be as light as the designer dares to make them, but the mast must not, repeat not, fall overboard.

*

Yacht design has its aesthetic side too; there are the romantics who favour something on the model of a fishing smack or pilot cutter, regardless of the different purposes for which these vessels were employed; the Wurlitzer school who hanker after a welter of chromium plate to make their blondes happy; the "avant garde" who just wants to be different. Fortunately, the aesthetic of sailing yacht design has not become a subject for learned monographs on yellow paper, nor has it yet made the Third Programme. What might be called the classical tradition came into being about 80 years ago, when yacht form (as we know it) first began to appear. The early examples had to put up with some savage criticism, but the tradition survived and developed quietly and slowly (the sea is a great leveller), and is still slowly developing as young designers succeed their elders. It consists basically of what might be termed a "yacht-like" appearance of which the elements are our old friends proportion, harmony, scale and fitness for purpose.

F. B. R. BROWN
Architect and boat designer

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

The Editors

NEW-STYLE PRICES

ON pages 464-472 is the second in the series of our new-style presentation of prices. Those items that have changed since the series began on December 27 are marked with asterisks. The most startling change is in the price of structural steelwork sections, which have shot up by over 10 per cent. The February wage award is responsible for most of the other changes—although there are some *decreases*—in the prices of imported hardboard and some flooring hardwoods, and in the prices of those perennially unstable items, lead and copper sheet and pipe. Among prices remaining the same are those for machine excavation, drainlaying, asphaltting, most floor finishes, joinery work, painting and glazing. Many of these are specialists' work in which the effect of the wage award is delayed.

The trend of tender prices may contradict the indication of our prices feature. The latter is built up from basic factors assuming a constant overheads percentage; whereas builders are beginning to be short of work. We thank Messrs. Davis, Belfield and Everest, quantity surveyors, for the hard work they have done and the ideas they have produced in working out the new style of presentation. In the next publication of prices they hope to extend once more the range of techniques and materials.

SIR PATRICK ABERCROMBIE



Sir Patrick Abercrombie, M.A., HON. D.LIT., LL.D., F.R.I.B.A., F.S.A., Professor Emeritus of Town Planning in the University of London, died on March 23 at the age of 77.

For our generation the words Abercrombie and Planning are indissolubly linked, and rarely has any man made such a contribution to his chosen skill.

It is difficult enough to prophesy who and what will be thought worthy of record down the years when the history of our time comes to be written, but we can at least say with some assurance that Patrick Abercrombie

and his work will be included in any definitive assessment of the planning of our environment.

His contribution, although widely varied, was made mainly in two forms. First, there was Abercrombie the practical planning director, the wise and far sighted leader of the pioneer teams which prepared the County and Greater London Plans: both were documents of the first importance, and together they provided a masterly framework for the replanning of the world's largest capital city. Second, there was Abercrombie the teacher. Far and wide his former students have carried the wisdom given by him, and there is scarcely a plan of note in Great Britain and the Commonwealth that does not reflect his influence in some form.

Here, indeed, was the rare example of one who practised and preached with equal power, and, to our credit, one whose outstanding powers were recognized within his own lifetime.

Sir Patrick Abercrombie: The following contributions come from three planners who knew him.

Sir William Holford writes:—

Town Planning everywhere, as a creative, preservative and politically conscious activity, owes a very great deal to Patrick Abercrombie. This country, in particular, owes him recognition as a great teacher in the tradition of humanism, and as a notable exporter of its ideas.

It may sound odd to describe Abercrombie as a bee, for he was not fussy, nor important, nor pompous; and would never have tolerated a totalitarian régime. But he was like a bee in the way he darted from point to point; so that you could never focus on him for long. Also he fertilized plants of many kinds in many places—plants that afterwards achieved considerable growth.

He was the great catalytic agent of planning: first in urban development—as in his Dublin plan of 1913; then in small-scale regional planning, for which he wrote a whole series of pioneer reports—the Kent coalfield, Doncaster and district, Bath and Bristol, and many others; then in the preservation of the countryside and of natural resources, in which he was a founder of the CPRE; then in metropolitan plans of the largest scale—the County and Greater London, Plymouth, and Edinburgh; finally in the international field.

All through he remained a teacher. He understood the double discipline of exposition and idea which teaching offers; but he was not so much of the classroom as of the atelier. He worked with small groups of students, of assistants, of partners—even with sections of government departments, introducing them on the way to cartography, geology, residential density, the philosophy of Chinese landscape architecture, and ideas on industrial location and New Towns. He countered the ideological and statistical jargon of planning practice with a certain 18th century elegance, being an amateur of music and calligraphy and furniture, and brother to Lascelles Abercrombie, the poet.

A member of countless committees and commissions—including the Barlow Commission—Abercrombie always preserved a very individual approach. He was interested in proposals and problems, but not so much in organization. Nevertheless he organized his own life and travels to the fullest possible extent; and what this meant in domestic terms, since the death of his dearly-loved wife in 1942, is probably only known to his daughter, Mrs. Farey, and to his son, Neil, who is now Town Planning Commissioner for Tasmania.

Percy Johnson-Marshall writes:—

Although Sir Patrick Abercrombie was in age someone from a previous generation, and a man who was, so to speak, in at the birth of modern city and regional planning, he was one of the few outstanding men who remained young in mind throughout his life. Whether in public meetings (and he continued to take an active part in public life right up to his death) or in private discussion, his mind remained alert and his memory clear. His attitude to planning and to life generally continued to be essentially forward-looking and progressive.

Most of his numerous activities were concerned with creative planning and the preservation of beauty in town and country. His two greatest practical works, the County of London and the Greater London Plans (the former with J. H. Forshaw) were carried out in a time of crisis when most of his former students were scattered even further than they are now. They are documents of fundamental and pioneering importance. In them were embodied for the first time all those theories of planning in space and time which had been evolved during the first half of this century, and together they stand out like a landmark in the planning literature of our time. It was Lewis Mumford who said of the County of London Plan, "As one has learned to expect from any work with which Professor Abercrombie is associated, this report has the great merit of taking an extremely complex collection of data, reducing it to manageable proportions, using it as a basis for a clear-cut and reasonable proposals that can be followed step by step." This describes well almost everything Abercrombie said and did.

His planning work in these islands goes back before the first World War, where we find him, along with Geddes, Adshead, Unwin and other great pioneers, laying the foundations of the vast new subject which is only now beginning to be properly understood. In this connection his little book *Town and Country Planning*, was probably the most clearly written and widely read introductory statement of planning that has ever appeared.

Internationally, his name is known and respected throughout the world. Not only did he prepare planning schemes for places as far apart as Hong Kong and Addis Ababa, but editions and quotations of his works have been printed wherever plan-

ning is studied. His efforts, too, on the International Union of Architects (of which he was first President) and other such bodies should not be forgotten.

The shock of realizing that he has so suddenly passed away is great, and the memory of his vivid and lovable personality will remain in the minds of hundreds of his grateful friends and students for many years.

Sir George Pepler writes:—

It was my privilege to meet this great man early in his career in the field of Town Planning, when he was assistant to the late Professor Adshead, at the School of Civic Design, at Liverpool University, founded in 1909.

This chair Abercrombie subsequently occupied for 20 years before he became Professor of Town Planning at London University—a post he held until he relinquished it, in 1946.

Others will record the high distinctions conferred upon him during his brilliant career; my memories dwell happily on companionship with a warm-hearted man who devoted his talents to the development of the technique of town planning in the belief that it was a matter of supreme importance to the well-being of his fellow men.

This belief was evident in such activities as his teaching and writing and in the work he did, for example, in founding and chairing the Council for the Preservation of Rural England. Products of his teaching are to be found in the early volumes of the *Town Planning Review*, which he so brilliantly edited, in his exposition of theory and practice in his *Town and Country Planning* published by the Home University Library in 1933, just after the passing of the Town and Country Planning Act, 1932, and of his brilliant Regional Planning Reports of which he was a pioneer.

We were both disciples of Prof. Patrick Geddes and firm believers in his insistence upon the need for survey into "Folk, Work, Plan" as an essential preliminary to any plan, and Abercrombie gave a practical demonstration of the application of this principle in his *Sheffield Civic Survey and Suggestions towards a Development Plan*, which was published in 1924, having been begun in 1920. Our closest collaboration, however, was in the preparation of the first few of the many advisory Regional Planning Reports for which he was responsible, between the wars. His Report on the Region of the Doncaster Coalfield was the first to be published, and each of his subsequent regional plans was notable for some additional contribution to the art of planning and the development of survey and to the method of presentation.

It is true that none of these plans have been implemented in full, partly because they were ahead of their time, but essential parts of many have survived and the loss of others have been subsequently deplored. Also, they blazed the trail and developed a technique which came to full flower in his Greater London Plan, 1944.

I have referred, in particular, to Abercrombie's work in Regional Planning because in that he was a pioneer, but he contributed no less to the development of the art and science of planning cities, beginning with his plan, in collaboration with Sydney Kelly, M.T.P.I., F.S.I., for Dublin, in 1913, including plans for several of our bombed cities, during the war, and ending with his plan for Addis Ababa, in 1955. After the war, he gave advice, on the spot, in many parts of the Commonwealth.

As a man Abercrombie seemed entirely unconscious of his greatness. He was all the time seeking to learn and to share his knowledge and experience with others; whilst his ready wit and infectious laugh made him a delightful and treasured companion.



80TH ANNIVERSARY

Coming out from a coma induced by standing in what must have been the slowest moving queue since the evacuation of Dunkirk, ASTRAGAL suddenly found himself, unlike the page in the carol, with an intriguingly wide choice of footprints in which to tread. Should he follow the richest, Nubar Gulbenkian; or the most devout, Dr. Fisher; or the most influential, Mrs. Norman Bentwich; or that arbiter of taste, Sir Gordon Russell? The occasion which brought these eminent figures, and many more, under no less a roof than that of St. James's Palace last week was a soirée held in commemoration of the 80th anniversary of the founding of SPAB.

*

The SPAB came into being as the result of a letter from William Morris in the *Athenaeum* of March 10, 1877, deploring the restoration by Sir Gilbert Scott of Tewkesbury Minster. William Morris became the first honorary secretary of the Society, and it was appropriate for last Thursday's occasion that two of the Palace state rooms used had formed part of the earliest of the interior decoration schemes undertaken by Morris and his friends. The most striking is the Armoury, with black panelling and woodwork covered with leaf and geometric patterns in gold. It shows little signs of wear.

Since the SPAB was formed various other bodies concerned with preservation have come into being: the National Trust (1895), the CPRE (1926), the Georgian Group (1936), and finally, in 1953, the most significant of all, the Historic Buildings Council. This last body is perhaps the triumphant climax to the SPAB's endeavours. Nevertheless, powerful though the Council may be, the need for SPAB to continue its rôle as a watchdog for the nation's buildings is as important as ever.

FRY NIGHT

Are Science and Art Divergent?

That was the subject of Maxwell Fry's talk at the ICA last week. The theme was an extension of a point that Mr. Fry had raised in talks on the Third Programme some time ago, when he reflected on the inadequacies of the ideas about architect-industry relationships that were current in the 'thirties. This time he pursued the subject into the American scene, producing some rather routine European reactions (or so it disappointingly seemed to ASTRAGAL) to such things as New York, General Motors, Exurbian shopping centres, and what not, but paralleling this with what Patrick Campbell would have called a short trot with various cultured minds, notably those of Henry (Virgin and Dynamo) Adams, Norbert (Cybernetics) Wiener, and Alfred (Down with Newton) Whitehead. To short-winded ASTRAGAL, who had difficulty in staying this course, the message seemed to be that old-time Newtonian science was running architecture to death because it had no room for human values, but that since Einstein there was now room for emotion and illogic in science, and that—given some sort of super post-graduate school, variously referred to as a National Bauhaus or College of Foreknowledge—art and science could stop diverging.

*

A packed audience heard this with sympathy, but with how much comprehension it is difficult to say, since the subsequent discussion was largely about birds and bees, and the possible virtues of chaos. ASTRAGAL is more than prepared to give Fry maximum marks for having trodden where architects normally fear to tread, but personally would have preferred to

hear a professional philosopher rush into architecture. Could the ICA arrange a return match?

NUCLEAR POWER STATIONS

"Can atom stations blow up?" That question was asked in an advertisement for last Sunday's *Observer*. But people who bought the newspaper found no answer to the question. Instead they found replies to three other questions:—What sort of site is needed for a nuclear power station? Can such a station be good architecture? And how will the nineteen projected stations affect the British landscape?

*

John Davy gave the answers to the first question—answers that may not yet be common knowledge. The stations, he said, had to be sited not only where there was plenty of cooling water, but also where there was firm bedrock to bear the immense weight of the reactors. They had to be some distance both from densely-populated areas (to conform with the Government's "safety policy") and from coal-fields (simply because they could be of greatest benefit in areas which find coal deliveries expensive).

*

What about architecture? R. Furneaux Jordan wrote that there was nothing one could *do* to the "largest artifact since the cathedrals" to make it either better or worse. "It is not what it looks like, but where we put it that matters."

*

Well, where *shall* we put it? Who decides? Graeme Shankland reminded us that the Electricity Authorities are exempt from the need to obtain planning consent. And he pointed out that although a scheme took about nine months to get past all the public bodies which were *consulted* it usually emerged intact, and—this is important—without anyone having suggested an alternative site for it. There should be a Minister of Planning, he said, with the power to secure the proper use of land and to guide new projects into the right places.

*

Shankland had his facts wrong in one respect. He implied that the Royal Fine Art Commission had been consulted about the siting of the four stations already planned. That is not so, though I believe the Commission hopes to be consulted in future.

Observer's clarification of the whole matter may remind him that he can, at least, make a useful nuisance of himself.

GIANT ARCHITECTS: DWARF LAMP-POSTS

It is good to see that people of widely different outlook in many other matters can be united in strong opposition to the evils of Subtopia. The JOURNAL has been fairly critical of Sir Albert Richardson in the last year or so. ASTRAGAL was therefore gratified, if rather surprised, to learn that Sir Albert made a special point of supporting the *Architectural Review's* and the JOURNAL'S denunciation of Subtopia at the annual dinner of the Guild of Surveyors last week. Lord Methuen spoke first, with quiet effectiveness, on the need to retain old and historic buildings in redevelopment schemes, and to site buildings with the eye of a townscape painter. Sir Albert, horrified by the concrete lamp-posts proposed for Amptill, his home town, condemned town councillors as vermin, and as having (rather illogically) the lowest order of human intelligence. For good measure he went on to deplore the lack of architect giants ("only millions of chartered dwarfs") and the absence of good copy books today ("only catalogues"). ASTRAGAL wishes him well in his endeavours to get on to the Amptill Urban Council. It is a pity more architects don't follow suit.

NOT-SO-BRIGHT BRIGHTON?

It is surprising that Brighton, a town famous for good architecture, should have turned down the proposal to appoint an outside architect to design its new College of Art. At a recent meeting of the Education Committee the proposal was quashed by twenty votes to two in favour of having the building designed in the borough surveyor's department.

*

Brighton Pavilion is a building of national importance, and the site of the new college is a very prominent one just opposite the pavilion. So it is no injustice to the corporation architects who work under the borough surveyor to say that its design is a matter of national importance, too, and the best possible architect should be sought.

*

Isn't this a case for an open competition?

ASTRAGAL

LETTERS

Control of Elevations

SIR,—The inference from your editorial of March 7, in which you comment on Dame Evelyn Sharp's speech at the RIBA dinner, that freedom from control for architects will result in better architecture, is not quite so simple as that, nor necessarily correct. In the first case there seems to be a fundamental assumption that all architects are good architects, or at least good designers. It is true, perhaps, that even an inferior architect is better than no architect at all, but the magic letters F.R.I.B.A., or even A.R.I.B.A., are not yet a guarantee of competence always to produce designs above criticism.

Perhaps the weakness lies not so much in interference by Planning Officers, though I would not deny the risk, particularly in smaller or less enlightened planning authorities, of the imposition of personal whims by the more philistine members of the general planning fraternity. More likely is it to be found in the system of delegation of planning control practised by many County Authorities, where District Councils are allowed a very free hand in control of development—providing major issues involving policy matters are not affected. Unfortunately, except perhaps in special instances, the appearances of buildings, as opposed to the broad question of land use, do not rank as policy matters, and indeed the more a particular house resembles that in which Councillor Blank lives or aspires to, the greater its prospects of approval . . . or so

it seems.

Now Councillor Blank is in other aspects of his public life no doubt a most worthy citizen, but unless he is exceptionally well informed on matters aesthetic he is likely to be cynical, to say the least, about any building proposal which does not conform to his narrow view—and, of course, that of the electorate which he represents—of what is suitable for his area. And we all know what that is.

A point in this controversy which has, perhaps, been overlooked, is the limitations of individual architects in work involving more than a small group of houses. A good architect, especially one who has had a post-graduate planning training will, of course, be able to produce a good layout no matter what area. On the other hand, an architect whose competence lies more in his constructional knowledge than his faculty for design must be guided by the planner—always providing, of course, that he himself is competent—in how his work should take its place in the larger whole.

The answer, to my mind, for some years yet to come at any rate, lies not in less control but in an even stronger control, in the right places by the right people, those who by qualification, training and general outlook are capable of encouraging the best in architecture and are not afraid of criticizing inferior work—whether by architects or not—and making constructive suggestions for improvement. I regard the visual aspect of planning as one of the most important—if only because it is that aspect which has the most immediate impact on the public at large and can make all the difference between a depressing and a stimulating environment.

PLANNER.

Southport.

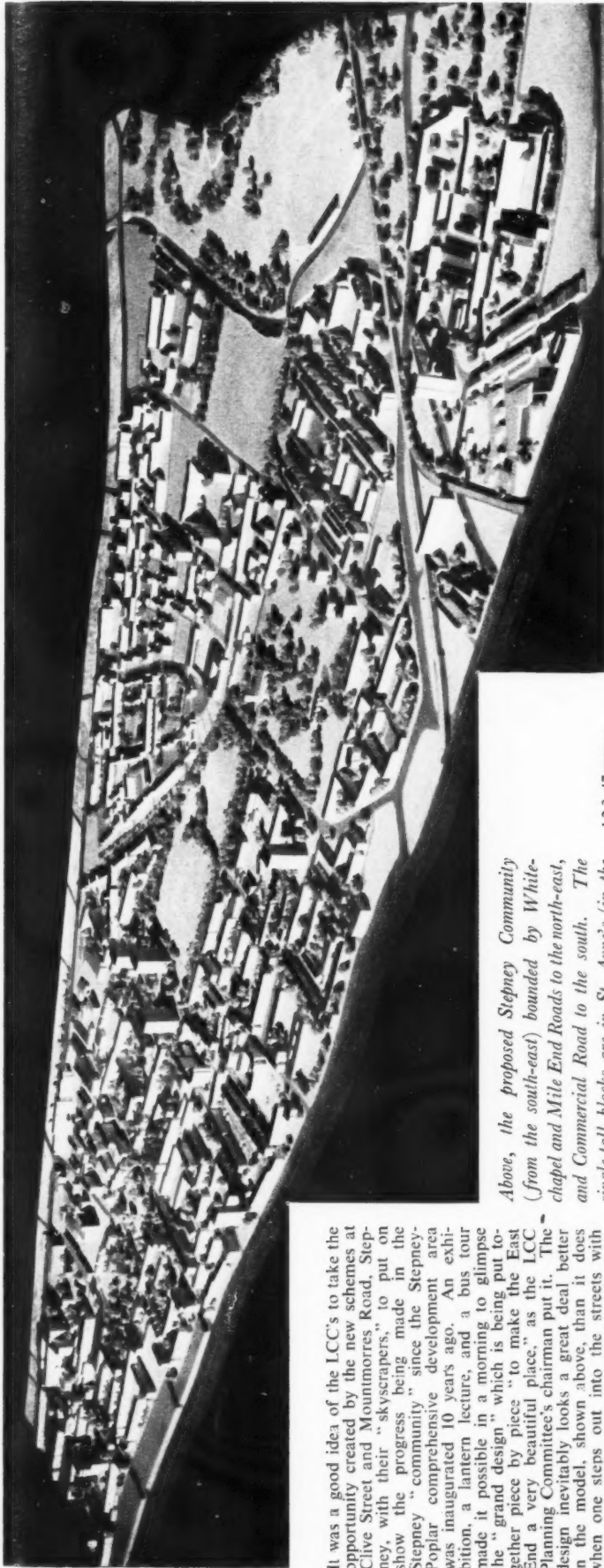
Cost control in building: six lecture discussions

organized by the School of Architecture, the Regent Street Polytechnic in association with the ARCHITECTS' JOURNAL

We invite building contractors, as well as architects, quantity surveyors and students to come to this course. It is for those who would like to learn more about the techniques of cost control—or who have ideas and experience of their own to contribute to the discussion.

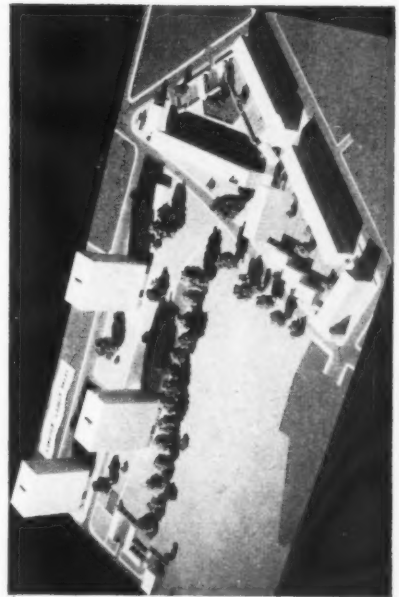
1. April 30. *The Need for Cost Control*. J. M. Austin-Smith, A.R.I.B.A. (architect in private practice). Chairman: Sir Thomas Bennett, F.R.I.B.A. A brief review of the present situation—what kind of information is needed and what procedures should be followed for better cost control. Brief account of techniques developed so far.
2. May 7. *Cost Analysis*. James Nisbet A.R.I.C.S. (principal quantity surveyor, MOE). Chairman: Hubert Bennett, F.R.I.B.A. A method of analysing building costs. Significance and uses of such cost analyses.
3. May 14 *The Elemental Bill of Quantities*. Clifford Nott, A.R.I.C.S. (chief quantity surveyor, Herts. C.C.) and Ivan Tomlin, A.I.B.E. (contract manager, Howard Farrow Ltd.). Chairman: P. E. Trench, B.Sc. Arrangement of the elemental bill. Its purpose and uses by the architect, the quantity surveyor and the builder.
4. May 28. *Cost Planning I*. G. Grenfell Baines, A.R.I.B.A., A.M.T.P.I. (architect in private practice). Chairman: M. H. Thackray, F.R.I.C.S. Preparation of a cost plan. Its use during the design stage, at tender stage and during the contract.
5. June 4. *Cost Planning II*. John Wilkinson, A.R.I.B.A. (architect in private practice) and Arnold Towler, A.R.I.C.S. (quantity surveyor in private practice). Chairman: Cyril Sweett, F.R.I.C.S. Cost planning in practice on an actual project.
6. June 18. Symposium. Chairman: D. E. Woodbine Parish, F.I.O.B. Questions and discussion. All speakers will be present.

Time 6.30 p.m. Apply: The Registrar, School of Architecture, Little Titchfield Street, W.1. Registration fee: 11s. The lectures to be held at the Polytechnic, 309 Regent Street, W.1.

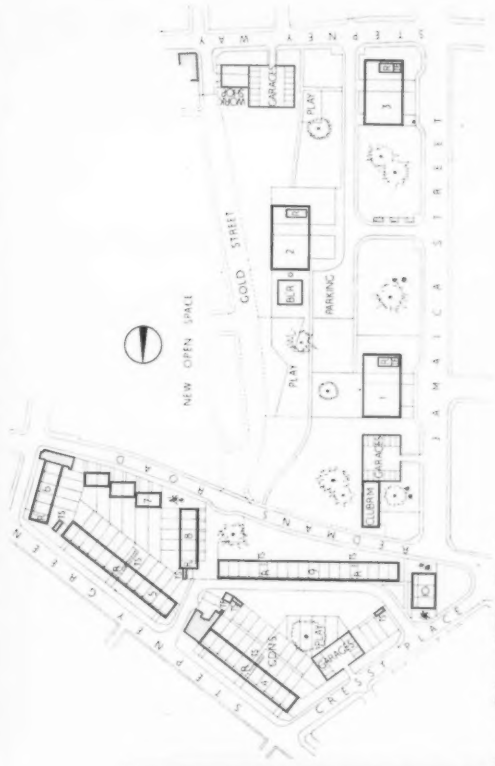


Above, the proposed Stepney Community (from the south-east) bounded by White-chapel and Mile End Roads to the north-east, and Commercial Road to the south. The single tall blocks are in St. Anne's (in the bottom right-hand corner) and Mountmorres Road (foreground, centre). Below, model of Clive Street with its three tall blocks (left of centre in picture above).

1,2,3. 17-storey
maisonettes and flats
4,5,6,8,9. 4-storey
maisonettes
7. 2-storey houses
10. 1-storey shops



Layout plan of Clive Street



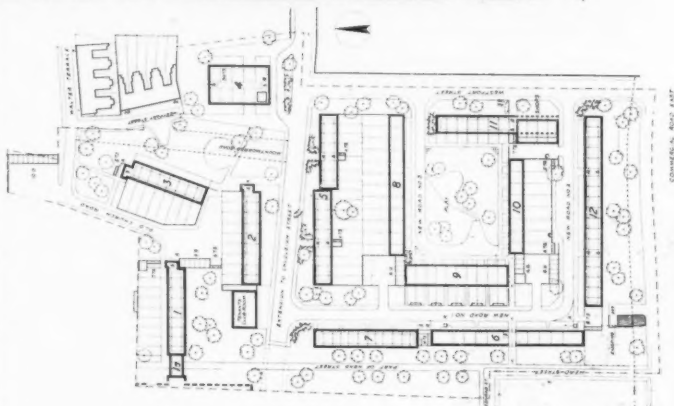
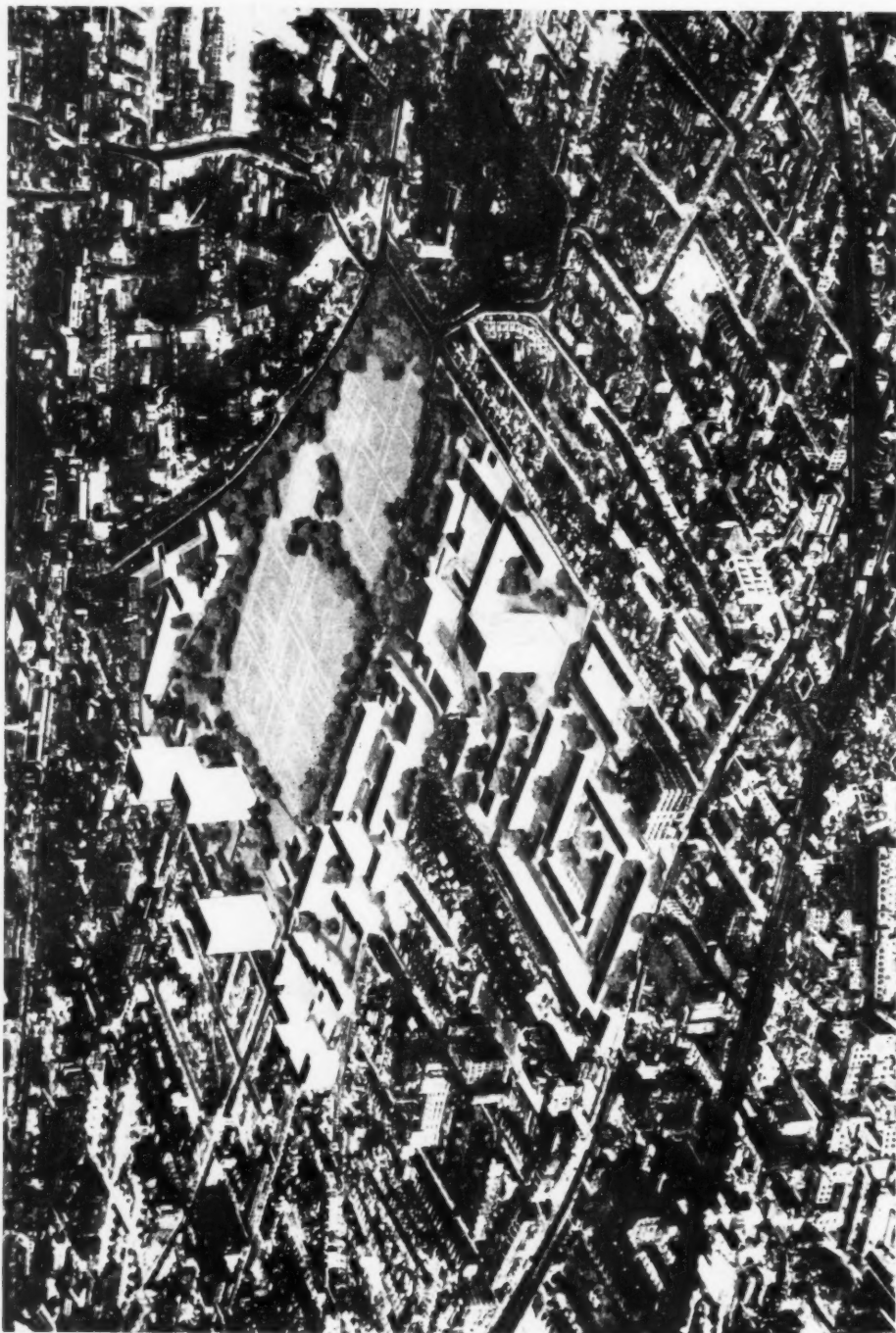
It was a good idea of the LCC's to take the opportunity created by the new schemes at Clive Street and Mountmorres Road, Stepney, with their "skyscrapers," to put on show the progress being made in the Stepney "community" since the Stepney-Poplar comprehensive development area was inaugurated 10 years ago. An exhibition, a lantern lecture, and a bus tour made it possible in a morning to glimpse the "grand design" which is being put together piece by piece "to make the East End a very beautiful place," as the LCC Planning Committee's chairman put it. The design inevitably looks a great deal better in the model, shown above, than it does when one steps out into the streets with their astonishing mixture of gasworks, viaducts, breweries, and slums inextricably mixed-up with finished post-war building. There is much, unfortunately, to mar the execution of the design. It is a slow process to remove industries that ought not to be there in a residential precinct. There is an unsatisfactory legacy from the earlier post-war years of grim-faced flats with balcony access and asphalt surrounds. Areas that are scheduled for future clearance are shockingly neglected, and when the rate of development is too slow—as it is—the depressing period of decay and builders' mess is far too long. The model shows noble trees in parks and lining the roads, but little tree planting has yet been done—and ultimately it is the trees almost as much as the architecture that will transform the East End.

But these are not the most important things, although they argue strongly for quicker progress. The great thing is that the new is beginning to overshadow the old. All the seemingly disconnected buildings that have gone up are beginning to form a coherent pattern, and there is a continual improvement in design which

LCC: FURTHER DEVELOPMENTS IN THE PLAN FOR THE STEPNEY COMMUNITY continued

augurs well for the great mass of work that remains to be done. This is one of the few places in Britain where all new building takes place in accordance with a three-dimensional plan. The first new open space can be seen at King George's Fields, even if it looks treeless and bare as yet: it will become a "green finger" linking up with Victoria Park, and it enables one to understand the enthusiasm of the guide who embraces an old timber yard and a blitzed site with a sweep of the arm and exclaims "all this is green open space."

During the last few years experiments in flat and house design, and the close co-operation between planning and housing staffs, have resulted in the evolution of a conception in design that is exemplified in the two new schemes. The chief elements are the tall blocks intended for tenants with



Layout plan of Mountmorres Road

- 1, 6. 3-storey flats
- 2, 3, 5, 7, 12. 4-storey maisonnettes
- 4. 17-storey maisonnettes & flats
- 8, 9, 10. 2-storey houses
- 11. 4-storey shops, maisonnettes & flats]

Models of Clive Street and Mountmorres Road mounted on an airview of Stepney.

small family responsibilities, set well apart and overlooking green open space; the main accommodation is in four-storey maisonettes which lend themselves to a modern interpretation of the traditional English square, and a few two-storey houses.

The over-all density is 136 to the acre, but in Clive Street this has been raised to 160 because all three 17-storey blocks overlook a large new open space south of Stepney Green with football pitches and tennis courts. The open layout around the

blocks carries the green right into the scheme. The layout provides also for five four-storey blocks of maisonettes and a terrace of six houses, 3 shops, 138 tenants' stores, 38 garages, clubroom, estate work-shop, playground and three toddlers' play spaces. The estimated cost is £1,218,300.

The single 17-storey block at Mountmorres Road overlooks an open space by St. Dunstan's Church. There will also be five 4-storey blocks of maisonettes, a 4-storey block of flats and maisonettes with four

shops below, a 3-4-storey block of flats and maisonettes, a 3-storey block of flats and three terraces of houses round a square, together with 112 tenants' stores, 32 garages and two paved play spaces. The estimated cost is £1,039,000.

The planning of the Stepney-Poplar Area is under the Architect to the LCC, Hubert Bennett, the deputy architect, F. G. West, and the Senior Planning Officer, L. W. Lane. Their assistants and the housing architects concerned are on page 486.

CRITICISM

by J. M. Richards

CHURCH at BASILDON NEW TOWN, ESSEX

designed by BURLES and NEWTON

chief assistant J. O. FOGARTY

I don't have to begin in this instance by analysing the function of the building. We all know the purpose of a church, which is a simple one in that it is fixed and unalterable and therefore does not involve the architect in a search for improvements in the programme he is initially set, as a factory often does, or a hospital. On the other hand the purpose of a church is uniquely complex in that its successful fulfilment depends not only on the practical requirements being met but on the right atmosphere being engendered. A church is a failure if it does not create a devotional atmosphere, but the architect is up against the difficulty that this cannot be done solely by æsthetic means. To the worshipper, devotion is usually associated with the gothic style and with the sense of history created by the antiquity of most church buildings.

Looking diagonally across the interior towards the Lady Chapel.

The modern architect doesn't want to simulate antiquity or revive historic styles, and one day, he hopes, the idiom he works in will be so much taken for granted by the ordinary worshipper that this barrier between modern design and design the worshipper feels ready to respond to will no longer exist. In the meantime what can the architect do?

I think he can only behave as though there was no such barrier and design the best building he can, even if he has to wait for it to be appreciated until such time as the seed he has helped to sow has borne fruit. On the other hand he must resist the temptation to substitute for the emotional content of traditional buildings too many emotional effects of his own contriving. Modern church architects aim too often at the theatrical, through trick lighting and stage-management of various kinds, and the result, though effective at first sight, is as ephemeral as the theatre itself. Modern church buildings thus often appear unnecessarily freakish.

One of the things I like about this Basildon church is that it eschews such forced effects. It relies on sincerity and simplicity of statement. In fact, the encouraging thing that arises from the dilemma I have just referred to is that although the ordinary worshipper may be only subconsciously aware of the effect architecture has on him, and does not inquire into the reasons for the particular form it takes, the qualities he does respond to, like dignity and repose, follow directly from an honest use of structure and a straightforward use of materials; so the basis of good architecture and the basis on which a public appreciation of modern architecture may gradually be built up, do in fact coincide.

The interior of the Basildon church has dignity and repose, obtained by just these means. It also possesses that magical sense of spatial equilibrium created, I suppose, by the proportions being exactly right. These are the building's principal virtues; it also has weaknesses, especially outside, but before analyzing these I must give the basic facts about it.

It is a Roman Catholic church, dedicated to St. Basil the Great, sited on the edge of the Barstable neighbourhood of the new town. Beyond it is now open country, but later it will be surrounded by housing and is designed to serve the population of four neighbourhoods. It stands on a site of six acres, accommodating, besides the church, a presbytery, convent and primary school. The presbytery, which adjoins the east end of the church, is already built and the convent is under construction. The cost of the church alone was £30,000.

The neighbouring housing is what you would expect: decent, if rather dull, two-storey houses of traditional construction, spaced rather wide apart on either side of an unnecessarily wide road. The tower of the church has been placed so that it is seen from far down this road as one comes from the neighbourhood centre. At present the road ends at this point, but later it will join a main access road which will pass across the west end of the church. The immediate surroundings of the church are still flat and unfinished, but the architects have made landscaping



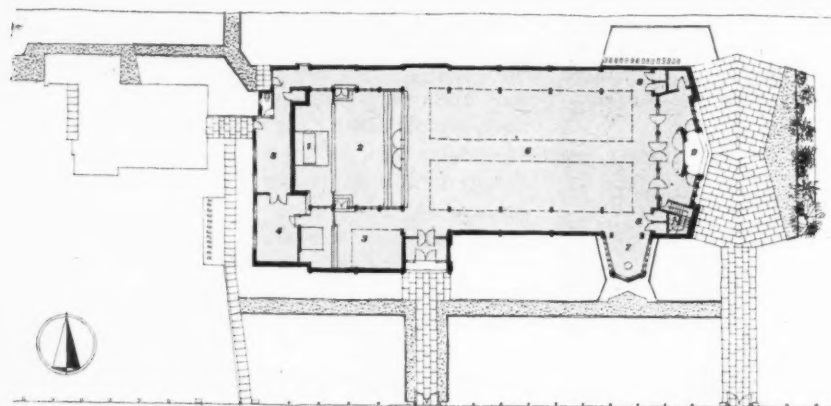


General view of the interior looking towards the altar.

plans which, when carried out, will give its setting more character than it has in the photographs.

The geometrical form of the church is simple: rectangular nave with narrow side aisles; sanctuary the same width as the nave without the aisles, with the

same roof-level continuing over both; bell-tower at one corner with baptistery at its base; main entrance through porch at the west end; single-storey wing on north side containing the Lady Chapel and side entrance; sacristy across the east end (I should per-



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

KEY:

1. Altar
2. Sanctuary
3. Lady Chapel
4. Priests' sacristy
5. Servants' sacristy
6. Nave
7. Baptistery
8. Confessional
9. Main entrance

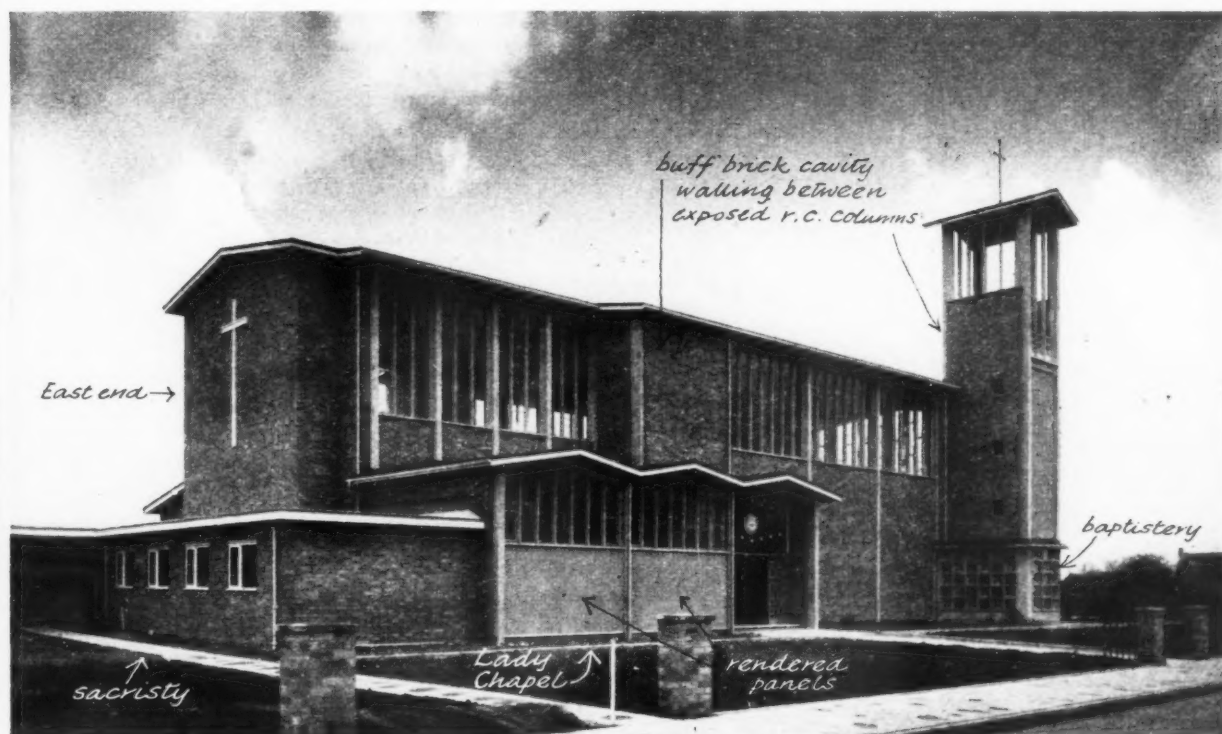
haps say that what I refer to as the east end is only the east end liturgically; in fact it faces west).

The structure is reinforced concrete, exposed inside and out, with brick cavity walls between the concrete columns. The bricks are buff-coloured. The roofs (including the roof of the tower) are covered in copper. The columns were precast in one unit, each of the free-standing nave columns being cast with a projecting spur at the height and angle of the main roof, so that the main roof-beam could simply be dropped into place after the columns were erected. The columns forming the corners of the tower were precast in two stages. The church is lit through the clerestory windows that span between the columns in nave and sanctuary, and through a large west window. Vision is good from all seats.

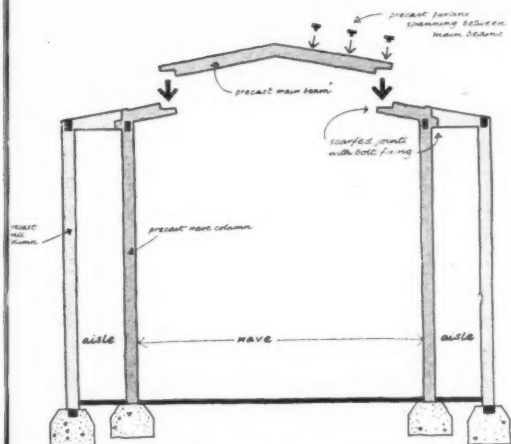
The concrete columns are left untreated in any way.

How they will weather externally remains to be seen. At present they have a very agreeable colour, which internally relates delightfully with the white plaster of the walls beneath the clerestory windows and the strong reddish-brown of the woodwork—the low pews, the furnishings of the sanctuary, the screens between the sanctuary and the Lady Chapel on one side and the passage leading to the sacristy on the other, the front of the west gallery and the screen between nave and porch at the west end—all of which are in African mahogany.

In fact the calm, cool colour-scheme contributed by these plays a large part in creating the sense of dignity and repose that, as I said earlier, the interior so notably possesses; that and the distribution of light and the general proportions of the space enclosed. All these are qualities impossible to record in a photo-



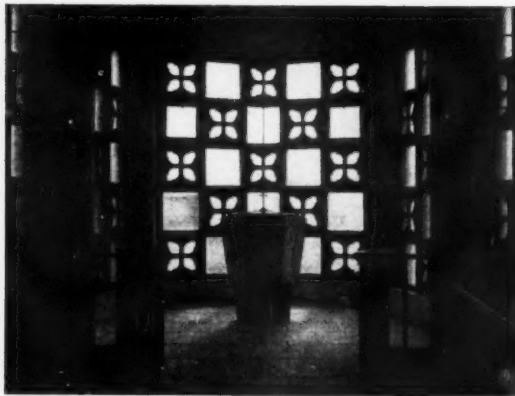
Exterior from the south-west (liturgically the north-east).



Sketch section showing erection of precast r.c. frame

graph, and readers will have to take my word for it (or go to Basildon and see for themselves) that the interior is as successful as I say.

The only criticism I have of it concerns the added colour. The architects obviously felt that the white and grey of the walls and columns and the brown of the woodwork lacked warmth and richness, so they have painted the ceiling panels and the recessed portion of the east end (behind the altar) with flat emulsion paint: the former in a bluish green; the latter in a purplish red. Both are rather arty colours, and are somewhat unsubtle compared with the colour relationship established elsewhere; but it is not so much the choice of colours I find unhappy as their use in the form of an applied grid pattern (the east wall is merely subdivided by strips of wood painted white, and the spaces between the concrete roof ribs



Above: interior of baptistery beneath the tower.



Above: the west end and tower. Below: detail of tower and its junction with the western gable-end.



are similarly subdivided) which destroys the structural purity of the interior. This may sound merely an intellectual argument, but these painted areas do, to my eye, have the effect of somewhat cheapening the otherwise calmly dignified interior (richness is better achieved by variety of texture than by contrast of colour). My use of the word cheapening reminds me, however, that the need to save money has dominated the design at all stages, and some of the defects I find in it may be due solely to this. The white strips of wood in the ceiling have been inserted, I understand, to counteract the directional effect of the long narrow panels between the beams, and the coffered effect of the sanctuary ceiling has been contrived by similar means because a change of pattern was thought desirable here. I would be interested to know whether the architects now think this argument justifies the somewhat restless effect and the confusion of the structural clarity of the interior that has resulted. Incidentally, some more softly textured surfaces would have helped the acoustics as well, which are not, I understand, as good as they might be, though I haven't attended a service in the church so cannot judge for myself. Once again, this is partly a matter of cost. The architects are aware of the need and intend to instal some absorbent wall surfaces when money is available.

Turning to the outside of the church I find much more to criticize, though the bones of an admirable building are there. One trouble, I think, is that the parts are not well articulated. This is most noticeable in the case of the nave and tower, but it also applies to the east end, where the crispness derived from the building's structural logic has been altogether lost. If, in the north-east view on the preceding page, both the tower and the east gable wall are covered up, the basic virtues of the building become apparent: it has vigour, good proportions, a clear articulation of structure and even a certain grace. The falling away at the east end is only partly due to the ordinariness of the low brick sacristy that obscures the building's main lines. Is there not also something wrong about the gable wall itself, which seems to belong to a differently constructed building? There can be no objection to a blank east wall built of brick, but the heaviness of treatment in this case breaks the rhythm of the rest, and it is significant perhaps that the east end is the least satisfactory part of the interior, having again too little relation to the wall treatment elsewhere. It is rather illogical that the recess in the east wall is expressed externally in plan but not in section. The roof line runs through. Can the architects justify this?

As to the tower, here the brick panels project from the face of the concrete columns instead of spanning between them: I would be interested to know the reason, for this may be partly responsible for the tower's lack of structural vigour. It is important that the line of the corner columns should run straight into the ground, and the interruption by the roof-slab of the baptistery is unfortunate, the effect being aggravated by the hard black horizontal line of a rather thickly laid flashing. There is no reason why the base of such a tower should not be opened up to

light a baptistery, but in this case the light comes through a concrete grille that is very coarsely executed, and do not the architects agree that the scale is wrong? I include a view from within, which shows the grille more clearly.

The panels either side of the west door, of somewhat similar character to those in the base of the tower, are more successful. The background to the cross-shaped openings is random flintwork, which gives an invaluable depth of surface. The treatment of the soffit of the eaves, incidentally, does not seem to belong to this style of building.

There is one last detail I must criticize: the external treatment of the panels beneath the windows of the Lady Chapel and on the north side of the tower, where the brickwork has been rendered with a roughish surface, pale blue in colour. Apart from the lasting quality of the surface I would query whether

large blank areas here do not disturb the rhythm and scale of the exterior. I am not criticizing the decoration over the north door, because I believe it is only temporary.

I fear this article is becoming a mere catalogue of defects, which is unfair to the building because defects are easy to pick out whereas the virtues of a building like this are difficult to describe and almost impossible to illustrate photographically. I began by referring to the essential difficulty of designing a modern church and should say that, internally at least, this one has overcome that difficulty more successfully than most I have seen in this country. I only hope it won't be marred later on by those tasteless enrichments to which Roman Catholic churches in particular seem to be prone. The plain glass of the windows is especially important to the present purity of effect.



RIBA

Conference on "Space About Buildings"

The RIBA is to hold a one-day conference on "Family Life in High Density Housing," with particular reference to "The Design of Space About Buildings." Professor Sir William Holford will preside at the morning session (on May 24) and will speak on the subject from the town planner's point of view. Other speakers at the morning session will be a sociologist, a director of housing and a representative of the welfare and social services. At the afternoon session, which will be chaired by G. A. Jellicoe, the speakers will include H. Blom, chief of the Parks Department in Stockholm, and Peter Shephard. A small exhibition will illustrate the conference theme.

Architects as Factory Designers

The RIBA is to have a stand, designed by Kenneth Bayes, at the Fifth Factory Equipment Exhibition, Earls Court, which will be held from April 29 until May 4. The

Exhibition will be open from 10 a.m. to 7 p.m. on Mondays, and 10 a.m. to 5 p.m. on Saturdays.

LIGHTING Industrial Buildings

The final session, on March 21, of the current series of meetings for architects at the Lighting Service Bureau, turned out to be the best of the three. In spite of one or two irrelevant parlour-trick demonstrations, everyone was able to get down to the basic realities of the subject—"Industrial Lighting." The main speaker T. S. Jones, showed how the different types of work to be found in factories could best be lit. It was necessary, he said, not only to light an interior well, but to achieve the appearance of a well-lit interior with a combination of lighting and colour.

Mr. Jones surveyed the choice of fittings, more particularly those for special uses, such as the flame and vapour-proof type, and asked that the architect designing a factory, should, in his own interests, call in the lighting engineer at the first suitable moment. The mounting position of fittings depended on the design and detailing of the buildings, and if these took no account of the artificial lighting, the cost of the installation might be considerably increased, perhaps by as much as 20-25 per cent. The cost of re-lamping in factories could vary from 5s. to 25s. per lamp, according to the ease of access. Large sums would be a wasteful and unnecessary burden on the management.

E. D. Jefferiss Mathews opened the discussion by getting right down to the basis of all industrial lighting. The architect designing a factory, he said, had to make a choice at a very early stage in design, between a primarily naturally-lit structure and one which had exclusively-artificial lighting. Naturally lighting would, of course, impose more restriction on the form of the building. The artificially-lit factory, on the other hand, could be a simpler structure, and good and constant lighting could be provided for the work. There were now many "windowless" factories in the U.S., some of which had been successful, others apparently comparative failures. Nevertheless, the idea was a technically possible one.

Architects, he said, would have their own views about the "windowless" factory. They would consider it either as the ultimate and logical end-product or as a dreadful nightmare. There was lack of reliable evidence on the economics of such factories and their effect upon employees.

WALLBOARD

"Hysteria" Closes Association

The Wallboard Importers', Distributors' and Merchants' Association of the United Kingdom held their last annual dinner at Grosvenor House, Park Lane, on March 19. The guest of honour was the Finnish Ambassador. Proposing the toast of the Guests, the President of WIDMA, Alexander Gourvitch, said that he preferred to describe the occasion as "The Annual Dinner of the Wallboard Trade," in order to emphasize the fact that the coming dissolution of WIDMA did not mean the dissolution of the good will between importers, distributors and merchants which WIDMA had built up. He expressed his confidence that the different sections of the trade would continue to meet at similar functions in the future, though under different auspices. Referring to the decision to dissolve WIDMA, he said that this had been made because of changes which had taken place in trading conditions since WIDMA was first founded after the war, but also because of the "hysteria" created by the Monopolies Commission. Later he referred to the blow which had been dealt to the wallboard industry by public reaction to the Jaguar fire, but also pointed out that the turnover of the industry in this country had been doubled since 1952.

DIARY

Housing in the Middle East. Talk by Max Lock. At the HC, 13, Suffolk Street, S.W.1. 6 p.m. APRIL 2

Office Blocks and the Multivalence of Architecture. Talk by Erno Goldfinger. Chairman: Howard Samuel. At the ICA, 17, Dover Street, W.1. 8.15 p.m. Members 1s. 6d. Guests 3s. APRIL 2

RIBA Annual Discourse. Talk by Alvar Aalto. At the RIBA, 66, Portland Place, W.1. 6 p.m. APRIL 10

Exhibition of Finnish Architecture. At the RIBA, 66, Portland Place, W.1. Monday to Friday 10 a.m.-7 p.m. Saturday 10 a.m.-5 p.m. (Closed from 12.30 p.m., April 18, to 10 a.m., April 24.) APRIL 11 TO MAY 2

JanuaryFebruaryMarchApril

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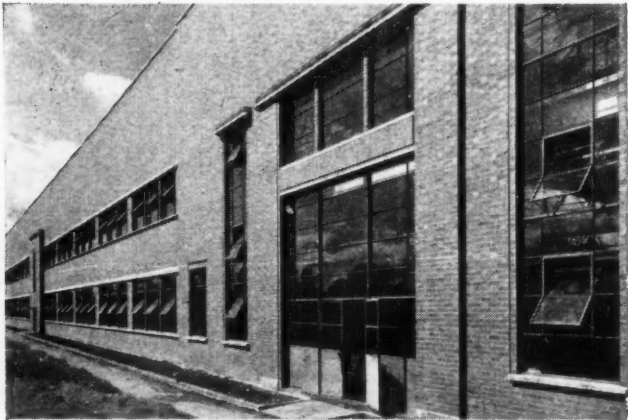
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technical section

8 ESTIMATING

current wage rates, market prices and measured rates

Prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors. Market prices and measured rates last appeared in the JOURNAL for December 27, 1956

Wage rates

Rates of wages rose on February 4, 1957, and are now as follows:

	Craftsmen	Labourers
	s d	s d
London District		
Within 12 miles radius	4 6	3 11½
From 12 to 15 miles radius	4 5½	3 11
Liverpool and District	4 6	3 11½
Grade classifications		
A	4 4½	3 10
Al	4 4	3 9½

Market prices

Prices are given for the major items in each trade, they are intended as average prices and include delivery in the outer London area. They do not include overhead charges and profit.

Measured rates

Prices are for work carried out in the Outer London area and include 10% to cover overhead charges and profit except in the case of work which would be carried out by specialists when 5% has been allowed. The prices given in italic represent the total value of the materials included in the measured rates, including an allowance for waste and 10% for overhead charges and profit. The cost of labour included in the measured rates (including its proportion of overhead charges and profit) can be ascertained by subtracting the prices in italics from the prices in heavier type.

Abbreviations

Inches: in. Feet: ft. Yards: Y. Yards cube: YC. Yards super: YS. Feet cube: FC. Feet super: FS. Ton: T. Feet run: FR. Thousand: M. Square: Sq. Number: No. Hundredweight: C. Pound: lb. Gallon: Gal.

Preliminaries

To all estimates based on prices for measured rates add for Preliminaries, water, insurances, etc., depending on the nature of the job, say 10%

Price changes

* Shows changes in market prices and measured rates since the last issue (December 27, 1956).

EXCAVATOR s d

Market prices

Carting away, up to 8 miles	YC	
Hand loaded	*8	0
Machine loaded	*7	0
Hardcore	YC	*10 6
Ashes	YC	*11 0

Measured rates

Hand excavation and disposal

NB: the following are applicable to excavation in heavy soil.

Excavating over site to remove top soil and vegetable matter, 6 in. deep	YS	*1 2½
As above, 12 in. deep	YS	*2 4½

Excavating over site to reduce levels and getting out YC *9 6

Excavating for basement and getting out YC

Depth up to 5 ft.	*10 8
Depth between 5 & 10 ft.	*15 5
Depth between 10 & 15 ft.	*20 2

Excavating surface trenches and ditto YC

Depth up to 5 ft.	*13 1
Depth between 5 & 10 ft.	*17 9
Depth between 10 & 15 ft.	*22 6

Excavating basement trenches and ditto YC

Commencing 5 ft. below existing ground level	*17 9
Commencing 10 ft. below existing ground level	*22 6
Commencing 15 ft. below existing ground level	*27 3

Wheeling surplus excavated material not exceeding 100 yards and depositing YC *4 9

Add to last for:
Roughly spreading and levelling YC 1 5
Spreading, levelling and consolidating to make up levels YC *3 1

Returning, filling-in and well ramming excavated material around foundations YC *4 2

Loading surplus material into lorries and carting to tip, not exceeding 8 miles YC *15 9

Excavating from spoil heaps selected top soil, wheeling not exceeding 100 yards, and spreading, levelling and consolidating, not exceeding 6 in. to receive turf YS 2 1

Mechanical excavation and disposal

Excavating for shallow surface excavation and loading into lorries or dumpers (using ¾ yd. cube excavator) YC 3 0

Excavating for surface excavation and removing, spreading and levelling not exceeding 200 yds. (using 6 yd. cube scraper) YC 2 6½

Removing excavated material and depositing, not exceeding 200 yds. (using 3 yd. cube dumper) YC 1 11½

Planking and strutting

Planking and strutting to sides of surface or basement excavation FS

Depth up to 5 ft.	8
Depth up to 10 ft.	9½
Depth up to 15 ft.	11½

Planking and strutting to sides of surface and basement trenches FS

Depth up to 5 ft.	2
Depth up to 10 ft.	3½
Depth up to 15 ft.	4

Hardcore, etc.

Hardcore filled-in in layers, each layer well rammed YC *21 0
14 5

Bed of ditto, 4-in. thick YS *3 5
1 7

Ash filled-in in layers, each layer well rammed YC *20 6
15 2

CONCRETOR

Market prices

Portland cement, 6 tons and over T 106 0

Rapid hardening, 6 tons and over T 116 6

¾-in. down, washed, crushed and graded shingle YC *18 1

1½-in. ditto YC *17 2

Sharp sand YC *22 1

¾-in. diam. mild steel rods to BS 785 delivered station T*764 0

¾-in. ditto T*856 0

Measured rates

Portland cement mass concrete in foundations etc. YC

1 : 12, 1½-in. "all-in" aggregate *58 11
39 5

1 : 3 : 6, 1½-in. aggregate *66 10
47 4

1 : 2 : 4, ¾-in. aggregate *73 8
54 3

1 : 1½ : 3, ½-in. aggregate *75 1
55 7

Add for:

Working around rod or mesh reinforcement YC *4 9

Walls not over 6-in. thick YC *23 9

Walls 6-in. to 12-in. thick YC *16 7

Walls over 12-in. thick YC *11 10

Columns not over 72 sq. inches YC *45 1

Columns 72 to 144 sq. inches YC *35 7

Columns over 144 sq. inches YC *28 5

Suspended floors and roofs not over 4½-in. thick YC *19 0

Suspended floors over 4½-in. to 6-in. thick YC *16 7

Suspended floors over 6-in. to 12-in. thick YC *14 3

Beds not over 4½-in. thick YC *9 6

Beds 4½-in. to 6-in. thick YC *7 2

Beds 6-in. to 12-in. thick YC *2 5

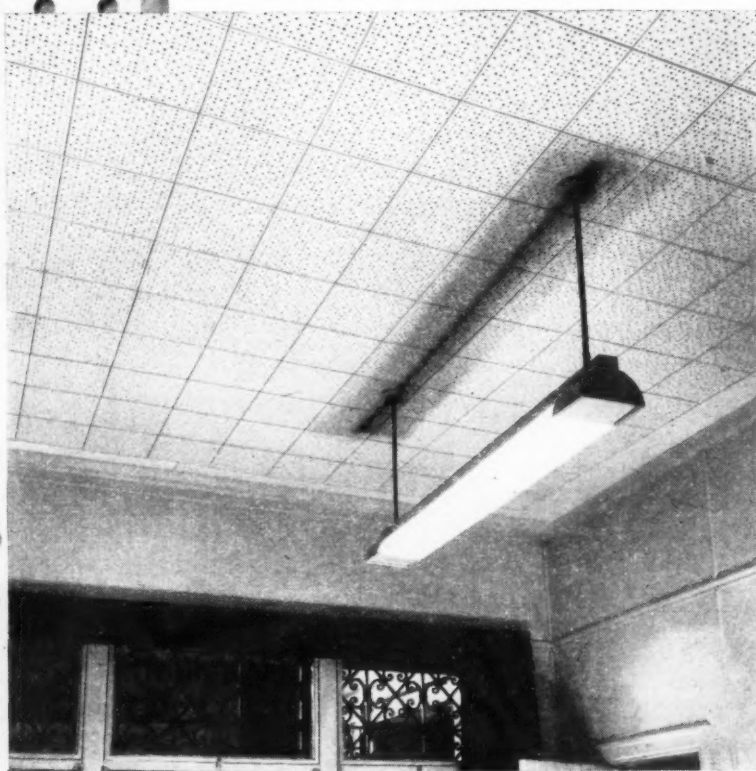
Hollow tile floor of clay tiles 4-in. thick at 15-in. centres laid on formwork (measured separately), nibs filled in with concrete (1 : 2 : 4) and finishing top of tiles with bed of concrete 1½-in. thick including tamping



Noise reduction

—a modern problem solved the modern way, with easily fixed decorative-surface sound absorbing Armstrong Acoustic Tile on ceiling or wall. Direct fixing or suspended, according to requirements.

Illustrations show Standard and Random patterns and a view of an office ceiling which demonstrates the decorative effect of Armstrong Acoustic Tile.



Available in two patterns and two thicknesses, $\frac{1}{2}$ " and $\frac{3}{4}$ ", in 12" x 12", 12" x 24" or 24" x 24" tiles. Installations can be undertaken on new or existing buildings by the Armstrong Acoustic Dept. Write for information folder Pub. No. 350.

Armstrong
ACOUSTIC TILE

ARMSTRONG CORK COMPANY LTD., Acoustic
Dept., Bush House, Aldwych, London, W.C.2.

technical section

Concretor continued s d
around reinforcement (measured separately) YS *17 1
10 3

Ditto, but tiles 8-in. thick YS *26 5
17 10

Sundries

Finishing concrete with trowelled face to receive linoleum YS *1 2½

Applying horizontal damp-proof membrane of Synthaprupe in three coats to surface of concrete and blinding with sand to form key YS 5 8
4 1

Supplying floor clips (p.c. 6d. each) and fixing No. *1 1½

Formwork

Formwork including strutting easing and striking:

Vertical faces of foundation YS *17 11
9 6

Vertical faces of wall YS *18 3
6 11

Soffite of floors not over 12-ft. high YS *18 3
8 6

Sloping soffit of stairs YS *22 0
9 3

Sides of columns FS *2 4
10½

Sides and soffites of lintols and beams FS 2 6
1 0

Add to the above for wrot formwork including rubbing down concrete YS *2 4½

Reinforcement:

¾-in. diameter mild steel rods, hooked, bent and tied and fixing C *61 10
46 5

½-in. C *68 9
50 2

¾-in. C *75 1
52 0

¾-in. C *88 3
56 8

Steel wire mesh fabric weighing 4.32 lb. per yd. super and laying in concrete YS *3 9
3 2

Ditto weighing 6.57 lb. per yd. super YS *5 7
4 10

Ditto weighing 9.32 lb. per yd. super YS *7 11
6 10

Precast concrete

Precast concrete (1 : 2 : 4) finished fair on exposed faces and hoisting setting and jointing:

4½-in. × 6-in. lintols reinforced with one ½-in. rod FR 2 7
2 1½

4½-in. × 9-in. ditto with two ½-in. rods FR 3 10
3 1½

Piling

Reinforced pre-cast concrete piles, approximate prices for supplying, unloading, pitching and driving
12-in. × 12-in. up to 30 ft. long FR 33 6
14-in. × 14-in. up to 50 ft. long FR 39 0
Sheet steel piling, ditto FS 10 6
to 20 6

BRICKLAYER**Market prices**

Soft sand YC *18 0

Hydrated lime T 117 6

Plain Flettons M 115 0

Second hard stocks M 279 3

Lingfield Engineering wire cuts Grade B M*250 0

Partitions

Clinker concrete, solid YS
2-in. *3 11
2½-in. *4 6
3-in. *5 6
4-in. *6 8

Thermalite-Ytong YS
2½-in. *7 1
3-in. *8 6
4-in. *11 1

Hollow clay YS
2-in. 4 5
2½-in. 4 8
3-in. 5 5

Normal quality wood wool slabs YS
2-in. 8 0
2½-in. 9 2
3-in. 10 3

Measured rates

Reduced brickwork in cement lime mortar.
Lingfields in cement mortar

YS
Flettons *32 2
17 2
Second stocks *49 10
34 10
Lingfield Grade B *49 2
31 10

Half brick wall ditto YS
Flettons *17 8
8 1
Second stocks *26 6
16 11
*Lingfield Grade B *26 8
15 5

11-in. hollow wall with 2-in. cavity and wall ties YS
Flettons *38 4
16 8

s d
Second stocks *56 1
34 4

One brick wall built fair and pointed both sides YS
Flettons *38 4
17 2

Second stocks *56 1
34 10
Lingfield Grade B *54 4
31 10

Sundries

Extra over common brickwork for internal fair face and flush pointing YS 1 4

Horizontal damp proof course of two courses of slates and bedding and pointing FS 4 3½
2 7½

Horizontal damp proof course of hessian base bitumen FS *11 9

Facings

Extra over ordinary brickwork with bricks P.C. 115s. per 1,000 for facings as described

To solid wall in Flemish bond YS
Facings P.C. 250s per M *15 8
9 10
Facings P.C. 350s per M *22 11
17 1
Facings P.C. 450s per M *30 3
24 5

To cavity wall in stretcher bond YS
Facings P.C. 250s per M *12 10
7 6
Facings P.C. 350s per M *18 5
13 0
Facings P.C. 450s per M *23 11
18 7

Half brick wall in facings built fair and pointed on one side YS
Facings P.C. 250s per M *29 3
15 11
Facings P.C. 350s per M *34 10
21 5
Facings P.C. 450s per M *40 4
27 0

Partitions

Clinker concrete solid partition blocks and setting in cement lime mortar YS
2-in. *9 1
4 10
2½-in. *10 5
5 8
3-in. *12 6
6 11
4-in. *15 1
8 4

Thermalite-Ytong ditto YS
2½-in. *12 6
8 7
3-in. *14 10
10 4
4-in. *18 11
13 5

Hollow clay ditto YS
2-in. *9 8
5 5
2½-in. *10 8
5 10
3-in. *12 5
6 10



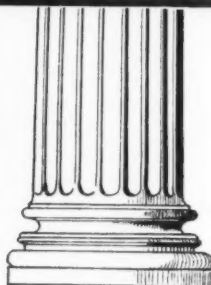
At the end of the last century, Luxfer specialised in the manufacture of all constructions through which daylight is admitted into a building, and in the middle of this century Luxfer still do.

from Corinthian to...

contemporary

LUXFER manufacture windows in Steel - Bronze - Light Alloy for every form of architecture.

*Illustrations :
Hunstanton Secondary Modern School.
Architects :
Peter & Alison Smithson, A.A.R.I.B.A
Metal Windows and Doors by Luxfer.*



LUXFER  **LIMITED**

WAXLOW ROAD, HARLES DEN, LONDON, N.W.10
Telephone : ELGAR 7292

Telegrams : LUXFER, HARLES, LONDON

technical section

Bricklayer continued

	s	d
Wood wool slabs ditto YS		
2-in. *12	11	
	9	7
2½-in. *14	11	
	11	0
3-in. *16	10	
	12	4

DRAINLAYER

Market prices

Salt glazed stoneware pipes and fittings, "Best" quality: Standard list less 7½%

As above "Seconds" quality: Standard list less 7½%

Pitch fibre pipe	FR	
3-in.	1	9
4-in.	2	3½
6-in.	4	8

Cast iron s. and s. pipe to BS 437

YR	
4-in. *26	6
6-in. *38	11
9-in. *72	8

Spun iron s. and s. pipe to BS 1211, Class B

YR	
4-in. *12	8
6-in. *20	4
9-in. *34	1

Measured rates

Trenches and beds

Excavate trenches by hand in heavy soil, including planking and strutting, part returning, filling and ramming and wheeling and spreading surplus, for pipes 4-in., 6-in. and 9 in. dia.

Average depth of trench	YR	
3-ft.	*16	1
4-ft.	*21	5
6-ft.	*37	4
9-ft.	*68	7

Excavate trench as fast but by mechanical trencher

Average depth of trench	YR	
3-ft.	*12	3
4-ft.	*16	9
6-ft.	*30	8
9-ft.	*50	7

6-in. concrete bed and benching for 4-in. pipes

YR	
*9	2
	5
	8

As above, for 6-in. pipes

YR	
*10	8
	6
	7

6-in. concrete bed and surround for 4-in. pipes

YR	
*14	11
	9
	3

As above, for 6-in. pipes

YR	
*17	11
	11
	1

Stoneware drains

"Seconds" quality salt glazed stoneware drain pipes and laying and jointing in trench

FR	
4-in.	2 3½
	1 7
6-in.	3 3½
	2 4½
9-in.	5 4½
	4 4

"Best" quality salt glazed stoneware drain pipes and laying and jointing in trench

FR	
4-in.	2 6½
	1 10
6-in.	3 8
	2 9
9-in.	6 1½
	5 0½

Extra over "Seconds" quality pipes for:

Bend	No.	
4-in.	3	7
	3	1½
6-in.	5	2½
	4	8
9-in.	15	2
	14	6

Single junction

No.	
4-in.	6 1½
	4 9
6-in.	8 10
	7 1½
9-in.	19 0
	17 0

Double junction

No.	
4-in.	10 3
	7 10
6-in.	14 9
	11 11
9-in.	29 0
	25 8

Stoneware gullies

Salt glazed trapped gully with galvanized grating including setting gully on and surrounding with concrete and jointing to drain

No.	
6 in. × 6 in. grating 4 in. outlet	*25 2
	21 2
9 in. × 9 in. grating 6 in. outlet	*41 5
	36 4

Grease and mud gully 9-in. diameter with 4-in. outlet galvanized bucket and grating and setting gully on and surrounding with concrete and jointing to drain

No.	
*87	5
	77
	2

Road gully with 6-in. outlet including setting on and surrounding with concrete and jointing to drain

No.	
15-in. dia. 30-in. deep	*103 4
	82 4
18-in. dia. 48-in. deep	*205 11
	171 2

Pitch fibre drains

Pitch fibre drain pipes and laying and jointing in trench

FR	
3-in.	2 0½
	1 11½
4-in.	2 9
	2 7
6-in.	5 4½
	5 2½

Extra over pitch fibre pipe for bend

No.	
3-in.	*11 2
	10 4
4-in.	*15 10
	15 0
6-in.	*30 8
	29 9

Cast iron drains

Cast iron spigot and socket drain pipes and laying and jointing in trench

FR	
4-in. *12	5
	10 5
6-in. *18	1
	15 6
9-in. *34	4
	28 10

Extra over cast iron pipes for bend

No.	
4-in. *30	2
	24 4
6-in. *70	6
	61 10
9-in. *179	4
	164 5

Spun cast iron spigot and socket drain pipes and laying and jointing in trench

FR	
4-in. *7	2
	5 2
6-in. *11	2
	8 7
9-in. *19	11
	14 5

Cast iron gullies

Cast iron gully trap with high invert and setting on and surrounding with concrete and jointing to drain

No.	
4 in. *42	6
	35 11
6 in. *104	10
	95 5
9 in. *235	2
	222 0

ASPHALTER

Measured rates

Damp proof course and tanking

½-in. vertical damp proof course in two thicknesses on brick or concrete

YS	
BS1097	16 3
BS1418	24 8

½-in. horizontal damp proof course in one thickness on brick or concrete

YS	
BS1097	11 0
BS1418	17 4

Vertical tanking in three thicknesses

YS	
BS1097	23 8
BS1418	33 7

Horizontal tanking in three thicknesses

YS	
BS1097	18 5
BS1418	29 5

Roofing

¾-in. flat laid to falls in two thicknesses on and including felt underlay

YS	
BS988	13 2
BS1162	22 0

6-in. skirting with angle fillet at bottom and rounded edge at top turned into groove

FR	
BS988	2 4
BS1162	2 8

**I knew it
when it
was a tree...**

Are you calling my council dead wood?

No, your Worship! I'm talking about that partition there. That was once a tree in the forest. Then the Bowater men chopped it down...

What came next on the agenda?

It went through the Bowater Mill—had all the knots and nonsense taken out of it. You can see the results all over the town—that partition, council flat doors, library counters, cubicles at the public baths—why, your Borough's just brimful of Bowater Board!



Bowater Board

Building Boards Division, Bowaters Sales Company Limited, Bowater House, Stratton Street, London, W.1. MAYfair 8080

CRC 29B

technical section

Asphalter continued

6-in. fascia with solid water
check roll at top and under-
cut drip at bottom FR

BS988 4 6
BS1162 5 3

PAVING

Market prices

Granite chippings, $\frac{1}{4}$ -in. to
dust T *50 2
Buff quarry tiles, 6 in. \times
6 in. \times $\frac{3}{4}$ in. YS 21 9
2-in. Noelite paving YS 13 11

Measured rates

Cement and sand floated
screed to receive pavings YS
 $\frac{3}{4}$ -in. 3 11
2 3
1-in. *4 9
2 11
 $1\frac{1}{4}$ -in. *5 4
3 5

Cement and sand paving
trowelled hard and smooth

YS
 $\frac{3}{4}$ -in. *4 5
2 3
1-in. *5 3
2 11
 $1\frac{1}{4}$ -in. *5 10
3 5

Granolithic paving laid on
concrete

YS
1-in. *7 1
5 2
 $1\frac{1}{2}$ -in. *9 1
6 9

$\frac{1}{2}$ -in. red composition paving
laid on prepared screed YS 16 6

$\frac{3}{8}$ -in. terrazzo paving laid on
prepared screed YS 38 4

$\frac{1}{2}$ -in. rubber flooring and
laying in rolls YS 55 2

$\frac{1}{2}$ -in. rubber flooring and
laying in rolls YS 73 6

$\frac{1}{8}$ -in. cork tile flooring,
12 in. \times 12 in. and fixing
with mastic and including
polishing YS 45 11

$\frac{1}{2}$ -in. thermoplastic tile
flooring and laying-on screed
YS 14 6
to
25 0

$\frac{1}{2}$ -in. coloured linoleum and
fixing with mastic to cement
screed or boards YS 28 7

$\frac{1}{2}$ -in. coloured linoleum and
fixing with mastic to cement
screed or boards YS 22 10

$\frac{3}{4}$ -in. buff quarry tiles laid on
prepared screed YS *36 3

$\frac{3}{4}$ -in. blue black quarry tiles
laid on prepared screed YS *33 5

2-in. Noelite paving laid on
prepared bed, in random sizes
and mixed colours YS *19 11
16 1

12 in. \times 12 in. anchor steel
plates laid complete YS *54 5

MASON

Market prices

Stone in blocks in truckloads
at stations in the London area:

Beer FC 8 5

Portland FC 8 5

Woodkirk Blue building
quality FC 17 2

Broughton Moor slate in
blocks at stations in the
London area FC 65 0

Marble in blocks at works:
Dove FC 70 0

Roman stone FC 70 0

Measured rates

Stone and all labours in
pilasters and quoins FC
Portland *54 1
Beer *50 5

Jambs FC
Portland *54 1
Beer *50 5

Lintols FC
Portland *55 2
Beer *51 5

Arches FC
Portland *63 0
Beer *58 3

Ashlar average 7-in. on bed
with plain dressed face FS
Portland *30 9
Beer *29 3

Extra for each additional 1-in.
thickness FS
Portland *3 6
Beer *3 3

$4\frac{1}{2}$ in. \times 4 in. sill sunk,
weathered, throated and
grooved for water bar, set and
jointed in cement mortar FR
Portland *11 2
Beer *10 6
Artificial 4 7

4 in. \times 12 in. coping,
weathered and twice throated
FR
Portland *21 10
Beer *20 9
Artificial 11 0

Marble and slate

$\frac{1}{2}$ -in. Dove marble lining and
fixing on brick backings FS 36 9

$\frac{1}{2}$ -in. Roman stone lining FS 36 9

$\frac{1}{2}$ -in. Broughton Moor slate
lining FS 39 11

SLATER TILER AND
ROOFER

Market prices

Welsh slates, best quality M
16-in. \times 10-in. *1026 4
20-in. \times 10-in. *1896 10

Best hand made sand faced
plain tiles, $10\frac{1}{2}$ -in. \times $6\frac{1}{2}$ in. M*311 0

Grey corrugated asbestos
cement sheets YS *6 6 $\frac{1}{2}$

Measured rates

16-in. \times 10-in. best Welsh
slates laid 3-in. lap Sq.*287 0

20-in. \times 10-in. best Welsh
slates 3-in. lap Sq.*375 0

Westmorland green slates in
random sizes laid 3-in. lap Sq.*620 0

Best hand made sand faced
plain tiles, $10\frac{1}{2}$ -in. \times $6\frac{1}{2}$ -in. laid
to a 4-in. gauge Sq.*204 0

Best hand made sand faced
plain tiles, $10\frac{1}{2}$ -in. \times $6\frac{1}{2}$ -in.
hung vertically to $4\frac{1}{2}$ -inch
gauge Sq.*220 0

Berkshire hand made sand
faced red pantiles, $14\frac{1}{2}$ -in. \times
10-in. laid $2\frac{1}{2}$ -in. head and
 $1\frac{1}{2}$ -in. side lap Sq. 195 0

Grey corrugated asbestos
cement sheets fixed to wood
roofs Sq.*114 0

Grey corrugated asbestos
cement sheets fixed vertically
Sq.*124 0

Cedarwood shingles laid 5-in.
gauge Sq. 240 0

Metal roof decking and fixing
with hook bolts, finished
with $\frac{1}{2}$ -in. insulation board
and three layers self finish
felt roofing YS
18 gauge for
spans up to 10 ft. 57 6
20 gauge for
spans up to 8 ft. 6 in. 51 9

Two layer one ply bitumen
felt and fixing with bitumen
to concrete or boarding YS *10 2

Three layer bitumen felt YS *13 8

Patent ribbed aluminium
roofing and fixing to purlins
Sq. 287 6

CARPENTER

Market prices

Softwood, carcassing quality
Std. 1910 0

Softwood, joinery quality
Std.*2160 0

$\frac{1}{2}$ -in. imported insulation
board Sq. *46 6

$\frac{1}{2}$ -in. imported hardboard Sq. *40 0

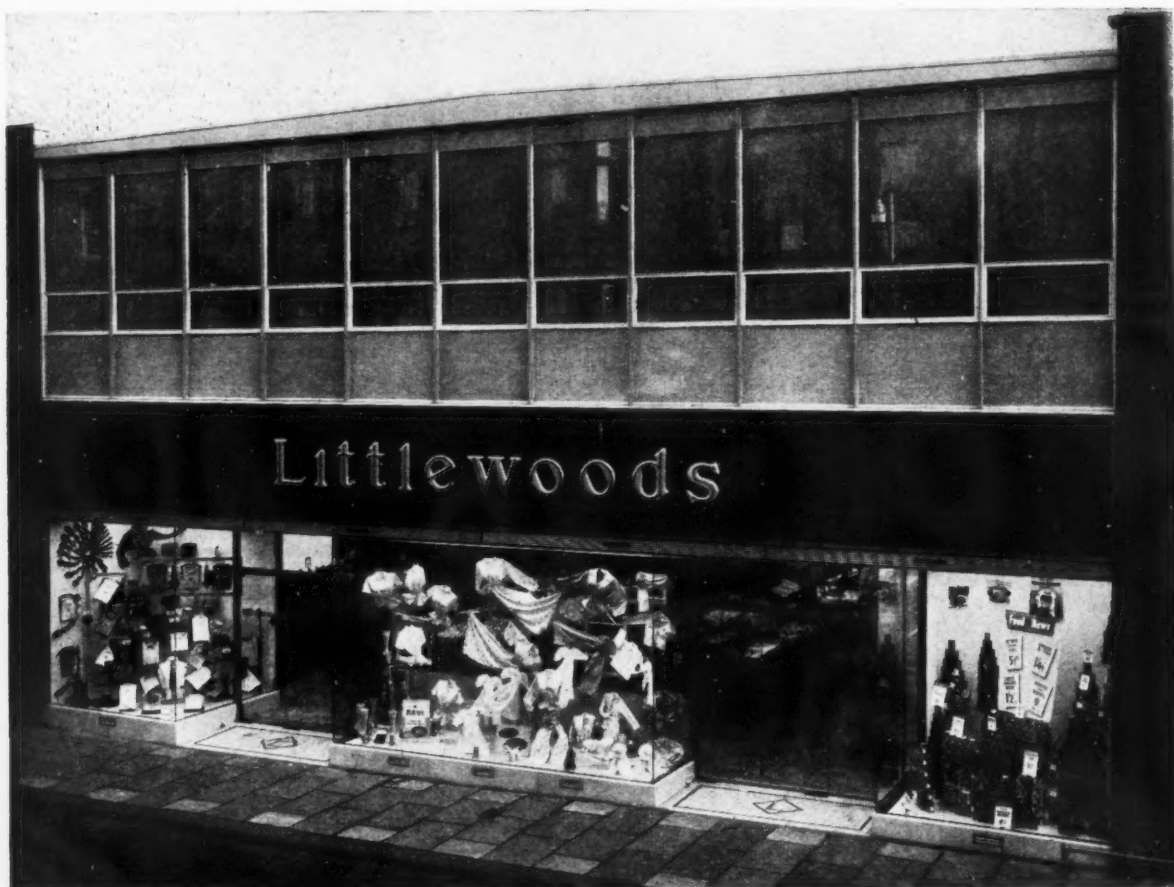
Measured rates

Softwood and fixing in plates,
sleeper joists and lintols FC 15 7
13 10

In floor and ceiling joists FC *17 10
13 10

In stud partitions, purlins
and struts FC *19 10
13 10

In hip and valley rafters FC *22 4
13 10



New Store for Messrs. Littlewoods, Dumbarton

Architects: Littlewoods Construction Department
Consulting Engineers: Bingham & Blades & Partners, Liverpool
Contractors: A. A. Stuart & Sons Limited, Carmyle, Glasgow

Bison work was commenced on the 19th June 1956 and completed on the 11th August 1956, a total of 54 days.

The store was officially opened on the 4th October 1956.



CONSTRUCTION DETAILS

FIRST FLOOR Length of beams—from 49' 7" to 58' 9". Thickness of floor beams—22½". Superimposed Load—80 lbs. per sq. ft. Finishes—30 lbs. per sq. ft. Partitions—15 lbs. per sq. ft. Weight—from 3 Ton 12 Cwts. to 4 Ton 15 Cwts. 2" Concrete

screed trowelled to receive thermal plastic tiles.
ROOF Length—from 51' 1½" to 60' 6". Thickness—11½" at the ends, 17½" at the centre. Superimposed Load—15 lbs. per sq. ft. Finishes—24 lbs. per sq. ft. Weight—from 2 Ton 10 Cwts. to 2 Ton 15 Cwts.

False ceiling suspended on underside of 1st floor on ½" dia. bolts in the joints between beams. Inside the roof left smooth and pointed to receive decoration direct. The finished edge to the roof (as seen in the photograph) was part of the Bison precast work.



CONCRETE LIMITED

BISON floors, beams and precast frame structures

IN PRESTRESSED AND REINFORCED CONCRETE

LONDON: Green Lane, Hounslow, Middlesex. Hounslow 2323

LEEDS: Stourton, Leeds, 10. Leeds 75421

LICHFIELD: Dovehouse Fields, Lichfield, Staffs. Lichfield 3555

FALKIRK: Etna Road, Falkirk. Falkirk 1930

CON82

technical section

Carpenter continued

Battening and boarding

Slate or tile battens 1½ in. × ½-in. and nailing to fixing for Sq.

16-in. × 10-in. slating to 6½-in. gauge 36 0

20-in. × 10-in. slating to 8½-in. gauge 30 0

10½-in. × 6½-in. plain tiling to 4-in. gauge 55 0

14½-in. × 10-in. pantiles to 12-in. gauge 20 0

S.E. boarding in batten widths close jointed and fixing to flat or sloping roofs

Sq.

¾-in. *119 0

87 9

1-in. *146 9

115 6

T. & G. boarding in batten widths close jointed and fixing to flat or sloping roofs

Sq.

¾-in. *137 3

98 0

1-in. *168 3

129 0

¾-in. wrot and cross tongued eaves soffit

FS

*2 2

1 0

¾-in. × 6-in. wrot and grooved eaves fascia p.o.

FS

10 6

Wall and ceiling boards fixed vertically to softwood

YS

½-in. insulation board

*6 7

5 0

⅛-in. hardboard

*5 8

4 4

⅜-in. asbestos cement flat sheeting

*8 2

4 7

¼-in. asbestos cement flat sheeting

*9 8

6 2

2-in. Stramit, showerproof quality fixed to joists with butt joints

*15 5

11 5

JOINER

Floors and skirtings

Tongued and grooved softwood flooring set in mastic and nailing to joists

Sq.

¾-in. *161 0

124 6

1-in. *178 3

141 6

1-in. nominal double grooved t. and g. Swedish softwood block flooring set in mastic and polished

YS

29 5

European beech

YS

*33 7

African Muhuhu

YS

*41 0

Burma teak

YS

*52 6

Moulded skirtings, 3-in. to 6-in. sectional area planted on (per inch in sectional area)

FR

Softwood

3 2½

Oak

8 7½

Extra for grounds plugged to brickwork

FR

Softwood

9 2

Windows

2-in. rebated and moulded sashes divided into squares

FR

Softwood

3 0

Oak

10 9

Extra for side hanging

Each

Softwood

2 8

Oak

*4 0

Doors

2-in. framed, ledged and braced doors, filled in with 1-in. T and G and V jointed boarding and hanging

FS

Softwood

6 1

5 5

Four panelled door square both sides and hanging

FS

Softwood

6 8

6 0

Oak

19 2

18 3

1½-in. Standard flush door, hardboard faced size 2-ft. 6-in. × 6-ft. 6-in. and hanging

No.

*43 8

33 0

Linings and frames

Window and door linings, 6-in. to 12-in. sectional area (per inch sectional area)

FR

Softwood

4 3

Oak

9 8

Frames wrot all round and framed (per inch sectional area)

FR

Softwood

3½ 9

Mullions, transomes and cills (per inch section area)

FR

Softwood

4 10½

Mouldings, architraves, etc. 4-in. to 6-in. sectional area (per inch sectional area)

FR

Softwood

4 3

Oak

10 9

6-in. window boards, 1-in. thick with rounded nosing tongued at back and including bearers

FR

Softwood

*3 0

1 8

Oak

5 4

3 6½

Shelving and fittings

¾-in. shelving of 2-in. slats spaced 1-in. apart on bearers (measured separately)

FS

Softwood

2 5

1 11

¾-in. solid shelving on bearers

FS

Softwood

2 3½

1 11

Oak

4 7

4 1

2-in. shelf bearers plugged to wall

FR

Softwood

7½ 5½

Oak

1 2

11½

Staircases

1-in. treads and ¾-in. risers tongued together on and including framed carriages

FS

Softwood

*4 7

3 6½

Oak

13 4

11 10½

1½-in. × 11-in. wall string plugged to brickwork

FR

Softwood

4 4½

3 5

Oak

11 2½

9 11

1½-in. × 11-in. outer string

FR

Softwood

3 4

2 10

Oak

6 9½

6 0½

Ends of treads and risers housed to strings

No.

Softwood

1 4½

Oak

6 0½

2½-in. × 3-in. moulded handrail

FR

Softwood

3 2

2 7½

Oak

6 3½

5 6

1½-in. × 1½-in. square balusters

FR

Softwood

7 5

Oak

1 4

1 1

Framed ends to balusters

No.

Softwood

6 9

IRONMONGER

Market prices

As prices for ironmongery vary so greatly depending upon the type and quality required no prices are quoted here

Measured rates

The rates which follow are for fixing only and are inclusive of profit

3-in. steel butts

Pr.

to softwood

to hardwood

*4 3

*5 8

Double action floor springs

No.

to softwood

to hardwood

*21 3

*28 4

6-in. barrel bolts

to softwood

to hardwood

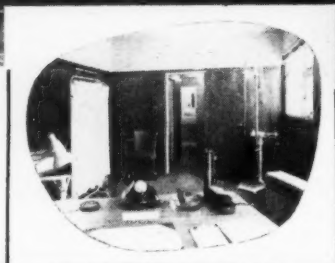
*1 11

*2 7

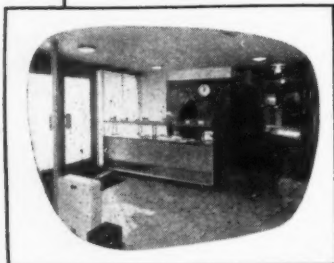
NEW DEVELOPMENTS NEED NEW DEPARTURE BUILDINGS



B.R. Recruitment Centre,
Euston Station.



Medical Officer's Suite.
Sound proofed and
double glazed.



Main foyer and corridor

NEW DEVELOPMENTS in Commerce, Industry and Recreation arise from man's inherent instinct to reach New Horizons—the conquest of higher mountains; the harnessing of unleashed power of water, heat and the atom; and the exploitation of the earth's mineral wealth.

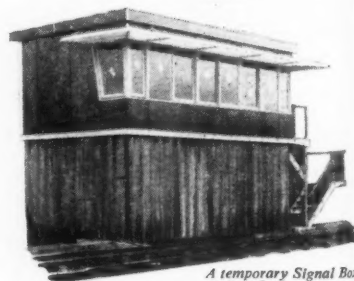
NEW STEPS towards any of these fruits of ambition call for careful planning and organisation. For many such projects Stephenson Developments have been proud to provide the first steps by designing and supplying the building accommodation.

NEW DEPARTURE Stress-bonded Timber Buildings have provided a superior standard of contemporary accommodation for British Railways as well as for electricity undertakings, government agencies, municipalities, educational, commercial, industrial and social organisations both at home and overseas.

NEW HORIZONS for you mean opportunity—and effort. Call in Stephenson Developments at the outset for technical advice and practical assistance with your accommodation standard.



Pent House Office—
Six storeys up at
Paddington Station. For
British Railways, Western
Region.



A temporary Signal Box
at Stratford—
For British Railways,
Eastern Region.



BROUGHTON HOUSE, 6-8 SACKVILLE ST.,
PICCADILLY, LONDON, W.1. Tel. REGent 5860

GROSVENOR WORKS, LINTHWAITE,
HUDDERSFIELD. Tel. SLAITHWAITE 341-2

technical section

Ironmonger continued s d

Cupboard locks		
to softwood	*4	0
to hardwood	*5	4
Cylinder night latch		
to softwood	*6	8
to hardwood	*8	11
Mortice latch		
to softwood	*5	4
to hardwood	*7	1
Mortice lock		
to softwood	*6	8
to hardwood	*8	11
Casement fastener		
to softwood	*1	7
to hardwood	*2	2
Casement stays		
to softwood	*1	7
to hardwood	*2	2

STEEL & IRONWORKER

Market prices

Structural steel joist sections, basis sizes, ex mills	T*767	6
--	-------	---

Extras for other than basis sizes vary between 10s. and 70s. per ton

Measured rates

Rsj in steel framed structures hoisted and fixed complete	T*1523	0
Riveted compound girders including plates and rivets	T*1790	0
Rs stanchions including caps, bases, cleats etc.	T*1765	0
Metal windows including cutting and pinning lugs to brickwork and bedding frames in cement mortar	No.	
Domestic type 4 ft. high to BS 990		
Type ND2F 3 ft. 3 1/4 in. wide	*87	8
	72	7
Type HD2F 3 ft. 3 1/4 in. wide	*94	8
	79	7
Type ND11F 6 ft. 6 1/2 in. wide	*150	3
	123	7
"Z" range, 4 ft. high		
Type ZND1 2 ft. 0 3/4 in. wide	*59	7
	49	6
Type ZND4F 6 ft. 0 3/4 in. wide	*151	8
	125	0

PLASTERER

Market prices

Plastering sand	YC	*22	1
Plaster to BS 1191 Class B in loads of 4 tons to 5 tons 19 cwt.	T		
Browning*	*156	3	
Fibred browning*	*159	3	
Board finish*	*156	3	
3/8 in. plaster lath, over 600 yds.	YS	2	4
3/8 in. x 6 in. x 6 in. cream glazed wall tiles	YS	26	8

Measured rates

Metal lathing

No. 24 gauge expanded metal lathing and fixing	YS		
To softwood soffits	*6	5	
	4	0	
To metal	*7	2	
	4	0	
Lime plaster			
Render float and set on brick walls and partitions	YS	*6	11
		2	3
R.F. and S. on concrete including hacking	YS	*8	6
		2	3
R.F. and S. on expanded metal lathing	YS	*7	0
		2	4 1/2

Gypsum plaster

Render in cement-lime-sand (1 : 1 : 6) and set in gypsum plaster on brick walls and partitions	YS	*5	8
		1	11
Render in gypsum fibred browning-sand (1 : 1 1/2) and set in gypsum on concrete soffits including bonding coat	YS	*8	8
		3	4 1/2
Render and set on expanded metal lathing including pricking up coat	YS	*8	4
		3	8
Plaster board			
3/8-in. gypsum plaster lath fixed to softwood soffits finished to receive plaster	YS	*4	8
		2	10 1/2
Gypsum board finish setting coat on last	YS	*4	0
		1	0 1/2
3/8-in. gypsum plaster wall board fixed to softwood studding finished to receive decoration	YS	*5	7
		3	3

Plain face

1/2-in. Portland cement and sand (1 : 3) plain face trowelled smooth on brick walls	YS	*6	3
		1	10

Tyrolean rendering

Render in cement, lime sand (1 : 1 : 6) and finishing with three coats patent coloured mix preparations applied with hand operated machine	YS	*9	6
		2	5

Wall tiling

6 in. x 6 in. x 3/8 in. standard quality white glazed wall tiles set and jointed on prepared screed	YS	*48	4
Egg shell matt or glossy glazed enamelled tiles	YS	59	10

EXTERNAL PLUMBER
Market prices

Sheet lead, 3 1/2 lb. and upwards, in quantities of 5 cwt. to 1 ton	C*	152	9
Copper sheeting, 23 gauge, in 1-ton lots	C*	330	0
Zinc sheeting, 14 gauge, in 1-ton lots	C*	132	0
Aluminium sheeting 20 SWG C Super purity*	522	8	
Commercial quality*	336	0	

Cast iron rainwater goods, standard list 3300 AB 1.2.55 plus 17 1/2%

Measured rates

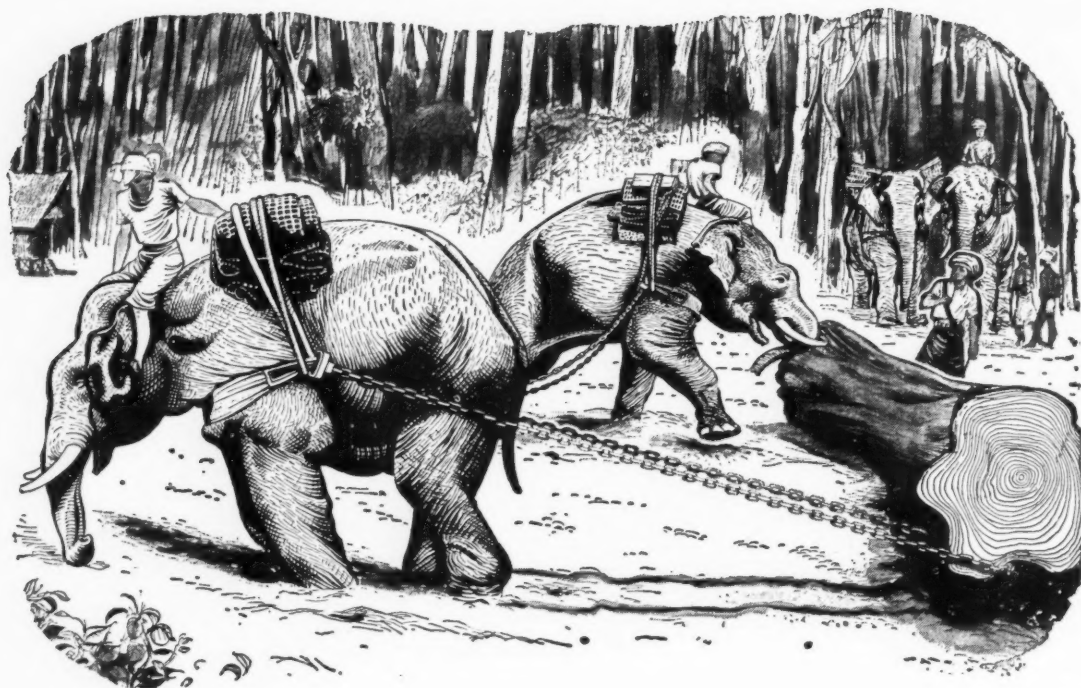
Milled sheet lead	C		
Flat roofs*	235	10	
Gutters and flashings*	235	10	
24 SWG copper sheet	FS		
Flat roofs	*5	7	
Gutters and flashings	*5	7	
23 SWG copper sheet	FS		
Flat roofs	*6	4 1/2	
Gutters and flashings	*6	4 1/2	
14 gauge zinc	FS		
Flat roofs	*3	6	
Gutters and flashings	*3	6	
20 SWG super purity aluminium	FS		
Flat roofs	*5	5	
Gutters and flashings	*5	5	
20 SWG commercial quality aluminium	FS		
Flat roofs	*4	4 1/2	
Gutters and flashings	*4	4 1/2	
Rainwater gutters and pipes			
1/2-in. cast iron half round eaves gutter jointed and fixed to fascia with brackets	FR		
4-in.	*3	4	
	2	2	
6-in.	*4	11	
	3	6	
18 gauge pressed steel half round eaves gutter	FR		
4-in.	3	0	
	1	10	
6-in.	4	0	
	2	7	

Asbestos cement half round eaves gutter

4-in.	*2	9	
	1	7	
6-in.	*4	0	
	2	7	
Aluminium half round eaves gutter	FR		
4-in.	3	10	
	2	8	

Cast iron medium section rain water pipes jointed and fixed to walls with pipe nails

3-in.	*5	8	
	4	3	
4-in.	*7	1	
	5	6	
Pressed steel	FR		
3-in.	4	3	
	2	10 1/2	
4-in.	6	0	
	4	5	



TEAK

We stock Teak in an enormous number of sizes. This means we can offer a *specialised* service which cuts down wastage. The result—economy that directly benefits the buyer.

TEAK SUBSTITUTES

We also hold comprehensive stocks of the two foremost alternatives to Teak—IROKO and AFRORMOSIA. We shall be glad to submit comparative prices in all three timbers to buyer's specification.



RAVENSDALE WHARF • STAMFORD HILL • LONDON • N.16 • Tel.: STAMFORD HILL 6611 (6 LINES)

technical section

External plumber continued s d

Asbestos cement	FR	
	3-in.	*3 7 2 2
	4-in.	*4 7 3 0
Aluminium	FR	
	3-in.	*5 1½ 3 9
	4-in.	*6 11 5 4

Soil and ventilating pipes

Lead soil, waste and ventilating pipes (15 lb. per yd. for 3-in. and 19 lb. per yd. for 4-in. diameter) fixed to walls with lead tacks		
	FR	
3-in.	*13 5 10 7	
4-in.	*18 7 13 1	

Cast iron soil, waste and ventilating pipes with caulked joints fixed to walls with pipe nails		
	FR	
3-in. heavy	*6 10 5 0	
4-in. heavy	*8 5 6 3	

Asbestos cement soil and ventilating pipe fixed to walls with holder bats		
	FR	
3-in.	*3 7 2 2	
4-in.	*4 7 3 0	

INTERNAL PLUMBER

Market prices

Lead pipe in quantities of 5 cwt. to 1 ton		
	C	
	BS 602*	155 0
	BS 1085*	162 0

Polythene tubing, heavy gauge, in quantities of 500 to 999 ft. per 100 ft.		
½-in.	118 0	
¾-in.	160 6	
1-in.	205 0	

Steel tubes to BS 1387, standard list plus		
	Class B galvanised	*14½%
	Class C galvanised	*33%

Galvanised malleable fittings, standard list less 28% less 6½% plus 40%

Copper tube, basic price per lb.	*2 4½
----------------------------------	-------

Measured rates

Lead pipe to BS 602

Main supply and laying in trench (measured separately) at the following sizes and weights in lbs.		
	FR	
½-in. 7	*4 8 3 9	
¾-in. 11	*7 0 5 10	
1-in. 16	*9 11 8 7	
1½-in. 28	16 10 14 10	
1½-in. 35	*21 0 18 6	

Main supply fixed to walls and ceilings

	FR	
½-in. 7	*5 3 3 10	
¾-in. 11	*7 8 5 11	
1-in. 16	10 10 8 8	
1½-in. 28	*17 8 14 11	
1½-in. 35	*22 10 18 6	

Distributing pipes fixed to walls and ceilings

	FR	
½-in. 4	*3 7 2 3	
¾-in. 5	4 4 2 10½	
1-in. 7	5 8 4 0	
1½-in. 9	6 10½ 5 2	
1½-in. 12	8 11 6 9	

Flushing and warning pipes fixed to softwood

	FR	
¾-in. 4	*3 11 2 2	
1-in. 5	*4 11½ 2 8	
1½-in. 6	*6 2 3 3	
1½-in. 7	*6 10½ 3 9	

Waste pipes and fixing to softwood

	FR	
1½-in. 6	*6 3 3 3	
1½-in. 7	*6 10½ 3 9	

Joints to fittings

	No.	
½-in.	*6 2 1 8	
¾-in.	*7 0 2 6	
1-in.	*7 8 3 4	
1½-in.	*8 3 4 2	
1½-in.	*9 3 5 0	

Extra for:

	Bend No.	
1½-in.	*2 6	
1½-in.	*3 7	

Branch joints

	No.	
½-in.	*7 9 1 8	
¾-in.	*8 11 2 6	
1-in.	*9 3 3 4	
1½-in.	*11 2 4 2	
1½-in.	*12 7 5 0	

Steel tubing to BS 1387

Class C with screwed red lead joints as supply pipe laid in trench (measured separately)

	FR	
½-in.	*2 6 8½	
¾-in.	*2 11 10½	
1-in.	*3 0 1 2	
1½-in.	*3 9 1 8	

Class B tubing fixed to walls

	FR	
½-in.	*2 5½ 8½	
¾-in.	*2 9½ 10½	
1-in.	*2 11 1 1	
1½-in.	3 6 1 6	
1½-in.	*4 8 1 11	

Extra for malleable iron:

	Bend No.	
1-in.	*4 9 2 11	
1½-in.	*7 0 4 4½	
1½-in.	*9 0 6 3	

Tee No.

½-in.	*3 0 1 0½	
¾-in.	*3 4 1 5½	
1-in.	*3 11 2 1	
1½-in.	*5 4 2 11	
1½-in.	*6 7 4 2	

Copper tube

Copper tube to BS 1386 as supply pipe laid in trench (measured separately) to the following size and gauges

	FR	
½-in. 18	2 0 1 5	
¾-in. 17	*2 10 2 2½	
1-in. 16	*3 10 3 3	
1½-in. 16	5 2 4 4	
1½-in. 15	*6 6 5 9	

Copper tube to BS 659 as distributing pipe fixed to walls

	FR	
½-in. 19	*2 1 1 4	
¾-in. 19	*2 7 1 10	
1-in. 18	*3 4 2 9	
1½-in. 18	*4 3 3 4	
1½-in. 18	*4 11½ 4 1	

Extra for brass compression fittings joining copper to copper

	No.	
Coupling ½-in.	6 1 3 7	
¾-in.	7 0 4 5	
1-in.	9 10 6 7	
1½-in.	12 7 8 5	
1½-in.	*17 6 12 3	
Bend ½-in.	7 9 5 1	

technical section

Internal plumber continued s d

$\frac{3}{4}$ -in.	9	1
	6	1
1-in.	13	0
	9	4
$1\frac{1}{4}$ -in.	16	6
	11	10
$1\frac{1}{2}$ -in.	27	0
	21	2
Tee $\frac{1}{2}$ -in.	10	0
	6	9
$\frac{3}{4}$ -in.	11	5
	7	10
1-in.	17	4
	12	8
$1\frac{1}{4}$ -in.	24	3
	18	4
$1\frac{1}{2}$ -in.	37	5
	29	7

GLAZIER

Market prices

Sheet glass cut to size	FS	
24 oz.	*	9 $\frac{3}{4}$
32 oz.	*1	3 $\frac{7}{8}$

$\frac{1}{4}$ -in. Polished plate glass,
glazing quality in plates
not exceeding:

	FS	
2 ft. super	3	10
5 ft. super	4	9
45 ft. super	5	7
100 ft. super	6	0

Rolled plate glass	FS	
$\frac{1}{4}$ -in. rolled plate		10 $\frac{7}{8}$
$\frac{1}{4}$ -in. Georgian wired	5	6

Attention is drawn to
reduction in certain glass
prices offered by manufac-
turers for acceptance of
specified minimum quantities
of one size and substance
delivered to one address at
one time

Measured rates

Glazing to wood

Ordinary quality sheet glass
and glazing with putty in
squares

	FS	
24 oz. O.Q.	*1	4 $\frac{1}{2}$
32 oz. O.Q.	*1	11

$\frac{1}{8}$ -in. rolled plate glass	1	6
$\frac{3}{16}$ or $\frac{1}{4}$ -in. rough cast glass	1	9
Prismatic glass	2	7 $\frac{1}{2}$
$\frac{1}{4}$ -in. wired glass	2	0
$\frac{1}{4}$ -in. Georgian wired plate glass	7	8 $\frac{1}{2}$
$\frac{1}{4}$ -in. Polished plate glass (glazing quality) in plates 5 to 45 ft. super	7	9 $\frac{1}{2}$

Glazing to metal

Add to above rates 1d.
per ft. super

Sundries

Hacking out broken sheet glass	FS	1 3
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Black ribbon velvet and bedding to edge of glass	FR	8
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Patent glazing

Patent glazing with rolled steel lead capped bars for 8-ft. spans and glazing with $\frac{1}{4}$ -in. Georgian wired cast	FS	*4 7
--	----	------

Aluminium alloy patent glazing	FS	*5 0
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PAINTER

Market prices

Washable distemper	C.	120 0
Emulsion paint	Gal.	45 0
Hard gloss paint:	Gal.	
Undercoat	*46	0
Finishing	*48	0

Measured rates

On walls and ceilings	YS	
Twice whitened plastered ceilings	1	4 3

Two coats distemper on plastered walls or ceilings	*2	2 1 0 $\frac{1}{2}$
---	----	---------------------

Two coats distemper on fair-faced brick or concrete walls	2	7 1 3
---	---	-------

Two coats emulsion paint on walls or ceilings	2	9 1 8
--	---	-------

Prepare, prime and apply one coat oil colour on plastered walls	3	8 1 9
---	---	-------

Add for each additional coat	*1	8 10
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On metal

Prepare, prime and apply one coat oil colour on general surfaces	YS	
Basis price	*3	5 1 5 $\frac{1}{2}$
Add for each additional coat	*1	7 $\frac{1}{2}$ 10

On metal casements	YS	
Basis price	*5	4 $\frac{1}{2}$ 1 5 $\frac{1}{2}$
Add for each additional coat	*2	4 $\frac{1}{2}$ 10

On bars, angles etc., not exceeding 6-in. girth	YR	
Basis price	11	3 5 2
Add for each additional coat		

On small pipes	YR	
Basis price	11	3 3 2
Add for each additional coat		

On large pipes	YR	
Basis price	*1	10 6

Add for each additional coat	*10	3 $\frac{1}{2}$
------------------------------	-----	-----------------

Prepare, prime and apply one
coat heat-resisting paint on
heating surfaces of radiators

YS		
Basis price	*4	0 1 5
Add for each additional coat	*1	10 8 $\frac{1}{2}$

On wood

Knot, prime, stop and apply
one coat oil colour on
general surfaces

YS		
Basis price	*3	9 $\frac{1}{2}$ 1 7
Add for each additional coat	*1	7 $\frac{1}{2}$ 10

On work not exceeding 3-in.
girth

YR		
Basis price	6	1 $\frac{1}{2}$ 1
Add for each additional coat		

For each additional 3-in.
girth

YR		
Basis price	5 $\frac{1}{2}$	1 $\frac{1}{2}$ 1
Add for each additional coat		

Stain and varnish

Prepare, size, stain and twice
varnish on general surfaces
of woodwork

YS	4	1 1 7
On work not exceeding 3-in. girth	YR	6 $\frac{1}{2}$ 1 $\frac{1}{2}$

For each additional 3-in.
girth

YR	6	1 $\frac{1}{2}$
Oiling and polishing		

Twice oiling general surfaces
of hardwood with linseed oil

YS	1	1 8
On work not exceeding 3-in. girth	YR	1 $\frac{1}{2}$ 1

For each additional 3-in.
girth

YR	1 $\frac{1}{2}$	1
Staining and wax polishing general surfaces of hardwood	FS	1 0 $\frac{1}{2}$

Staining bodying-in and fully
French polishing on general
surfaces of hardwood

FS	2	6 $\frac{1}{2}$
Papering		

Papering

Preparing and sizing walls
and hanging plain lining
paper

Piece	10	3 3
Hanging wall paper, p.c. 10s. per piece	20	2 12 9

Hanging border p.c. 1s. per
yd.

YR	1	8 $\frac{1}{2}$ 1 3
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building illustrated

Warehouse and offices in Western Avenue, Cardiff

WAREHOUSE and OFFICES

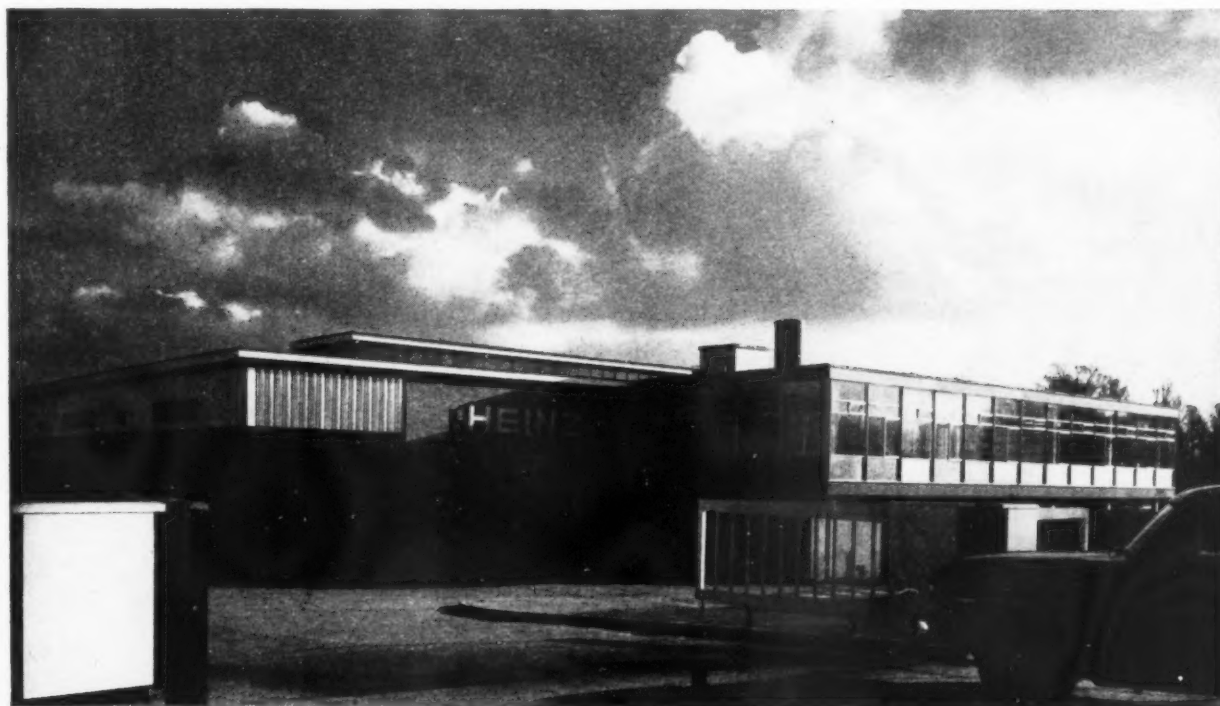
in WESTERN AVENUE, CARDIFF, SOUTH WALES

designed by GRENFELL BAINES and HARGREAVES

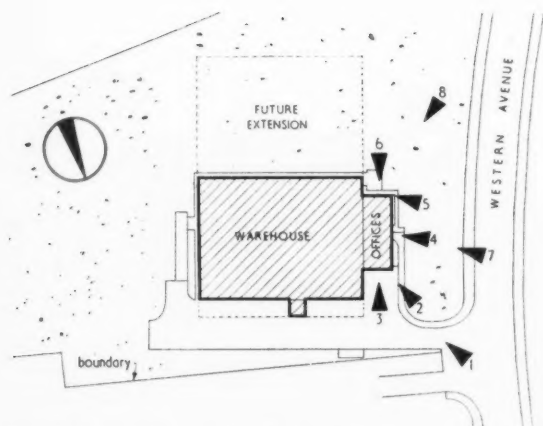
assistant architect J. A. PADDOCK; assistants B. FINEBERG, M. R. HESKETH and E. DUERDEN (contracts manager); consultants (structural) F. J. SAMUELY; (heating) J. G. PROGER and SONS LTD.; (electrical) TROUGHTON and YOUNG LTD., quantity surveyors ARNOLD E. TOWLER

The architects of this warehouse and office building for H. J. Heinz & Co. Ltd. at Cardiff spent a considerable amount of time on research before the design was begun. For instance, moving and stacking equipment can affect warehouse design, and fork lift truck and pallet sizes determine aisle and stack dimensions. Among the conclusions reached were that (a) a square shape gives the greatest area for shortest distance travelled, (b) present equipment methods suggest reception and despatch on the same side and (c) for effective operation of fork lift trucks the warehouse floor should be at road level. This is the first combined warehouse and office block to be analysed in the JOURNAL.

Viewpoint 1: the main entrance. On the left is the cantilevered canopy over the unloading docks.



building illustrated

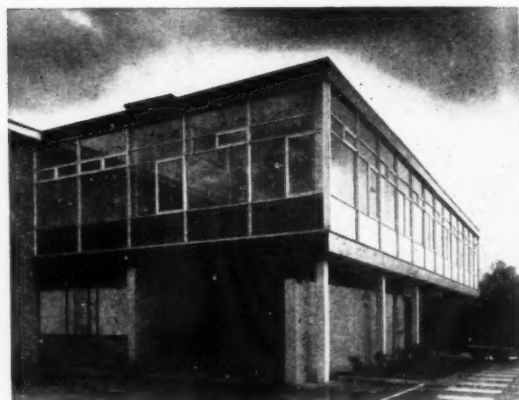


Key plan showing photographic viewpoints

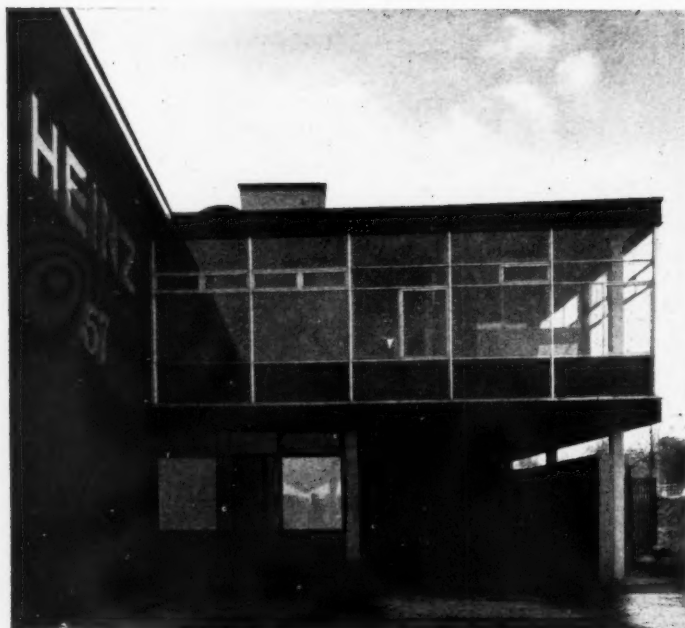
WAREHOUSE and OFFICES

in WESTERN AVENUE, CARDIFF
designed by GRENFELL BAINES
and HARGREAVES

Viewpoint 2 (below): the slatted hardwood screen divides the main entrance from the service entrance to the kitchen and canteen. The structure is of steelwork encased in concrete on a grid spacing of 14 ft. by 26 ft. approximately. Rainwater down pipes are concealed in the concrete casing to the stanchions. First-floor curtain walling, with aluminium framing gives a light and pleasing finish using purpose-made units based on standard sections. On the ground floor infilling panels are built up from hardwood frames with large areas of glazing and occasional solid panels faced externally with



interior quality plywood or cedar boarding. Viewpoint 3 (below left): north elevation of office block. The car port gives access to the boiler house and cycle store. There is direct access from these parts of the building to the entrance hall. Viewpoint 4 (below right): the main entrance. The first floor slab is cantilevered forward and faced externally with 1-in. thick slate, used also as the permanent shuttering for the outside edge of the floor slab.

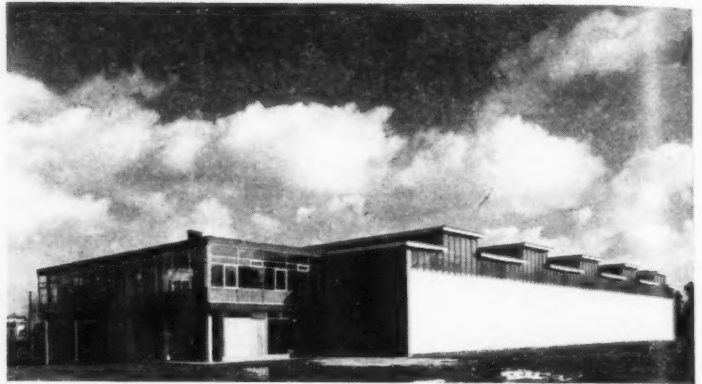
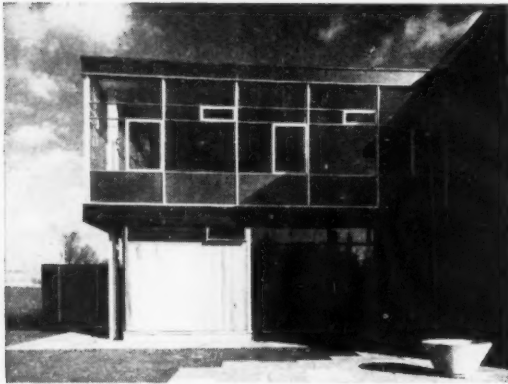


building illustrated

Viewpoint 5: the south-west corner of the office block, showing the canteen on the ground floor. The detail illustrates the cantilevering forward of the first floor and roof slabs permitting the curtain walling to run uninterrupted past the main structural columns. The first floor cladding and the ground floor return wall will be illustrated as Working Details in a later issue.

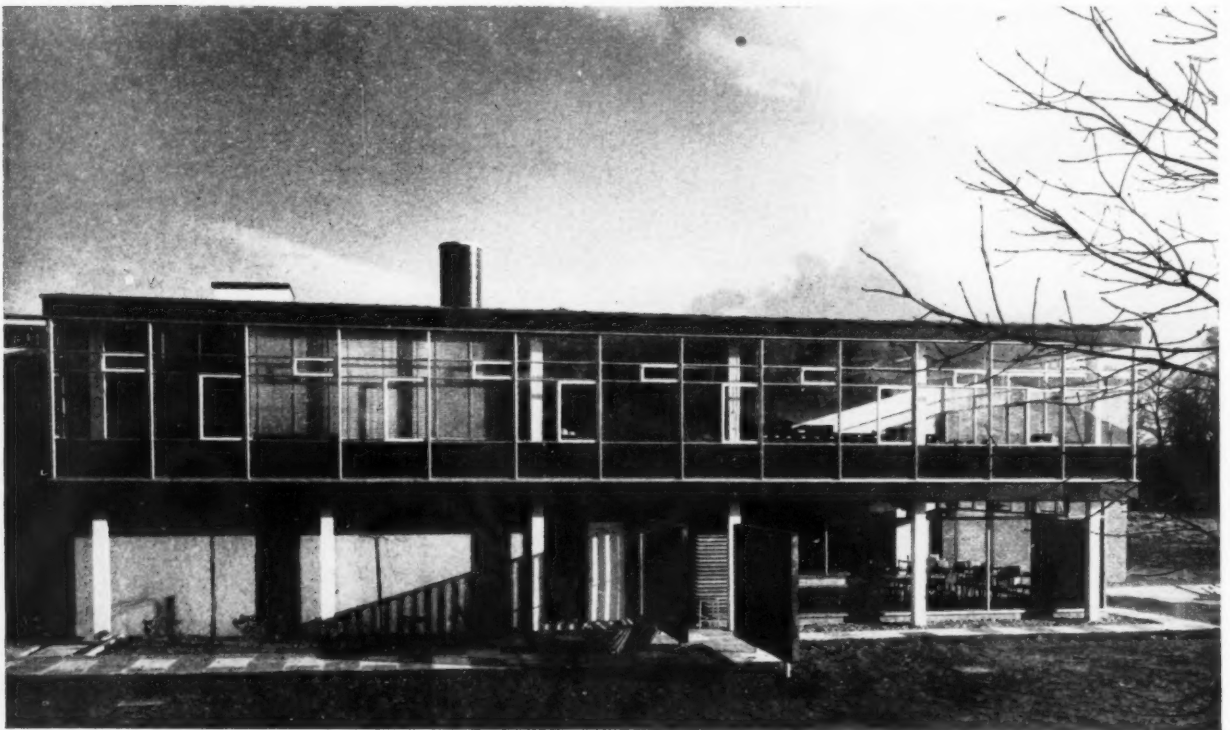


building illustrated



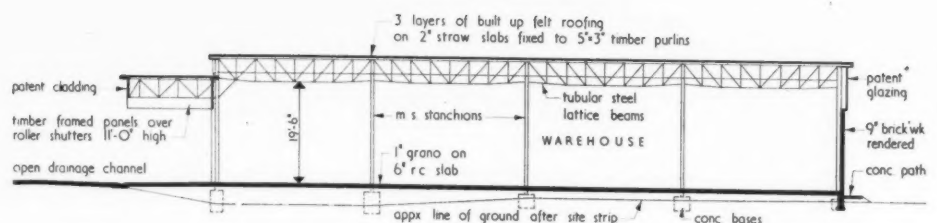
Viewpoint 6 (above left): the south elevation of office block with paved area immediately accessible from the canteen. Viewpoint 7 (below): the west elevation of the office block from the main road, the road level being some 6 ft. above the ground floor level in the building. The general office occupies the right-hand part of the first floor with the manager's office in the centre (blinds down) and a small office for interviewing on the left. Viewpoint 8 (above right): the south and west facades of the building showing the

relationship of the office block fronting the road, with the warehouse behind it. The illustration indicates the monitor system of roof lighting to the warehouse, with fascias at the higher and lower levels projected well forward of the wall face to give a strong definition to the roof form. The wall below the patent glazing is a 9-in. solid brickwork enclosing steel stanchions. This wall is finished with $\frac{3}{4}$ -in. waterproof cement, with a combed finished on to which two coats of emulsion paint have been applied.



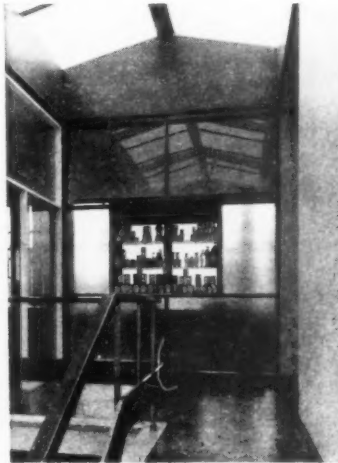
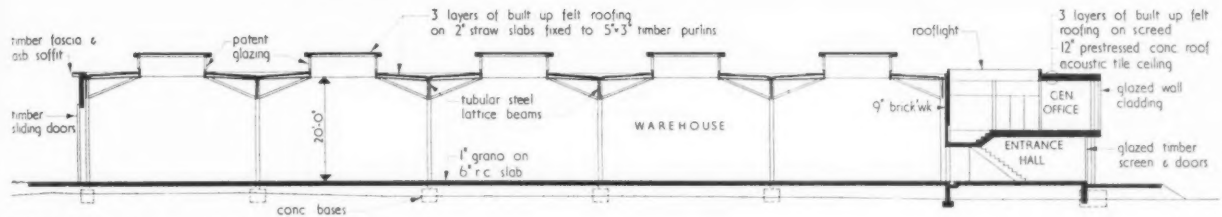
WAREHOUSE and OFFICES

in WESTERN AVENUE,
CARDIFF
designed by GRENFELL
BAINES and HARGREAVES

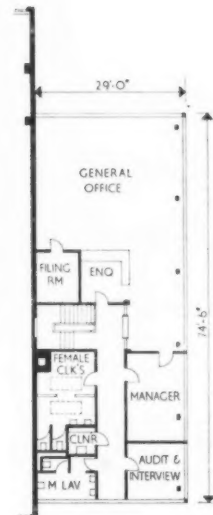


Section A-A [Scale: $\frac{1}{32}'' = 1' 0''$]

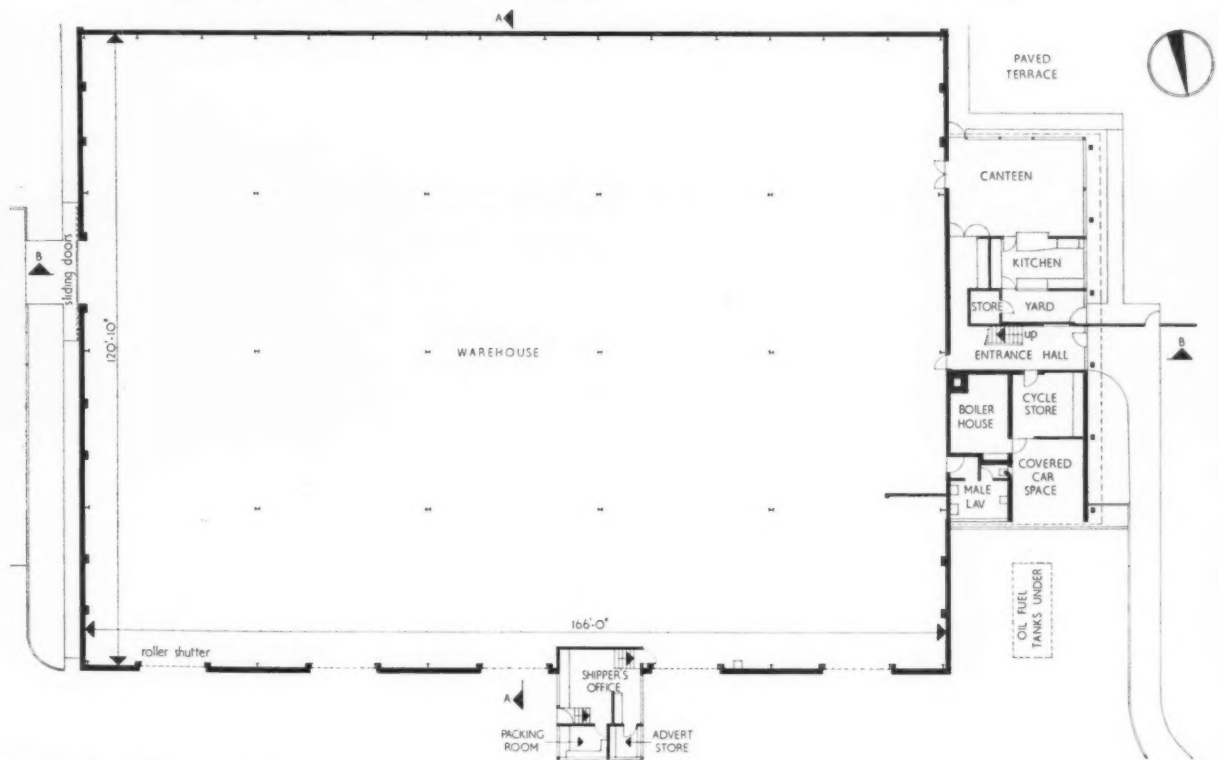
building illustrated



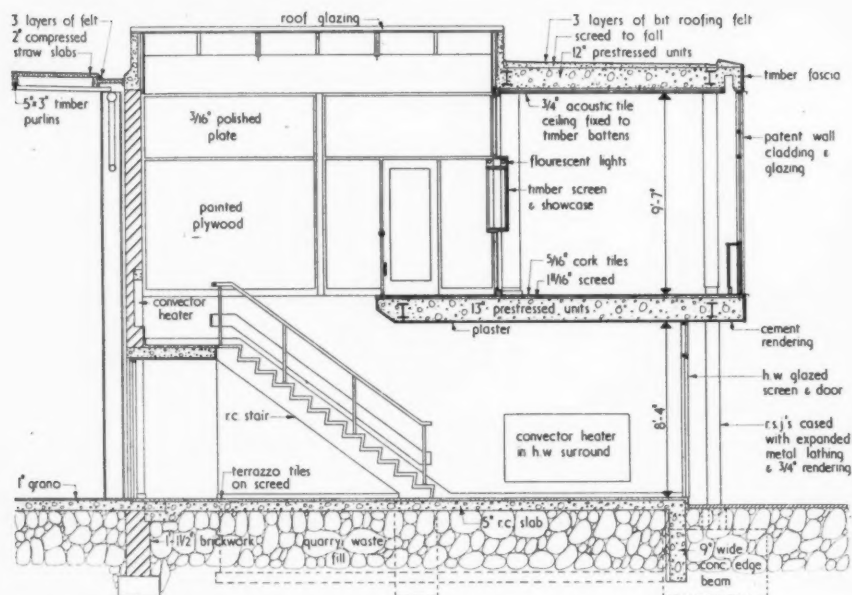
Above left: the *in situ* concrete staircase from the entrance hall to the first floor. The treads are finished with precast terrazzo slabs 1½-in. thick with black carborundum non-slip nosings. The hardwood hand rail is supported by satin-finished anodized-aluminium standards, threaded through an aluminium collar and set into the *in situ* concrete. Above right: the display case at the head of the staircase on the first floor.



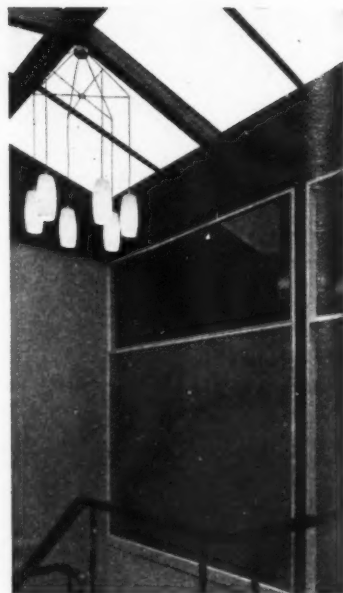
First floor plan

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

building illustrated

Cross-section through office block entrance hall [Scale: $\frac{1}{4}'' = 1' 0''$]

Above right: junction of rooflight over staircase with partitions enclosing the general office from the staircase well. This rooflight will be illustrated as a Working Detail in a later issue. Below left: the south-west corner of the general office. The ceilings are finished with acoustic tiles, stopped short of the curtain walling to form a recess for venetian blinds. Below right: detail in lavatory and wash room adjoining warehouse, showing the way in which all plumbing is concealed in ducts, which have moveable panels at strategic points for ready access.



analysis

WAREHOUSE and OFFICES

in WESTERN AVENUE, CARDIFF

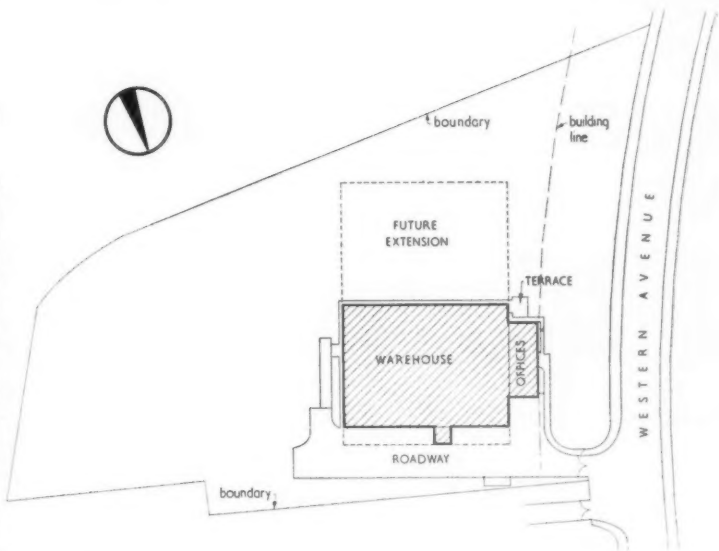
designed by GRENFELL BAINES and HARGREAVES

CLIENT'S BRIEF: his stated requirements

This building is the first of a new series of distribution centres to be set up in various parts of the country, for the purpose of distributing preserved foodstuffs. The warehouse was designed to allow for extension southwards providing ultimately 40,000 sq. ft. of storage space. The initial development was to comprise 20,000 sq. ft. of warehouse space with an office block adjoining. Every encouragement was given by the clients to produce a building of modern appearance with the single-storey warehouse designed to suit the latest methods of stacking with modern machines, and the office block fronting the main road being regarded as a unit which could be carefully designed to provide good "publicity value." A shippers' office was to be provided overlooking the warehouse and a covered loading bay.

SITE: topography, surroundings, access and planting

The fairly level site is to the west of Cardiff in a light industrial estate, bounded on its western side by a major traffic route known as Western Avenue. On the west side of this main road



Site plan

opposite the site is a municipal housing estate. The site is bounded on its southern side by the river Taff and access to it is directly off Western Avenue. Small young trees in front of the office block have been retained.

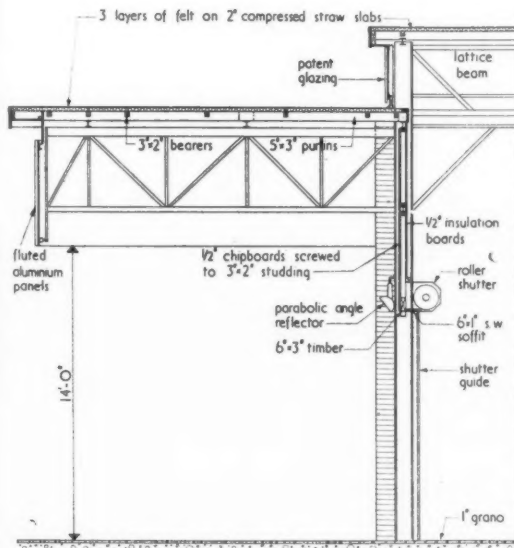
small staff, working in a general office, with a manager's office adjoining and a small office for interviews. There is a staff canteen on the ground floor. The offices and the warehouse are heated from oil-fired boilers situated within the curtilage of the office block.

PLAN: general appreciation and relation of units

The plan is divided into two basic elements: the warehouse for the storage of preserved foodstuffs, and an office block immediately adjoining the warehouse. The warehouse is designed to give a fairly even lighting along the trucking gangways, but a high daylight factor was not required. Stacking of goods is carried out with fork lift trucks which remove the goods from the loading bay on a specially designed platform—one load being defined as a "pallet." The layout of the warehouse was designed to suit this system of storing goods in pallets. The shippers' office is strategically placed to enable adequate supervision of unloading and stacking. The 9-in. brick wall on the south side of the warehouse will eventually form the fire break with the future extension. The administrative offices provide for a fairly

MAIN CONSTRUCTION: general appreciation

The warehouse stanchions are placed on a 30 ft. x 33 ft. grid to suit the system of stacking in pallets. Construction is of welded steel tubing; low level trussed beams span the length of the building between columns at 30-ft. centres from which double cantilevers carry high level trussed beams forming the glazed walls of the monitor lights. The first floor and roof of the office block are of patent reinforced concrete and hollow pot construction spanning from the warehouse party wall to steel beams carried between the office stanchions. Steel supports and tie beams are contained within the depth of the floor and flush ceilings are maintained throughout. Ground floor walls are mainly glazed hardwood screens with curtain walling on the first floor.

Cross section through loading bay canopy [Scale: $\frac{1}{4}$ " = 1' 0"]

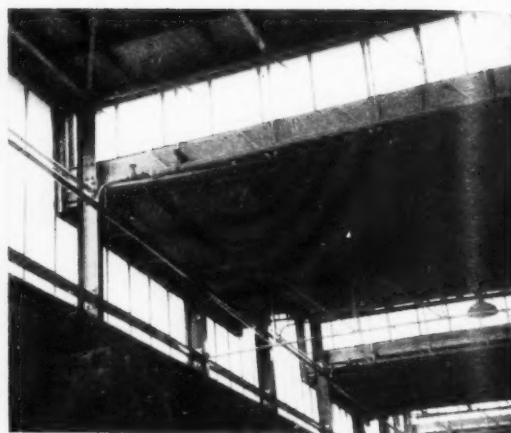
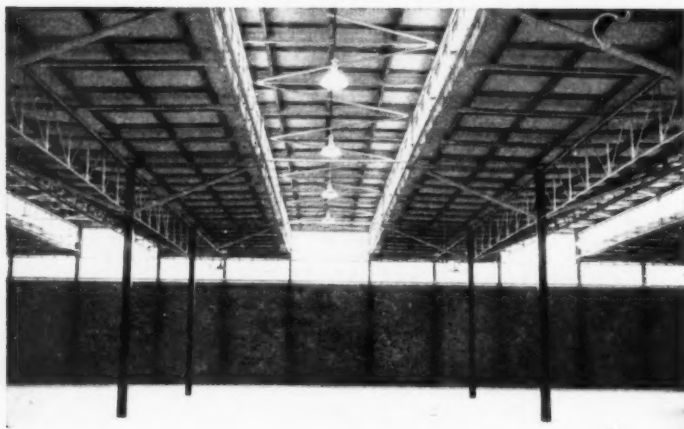
cost per sq. ft.	s	d
preliminaries and insurances	1	4
contingencies		10

STRUCTURAL ELEMENTS

Work below ground floor level: foundation type	Location	Materials	Finish	Reasons and comments
Strip foundations	Walls	Concrete		Simple foundations due to relatively light structural loads and good ground
Mass foundations	Columns	Concrete		
Reinforced concrete floor slab	Oil storage tank pit	1/2 1/4 concrete	Waterproof cement rendered	

work below ground floor level 6 3

analysis



Left: general view of warehouse structure showing low level trusses and double cantilevers carrying high level trusses. The further extension is planned to be built beyond the brick wall (facing) when the patent glazing will be

removed and the wall built up to roof level to form the fire break between the two warehouses. Right: detail of warehouse roof, showing tubular steel lattice beams.

					s	d
<i>External walls and facings</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
10½-in. cavity wall	Warehouse	4-in. foamed slag blocks, 2-in. cavity, 4½-in. brickwork externally	Red smooth-faced pressed bricks to loading bay wall and red rustics elsewhere	Simple structure providing adequate insulation		
Curtain walling	First floor offices	Aluminium capped steel mullions, asbestos fibre-board and mineral wool insulating panels with glass ply facing		Gives ample light and enables full advantage to be taken of the view. Contrasts with solidity of warehouse wall and has good "publicity value" for the Company		
Glazed hardwood frames	Ground floor offices	Meranti	Rubberized varnish			
external walls and facings					3	11
<i>Curtain walling and hardboard frames</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
curtain walling and hardboard frames					2	3
<i>Frame or load-bearing element</i>	<i>Location</i>	<i>Materials</i>	<i>Beam spans</i>	<i>Column grid</i>	<i>Reasons and comments</i>	
Light steel framework	Warehouse	R.s. stanchions and welded tubular steel lattice beams	30 ft.	30 ft. × 33 ft.	Due to scarcity of heavier steel sections at the time and for lightness of appearance. Distortions and deflections in the light steel trusses occasioned some cutting and packing of roof timbers	
R.s. framework	Office block	8-in. × 6-in. columns and main beams	13 ft. 10 in. (main)		Main beams span shorter distances in order to avoid downstands and to give flush ceilings	
		8-in. × 4-in. tie beams	27 ft. 4 in. (ties)			
frame or load bearing element					8	4
<i>Upper floor construction</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
Patent reinforced concrete floor slab	Office block	Prestressed concrete planks, infilling hollow pots and in-situ concrete topping	Floor screeds for cork tiles or terrazzo. Soffit battened for acoustic tiling or plastered with lightweight aggregate plaster	No shuttering was required and the system lent itself to erection by the contractor. Production of assembly drawings by suppliers involved the design of all necessary openings, service holes and fixing clips for all ceiling battens at early stages of job		
upper floor construction						10
<i>Staircases</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
In-situ reinforced concrete	Office block		Precast terrazzo treads and risers. In-situ terrazzo skirtings			
staircases						3
<i>Roof construction</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>		
As for floor	Office block		3 layers roofing felt, first layer asbestos based			
Timber purlins and compressed strawboard panels	Warehouse	5-in. × 3-in. purlins at 4-ft. centres, 3-in. × 2-in. cross bearers at 3-ft. 9-in. c.c's	As above	Economical construction and rapid erection		
roof construction					6	1

analysis

s d

<i>Roof lights</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Rectangular lantern light	Over staircase	Patent glazing, Georgian wired plate glass	Hardwood veneered blockboard lining	
As above	Over women's lavatories	Clear glass ply	Plastered linings	Economical construction and rapid erection
Monitor lights	Warehouse	Vertical patent glazing	Wired roughcast glass	Even lighting along truck gangways
roof lights				1 8

<i>External doors</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Roller shutters	Warehouse	Sheet steel	Painted	Hand-operated mechanism
Plywood flush door	Offices entrance	2-in. skeleton frame	Painted externally, quality plywood	
Framed and glazed	Canteen and shippers' office	Meranti	Varnished	
external doors				1 1

<i>Glazing</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
32-oz. glass	Generally			
Polished plate	In large windows			
Glass ply	Curtain wall		Fixed coloured inside surface	Durable self-cleansing and colour fast
glazing				4

PARTITIONING

<i>Internal partitions</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Timber studding	Generally first floor	3-in. x 2-in. softwood	Plasterboard and skim	Non-load-bearing
Brick	Generally ground floor	4½-in. common brick	Plastered or cement rendered	As above
internal partitions				4

<i>Screens</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Glazed timber framing	First floor landing	Georgian wired roughcast glass and polished plate in mahogany framing	Polished mahogany	Allows visual continuity of ceiling

<i>W.c. doors and partitions</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Flush doors	Generally	1½-in. skeleton frames, ply faced	Polished hardwood	
w.c. doors and partitions cost (included with internal partitions)				

<i>Internal doors</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Flush doors	Generally	1½-in. skeleton frames, ply faced	Generally polished hardwood	
internal doors				5

<i>Ironmongery to internal doors</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Lever handles and mortice locks	Generally	Alloy	Satin chrome	
ironmongery to internal doors				4

FINISHINGS

<i>Floor finishes</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Cost per sq. yd.</i>
Wood block	Canteen	1-in. muhuhu	Wax polished	s. d. 52 0
Terrazzo	Kitchen, lavatories and corridors	Precast tiles and in-situ	Polished	33 0
Cork tiles	Offices	Medium density	Plastic sealer	36 7
Granolithic	Warehouse	With dust-inhibitor	Steel floated	10
Granolithic	Kitchen yard			
floor finishes				1 10

analysis

s d

<i>Wall finishes</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Plaster	Generally in offices	Lightweight aggregate plaster	Emulsion paint	
Plasterboard	On studding in offices	½-in. plaster board and ¼-in. skin	Emulsion paint	
Fair faced brick or foamed slag blocks	Warehouse		Natural	

wall finishes

4

<i>Ceiling finishes</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Plastered	In office block	Lightweight aggregate plaster	Emulsion paint	
Acoustic tiles	Canteen and offices	½-in. tiles glued to battens	Emulsion paint	

ceiling finishes

6

<i>Decorations</i>	<i>Location</i>	<i>Paint types</i>	<i>Munsell or other ref.</i>	<i>Reasons and comments</i>
Sealer, 2 coats emulsion paint	Generally in offices			Scheme generally restrained; large white or neutral areas contrast with smaller areas of stronger but restrained colour. "Shocking" colours and pastel shades are avoided
Primer, 2 coats gloss	Joinery (general)	Gloss paint		
Rubberized varnish and sealer	Hardwood external joinery	Gloss finish		
Clear polish	Hardwood internal joinery	Semi-gloss finish		

decorations

1 5

FITTINGS

<i>Cloak rooms</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Metal hat and coat hooks	Men's lavatories	Aluminium	Satin anodized	
Coat rail and hat shelf	Women's lavatories	Hardwood	Polished	
<i>Other fittings</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Display showcase	First floor landing	1-in. solid mahogany and plaster glass	Polished	Displays the Company's products in prominent position
Counters	General office	1-in. softwood frame	Painted with lino top	

other fittings

1 6

<i>Kitchen equipment</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Gas cooker "Chester" single oven model 217				

SERVICES

<i>Rain water disposal</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Downpipes	Down office block stanchions and warehouse walls		Vitreous enamelled	

rain water disposal

3

<i>Plumbing internal: waste disposal</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
One pipe system in duct	First floor lavatories	2-in. copper waste pipes 4-in. cast iron soil pipes		First floor plumbing concealed in walls and in ducts, with removable block board panels. Continuous common flushing through to w.c.s

<i>Hot water storage</i>	<i>Location</i>	<i>Materials</i>	<i>Capacity</i>	<i>Reasons and comments</i>
Indirect cylinder	Boiler room	Copper	60 gallons	
<i>Cold water storage</i>	<i>Location</i>	<i>Materials</i>	<i>Capacity</i>	<i>Reasons and comments</i>
Hot supply tank	Office block roof	Galvanized steel	60 gallons	Insulated with 1-in. boarding on 2-in. strawboard
Cold supply tank	Office block roof	Galvanized steel	100 gallons	

<i>Plumbing: sanitary fittings</i>	<i>Location</i>	<i>Materials</i>	<i>Finish</i>	<i>Reasons and comments</i>
Lavatory basin, w.c. suites and sinks	Lavatories and cleaners' store	Fireclay generally but kitchen sinks stainless steel	White Glazed. Stainless natural	

plumbing internal, hot water storage, cold water storage, plumbing: sanitary fittings

1 0

analysis

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Heating installation: heat exchanger type	Location	Criteria temp.	Air change rate	Reasons and comments
Low pressure hot water system	Plant in boiler room	65° F. main offices	Natural ventilation	The oil burner is designed to cope with the future warehouse extension of 20,000 sq. ft.
"Nu-Way" ZH 12 oil burner	Central heating through-out	55° F. corridors and lavatories 40° F. minimum warehouse		

Boiler type and capacity	Location	Heat load and fuel type	Stoking method	Reasons and comments
"Ideal" 410 KO	Boiler room	583,000 B.Th.U.s (963,000 in future)		Two further sections will be added to boiler when warehouse is extended
904,000 B.Th.U.s per hour		20 seconds fuel oil		

Water heater type	Location	Fuel type	Stoking method	Reasons and comments
60-gallon calorifier	Boiler room			

heating installation, boiler, water heater 4 2

Drainage: type of system	Location	Materials	Finish	Reasons and comments
Separate system. Surface water taken into river Taff through a self-closing flap outfall		Salt glazed ware generally, cast iron under buildings		No surface-water drain was available

drainage 2 6

Gas installation	Location	Materials	Finish	Reasons and comments
Main supply	Kitchen cooker, women's cloakroom incinerator	1-in. copper tubing		Fluorescent lighting was confined to the first floor offices only for reasons of unity at night

Electrical installation: source and fitting type	Location	Illumination level	Quality	Reasons and comments
Fluorescent	All offices	25/30 f/c	Good quality standard fittings	
Semi-direct tungsten	Other rooms and passages	6/7 f/c		
Direct tungsten	Warehouse	6 f/c average		

Wiring and switching types	Location	Materials	Reasons and comments
V.R.I. cables in conduit	Throughout	Heavy gauge steel enamelled conduit	
Flush wall switches		Satin chrome flush plates	

Power supply type	Location	How distributed	Reasons and comments
415/240 v. 3-phase	Throughout	V.R.I. internal sub-mains	

electrical installation 1 0

Paved areas	Location	Materials	Reasons and comments
	Roads and paths	Concrete roads. Concrete flag paths and grass areas at front of building	

paved areas 4 6

total net cost per sq. ft. of floor 53 3

THERMAL INSULATION

Type	Location	U-value	Reasons and comments
2-in. strawboard	Warehouse	.3	
4½-in. brick outer leaf, 2-in. cavity and 4-in. foamed slag block inner leaf	Warehouse	.22	

SPECIAL ACOUSTICAL TREATMENT

Sound absorption material	Location	Absorption coefficient	Reasons and comments
24-in. x 24-in. x 1-in. acoustic ceiling tiles	Offices and canteen		

Sound insulation	Location	Insulation standard	Reasons and comments
1-in. insulating blanket underlay to plasterboard on timber studded wall	Manager's office		To reduce intrusive noises from corridor, staircase and general office

analysis

FIRE

<i>Structural precautions</i>	<i>Grade of protection apparatus</i>	<i>Sprinklers</i>	<i>Reasons and comments</i>
Non-combustible structural materials	Hose reels and foam extinguishers	None	Curtain wall panels below sill give one hour's fire resistance and are fixed by steel angles to the steel mullions
<i>Planning precautions</i>	<i>Access for fighting</i>	<i>Means of escape</i>	<i>Reasons and comments</i>
Fire-proof walls and doors between warehouse and offices		Internal staircase	The 9-in. brick wall on south side of warehouse will be heightened to form a fire-break between existing warehouse and future extension

REFUSE DISPOSAL

<i>Method</i>	<i>Type of refuse</i>	<i>Waste recovery</i>	<i>Materials and installation</i>	<i>Reasons and comments</i>
Local authority collection	Kitchen and clerical waste	Nil	None	

TIME SCHEDULE

<i>Drawings</i>	<i>Tender date</i>	<i>Contract signed</i>	<i>Work commenced</i>	<i>Work completed</i>	<i>Type of contract</i>
May, 1955	September, 1955	October, 1955	November, 1955	September, 1956	RIBA (quantities)

COST SUMMARY

<i>Total ground floor area of superstructure</i>	<i>Total floor area (excluding basement)</i>	<i>Tender date</i>	<i>Tender cost of superstructure</i>	<i>Installation and finishings</i>
22,106 sq. ft.	24,180 sq. ft.	September, 1955	£33,450	£14,911
<i>Tender cost of foundations</i> £7,536	<i>Tender cost of external works</i> £10,940	<i>Gross total cost</i> £64,380	<i>Cost per ft. super of floor</i> 53s. 3d.	

COST COMMENTS

This analysis is a useful guide to the architect to show where and in what proportions the cost is distributed over the various elements of the building. More information, however, will be required before any unit rates can be established for a particular form of construction, or before comparison can be made with any of the seven or eight factories previously analysed in this series.

The plan of the Heinz factory is divided into two basic functional elements: a storage warehouse with its relatively large floor areas, and a compact two-storey office block with its greatly increased wall to floor area ratio and its higher standard of finish. These circumstances do not favour an all-embracing cost analysis especially where the respective ratios are not supplied, e.g., "External Walling" includes brick walls, curtain walling and glazed hardwood framing in varying proportions. The "Ceilings" and "Upper Floor Construction" are taken from the two-storey block only, and the cost spread over the total floor area gives a false impression at 6d. and 10d. per ft. super, respectively. The tubular

steel frame to the warehouse is of interesting construction but again the cost as shown is inseparable from that of the office frame. One of the factors contributing to the relatively low cost of the electrical installation at 1s. 0d. per ft. super is the low illumination level required in all but the offices.

SITE ORGANIZATION

Site labour and equipment: general foreman, ganger. D.8 tractor dozer and 13 cub. yard scraper—14 days approximately. 14 R.B. excavator, 8 weeks—mainly on drainage. Three-quarter cub. yard dumper, 2/14-10 mixers during whole of contract. *Sub-letting:* the general contractor sub-let the following trades for reasons given. Plasterer—not sufficient labour available. Painter—own painter employed on other contracts at the time. Plumber—no plumbers employed. Joinery (part only)—lack of first class joiners.

CONTRACTORS

Clerk of works: W. T. Aubrey. *General Contractors:* Knox & Wells Ltd. *Sub-contractors—*

Roofing felt: Vulcanite Ltd. *Patent glazing:* Mellows & Co. Ltd. *Wood block flooring:* Vigers Bros. Ltd. *Structural steel:* S.G.B. Ltd. *Patent flooring:* Richard Costain Ltd. *Water-proofing material:* Chemical Building Products Ltd. *Central heating, boilers:* Proger & Sons Ltd. *Electric wiring, heating:* Page & Stibbs Ltd. *Electric light fixtures:* Troughton & Young Ltd.; Benjamin Electric Ltd.; Falk, Stadelmann & Co. Ltd. *Metal staircases:* W. & R. Leggots Ltd. *Plumbing:* Henry Tattersalls Ltd. *Stairtreads:* Cardiff Mosaic Ltd. *Telephones:* Modern Telephones (G.B.) Ltd. *Casements:* J. Williams & Sons Ltd. *Roller shutters:* Roller Shutters Ltd. *Sanitary fittings:* Sessions Ltd., and Adamsez Ltd. *Plaster:* Plasterers Ltd. *Joinery:* Gibbon & Sons Ltd. *Wallpaper:* Wallpaper Manufacturers Ltd. *Sun blinds:* Tidemarch & Co. Ltd. *Clocks:* Gent & Co. Ltd. *Signs:* Ward & Company. *Paint:* Smith & Walton Ltd. *Door furniture:* Parker, Winder & Achurch Ltd. *Slate fascias:* Bow Slate & Enamel Co. Ltd.

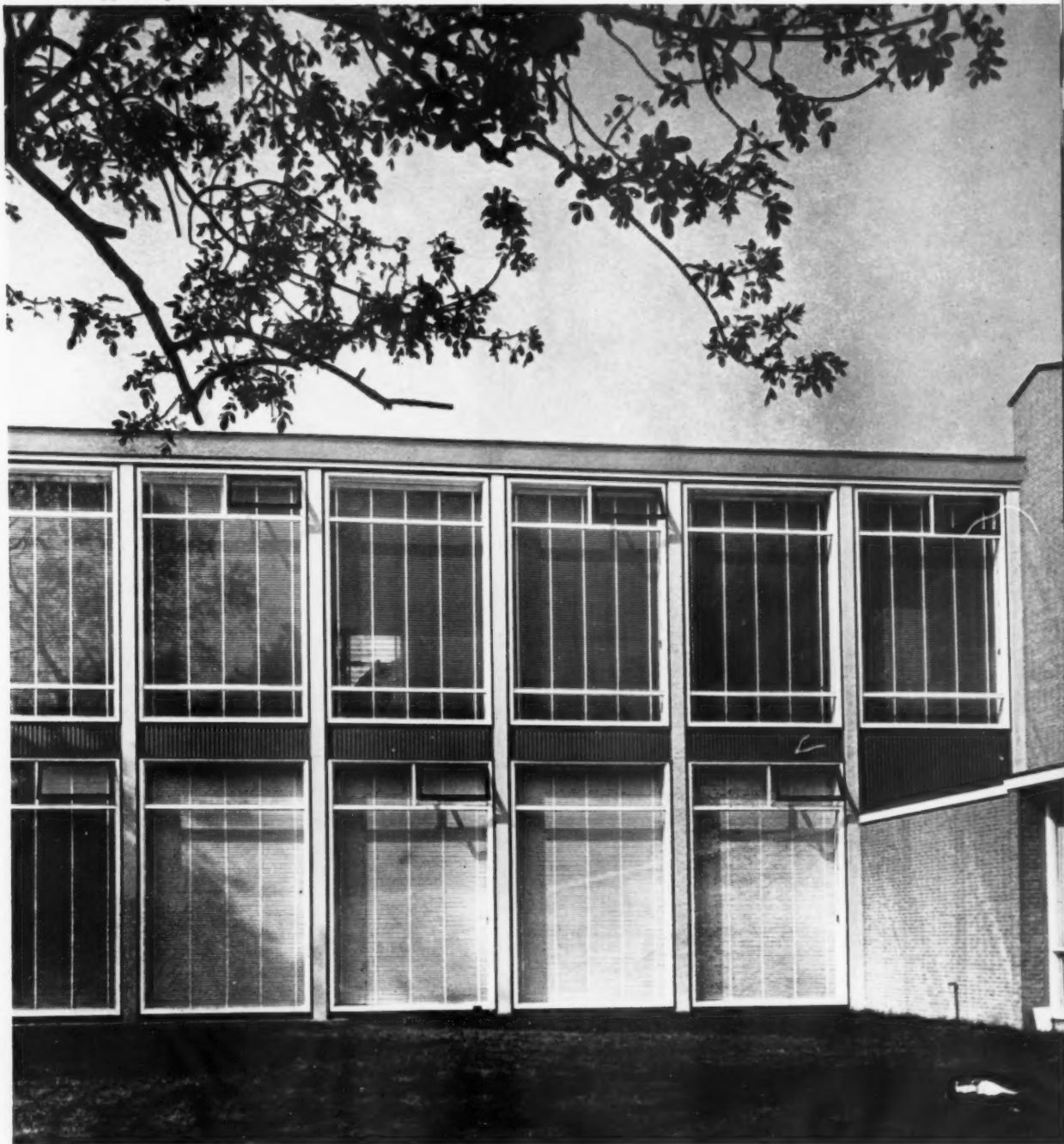


working detail

WINDOWS: 50

WINDOW WALL: MUSEUM IN AMSTERDAM

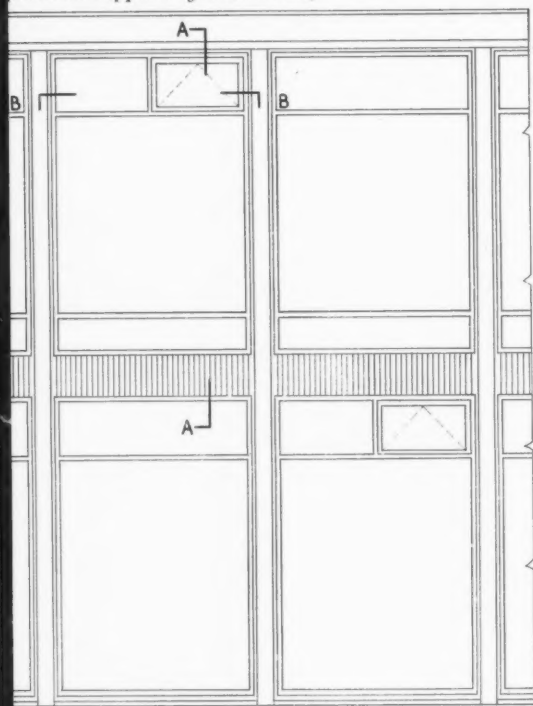
Amsterdam Public Works Department, architects-in-charge, exterior, J. Leupen and J. Sargentini, interior, Prof. F. Eschauzier (material supplied by John Noble)



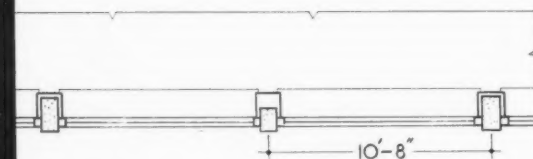
The interest of this detail lies in the skilful combination of in-situ reinforced concrete with high-quality timber linings. The window frames are made in two parts: the outer frame is cast into the supporting structure and the inner frame is separated from the outer by an expansion gap and is held in place by a system of m.s. straps and sliding bolts. Both frames are Oregon pine, the inner being painted blue-grey and the outer white. The window beads and the guide rails to the venetian blinds are teak. The concrete mullions are painted light grey.

WINDOW WALL: MUSEUM IN AMSTERDAM

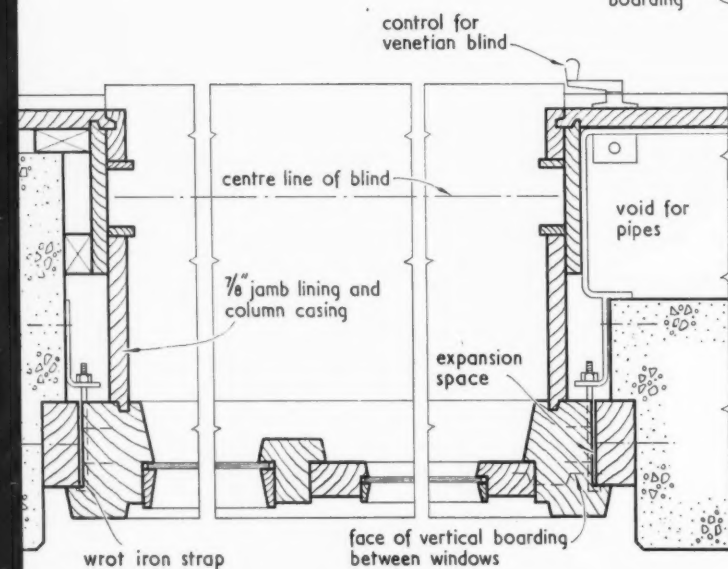
Amsterdam Public Works Department, architects-in-charge, exterior, J. Leupen and J. Sargentini, interior, Prof. F. Eschauzier
(material supplied by John Noble)



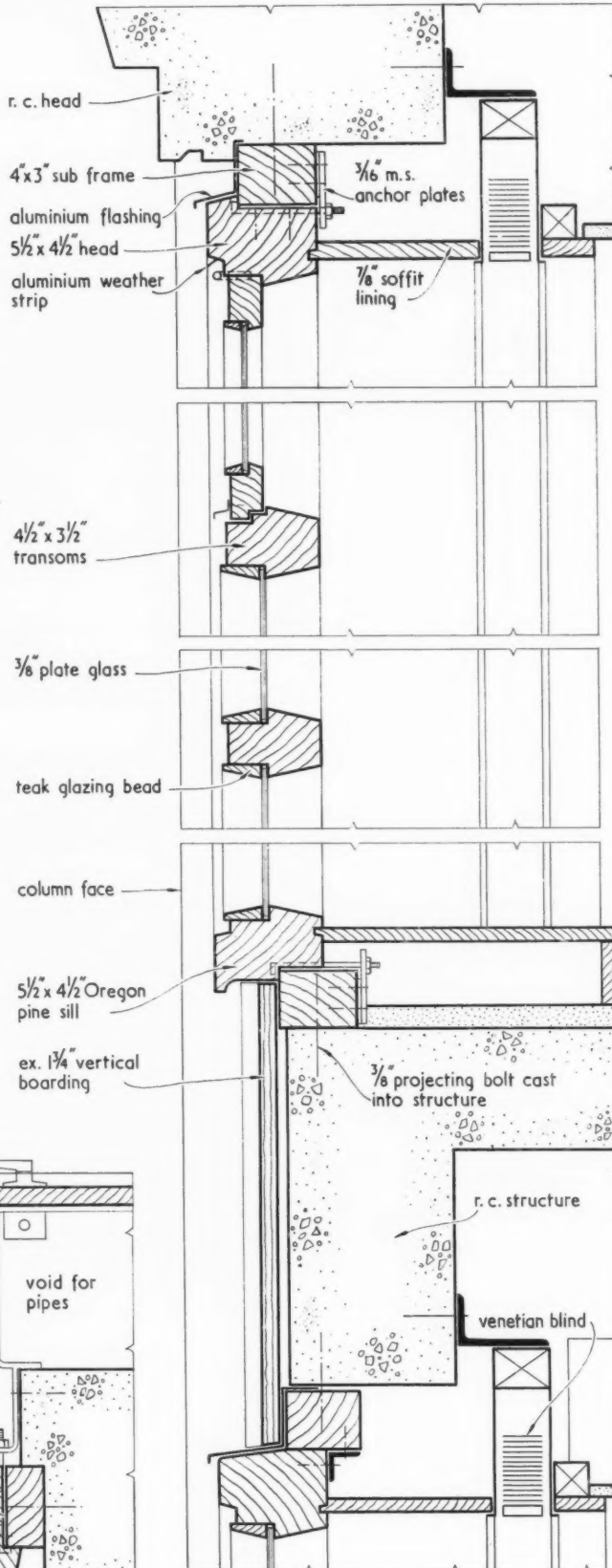
ELEVATION. scale 1/8" = 1'-0"



PLAN. scale 1/8" = 1'-0"



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



SECTION A-A. scale 1/2" = 1'-0"

note: dimensions figured in feet and inches are approximate

working detail

MISCELLANEOUS: 17

LIFT SHAFT: STORE IN ROTTERDAM

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



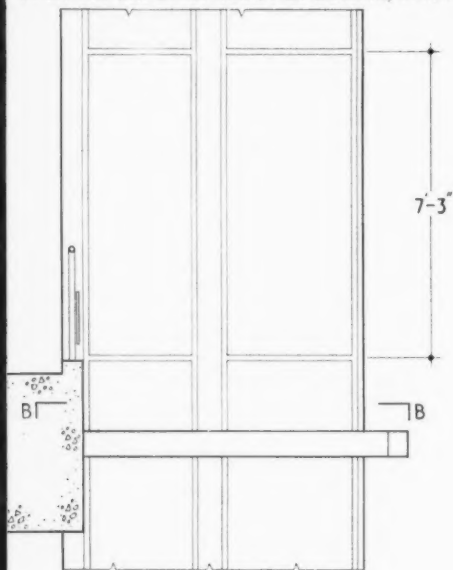
The main structural members of this shaft are welded m.s. box sections and are bolted together internally. Colour is used to articulate the structural members and to emphasize the "interpenetration of form": the horizontal supports are painted indian red, the vertical supports white, and the frame of the cage black.

working detail

MISCELLANEOUS: 17

LIFT SHAFT: STORE IN ROTTERDAM

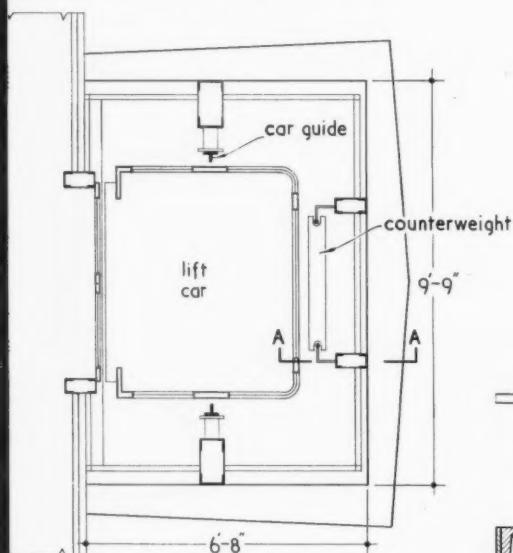
J. H. van den Broek and J. B. Bakema, architects (material supplied by J. Hummerston)

ELEVATION. scale $\frac{1}{4}'' = 1'-0''$

4"x2" m.s. channel

 $\frac{1}{4}''$ m.s. plate stiffeners

removable section of plate for fixing purposes

 $\frac{1}{2}''$ dia. bolts $5\frac{1}{2}'' \times 2\frac{1}{4}''$ m.s. channelSECTION A-A. scale $\frac{1}{2}'' = 1'-0''$ PLAN. scale $\frac{1}{4}'' = 1'-0''$ m.s. box beam at floor level built up from two $5\frac{1}{2}'' \times 2\frac{1}{4}''$ m.s. channels with 10 gauge m.s. sheet covering

4"x2" m.s. channels and 10 gauge m.s. plates forming box stanchion

 $\frac{1}{4}''$ polished plate glass $6\frac{1}{2}'' \times 2\frac{1}{2}''$ m.s. channels with 10 gauge m.s. plates forming box stanchions carrying car guides

glazed lift well enclosure

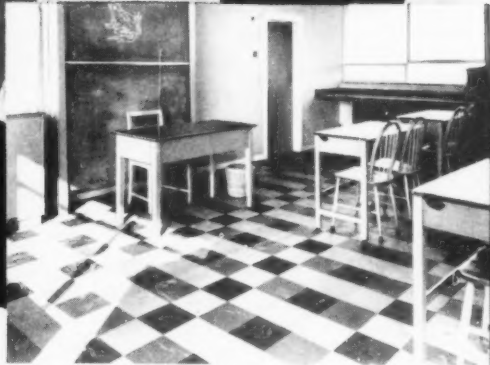
8"x $\frac{3}{4}''$ anchor plate 1'-4" long

10 gauge m.s. plate covering welded to channel

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

note: figured dimensions in feet and inches are approximate





St. Laurence's R.C. School, Southdene, Liverpool
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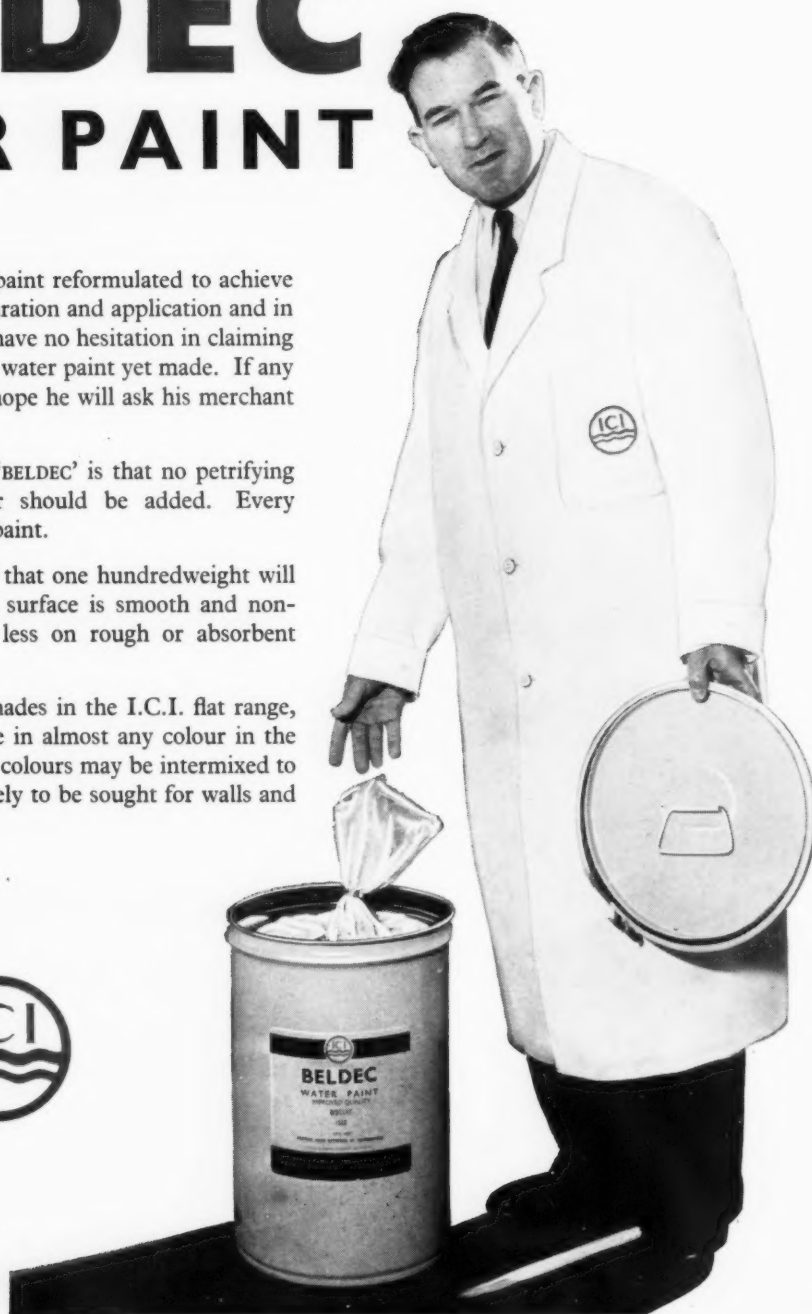
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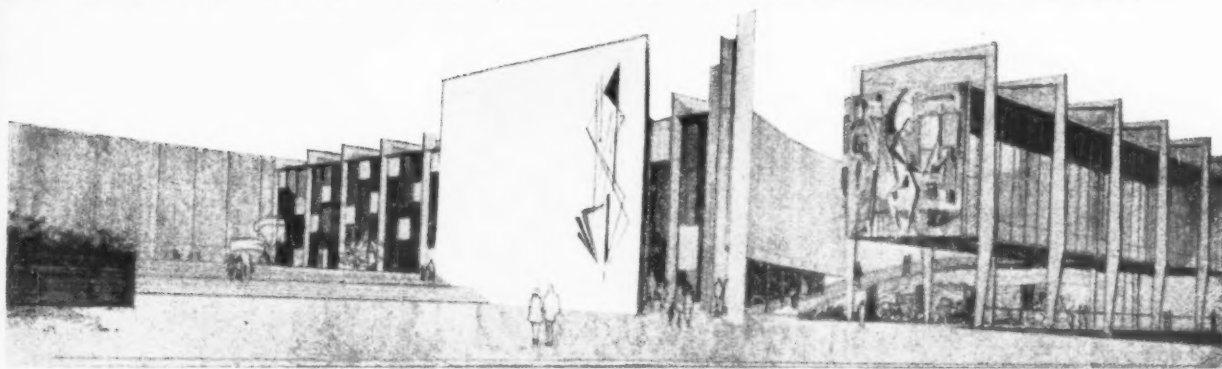
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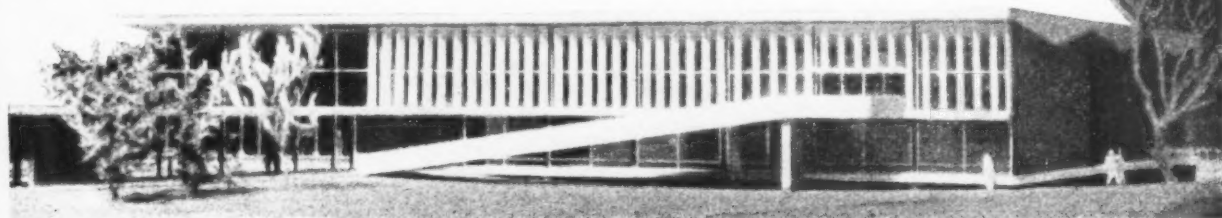
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PAVILIONS FOR THE BRUSSELS 1958 EXHIBITION



On March 7 we published details of several of the foreign pavilions for the Brussels Exhibition. On this page and overleaf are three more. Above: the Belgian "Paper and Graphic Arts" pavilion. The architects for this pavilion—in which will be shown the history of the paper industries, the manufacture and technique of paper-making and the uses of paper—will be De Doncker and Vanderauwera. The Portuguese pavilion, below, which will "contribute to the expansion of world solidarity founded on respect for the human personality," will be designed by Pedro Cid.



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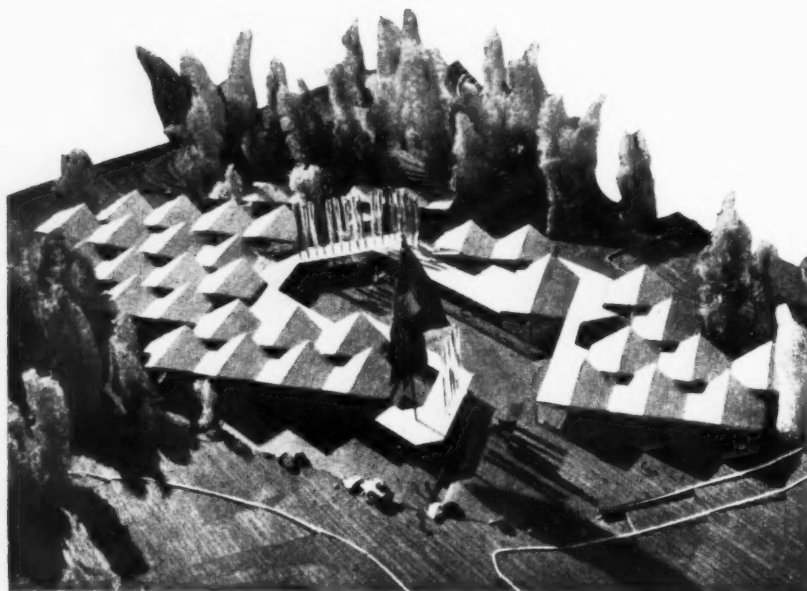
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SWISS PAVILION FOR BRUSSELS EXHIBITION

The Swiss Commissariat say that in the design of this pavilion "a concern with humanity inspired by the author of the plans (not yet revealed) right from the beginning and has been integrated by systematic rejection of any impression of large masses or any seeking after the sensational." In the group of buildings, "juxtaposed like the cells in a beehive," exhibitors may arrange their sections in any way they please.



Credits

Planning in the Stepney-Poplar comprehensive development area, and new housing schemes at Clive Street and Mountmorres Road for the London County Council (pages 457-458). Architect to the Council: Hubert Bennett, F.R.I.B.A., F.I.L.A.; Deputy architect: F. G. West, A.R.I.B.A.; Planning Division—Senior Planning Officer: L. W. Lane, A.R.I.C.S., A.M.T.P.I.; Group Planning Officer: P. Johnson-Marshall, DIPL. ARCH., A.R.I.B.A., A.M.T.P.I.; Senior Architect Planner: W. G. Bor, A.R.I.B.A., A.M.T.P.I.; J. M. Hirsh, A.R.I.B.A., Mrs. Ann M. MacEwen, A.R.I.B.A., A.M.T.P.I., H. N. Allen, A.M.T.P.I., R. Westmacott, B.A.R.C.H., A.R.I.B.A.; Housing Division—Principal Housing Architect: H. J. Whitfield-Lewis, A.R.I.B.A.; Assistant Housing Architect: A. W. C. Barr, A.R.I.B.A.; Architect-in-charge (Clive Street): A. Mackenzie, A.R.I.B.A., A.M.T.P.I.; L. Hunter, A.R.I.B.A., G. A. Wenman, A.R.I.B.A., R. C. Purdew; Architect-in-charge (Mountmorres Road): A. C. H. Boyd, A.R.I.B.A., L. Crawley Challener, L.R.I.B.A., E. J. Whiting, A.I.A.A.; Open Space and Landscaping: L. A. Huddart, F.I.L.A., F.INST.P.A., chief officer Parks department.

Correction

Correction to attributions given Feb. 28

The curtains for the Whitley Abbey school were designed by Gerald Holtom and made by Gerald Holtom. The proscenium curtains for Lyng Hall school were designed by David Holt and executed by Gerald Holtom. Gerald Holtom also supplied all the other curtains and curtain tracks for the Lyng Hall school.

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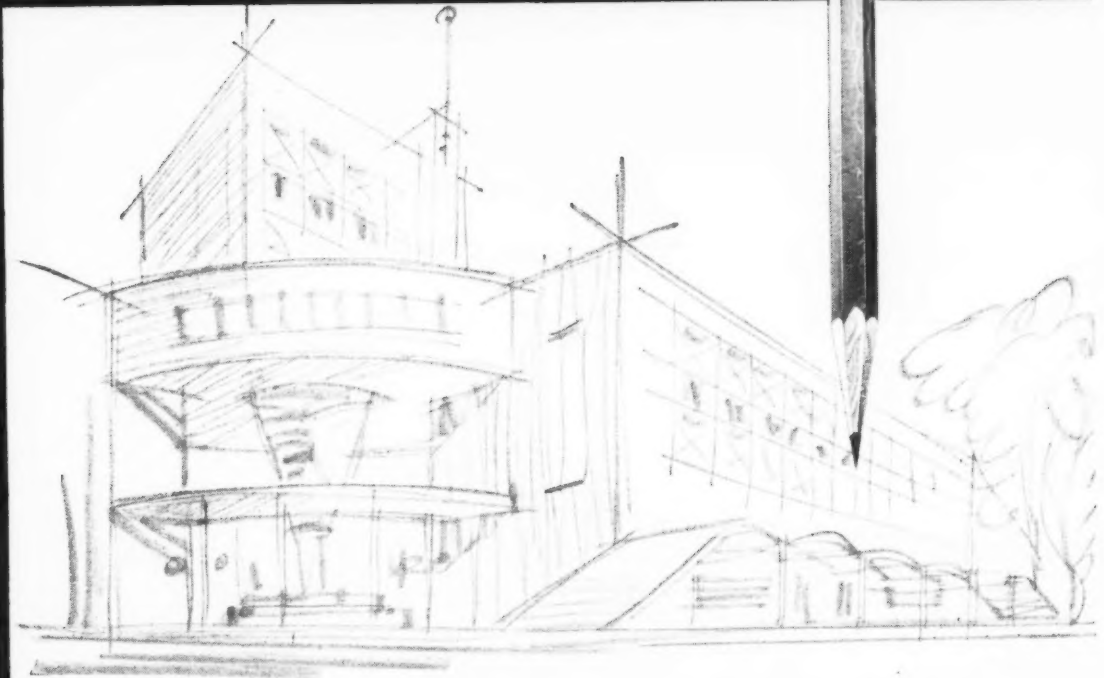
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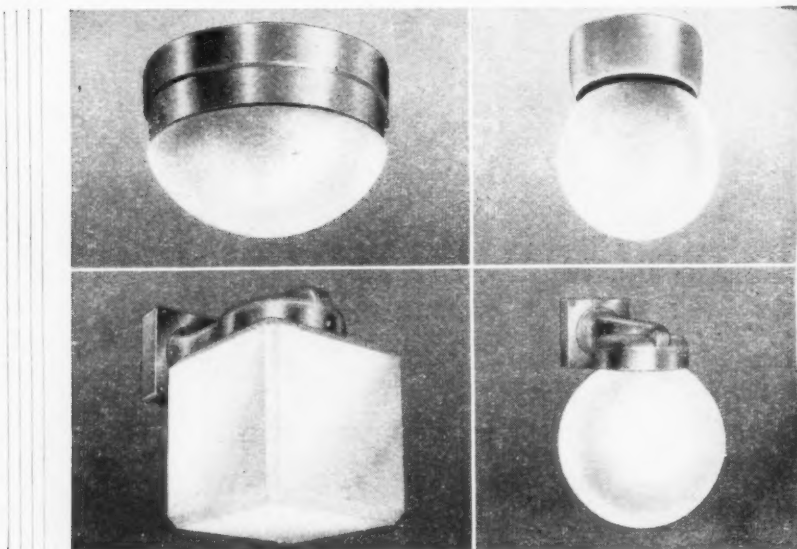
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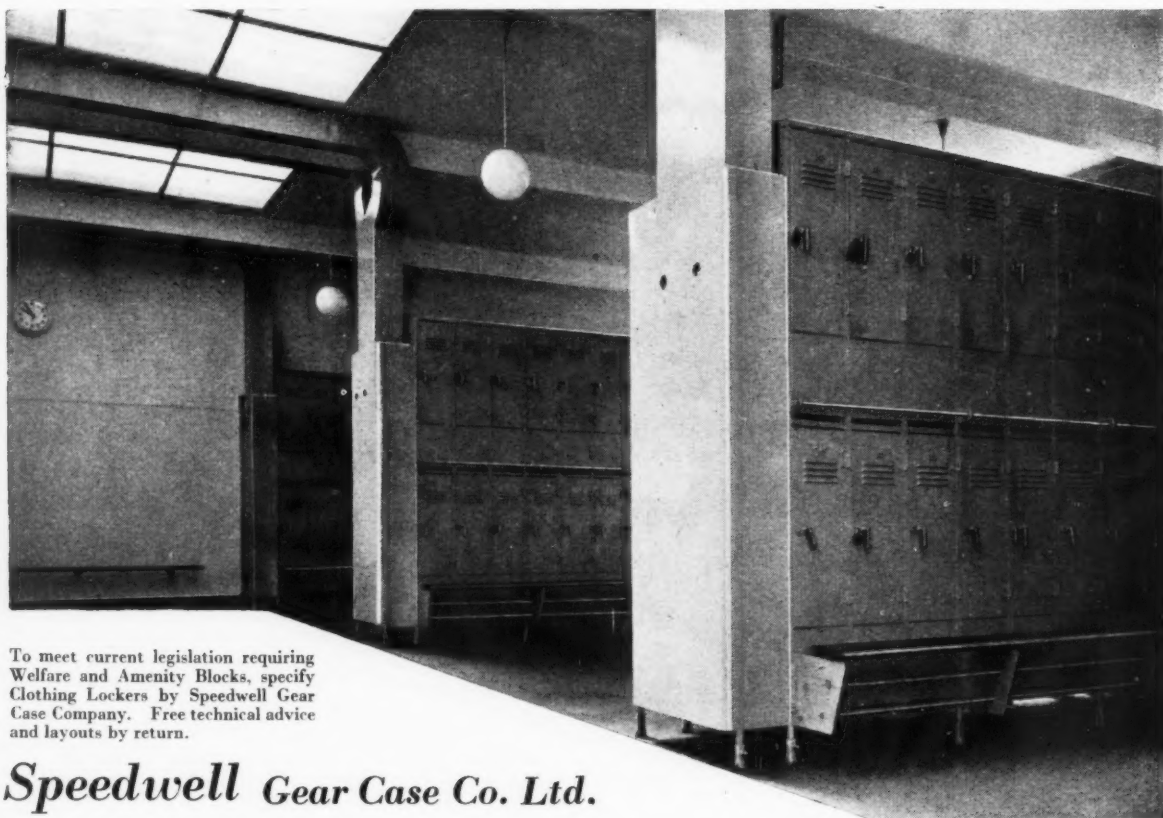
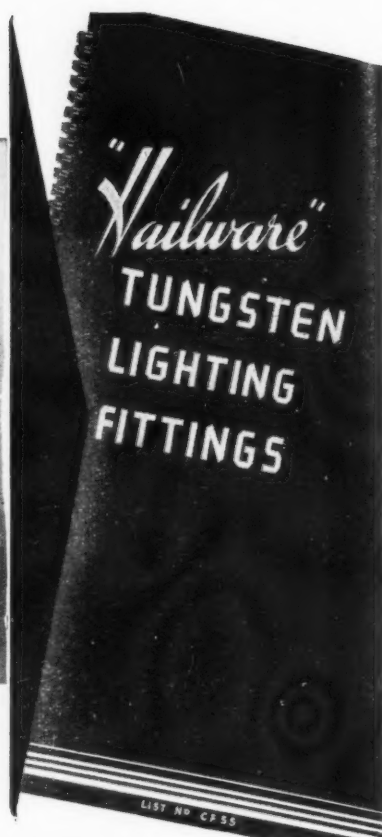
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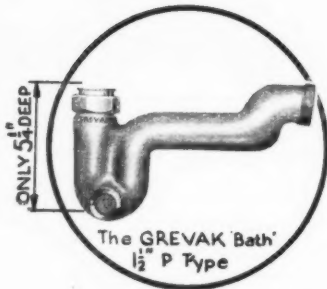
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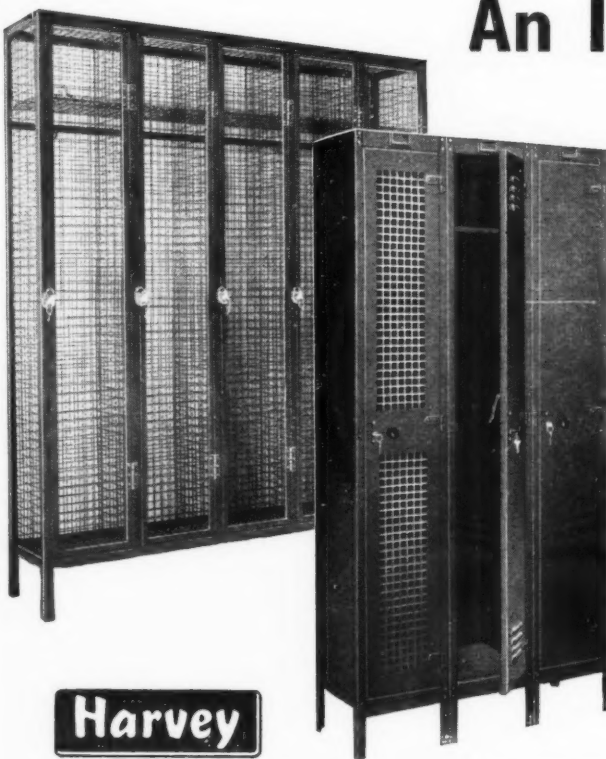
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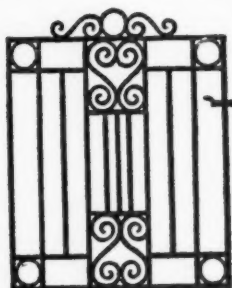
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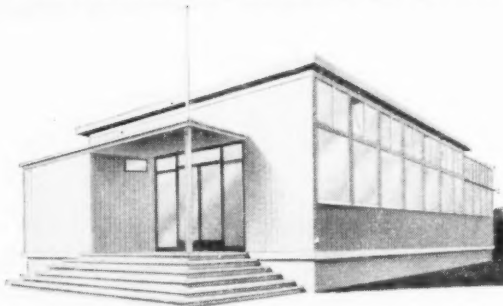
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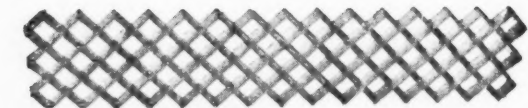
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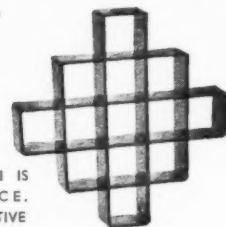
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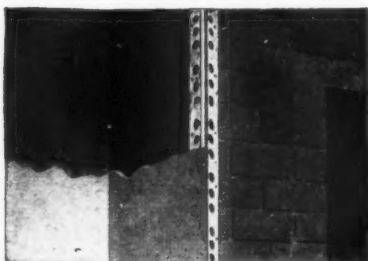
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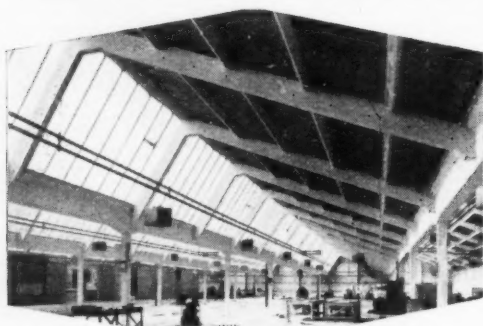
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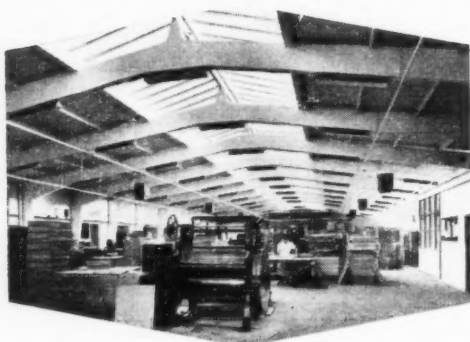
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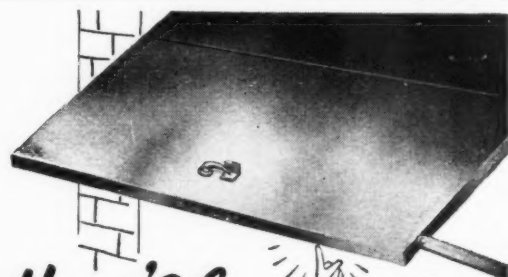


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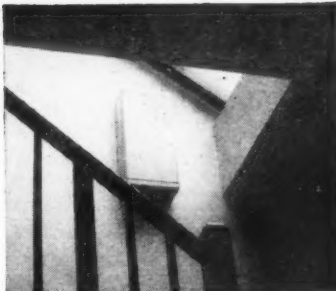
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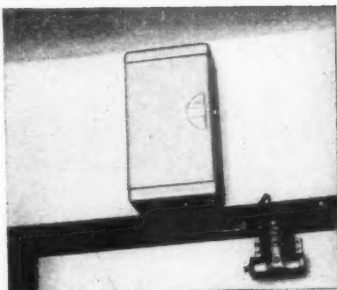
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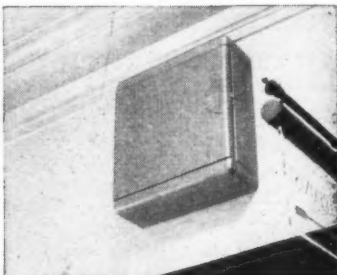
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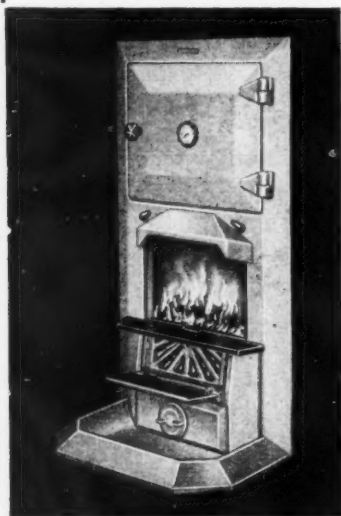
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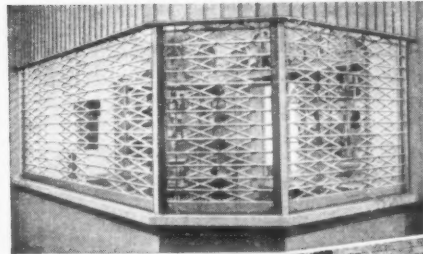
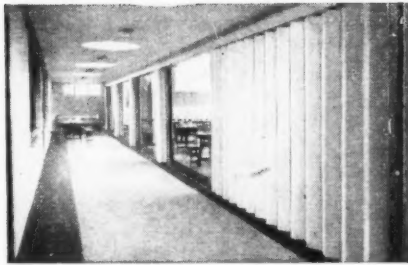
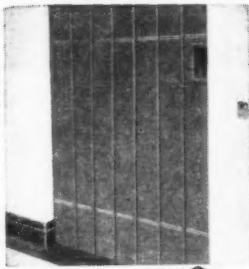
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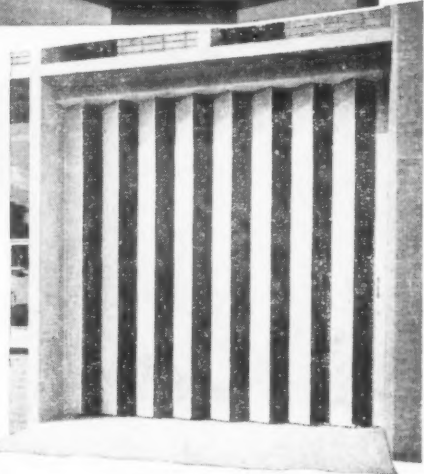
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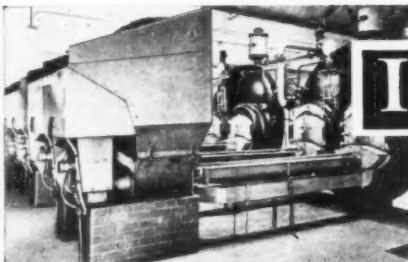


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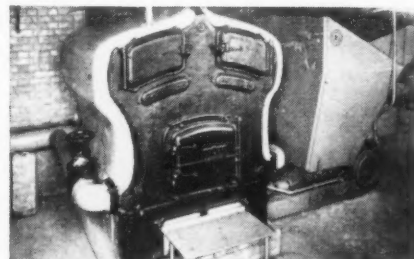


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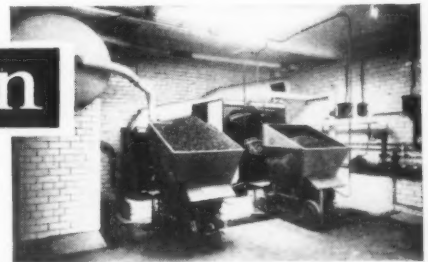
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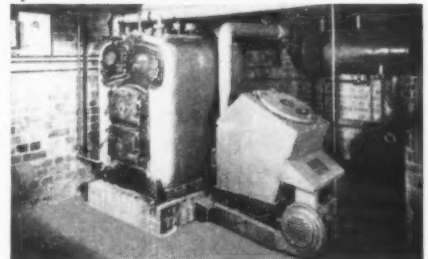


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Numerous institutions have installed Iron Fireman Stokers to reduce fuel costs and save labour.

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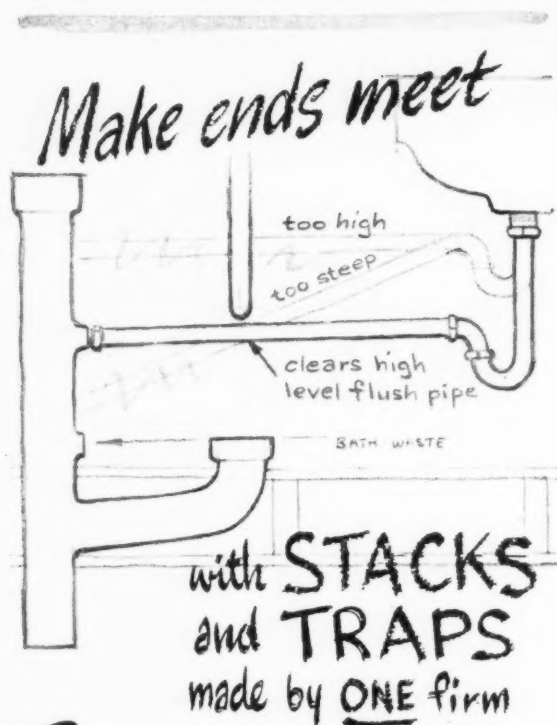
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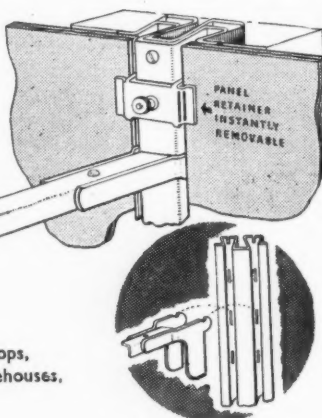
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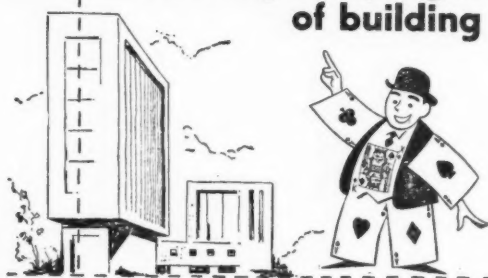
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the *Advt. Manager, "The Architects' Journal," 9, 11 and 15, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.*

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

Public and Official Announcements

25s. per inch; each additional line, 2s.

CANNOCK RURAL DISTRICT COUNCIL
ARCHITECTURAL ASSISTANT

Applications are invited from Associate Members of the R.I.B.A. for the above permanent post on the staff of the Engineer and Surveyor. Salary grade A.P.T. IV (£727 15s.—£907 2s. 6d.).

The appointment will be subject to the Local Government Superannuation Acts, medical examination and one month's notice either side. The Council will endeavour to assist in the provision of housing accommodation and a travelling allowance (essential user scale) will be paid.

Applications giving full details of age, qualifications and experience together with the names and addresses of two referees to the undersigned by Monday, April 1st, 1957.

J. P. ROBERTS,
Clerk of the Council.

Council Offices,
Penkridge,
Stafford. 5623

SURREY COUNTY COUNCIL

Applications invited for following appointments:—

1. ASSISTANT ARCHITECT GRADE IV, £727 15s.—£907 2s. 6d. p.a. plus £30 London Allowance. Must be A.R.I.B.A.

2. ARCHITECTURAL ASSISTANT GRADE II, £609 17s. 6d.—£691 17s. 6d. p.a. plus London allowance up to £30 p.a. Must be of good general training, preference given those who have passed Intermediate R.I.B.A.

3. ASSISTANT QUANTITY SURVEYOR GRADE IV, £727 15s.—£907 2s. 6d. p.a. plus £30 London Allowance. Must be A.R.I.O.S.

Full details, present salary and 3 copy testimonials to County Architect, County Hall, Kingston, as soon as possible. 5619

NORTH RIDING EDUCATION COMMITTEE

ASSISTANT ARCHITECT required in the Education Architect's Department Grade A.P.T. IV and V, salary £727 15s.—£994 6s., A.R.I.B.A. required. Previous experience may be taken into account in fixing commencing salary, and experience with Local Authority not essential. Car, travelling and subsistence allowances. Local Government Superannuation Act. Canvassing disqualifies. Closing date for completed applications 15th April, 1957. Further particulars from F. Barraclough, County Hall, Northallerton. 5629

BOROUGH OF HESTON AND ISLEWORTH

Applications are invited for the undermentioned appointments in the Borough Engineer and Surveyor's Department:—

(A) SENIOR ARCHITECTURAL ASSISTANT,

Grade A.P.T. IV (£727 15s.—£907 2s. 6d.).

Applicants must have had good experience in architectural design and building work under construction. Other things being equal, preference will be given to applicants who have passed the examination for the Associateship R.I.B.A. or hold a University degree or diploma in architecture accepted by that Institute.

(B) GENERAL ARCHITECTURAL ASSISTANT, Grade A.P.T. III (£656—£784 2s. 6d.).

Applicants should have passed the R.I.B.A. Intermediate examination and must have had good general architectural experience. London Weighting is payable in addition.

The Council is unable to assist the successful candidates with housing accommodation.

Applications are to be submitted by 8th April, 1957, on forms to be obtained from and returned to the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow.

D. MATHIESON,

Town Clerk.

Town Hall,
Hounslow. 5660

ISLE OF ELY COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments:—

TWO SENIOR ASSISTANT ARCHITECTS, A.P.T. V (£814 17s. 6d. to £994 5s.).

Point of entry subject to previous experience. Applicants should be Registered Architects and preferably Associate Members of the R.I.B.A.

The appointments are subject to the N.J.C. Scheme of Conditions of Service, the Local Government Superannuation Act, and to passing a medical examination.

Applications, giving details of training and experience, together with names of two referees, to be sent to County Architect, County Hall, March Cambs., not later than 10th April, 1957.

R. F. G. THURLOW,

Clerk of the County Council.

County Hall, March, Cambs. 5719

KENT COUNTY COUNCIL

Appointments for work on the Council's extensive building programme are open to Architects able to accept responsibility and display initiative within a group system. Ability for progressive thought on current design and cost problems an advantage.

Candidates must be Associates of the R.I.B.A. Salaries within scales £814—£994 or £727—£907 according to experience. N.J.C. conditions of service. Application forms from the County Architect, Springfield, Maidstone. Closing date 10th April, 1957. 5626

GOVERNMENT OF NORTHERN IRELAND
ASSISTANT ARCHITECT

Applications are invited for the unestablished post of Assistant Architect Class II in the Works Directorate, Ministry of Finance.

The consolidated salary scale is £790 × £25—£840 × £30—£990 × £40—£1,190. Minimum of scale is linked to entry at age 26 plus or minus one increment for each year above or below that age. Maximum entry point £1,030.

Candidates must be Registered Architects by examination, and must have had at least two years' experience in an Architect's Office in the preparation of working drawings for new buildings.

Preference will be given to a suitably qualified candidate who served in H.M. Forces during the 1914-1918 or 1939-1945 wars, provided the Ministry is satisfied that such a candidate is, or within a reasonable time will be, able to discharge the duties of the post efficiently.

Application forms may be obtained from the Director of Establishments, Ministry of Finance, Stormont, Belfast, to whom they must be returned, together with copies of two recent testimonials. 5450

ARCHITECTURAL ASSISTANTS

REQUIRED BY MINISTRY OF WORKS
For employment in London and Provinces on design and detailing work on construction and maintenance of all types of public buildings.

Salary range £500 (age 21) to £790 p.a. London (slightly less elsewhere). 5-day week. 34 weeks' annual leave initially. Starting pay according to age, qualifications and experience. Good prospects of promotion with salaries of £925 p.a. and above. Opportunities for permanent posts leading to pensions (non-contributory). Interviews at Regional Offices where possible. Applicants should be of Intermediate R.I.B.A. standard.

State age, training and experience to Chief Architect, Ministry of Works (H), Abell House, John Islip Street, S.W.1. 5387

BOROUGH OF SCARBOROUGH

QUANTITY SURVEYOR

Applications are invited for the appointment of a Quantity Surveyor at a salary in accordance with the scale for Special Classes of Officers (£707 5s. to £861 per annum), the starting salary depending on qualifications and experience.

Applicants should have experience in taking-off quantities for architectural works and in measuring for interim and final accounts. The appointment will be subject to the provisions of the Local Government Superannuation Acts, 1957/1953, and to the passing of a medical examination, and will be terminable by one month's notice on either side. In a suitable case the Council would be prepared to assist in the provision of housing accommodation and the payment of part removal expenses.

Applications, in envelopes endorsed "Quantity Surveyor," stating age, present and previous appointments, training, qualifications and experience, together with the names of two referees, must be delivered to the undersigned not later than Saturday, the 6th April, 1957.

H. V. OVERFIELD,

Borough and Water Engineer.

Town Hall, Scarborough. 5674

BRITISH ROAD SERVICES, LTD. have the following vacancies in the New Works Section of their Surveying and Architectural Department. The Office is located in London, but work on projects in various parts of the country will involve travel.

S.V.6. SENIOR ARCHITECTURAL ASSISTANT.

Applicants should be over 35 years of age, architects of considerable experience, preferably on industrial work, and have sound constructional knowledge; additional experience of a civil engineering nature would be an advantage. Salary range £1,190—£1,290.

S.V.7. ARCHITECTURAL ASSISTANTS.

Applicants must be architects of wide experience and able to handle projects from sketch designs to completion, including the preparation of working and detailed drawings and specifications and supervision of work. Salary ranges (a) £765—£795/£830—£900; (b) £945—£995/£1,035—£1,135, according to qualifications and experience.

S.V.8. SENIOR CLERK OF WORKS.

Applicants should have some years' experience as clerk of works in addition to a sound training and experience in one of the building trades. Appointment will involve considerable travelling away from the London area. Salary range £765—£795/£830—£900, according to qualifications and experience.

Applications, giving age, experience and qualifications, to Personnel Officer, British Road Services, Ltd., 222, Marylebone Road, London, N.W.1. 5665

FIFE COUNTY COUNCIL

DIRECT LABOUR MANAGER

Applications are invited for the above new appointment. Duties to be undertaken will include responsibility for the carrying out of new Building Works, also the repair and maintenance of all Council owned properties. Applicants must have experience in the carrying out of large Building and Civil Engineering Works by means of Direct Labour or Contract. A salary commensurate with the position will be paid, not less than £1,250 per annum, according to experience and qualifications. Housing accommodation may be available if required. Medical examination for admission to superannuation scheme. Applications, quoting DL/U, and stating age, experience and qualifications, accompanied by copies of recent testimonials, to be lodged with the undersigned not later than 3rd April, 1957.

MATTHEW POLLOCK,

County Clerk.

County Buildings, Cupar-Fife. 5726

BOROUGH OF MANSFIELD
APPOINTMENT OF ARCHITECTURAL ASSISTANTS

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:—

(a) ARCHITECTURAL ASSISTANT. Special Grade (£690 × £30—£840).

(b) ARCHITECTURAL ASSISTANT. Grade II (£595 × £20—£675).

Applicants for (a) must have passed parts I and II of the R.I.B.A. Final or equivalent, and had at least 5 years' experience (including training), and for (b) must have had "recognised" training and have passed the R.I.B.A. Intermediate Examination.

These appointments are subject to the provisions of the Superannuation Acts; the passing of a medical examination and the N.J.C. conditions of service. Service tenancy houses are available.

Applications, giving details of present and previous appointments, age, experience, and names and addresses of three referees, should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield to arrive not later than Tuesday, 9th April, 1957.

A. C. SHEPHERD,

Town Clerk.

Carr Bank, Mansfield. 5673

URBAN DISTRICT OF FELTHAM
APPOINTMENT OF TWO ARCHITECTURAL ASSISTANTS

Applications are invited for the following appointments on the Council's unestablished staff at salaries within the Grades stated, according to qualifications and experience.

(1) ARCHITECTURAL ASSISTANT. Grade A.P.T. IV (maximum salary £907 2s. 6d. per annum, plus London "weighting").

(2) ARCHITECTURAL ASSISTANT. Grade A.P.T. II (maximum salary £691 17s. 6d. per annum, plus London "weighting").

Forms of application, obtainable from the undersigned, must be returned accompanied by copies of two testimonials, not later than 5th April, 1957. Canvassing directly or indirectly will disqualify, and applicants must disclose in writing whether to their knowledge they are related to any member of or the holder of any senior office under the Council.

M. W. COUPE,

Clerk of the Council.

Council Offices, Feltham, Middlesex. 5668

CITY OF BELFAST

Applications are invited for the following posts in the Education Architect's Department.

ARCHITECT, Class I.
Candidates must be Registered Architects, qualified by examination, experienced in modern school design and construction. Salary £930 × £30—£990 × £40—£1,190.

ARCHITECT, Class II.
Candidates must be Registered Architects, with experience in general design, construction and supervision of alterations and additions to existing buildings, and be capable of supervising architectural staff.

Salary £885 × £30—£885 × £35—£990.
Candidates must have passed the Intermediate Examination of R.I.B.A. and should have a sound practical experience in design and construction, and preparation of specifications. Salary £540 × £25—£665 × £30—£755 × £35—£790.

The commencing salary in each case will be fixed according to qualifications, ability and experience. Superannuation contributions of approximately 6 per cent of remuneration will be payable. Reciprocal pension arrangements exist between the Corporation and other Public Authorities.

Favourable consideration will be given to the recruitment, up to a limit of 50 per cent., of the removal expenses of a newly appointed officer coming to reside in Belfast.

Canvassing will disqualify.
Application forms, etc., are obtainable from the Education Office, Academy Street, Belfast.

Completed applications must reach the undersigned by Friday, 12th April, 1957.

JOHN DUNLOP,

Town Clerk.

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

14th March, 1957. 5671

SOUTH CAMBRIDGESHIRE RURAL DISTRICT COUNCIL
APPOINTMENT OF ASSISTANT ARCHITECT
 Applications are invited for the appointment of Assistant Architect in the department of the Council's Architect. Salary within the range of A.P.T. III (£656—£784 2s. 6d.) or the Special Grade (£707 5s.—£861), according to qualifications and experience.

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

Forms of application can be obtained from the undersigned, to whom they must be returned not later than first post on Saturday, the 6th April, 1957.

Housing accommodation in the Rural District may be provided for the successful candidate if required.

Canvassing, directly or indirectly, will disqualify.

B. G. CRAFT,

Clerk to the Council.

County Hall, Hobson Street, Cambridge.
 18th March, 1957. 5663

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE
 Applications are invited for the post of ASSISTANT ARCHITECT on the staff of the Buildings Officer and Architect. Salary in the scale £902 × £41—£1,107 p.a. The post is superannuable. Applicants should have particular experience in design and should be school-trained with at least 4 years' practical experience. Duties may include work on buildings for teaching and research, students' hostels, staff residences, general purposes buildings and services. Applicants must be Registered Architects. Further particulars may be obtained from the Registrar, The College, Keele, Staffs., to whom 3 copies of application giving full details of age, qualifications, experience, etc., and names of three referees should be sent within 10 days of publication of this advertisement. 5637

EAST ANGLIAN REGIONAL HOSPITAL BOARD
 Department of the Regional Architect (Guy Aldis, A.R.I.B.A., A.A.Dipl.) for planning of a scheme for the major development of a General Hospital which the Board has commenced.

(1) ASSISTANT ARCHITECTS. Candidates must be qualified and registered architects, and have had good general experience in design, construction and specification writing. Knowledge of hospital work desirable. Salary £680—£985; additional increments within scale based on experience and age may be granted.

(2) ARCHITECTURAL ASSISTANTS. Candidates must have passed the Intermediate Examination of the R.I.B.A. or equivalent. Salary £510 (at 21 or over)—£710 per annum; entry point may be fixed above minimum, but will not exceed £590.

Applications, indicating post and stating age, qualifications, experience, and details of present position, with names of three referees, to Secretary of Board, 117, Chesterton Road, Cambridge, by 15th April, 1957. 5698

AIR MINISTRY require WORKERS-UP in Quantities Division, London. Must be fully experienced and competent to work-up entire bills of quantities. Preference holders C. & G. (Quantities), O.N.C. or equivalent technical qualification. Salary range £660 at age 25 to £980, starting pay dependent on age, qualifications and experience. Pensionable and promotion prospects. 5-day week. Over 3 weeks' leave. Applicants normally should be natural born British subjects. Write, stating age, qualifications and previous appointments, including type of work done, to A.A.242 London Appointments Officer, Ministry of Labour and National Service, 1-6, Tavistock Square, London, W.C.1. by 29th April, 1957. No original testimonials should be sent. Only candidates selected for interview will be advised. 5681

CITY ARCHITECT'S OFFICE, MANCHESTER
 Applications are invited for the following appointments on the permanent staff:—

(1) SENIOR ASSISTANT ARCHITECT. Salary: A.P.T. Grade V (£814 17s. 6d. to £994 5s. per annum).

(2) SENIOR ASSISTANT ARCHITECT. Salary: A.P.T. Grade IV (£727 15s. to £907 2s. 6d. per annum).

(3) ASSISTANT ARCHITECT or ARCHITECTURAL ASSISTANT. Salary: Basic Grade (£707 5s. to £861 per annum).

(4) SENIOR ASSISTANT STRUCTURAL ENGINEER. Salary: A.P.T. Grade IV (£727 15s. to £907 2s. 6d. per annum).

(5) STRUCTURAL ENGINEERING ASSISTANT. Salary: A.P.T. Grade I/II (£543 5s. to £691 17s. 6d. per annum).

(6) SENIOR ASSISTANT HEATING, VENTILATING and MECHANICAL ENGINEER. Salary: A.P.T. Grade IV (£727 15s. to £907 2s. 6d. per annum).

(7) SENIOR ASSISTANT ELECTRICAL ENGINEER. Salary: A.P.T. Grade IV (£727 15s. to £907 2s. 6d. per annum).

(8) ASSISTANT QUANTITY SURVEYOR or QUANTITY SURVEYING ASSISTANT. Salary: Basic Grade (£707 5s. to £861 per annum).

Forms of application from City Architect, P.O. Box 498, Town Hall, Returnable by 12th April, 1957. 5736

CITY OF SALISBURY SOUTHERN RHODESIA VACANCY—SENIOR ARCHITECT (£1,725 × £50—£1,875 per annum).

Applicants should be Associates of the Royal Institute of British Architects, and have extensive experience in designing, supervision, and administrative work.

The Council will refund travelling expenses on the following basis:—

Person appointed—£102 in respect of sea passage from U.K. to port of disembarkation in Africa, plus first-class single rail fare to Salisbury.

Wife of person appointed—£66.
 Children of person appointed, who are under the age of 16 years—first child £26 8s., remaining children £13 4s. each.

The successful applicant will be required to submit a satisfactory medical certificate, serve a probationary period of six months, and if thereafter confirmed in his appointment to join the Southern Rhodesia Local Authorities Joint Pension and Widow and Orphans' Fund. No allowances are payable, and entry will be at the minimum of the grade.

Unfurnished accommodation will be provided for a period of two years at the rental ruling from time to time.

Applications, stating age, place of birth, nationality, marital state, qualifications and experience, and earliest date duties could be commenced, together with names of three referees, should be sent by Air Mail to the City Architect, P.O. Box 382, Salisbury, Southern Rhodesia. 5744

METROPOLITAN BOROUGH OF FULHAM ASSISTANT ARCHITECT, A.P.T. III OR IV BOROUGH ARCHITECT'S AND HOUSING DEPARTMENT
 £686—£814 2s. 6d. or £757 15s.—£937 2s. 6d. p.a. including £30 p.a. London weighting, according to qualifications and experience.
 The work will be primarily concerned with the layout and design of housing schemes, comprising multi-storey dwellings. Application form from Town Clerk, Town Hall, S.W.6. Closing date: 5th April. 5710

STAFFORDSHIRE COUNTY COUNCIL APPOINTMENT OF SENIOR PLANNING ASSISTANT

Applications are invited for an appointment as a Senior Planning Assistant in the County Planning and Development Department, on A.P.T. Grades V-VI (£814 17s. 6d. to £1,107 per annum), the commencing salary to be according to qualifications and experience.

Applicants should be qualified Architects, and membership of the Town Planning Institute would be an advantage.

The person appointed will be mainly engaged on the preparation of layouts for new development and for redevelopment and civic design schemes.

Consideration will be given to the granting of financial assistance in appropriate cases towards removal expenses. Canvassing will disqualify.

Applicants should give details of age, education, technical training, qualifications, present and previous appointments and experience, and the name of two persons to whom reference can be made. Applications, in which relationship to any member or senior officer of the County Council should be disclosed, should be sent to D. W. Riley, County Planning and Development Officer, 41a, Eastgate Street, Stafford, not later than 6th April, 1957.

T. H. EVANS,

Clerk of the County Council.

5713

CRAWLEY DEVELOPMENT CORPORATION require a LANDSCAPE ARCHITECT in the Chief Architect's department. Applicants should be experienced and be Fellows or Associates of the Institute of Landscape Architects (additional architectural and/or town planning qualifications an advantage). Salary A.P.T. VII to IX (£999—£1,405).

The successful applicant will be required to advise the Chief Architect on matters of landscape design, take charge of the landscape section, liaise with any consultants appointed, and be responsible for the design and supervision of large contracts. The work is varied and includes landscape treatment of classified roads, housing, industrial, afforestation schemes.

Contributory superannuation. Commencing salary according to ability and experience. Apply on forms from Chief Architect (Vacancy), Broadfield, Crawley, Sussex, by the 15th April, 1957.

C. A. C. TURNER,

Chief Executive.

5682

LANCASHIRE COUNTY COUNCIL SECTIONAL PLANNING OFFICER, A.P.T. Grade V (£814 17s. 6d.—£994 5s.) required at Divisional Planning Office, Wigan. Candidates should be qualified architects, surveyors or engineers; a planning qualification in addition would be an advantage.

Experience in Town Map preparation and a sound knowledge of Town and Country Planning legislation are essential.

Applications, giving age, qualifications, present appointment, experience, etc., and two referees, to County Planning Officer, East Cliff County Offices, Preston, by 8th April, 1957. 5685

LONDON COUNTY COUNCIL
 (1) LANDSCAPE ARCHITECT, and (2) LANDSCAPE ARCHITECTURAL ASSISTANTS required. Good Drawing Office experience in preparing working drawings and specifications, and supervision of work on site essential. Programme includes new parks, gardens and playing fields, ground reinstatement, land drainage, etc.

(3) ARCHITECTURAL ASSISTANT for Crystal Palace development, offering special opportunities for work on the contemporary design of park buildings.

Salaries within the range £606—£1,036 a year, according to qualifications and experience.

Apply, giving brief particulars, to Chief Officer of the Parks Department, Old County Hall, Spring Gardens, S.W.1. (Whitehall 3121, ext. 33.) (539) 5727

CITY OF WINCHESTER CHIEF ASSISTANT ARCHITECT

Applications are invited from qualified Architects for the appointment of Chief Assistant Architect in the City Engineer's Department at a salary in accordance with Grade V of the A.P.T. Division of the National Scales (i.e., £814 17s. 6d.—£994 5s.).

Candidates should be Corporate Members of the Royal Institute of British Architects, and have had previous experience in the design and preparation of plans and details for houses on Municipal Housing Estates, including the supervision of work under contract. The work envisaged will include infilling in redevelopment areas in addition to normal housing estate work.

The appointment is a permanent one, terminable on either side by a month's notice in writing, and the successful candidate will be directly responsible to the City Engineer. Consideration will be given to the provision of housing accommodation.

Applications, stating age, present salary, present and previous appointments, details of training and experience, together with names of three referees, should be addressed to the City Engineer, Guildhall, Winchester, and should be received by not later than first post on Monday, 8th April, 1957.

R. H. McCALL,

Town Clerk.

Guildhall, Winchester.
 19th March, 1957. 5702

BOROUGH OF STOCKTON-ON-TEES ASSISTANT QUANTITY SURVEYOR

Applications are invited for the above appointment in the Borough Architect's Department. Salary £907 2s. 6d. per annum, maximum Grade A.P.T. IV.

Candidates should have passed the Final Examination of the R.I.C.S., or be of equivalent standard.

Forms of application may be obtained from the Borough Architect, 28, The Square, Stockton-on-Tees, and must be returned to him by 5th April.

Housing accommodation available if the successful applicant is married.

The department is responsible for all new building work for the Corporation, and the person appointed will be required for the first instalment of the Municipal Buildings, an extensive school building programme, the redevelopment of the Central Area of the Borough, and the construction of approximately 500 houses and flats per year and ancillary buildings.

JOHN B. HAWORTH,

Town Clerk.

Barclays Bank Chambers,
 49, High Street, Stockton-on-Tees. 5697

STEVENAGE DEVELOPMENT CORPORATION

Applications are invited for the post of ASSISTANT LANDSCAPE ARCHITECT in the Chief Architect's Department on salary A.P.T. Grade IV (£728—£907), starting salary according to experience.

Candidates should have passed the Final Examination I.L.A. and be experienced in the layout of open space in housing areas.

Housing accommodation will be available in due course in an appropriate case.

Applications, giving full details and names of two referees, to be sent to the Chief Administrative Officer, Aston House, Stevenage, Herts., not later than Thursday, 4th April, 1957. 5693

BOROUGH OF LEYTON

Applications are invited for the appointment of SENIOR ARCHITECTURAL ASSISTANT at a salary of £814 17s. 6d., rising to £994 5s., plus London weighting (£30 per annum at age 26 years or over), in accordance with Grade A.P.T. V of the National Scheme of Salaries.

Applicants must be Associates of the Royal Institute of British Architects and have had considerable experience of local authority building projects of all types.

The Council is unable to assist with the provision of housing accommodation.

Forms of application and full details of the appointment can be obtained from the Borough Engineer and Surveyor, by whom completed applications must be received not later than Saturday, 6th April, 1957.

D. J. OSBORNE,

Town Clerk.

Town Hall, Leyton, E.10.
 18th March, 1957. 5691

LINDSEY COUNTY COUNCIL
PLANNING DEPARTMENT

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT. A.P.T. Grade V (£1814 17s. 6d.—£994 5s.).

(b) ASSISTANT. A.P.T. Grade III and special grade (£656—£861).

(c) ASSISTANT. A.P.T. Grade II (£609 17s. 6d.—£691 17s. 6d.).

All appointments at Headquarters, Lincoln.

Qualifications for (a): A.R.I.B.A. or A.M.T.P.I. Preference will be given to candidates with architectural experience in dealing with redevelopment schemes, housing layout, and architectural control.

Candidates for (b) and (c) must have passed Intermediate Examination of T.P.I. and have experience in surveys for and preparation of Town Maps. Promotion from A.P.T. III to special grade in case of (b) will be dependent on officer passing T.P.I. final and having 5 years' experience.

Appointments (a) and (b) require officers to provide own cars for official journeys, for which an allowance will be paid at essential users' rate for cars not exceeding 10 h.p. or 1.199 c.c.

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

Applications, with particulars of age, training, experience and names of two referees, to County Planning Officer, The Castle, Lincoln, not later than 8th April, 1957. 5699

Applications are invited from men over 45 years of age for the post of PRINCIPAL of the National College of Arts, Lahore, West Pakistan. Salary: Rs. 1,500×100—2,000 p.m., plus overseas allowance of £30 p.m. Starting point according to qualifications and experience. 1R=1s. 6d.

Conditions: 5 years' contract, renewable. Free 1st class passages. Unfurnished house provided. Medical facilities. Summer vacations (2 months).

Qualifications: Associate of the Royal College of Arts or equivalent. Considerable administrative and teaching experience.

Eligibility: No restrictions in nationality or domicile, but good knowledge of English essential.

Application forms and further particulars from the Recruitment Officer, Education Division, Pakistan High Commission, 39, Lowndes Square, London, S.W.1. 5677

THE MILK MARKETING BOARD require an ASSISTANT in their Architect's Department capable of preparing working drawings and details and able to make field surveys and surveys of existing buildings. Preference will be given to applicants who have already passed their Intermediate R.I.B.A. Examination. Applications in writing, stating age, previous experience, and salary required, to the Senior Staff Officer, Milk Marketing Board, Thames Ditton, Surrey. 5711

Applications are invited for the post of SENIOR LECTURER IN ARCHITECTURE at Rangoon University, Burma, under the Technical Co-operation Scheme of the Colombo Plan. Will be required to teach Architecture up to University degree standard. Must be a qualified Architect, and should have at least 5 years' professional or teaching experience. Salary £1,750 per annum a year (subject to U.K. income tax), plus tax-free overseas allowance of £1,745 p.a. (married) or £913 p.a. (single), plus other allowances. Furnished accommodation provided. Duration two years. Contract with U.K. Government. For further information and application forms write Ministry of Labour and National Service (E.9), Almack House, King Street, London, S.W.1, quoting A12/BUR/TCS/92. 5680

THE UNIVERSITY OF SHEFFIELD
Applications are invited for the post of ARCHITECTURAL ASSISTANT on the staff of the University Surveyor.

Applicants should be suitably qualified and capable of preparing plans and details, and of supervising conversion projects and other minor works. The post is permanent. Commencing salary £750.

Superannuation scheme and child allowance. Applications, with names of two referees, to The Bursar, University of Sheffield, Western Bank, Sheffield, 10, by the 8th April, 1957. 5678

THE SOUTH WALES ELECTRICITY BOARD require an ARCHITECTURAL DRAUGHTSMAN at the Head Office of the Board, St. Mellons, Cardiff.

Salary: Schedule D, Grade 6 (£560—£680), of the N.J.B. Schedule.

Applications, stating age, present position and salary, qualifications, experience and three referees, should be addressed to the Secretary (Establishments Section), to arrive by 8th April, 1957.

R. G. WILLIAMS,

Secretary.

St. Mellons, Cardiff.

Architectural Appointments Vacant

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

W. H. WATKINS, GRAY & PARTNERS
require qualified ASSISTANTS for interesting hospital work, pension scheme in operation. Write or 'phone, 57, Catherine Place, S.W.1. Victoria 7761. 5495

CROYDON. SENIOR AND JUNIOR ASSISTANTS required for interesting and varied work. The former able to manage contracts and the latter with general office experience. Write in both cases giving age, experience and salary required, to George Lowe & Partner, F.A.R.I.B.A., 4, High Street, Croydon. 5451

ARCHITECTURAL ASSISTANT required in West End office. Should have some experience of general procedure, including site supervision, etc., in addition to good standard of draughtsmanship and building construction. State age, experience and salary required. Box 5511.

ASSISTANT ARCHITECTS AND SHOP-FITTING DRAUGHTSMEN. Co-operative Wholesale Society, Ltd., invite applications for the following appointments: (1) Assistant Architects capable of preparing working drawings from preliminary details. (2) Shopfitting Draughtsmen with experience in Shop Equipment and modernisation of Interiors.

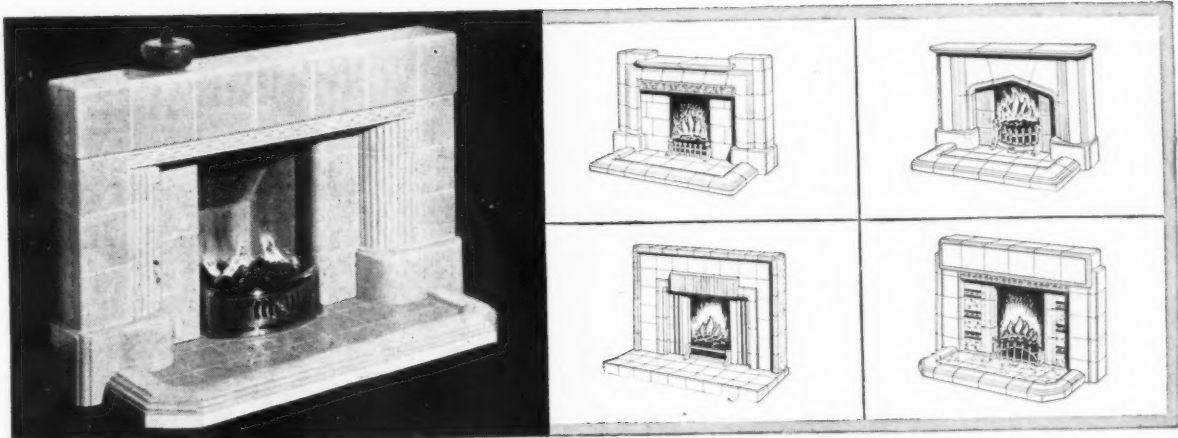
The posts are pensionable, subject to medical examination. Five-day week in operation. Applications, giving age, details of experience and salary required to W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1. 4977

ASSISTANT required for office with town and country work. State experience and present salary. Excellent prospects for the right man. Box 5674.

TWO ARCHITECTURAL ASSISTANTS of intermediate standard required for interesting work in varied practice. Shops, Offices, Flats and Housing schemes, etc. Salary by arrangement. George Watt, A.R.I.B.A., 146, Mostyn Road, Merton Park, S.W.19. LIB 8181. 5431

VACANCIES for ARCHITECTURAL ASSISTANTS, particularly Junior and Intermediate grades. Applicants with knowledge of commercial work and London experience an advantage. Varied practice, five-day week. Lewis Solomon, Son & Joseph, 21, Bloomsbury Way, London, W.C.1. Holborn 5108. 3152

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ROYAL VENTON

ARCHITECTURAL ASSISTANT required, with about four to five years' office experience. Write or telephone giving full particulars, including age and salary, to Hasker & Hall, Architects, 13, Welbeck Street, W.1 (WELbeck 0061). 5306

BUSY progressive office, Sheffield area, wide experience, require immediately **JUNIOR** and **SENIOR ASSISTANTS**, Intermediate or Final R.I.B.A. Good salary and bonus, together with permanency, for suitable applicant.—Please apply Box 5595.

ARCHITECTS' Co-partnership require **QUALIFIED ASSISTANTS** with experience. Write 44, Charlotte Street, W.1, or telephone Langham 5791. 5482

FARMER & DARK have vacancies for an experienced **ASSISTANT ARCHITECT** and **JUNIOR ASSISTANT ARCHITECT** for industrial projects. Five-day week. Applications marked "Confidential" with full particulars and salary required to: Farmer & Dark, Romney House, Tufton Street, Westminster, S.W.1. 5717

ASSISTANT required for office with town and country work. State experience and present salary. Excellent prospects for the right man. J. H. Martindale & Son, Cathedral Chambers, Castle Street, Carlisle. 5331

LANCHESTER & LODGE urgently require **MALE ASSISTANTS** of all grades up to £750 p.a. Five-day week and luncheon vouchers. Ring Museum 0845 for appointment or write full particulars, 10, Woburn Square, W.C.1. 5709

ARCHITECTURAL ASSISTANT required for a general practice, chiefly domestic and agricultural work. Intermediate R.I.B.A. standard desirable. Applications from more senior men and women would be considered. Salary by arrangement. Smith-Woolley & Cartners, Collingham, Newark, Notts. 5714

JUNIOR ASSISTANT required for busy drawing office. Should be capable draughtsman, preferably with surveying experience. Write stating age, training and experience to A. C. Draycott, Lancing, Sussex. 5712

ASSISTANT wanted for small private practice. Write brief details to T. A. Bird, 13, Welbeck Street, W.1. 5715

ASSISTANT ARCHITECT approximately Intermediate standard required in Consulting Engineers Architectural Group site office, Berkeley Power Station, Glos. Please reply to Box No. 699, Glovers, 351, Oxford Street, London, W.1. 5716

ARCHITECTURAL ASSISTANT wanted for a responsible position in small busy West End office. At least Intermediate standard with ability in design and working drawings. Holiday arrangements respected. Reply, stating age, qualifications and salary required to Box 5718.

ARCHITECTURAL ASSISTANTS are required in the undermentioned Departments of a rapidly expanding East Midlands Manufacturing concern marketing prefabricated timber roof systems, timber curtain walling and related products.

DESIGN OFFICE (Senior Assistants)
The successful applicants will be engaged in the preparation of schemes to Architects' requirements, incorporating the Company's products. As the Department expands it is envisaged that these Senior Assistants will develop their own sections. Minimum starting salary £750.

DRAWING OFFICE (Senior Assistants)
The successful applicants will be engaged as Section Leaders in the preparation of working drawings and the supervision of Junior Assistants. Minimum starting salary £700.

(Intermediate Assistants)
These Assistants will be engaged in the preparation of working drawings under Section Leaders. Starting salaries from £500.

It is the policy of the Company to extend personal contact with the profession and to send both Design and Drawing Office personnel to advise and discuss projects in Architects' offices at both sketch scheme and working drawing stages. This policy demands of the applicant a high degree of individual initiative and technical ability.

A compulsory superannuation scheme is in operation.

The office, operating on a five-day week, is centrally situated and offers pleasant working conditions.

Both Departments are controlled by Staff Architects and applicants should in the first instance write for forms of application to Box 5705, endorsing their letters "Design" or "Drawing Office" as applicable.

A SENIOR and a **JUNIOR ASSISTANT** are required by Manchester Practice having varied and interesting work mainly in the contemporary field, including several large-scale projects.

Congential Office, with opportunities for developing own abilities and exercising initiative. Good salaries and prospects offered to suitable applicants. Please write in first instance, with brief details, to Arthur Farebrother & Partners, 99, Seymour Grove, Manchester 16. 5694

ARCHITECTURAL ASSISTANTS of Final or Intermediate R.I.B.A. standard required immediately for West Riding Office. Apply to Box 5708.

COURTNEY, POPE LTD., require **SHOP-FITTING DRAUGHTSMEN**. Write, giving details of experience and salary required to: Amhurst Park Works, London, N.15. 5704

ARCHITECTURAL ASSISTANT, with drawing office experience required for small general practice. Salary range £500-£600. R. Jelinek-Karl, F.R.I.B.A., 22, Chancery Lane, W.C.2. 5703

YOUNG QUALIFIED ASSISTANT ARCHITECT with office experience required to assist with new building schemes throughout the country. Capable designer. Interest in contemporary shopfitting an advantage. Willing to travel. Applications, stating age, qualifications and experience, to Staff Architect, Prices Tailors Ltd., Cardigan Crescent, Leeds, 4. 5700

ARCHITECTURAL ASSISTANT of Intermediate standard with office experience capable of preparing working drawings and details. Interest in contemporary shopfitting an advantage. Applications, stating age, qualifications and experience, to Staff Architect, Prices Tailors Ltd., Cardigan Crescent, Leeds, 4. 5701

THE REED PAPER GROUP require the services in Kent of an **ARCHITECTURAL ASSISTANT** for the preparation of working drawings and details. Applicants should be under 25 years of age and of Intermediate standard. Excellent conditions of service include non-contributory pension scheme. Full particulars to the Group Personnel Officer, Albert E. Reed & Co. Ltd., Larkfield, Nr. Maidstone, Kent, quoting Ref. 18/A. 5690

ARCHITECTURAL ASSISTANT, Intermediate standard, required urgently in Cirencester. Service bungalow becoming available. Applications stating experience and salary required to: Eric Cole & Partners, Dyer Street House, Cirencester. 5686

QUALIFIED ARCHITECTURAL ASSISTANTS urgently sought for interesting posts in expanding practice in West Africa. Full details from Box 5683.

VERNER REES, LAURENCE & MITCHELL have vacancies for **SENIOR ASSISTANTS** for varied work, with opportunity for taking responsibility and supervision of work in progress. Salary according to age and type of experience. Apply by letter to 51, Queen Caroline Street, W.6. 5684

INTERMEDIATE ASSISTANT required. Interesting work of contemporary nature. Salary up to £850 p.a. according to capabilities. Apply Morris de Metz, F.R.I.B.A. City 4086. 5676

WANTED in London Office of A.R.I.B.A. engaged on work for Housing Company. **ARCHITECTURAL ASSISTANT**, Intermediate R.I.B.A. standard. Experience in preparation of Sketch Designs, Working Drawings and Specifications essential. Salary according to experience and capabilities. Box 5675

ASSISTANT of Intermediate standard required in small London Office. The work is contemporary and of a commercial and industrial nature. Phone SLOane 7287. 5667

ARCHITECT: Required, two **ASSISTANTS**, for leading West End Architect's Office. Good prospects for young men with L.R.I.B.A. Degree or at least two years' training in Technical College. Apply stating qualifications and salary required to Box 5669.

YOUNG ARCHITECT with contemporary outlook required by leading West End firm to deal with interior design, housing, general building and decorating work of wide interesting variety, and development to own premises. Write stating salary, age, experience, etc., to Box 5664.

QUALIFIED ASSISTANTS required, thoroughly experienced in provincial town practice. Salary £800 to £1,000. F. J. Lenton & Partners, Stamford and Grantham. 5687

JUNIOR ASSISTANT with approximately two years' drawing office experience required for Architect's Dept., primarily for extension of modernisation programme. Commencing salary £400-£450 p.a. depending on experience and ability. Travelling in Gt. Britain. Five-day week. Canteen facilities. Write with full details posts held, education, age, National Service, to Mac Fisheries Ltd., Architects Department, 10/12, Little Trinity Lane, London, E.C.4. 5743

SAXON SNELL & PHILLIPS require experienced **ASSISTANTS** for work in connection with hospitals. Write or telephone, 9, Bentinck Street, Manchester Square, London, W.1. Welbeck 2827. 5732

ARCHITECTURAL ASSISTANT required, Intermediate standard, for small office in Epsom, to work on schools; salary by arrangement. Frank Rutter, F.R.I.B.A., 7, St. Martin's Avenue, Epsom, Surrey (Epsom 5231). 5731

ARCHITECTURAL ASSISTANT required for a small general practice in Yorkshire near Leeds and Doncaster. Write giving particulars of age, experience and salary required. Box 5742.

GOOD DESIGNER, Final standard, interested in new materials and building costs, to take responsibility for smaller contracts. State background, experience, ideas and sordid details of salary requirements, etc., to Brunton, Baden Hellard & Partners, 96 Eltham Road, Lee, S.E.12. 5733

ARCHITECTS ASSISTANT required for a General Practice. Intermediate R.I.B.A. or more senior standard. Floyd, Robson & Paul, Chartered Architects, St. Nicolas House, West Mills, Newbury. 5734

EXPERIENCED ARCHITECTURAL ASSISTANT required. Reply to Box 5738, stating salary required and full details of previous work.

CHICHESTER architect has vacancy for qualified **ASSISTANT**, office experience essential. New furnished country cottage may be available. Please give full particulars and salary required. E. Brian Tyler, F.R.I.B.A., Westgate. 5739

ERNO GOLDFINGER requires qualified **ARCHITECTURAL ASSISTANTS**, with office experience. Write 69/70, Piccadilly, London, W.1, or phone HYde Park 5210/5657. 5740

If you are interested in gaining practical experience there is a job waiting for a man of common sense and good draughtsmanship in the West End of London. Five-day week. Box 5729.

INTERMEDIATE ASSISTANT required. Interesting work of contemporary nature. Salary up to £850 p.a. according to capabilities. Apply Morris de Metz, F.R.I.B.A. City 4086. 5722

QUALIFIED LADY ASSISTANT, some experience, interested business administration, busy practice, required deputise senior partner, good salary and prospects. Box 5720.

HARROW Office requires **ASSISTANTS**. One Intermediate standard, experienced working drawings, surveys, etc. One Junior with some experience.—Please write full particulars, including salary required, to Field & Shaw, 40, Station Road, N. Harrow, Middx., Chartered Architects. 5721

TAKER-OFF. Applications are invited from experienced and suitably qualified persons in an R.I.C.S. approved office. Salary on the scale £850-£1,005, inclusive of L.W., with placing according to age, qualifications and experience. The post is superannuable, subject to medical examination. Five-day week in operation. Applications, stating age, experience, qualifications and salary required to: W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1. 5512

WANTED, qualified **ARCHITECTURAL ASSISTANTS** for West End office, preferably with experience in modern office blocks. Varied practice of a contemporary nature. Telephone for appointment, Langham 7236.—Theo. H. Birks, F.R.I.B.A. 5610

ARCHITECT wanted by expanding firm of Builders and Developers (Midlands area). Must have experience in layouts, all types residential plans, and capable working up schemes, supervising same, taking off quantities, etc. Sales experience advantageous but not essential. Younger person desired, for whom there are excellent prospects to organise this new department. Applicant must be willing, reliable, and conscientious, and to produce good references. Please give fullest details in first instance, and salary required, in strict confidence, Field, 107, Dale End, Birmingham, 4. 5647

ARCHITECTURAL ASSISTANTS required.—Apply, stating age, qualifications and experience, to Grace & Farmer, 5, Crawford Street, W.1. 5611

ARCHITECTS (W.C.1) require **ASSISTANT**, Intermediate standard or just over. Varied practice. Office experience essential.—Write particulars and salary required.—Box 5643.

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS wanted in office with variety of work on hand, including Office Blocks, Schools, Domestic, Civic and Ecclesiastical Buildings.—Apply in writing to Sir Giles Scott, Son & Partner, 9, Gray's Inn Square, London, W.C.1. 5648

SENIOR ARCHITECTURAL ASSISTANT required for responsible position in connection with industrial and other projects.—Applications, stating training, experience and salary required, to Llewellyn Smith & Waters, 103, Old Brompton Road, S.W.7. 5667

SCHERRER & HICKS, 19, Cavendish Square, W.1, require an **ARCHITECTURAL ASSISTANT**, of Intermediate standard, experienced in working drawings and details.—Write, stating age, experience, and present salary. 5612

EXPERIENCED AND JUNIOR ASSISTANTS required by London Architect for interesting work including hospitals and laboratories, etc. Opportunity to take charge of contracts including site supervision. 5-day week. Salaries £600 to £800 p.a. according to experience. Write, giving details of age and experience, etc., to Box 5550.

ASSISTANT ARCHITECTS required in busy and varied practice with Offices, London, West Riding of Yorkshire and Middlesbrough, as follows: (a) Senior Architects to be Associates of the R.I.B.A., with considerable experience, preferably in schools, commercial or industrial work. Salary £1,000 per annum, according to experience. (b) Qualified Assistant Architects with minimum two years' office experience. Salary £650-£750 per annum, according to experience. (c) Assistant Architects, Inter/Final standard. Salary £550 to £650 per annum, according to experience. Pension Scheme in operation and good prospects for promotion. Apply, with full particulars, to J. G. L. Poulson, Chartered Architect, 29, Ropergate, Pontefract, Yorkshire. 5617

JUNIOR ARCHITECTURAL ASSISTANT required in small busy office in Central London. Write full details and salary required to Box 5745.

ARCHITECTURAL ASSISTANT, Intermediate standard, with experience in preparing working drawings and details, required immediately in Plymouth Architect's office. Full particulars, including age and salary, to Box 5658.

MANCHESTER.—Vacancy exists in private office for an **ASSISTANT ARCHITECT**. Scope for design, initiative, and responsibility at all stages from sketch plan to final account. Age 25/35. Salary £600-£950. Car allowance.—Box 5605.

TWO ARCHITECTURAL ASSISTANTS required in St. Albans office. Intermediate standard—contemporary outlook preferred but not essential—for working on large building projects. Salary by arrangement. Write giving full details of experience, etc., to Box 5540.

Architectural Appointments Wanted

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ARCHITECT (32), married, public school, school trained, A.R.I.B.A. 1953, requires partnership (or position leading to one in agreed period) in London or provinces. Limited capital. Unlimited energy and ambition.—Box 5627.

COMPETENT DRAUGHTSMAN for the preparation of Working Drawings, Tracings, Surveys, etc. Moderate charge.—Box 5658.

A.R.I.B.A., A.M.T.P.I. (28), seeks responsible, busy position in Fylde-Preston area. Experience in estate development, shops, houses, and industrial work. Box 5692.

29-YEAR-OLD A.R.I.B.A. with four years' post graduate experience as Senior Assistant is seeking position in large or small office with plenty of hard work. Anywhere considered. Present salary £900. Box 5689.

A.R.I.B.A. (31), four years' post graduate experience in private offices and one year's Town Planning, desires a responsible position with good prospects outside London. 5724

YOUNG ASSOCIATE, B.Arch. (Liverpool), experienced Hotel, Brewery and Private Practice work, seeks responsible position in busy office any part of country, salary £1,000. Box 5723.

ASSOCIATE, R.I.B.A., aged 38, requires permanent position with definite prospects in private practice or industry. Wide experience, willing to take responsibility, use initiative, and to work hard. Excellent references. Box 5737.

A.R.I.B.A. (41), post-war trained, six years' experience private practices, seeks good position leading to partnership, or responsible position in industry. Car owner and capital available. S.E. England, but London preferred. Box 5741.

ASSOCIATE (32), public school, A.A. trained, five years' experience industrial, commercial, and domestic work, seeks position leading to partnership or small practice, in Eastbourne area. Box 5728.

Other Appointments Vacant

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CIVIL ENGINEERING ASSISTANT required with general experience in all types of factory development, with knowledge of field surveying, foundation work, etc. Applicants who should possess University Engineering degree or parts A and B Institute of Civil Engineering office. Apply in confidence stating age and salary required to Box No. 1648, Smiths 19/21, Corporation Street, Birmingham 2. 5695

GENERAL MANAGER.—A building and contracting organisation, with headquarters in London, invites applications for the post of General Manager. Applicants should be men between 35 and 50, with sound technical qualifications and extensive experience of industrial and domestic building, contracting and jobbing work, and have held a top level executive post for not less than 3 years.

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Please write, giving brief details of qualifications and experience, in strict confidence, to Assistant Director (H23), 14, Welbeck Street, London, W.1. 5649

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JUNIOR ASSISTANT required in small office in London. Will be required to assist generally in the administration of the office and be given an opportunity to study architecture. Previous experience is not essential. Phone: SLane 7287. 5666

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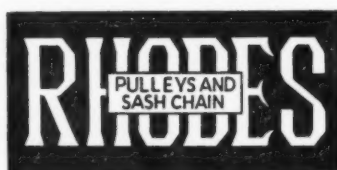
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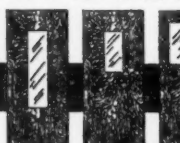
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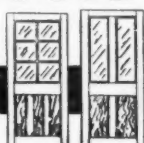


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