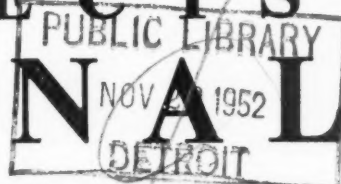


THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

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Astragal's Notes and Topics

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Questions and Answers

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PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

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Wanted and Vacant

No. 3010]

[Vol. 116

THE ARCHITECTURAL PRESS

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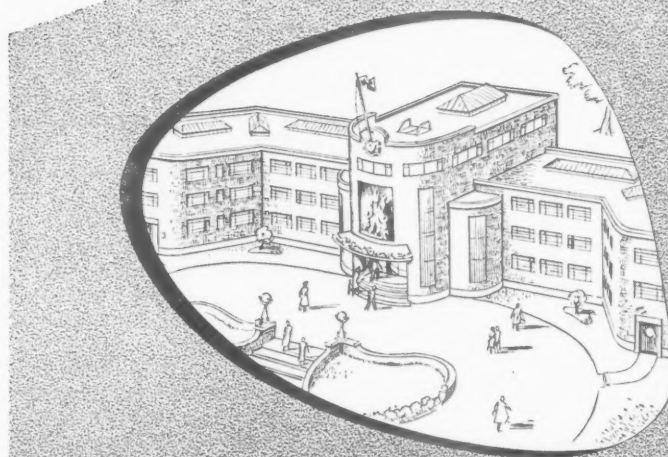
Registered as a Newspaper.

★ 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 Ie one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158/1601
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450 Museum 1783
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	
I of Arb.	Institute of Arbitrators. 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197/5176
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Avenue 6851
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	Modern Architectural Research Group (English Branch of CIAM). Gontran Goulden, Building Centre, 26, Store Street, W.C.1.	Secretary : Museum 5400
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. 23, Saville Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James' Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers, 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4341 Molesey 1380
NPL	National Physical Laboratory. Head Office, Teddington.	City 1476
NSA	National Sawmilling Association. 14, New Bridge Street, E.C.4.	S.W.1. Abbey 1359
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322/9242
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Trafalgar 2366
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571 Abbey 7244
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Mansion House, 3921
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Central 4444 Langham 1984
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	
SNHTPC	Scottish National Housing. Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4.	City 4771
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 75, Cannon Street, E.C.4.	City 5040
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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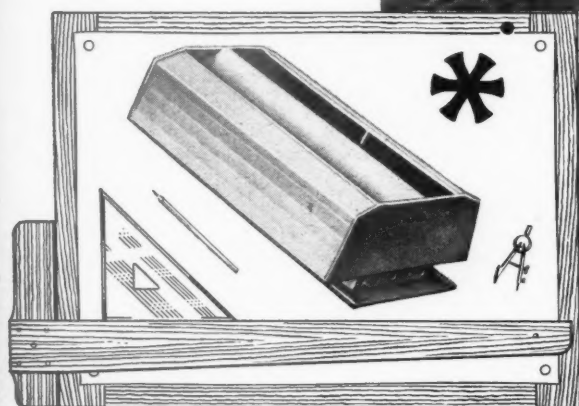
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from whom may be obtained technical literature and the name of the nearest supplier

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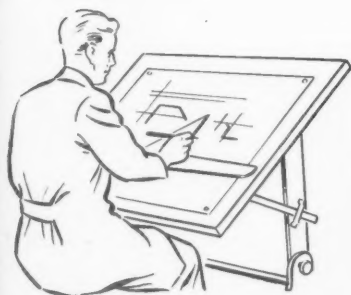


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A.15

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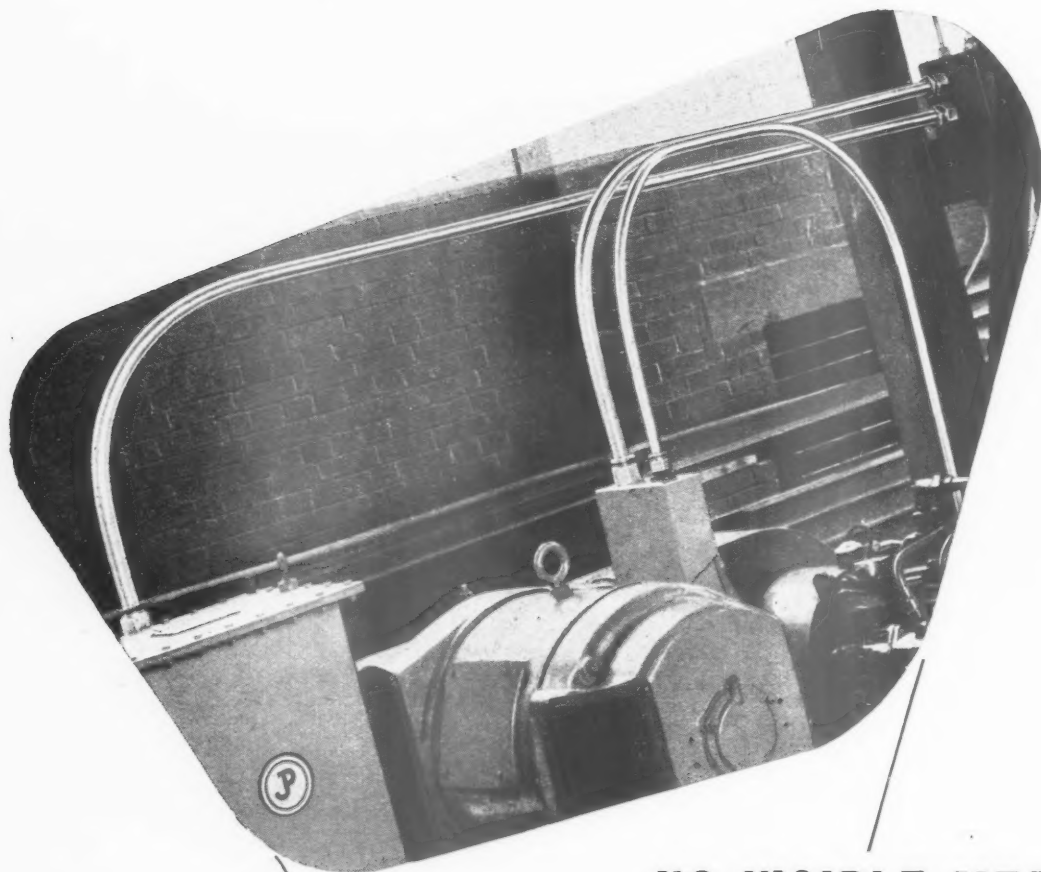
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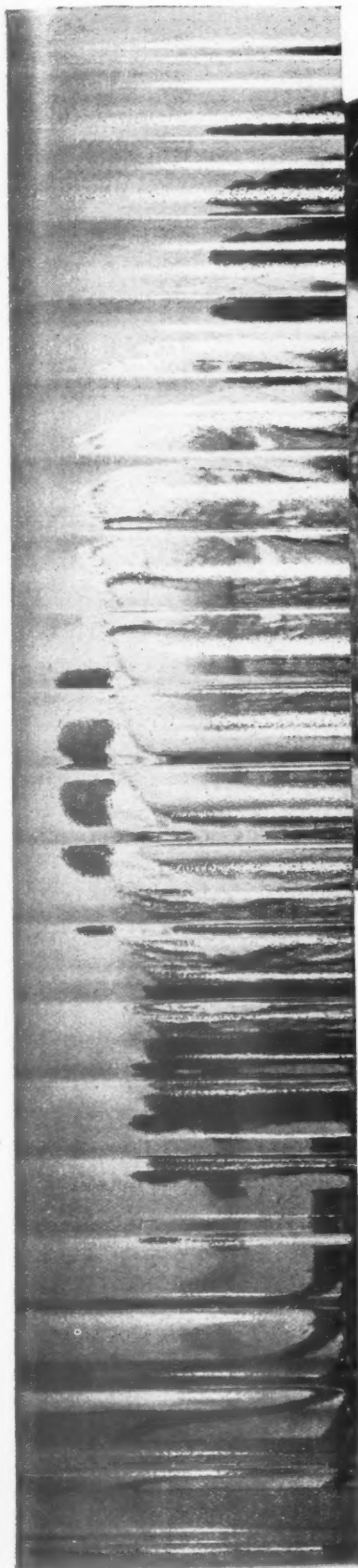
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are excellent glasses for partitioning, borrowed lights and for windows where some obscuration is required. The reeding

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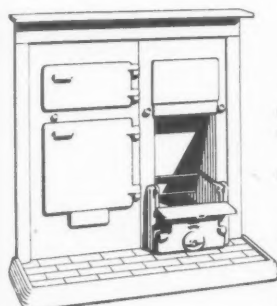
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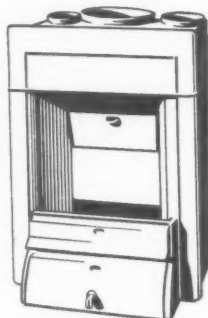
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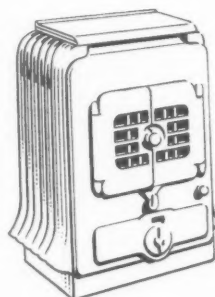
No. 12 YORKIST Combination grate

- Low maintenance costs.
- Simple installation and trouble-free performance.
- Exceptionally fine open fire that burns continuously on any domestic solid fuel.
- Combines excellent cooking and heating performance with low fuel consumption.
- Simple damper control gives user complete command of oven heat and hot water output.



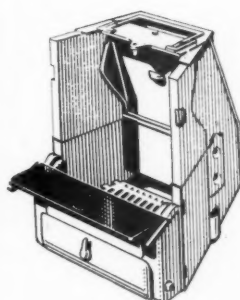
CHEVIN Convector fire

- Provides far-flung warmth from any type of domestic solid fuel, also hot water.
- May be fitted with Chevin, Sutton, Fulham or Cheston all-fuel continuous burning inset grates.
- Built-in gas burner available for all these grates.



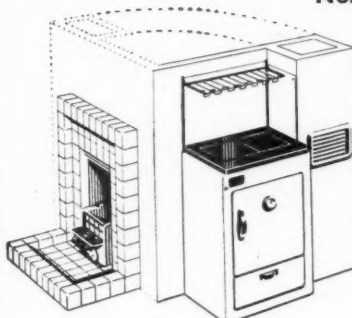
SIESTA 2A Stove

- Noted for high efficiency and low fuel consumption, as are its companion models, the Yorkray and the Cozy.
- Burns day and night on any domestic solid fuel.
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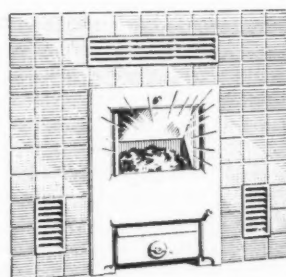
EAGLE Flue set

- Shown here with Loray grate, but can also incorporate the Cheston, Sutton or Fulham grate.
- Free access to boiler and boiler connections.
- Boilers supplied in copper or wrought welded iron.
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- The perfect installation where kitchen and living room adjoin.
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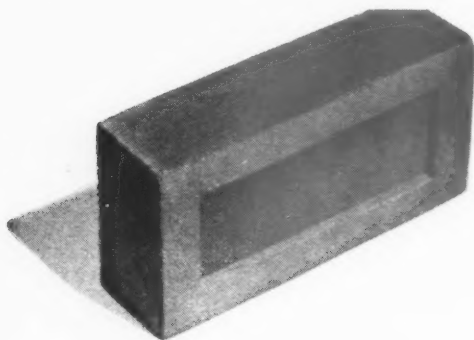


Full details from the Production Centres :

Wilsons & Mathiesons Ltd., Leeds, 12.

The Eagle Range & Grate Co. Ltd., Aston, Birmingham, 6

The Park Foundry (Belper) Ltd., Belper, Derbyshire.



Y. Finding

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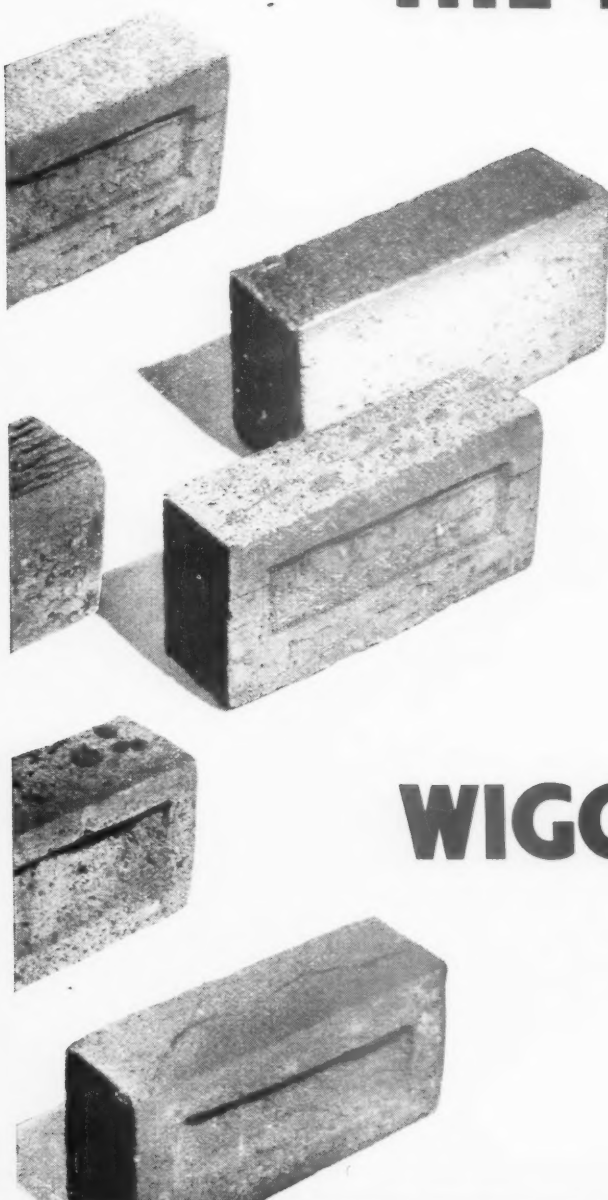
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REGD. TRADE MARK

Asbestos-Cement TRAFFORD TILES

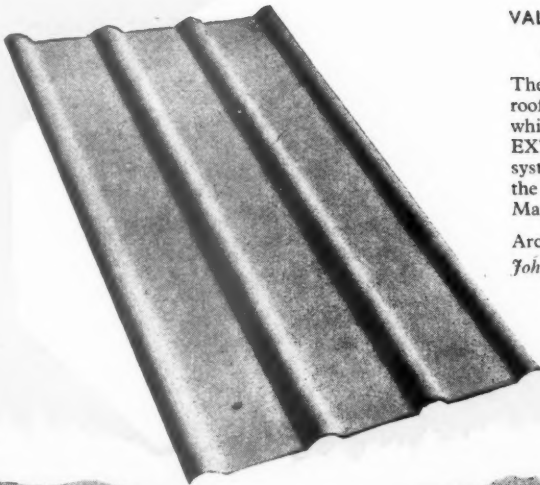
VALE OF LEVEN ESTATE • DUNBARTONSHIRE

One of the Scottish Industrial Estates

The entire group of buildings illustrated is roofed with "TURNALL" TRAFFORD TILES, while over 200 "EVERITE" Asbestos-Cement EXTRACTORS are employed in the ventilating system. The foreground block comprises one of the British Factories of Burroughs Adding Machine Ltd.

Architects :—

John Keppie & Henderson & J. L. Gleave
P./A.R.I.B.A.



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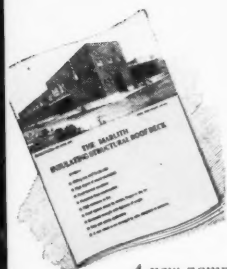
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TRAFFORD PARK

MANCHESTER 17

Gravesend Westcourt County Primary (Infants) School. Architects: Pite, Son & Fairweather, in collaboration with S. H. Loweth, F.S.A., F.R.I.B.A., M.I. Struct. E., County Architect. General Contractors: F. Parham, Ltd., Gillingham, Kent. Roofing Contractors: Permanite Ltd.

THE ARCHITECTS' JOURNAL for November 6, 1951



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A roof deck formed of 2" Marlith Units, supported on pressed steel tees, with $\frac{1}{2}$ " cement sand screed and 2 ply built-up roofing will carry a load of 80 lb. sq. ft. with .05" residual deflection. Weight of deck is 12 lb. sq. ft.

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Marlith Units are non-inflammable and are effectively fire resistant. Dampness will not damage the Units.

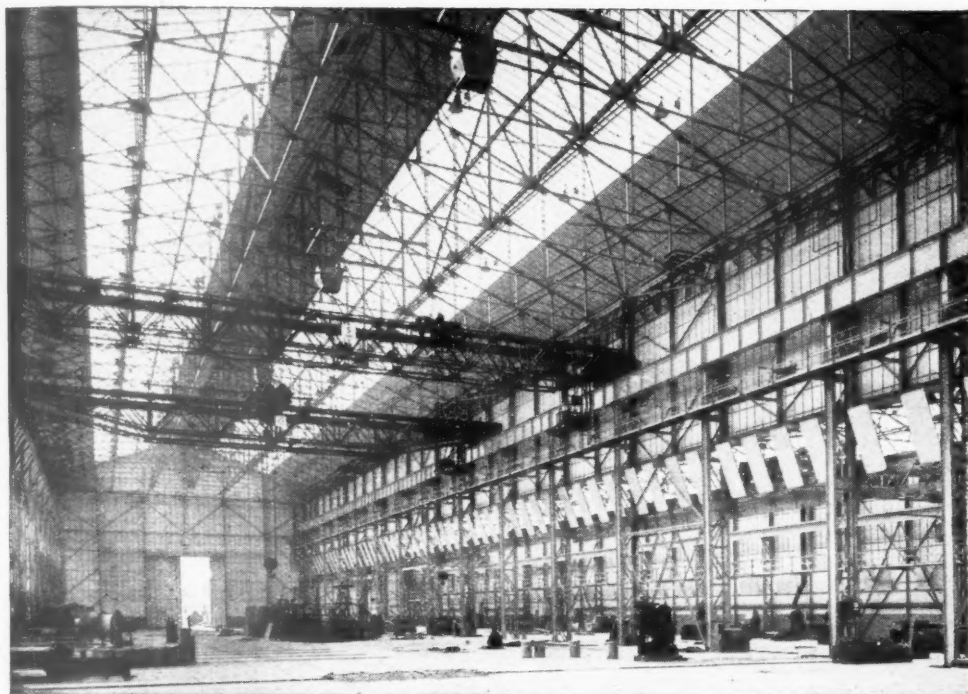
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Architects: Wylie, Shanks & Wylie, 120, Blythwood St., Glasgow, C.2.

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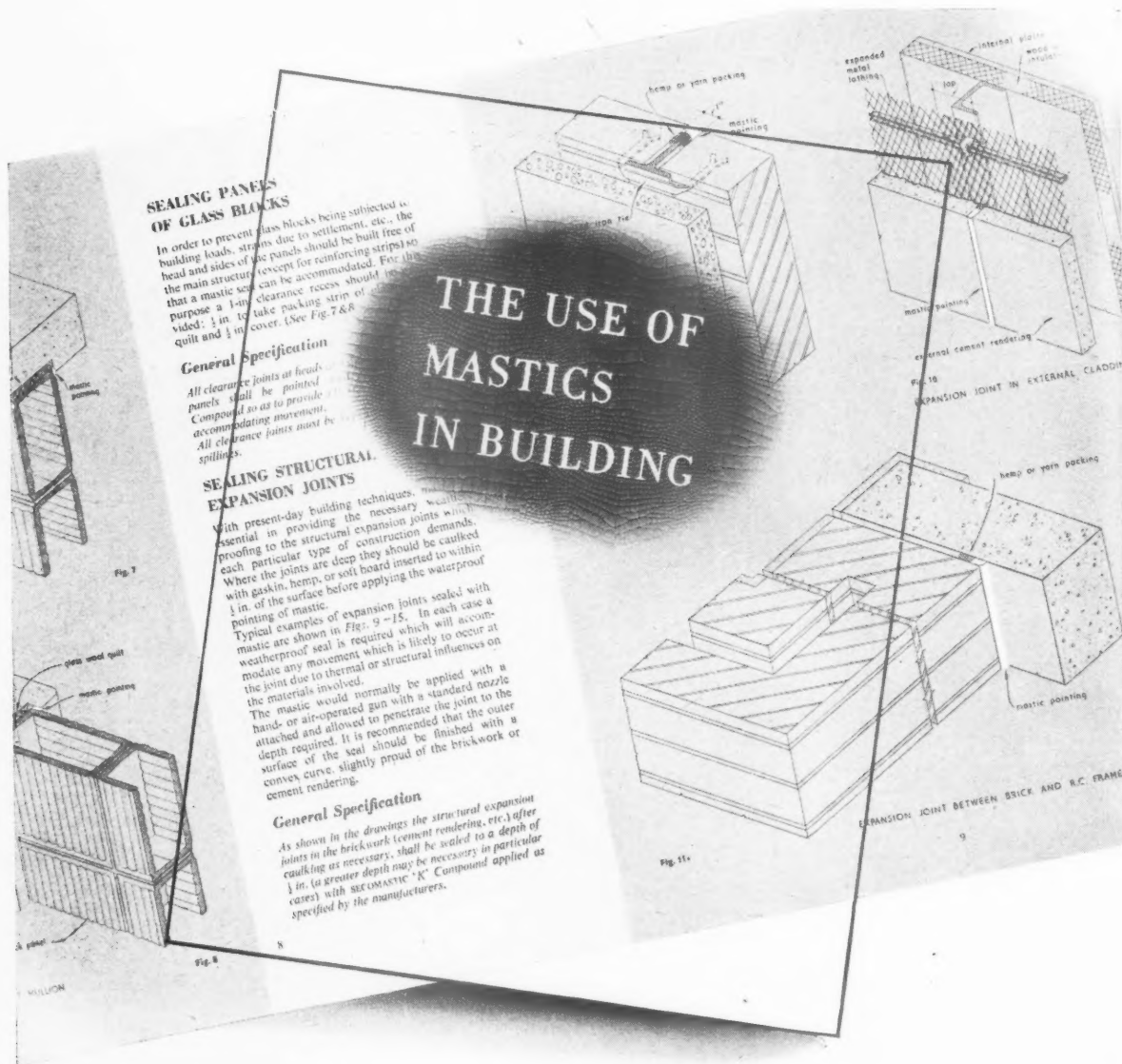
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SEALING PANELS OF GLASS BLOCKS

In order to prevent glass blocks being subjected to building loads, strips should be built free of head and sides of the panels (except for reinforcing strips) so the main structure (except for reinforcing strips) so that a mastic seal can be accommodated. For this purpose a 1-in. clearance recess should be provided: $\frac{1}{2}$ in. to take packing strip of hemp or yarn quilt and $\frac{1}{2}$ in. cover. (See Fig. 7 & 8)

General Specification

All clearance joints at heads of panels shall be pointed with mastic. Compound so as to provide for accommodating movement. All clearance joints must be free of spillings.

SEALING STRUCTURAL EXPANSION JOINTS

With present-day building techniques, mastic is essential in providing the necessary joints which, proofing to the structural expansion demands, each particular type of construction demands. Where the joints are deep they should be caulked with gasket, hemp or soft board inserted to within $\frac{1}{2}$ in. of the surface before applying the waterproof pointing of mastic.

Typical examples of expansion joints sealed with mastic are shown in Figs. 9-15. In each case a weatherproof seal is required which will accommodate any movement which is likely to occur at the joint due to thermal or structural influences on the materials involved.

The mastic would normally be applied with a hand- or air-operated gun with a standard nozzle attached and allowed to penetrate the joint to the depth required. It is recommended that the outer surface of the seal should be finished with a convex curve, slightly proud of the brickwork or cement rendering.

General Specification

As shown in the drawings the structural expansion joints in the brickwork (cement rendering, etc.) after caulking as necessary, shall be sealed to a depth of $\frac{1}{2}$ in. (a greater depth may be necessary in particular cases) with SECOMASTIC "K" Compound applied as specified by the manufacturers.



The use of mastic, in the sense of a non-hardening seal between two units where movement is expected, is a comparatively recent development in this country arising originally out of the problems met in prefabricated construction. During the last ten years, however, a great deal has been learnt on the subject, and a code of good practice has been built up. The results of this experience have been collated in a booklet, which is freely available to those interested in the subject. Applications for copies should be made on professional notepaper, or, in the case of students, should be endorsed by a lecturer of the school they attend. *Please address all enquiries to the Architectural Department.*

JOINT SEALING COMPOUND

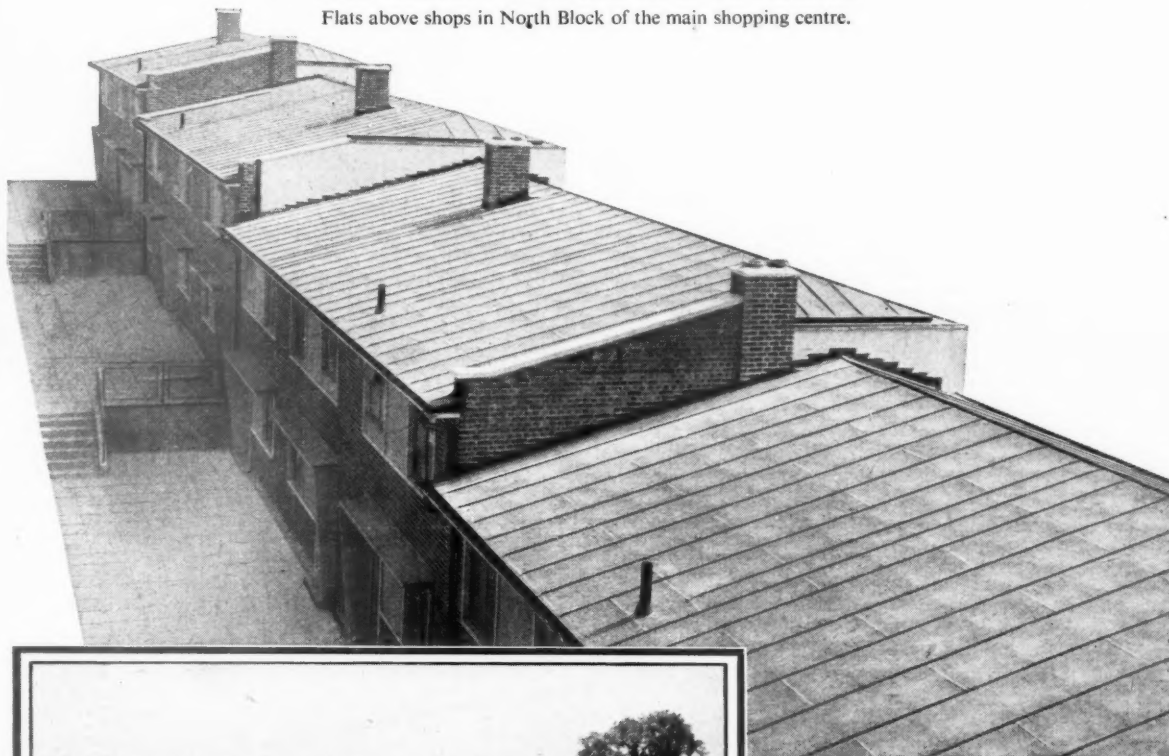
SECOMASTIC LIMITED, 15 UPPER GROSVENOR STREET, LONDON, W.1. Phone: MAYfair 4027

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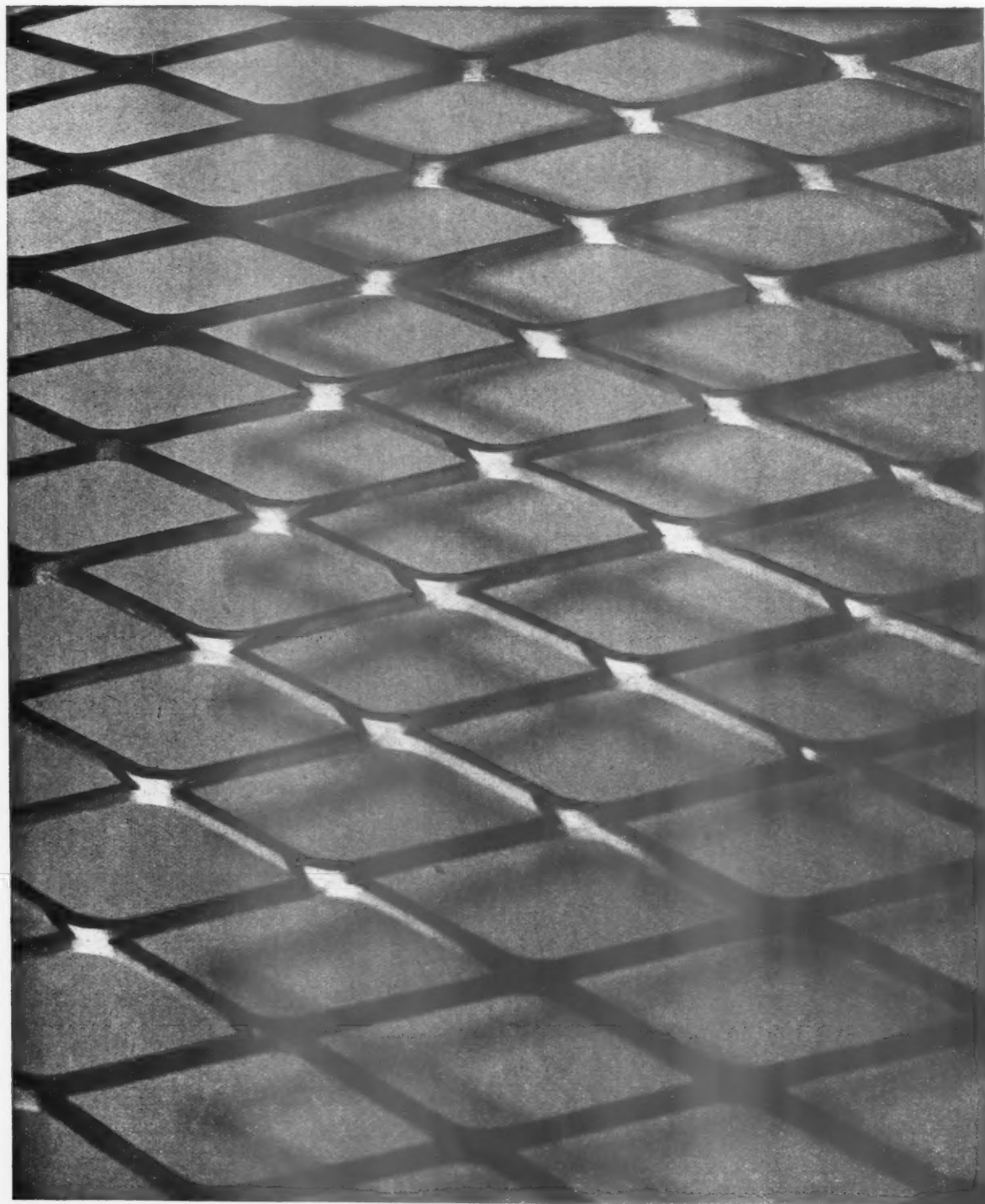
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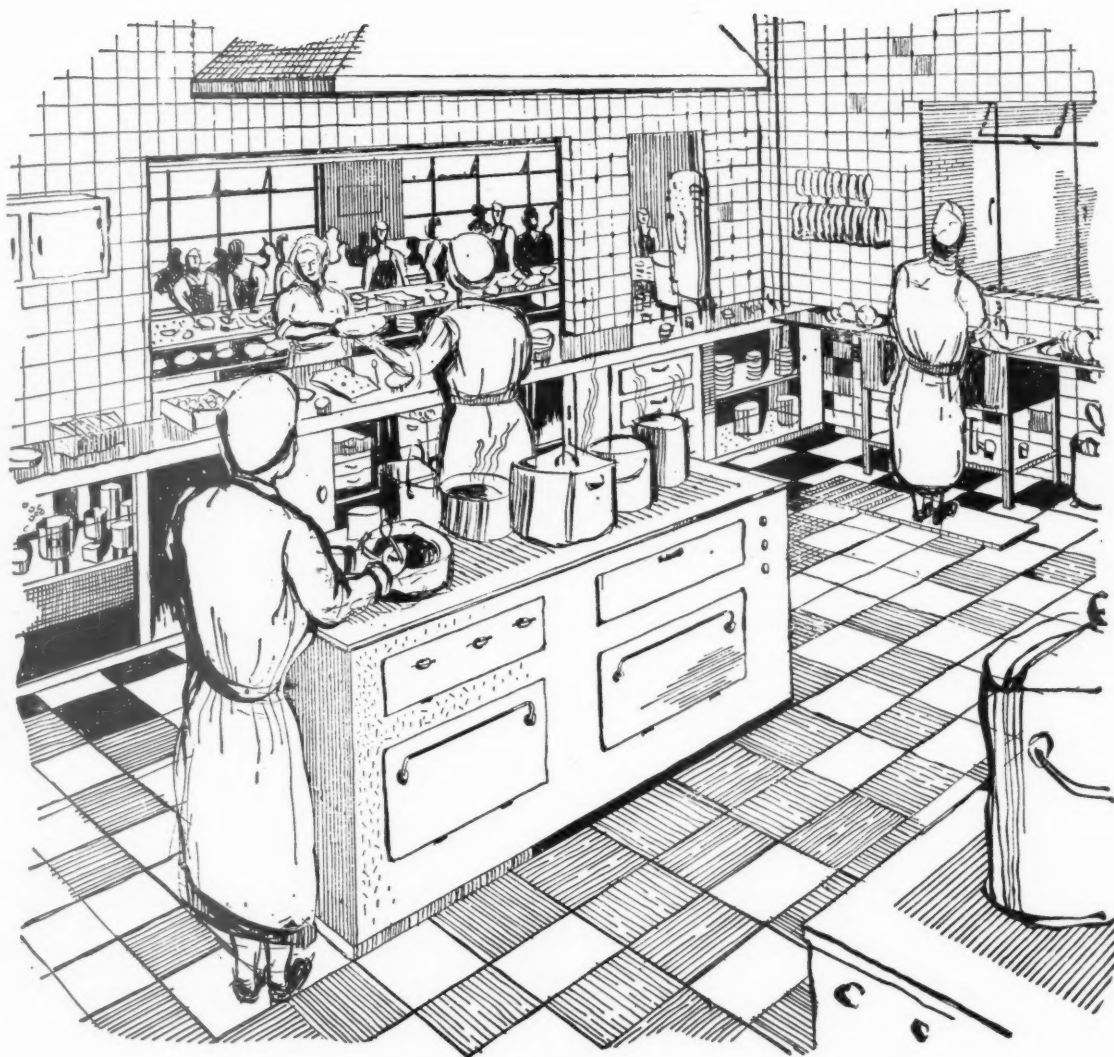


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F1050/1/8060	£7.0.8	£6. 5.0
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F1150/1/8060	£9.0.8	£8.10.0
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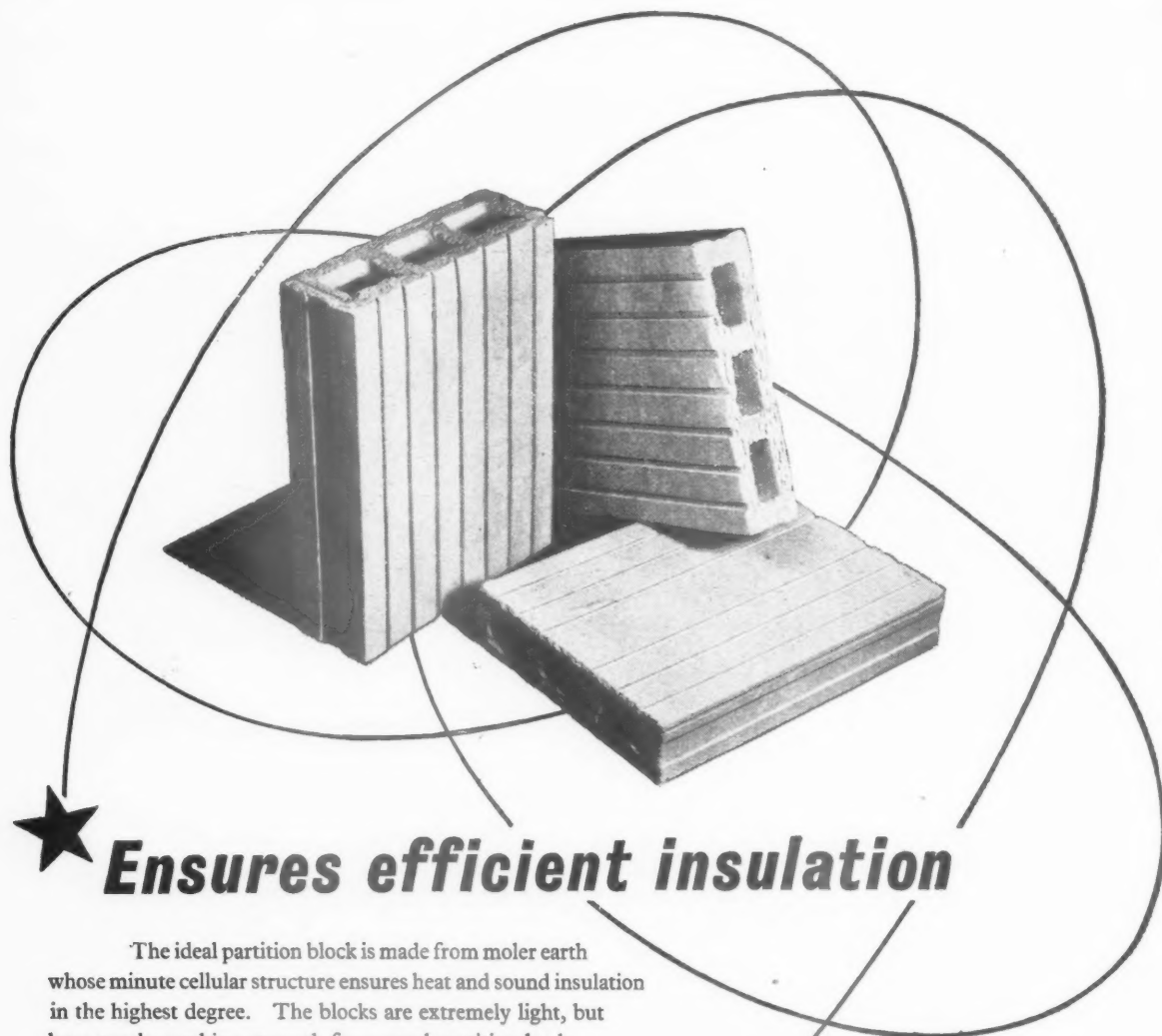
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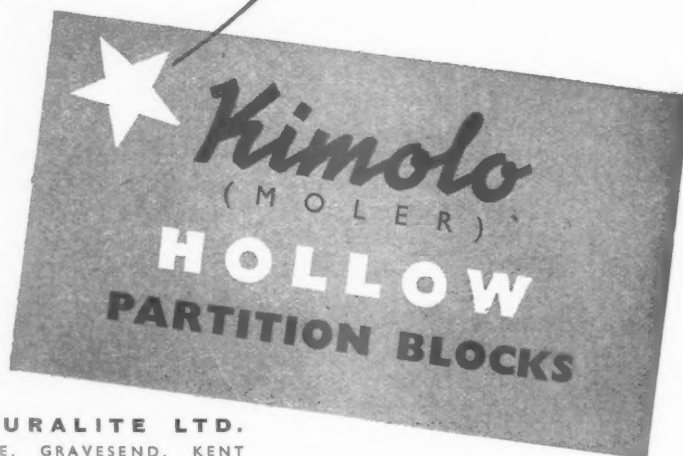


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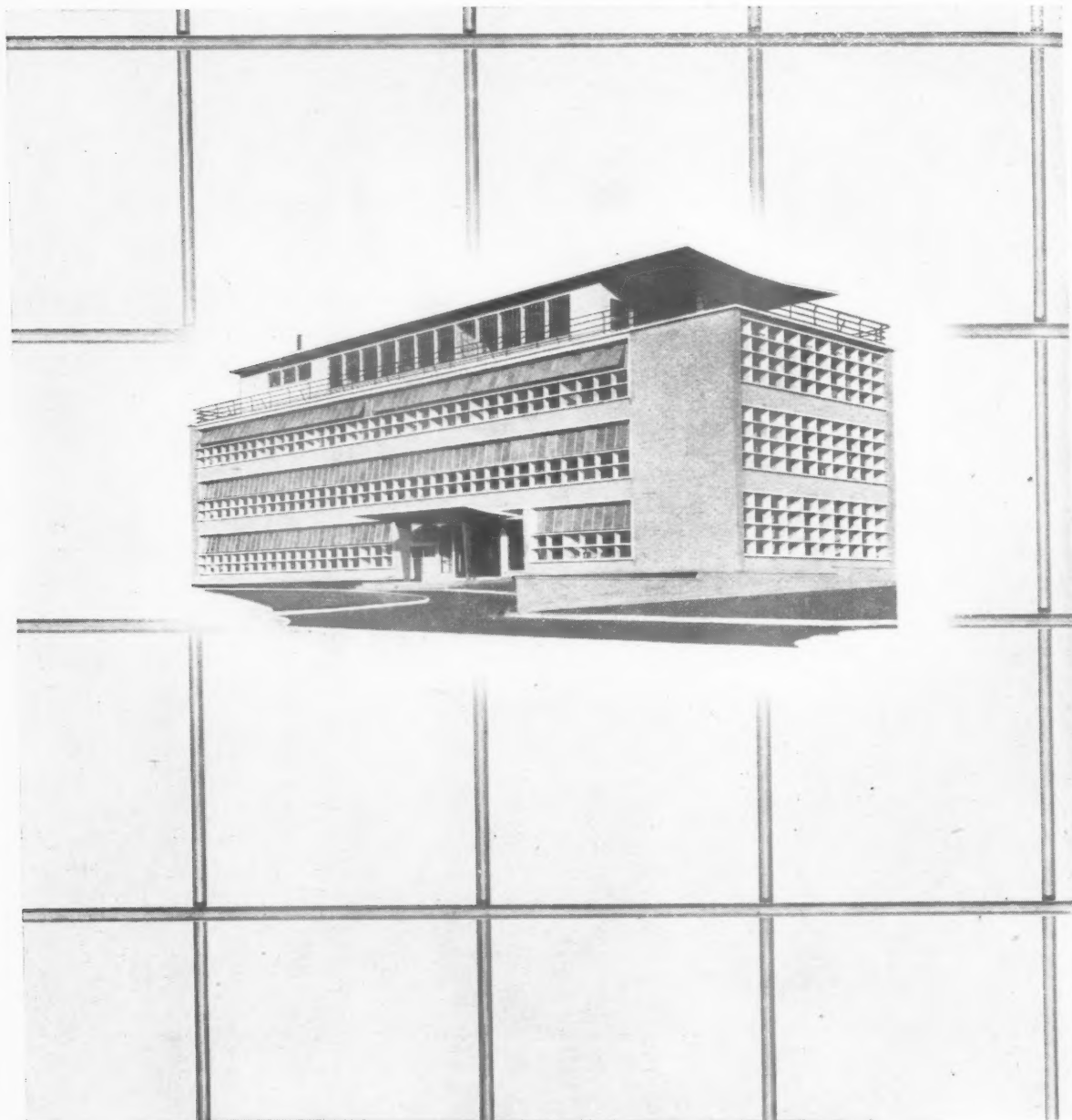
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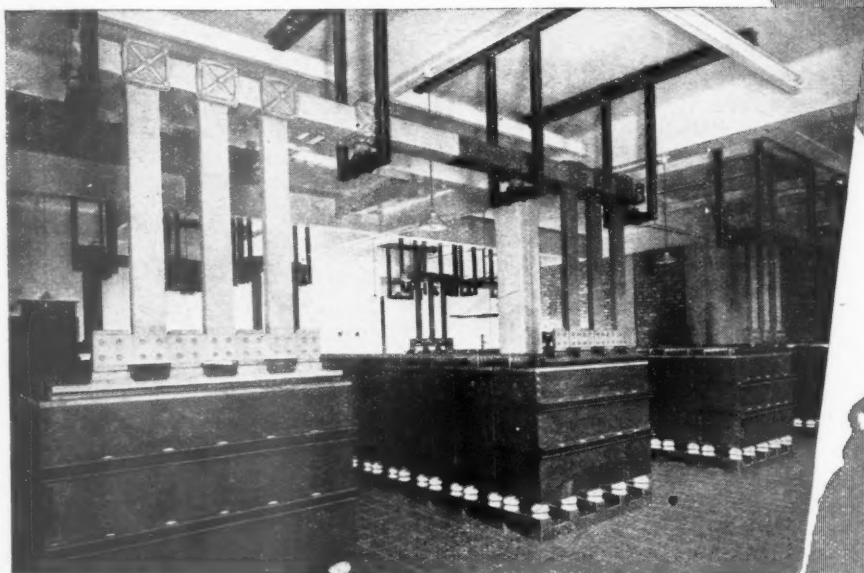
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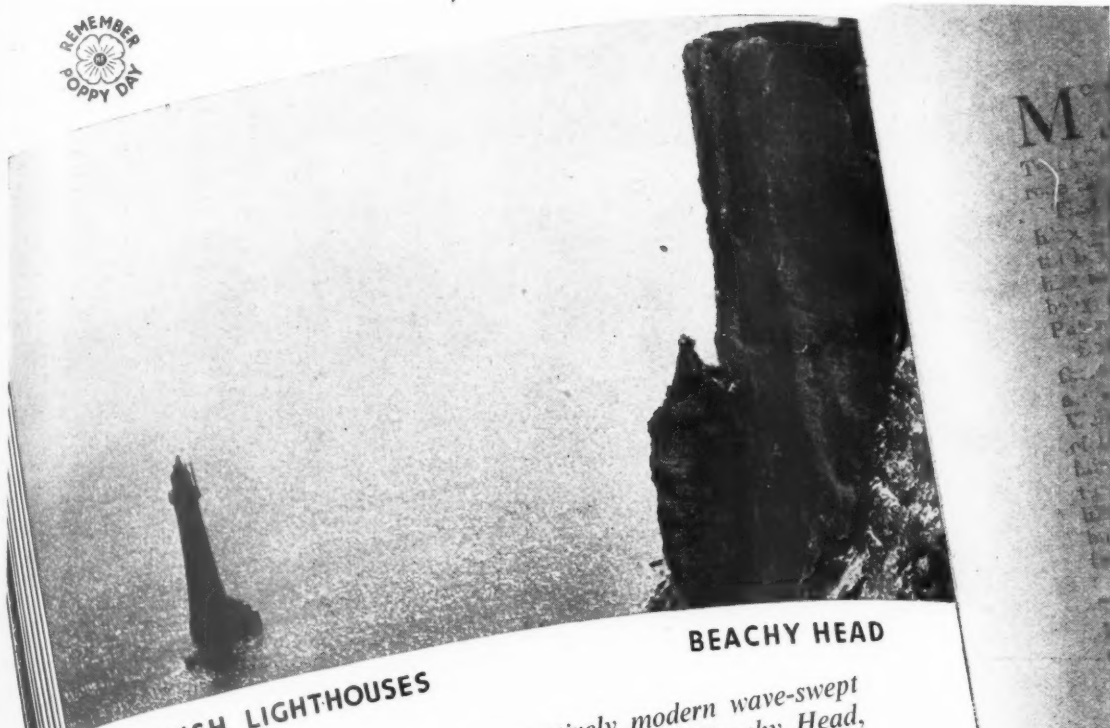
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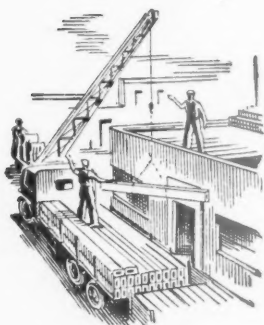
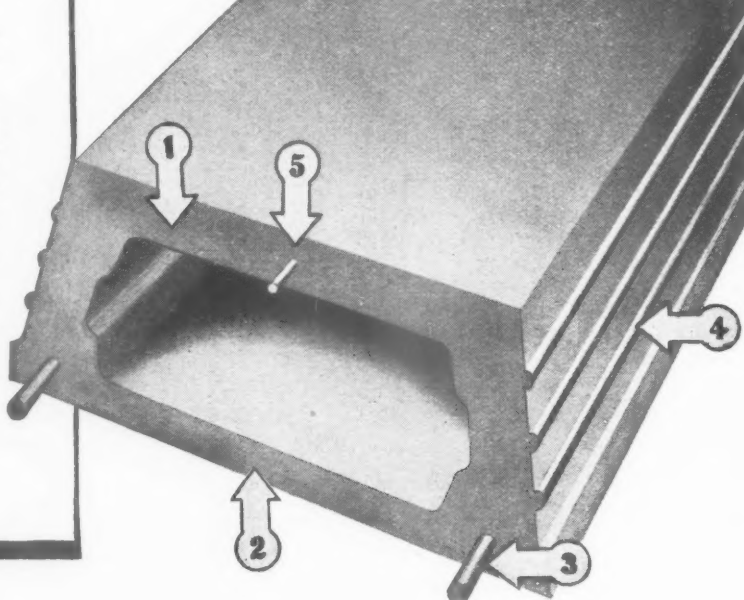
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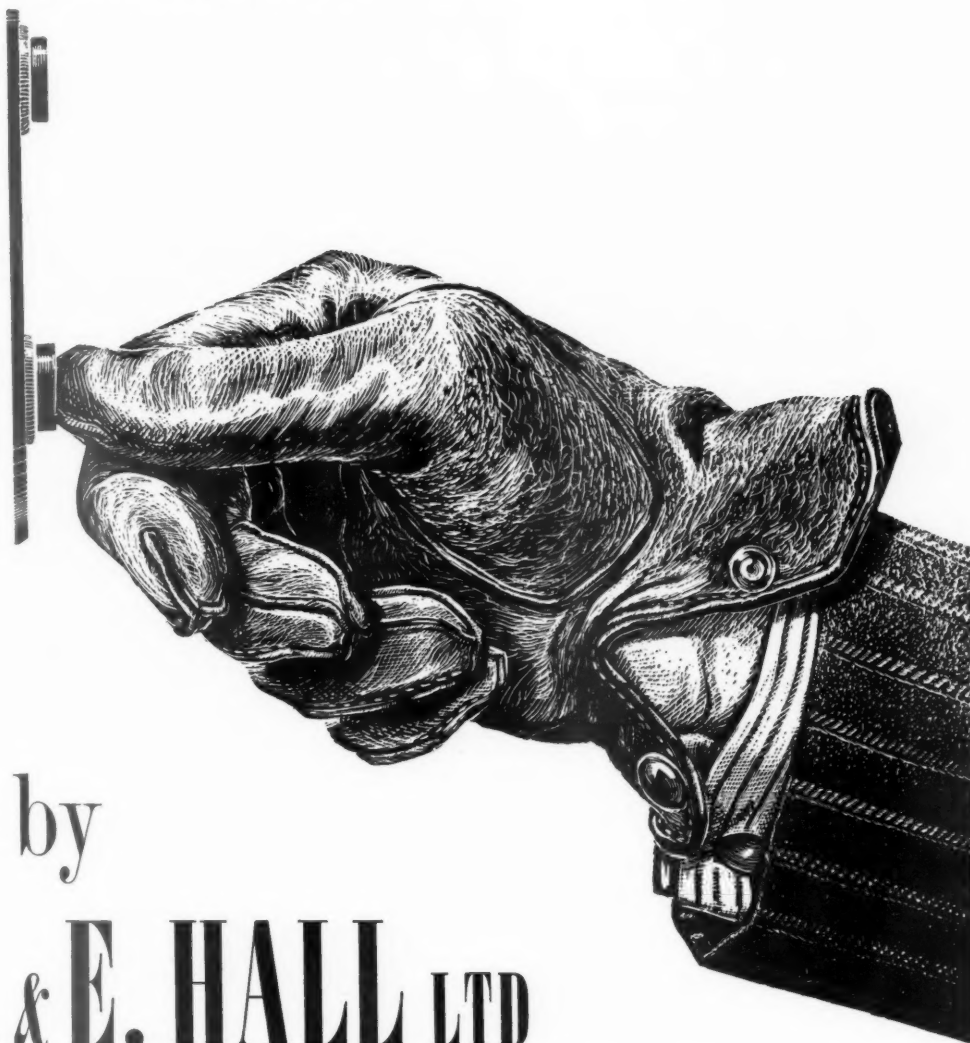
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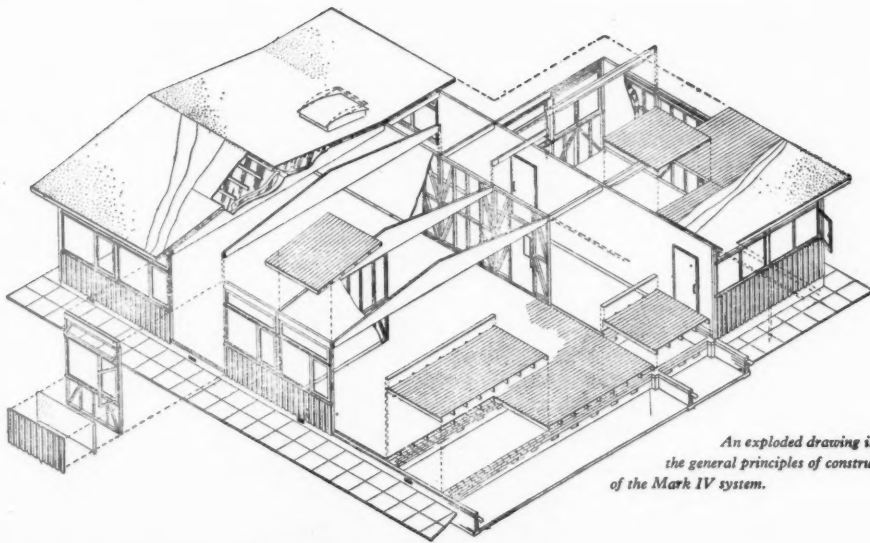


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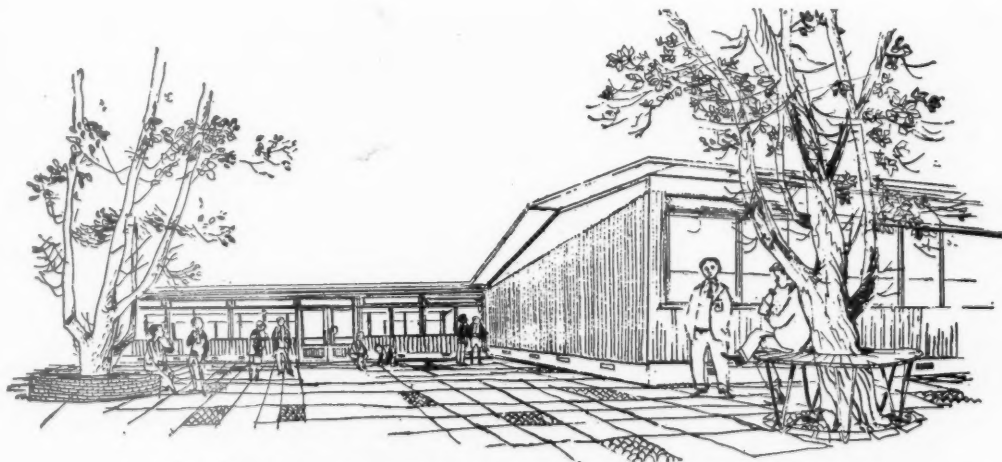
MARK IV



An exploded drawing illustrating the general principles of construction of the Mark IV system.

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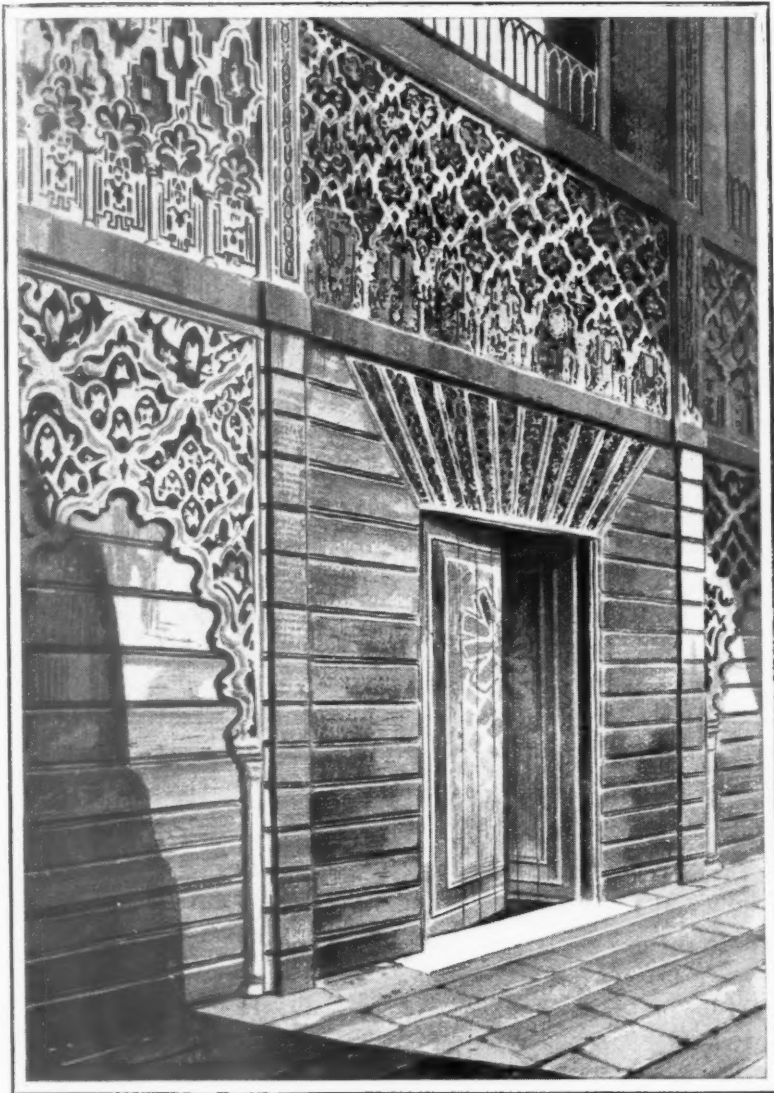
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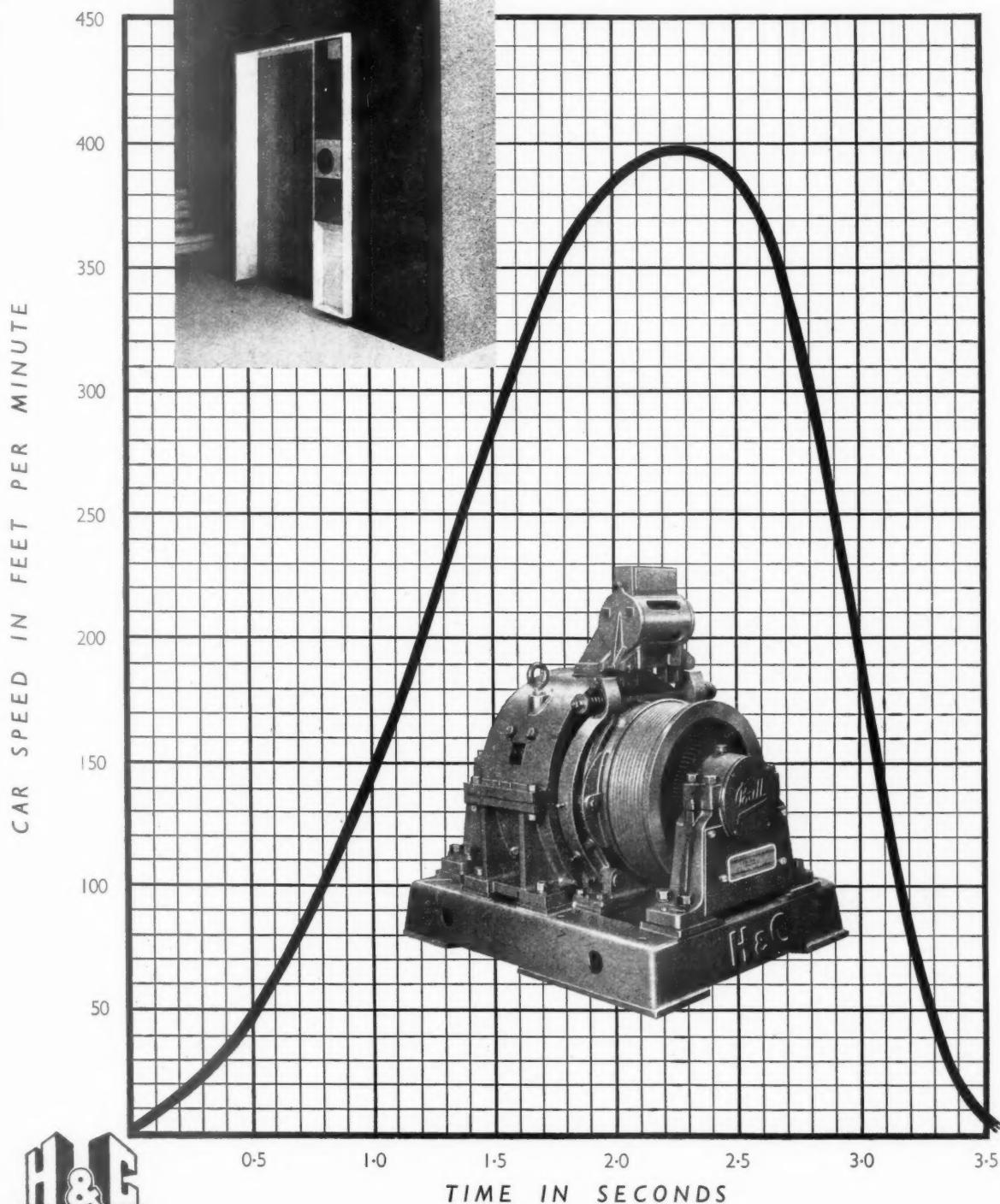
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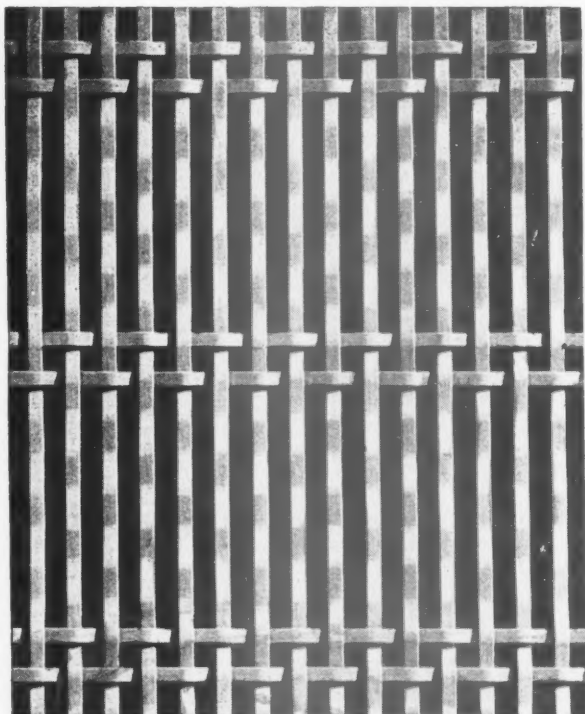
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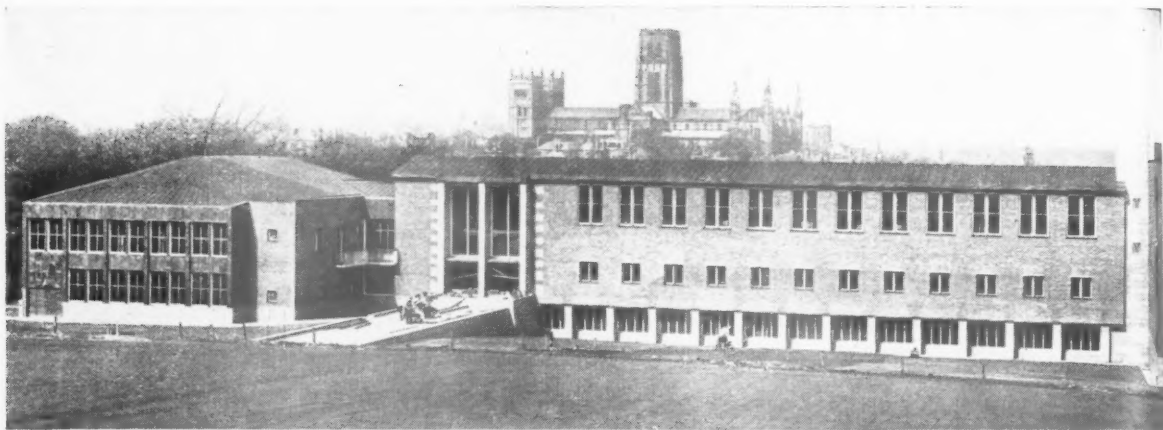
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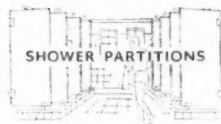
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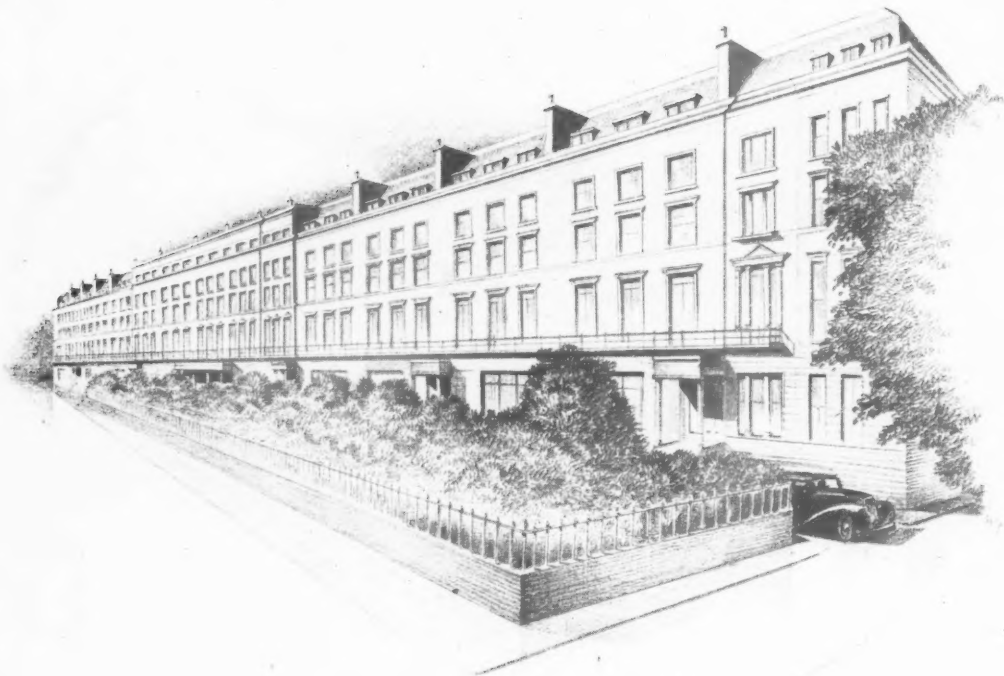
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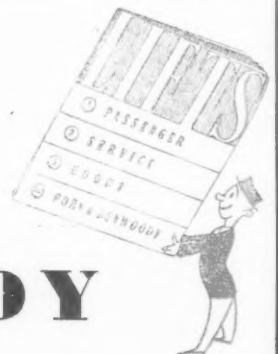
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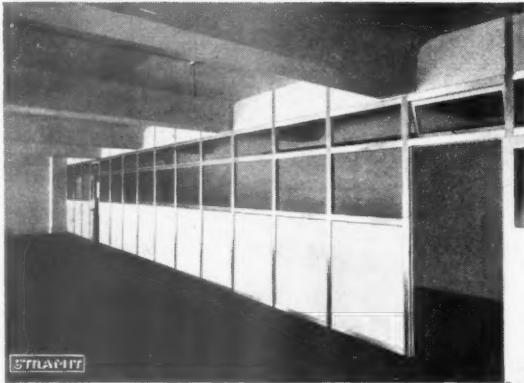
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Weight: approximately 3.8 lb. sq. ft. Thermal value: 0.60 B.Th.U. per 1 in. per sq. ft. per hr. per 1 deg. F. (B.R.S.). Spread of flame: Class 2 when distempered or painted; Class 1 when plastered (B.R.S.). Sound absorption: 45-55 per cent. Sound insulation: Approximately 30 dB. Strength: The slab is about three times as strong in width as in length (modulus of rupture 600 lb./sq. in. and 187 lb./sq. in.). For normal partitions framing along the edges (= 4 ft. spacing) is recommended. In a roof decking, with 40 deg. pitch or less a centre bearer is normally recommended: all edges should also be supported.

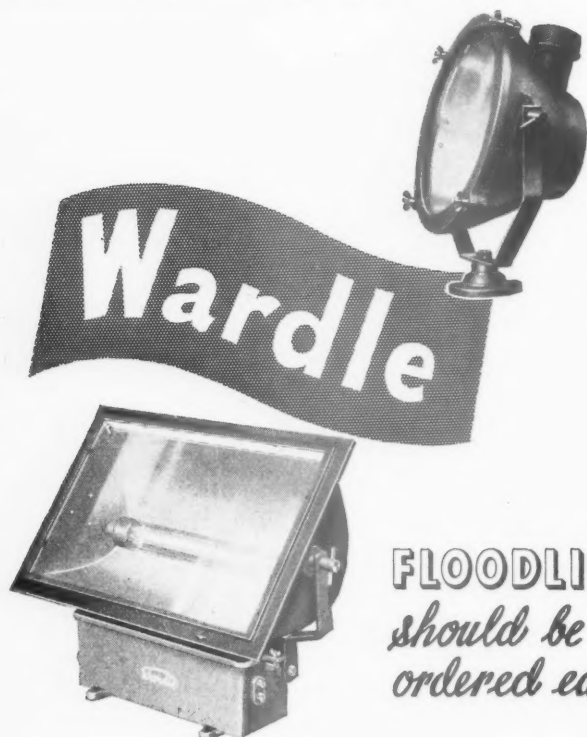
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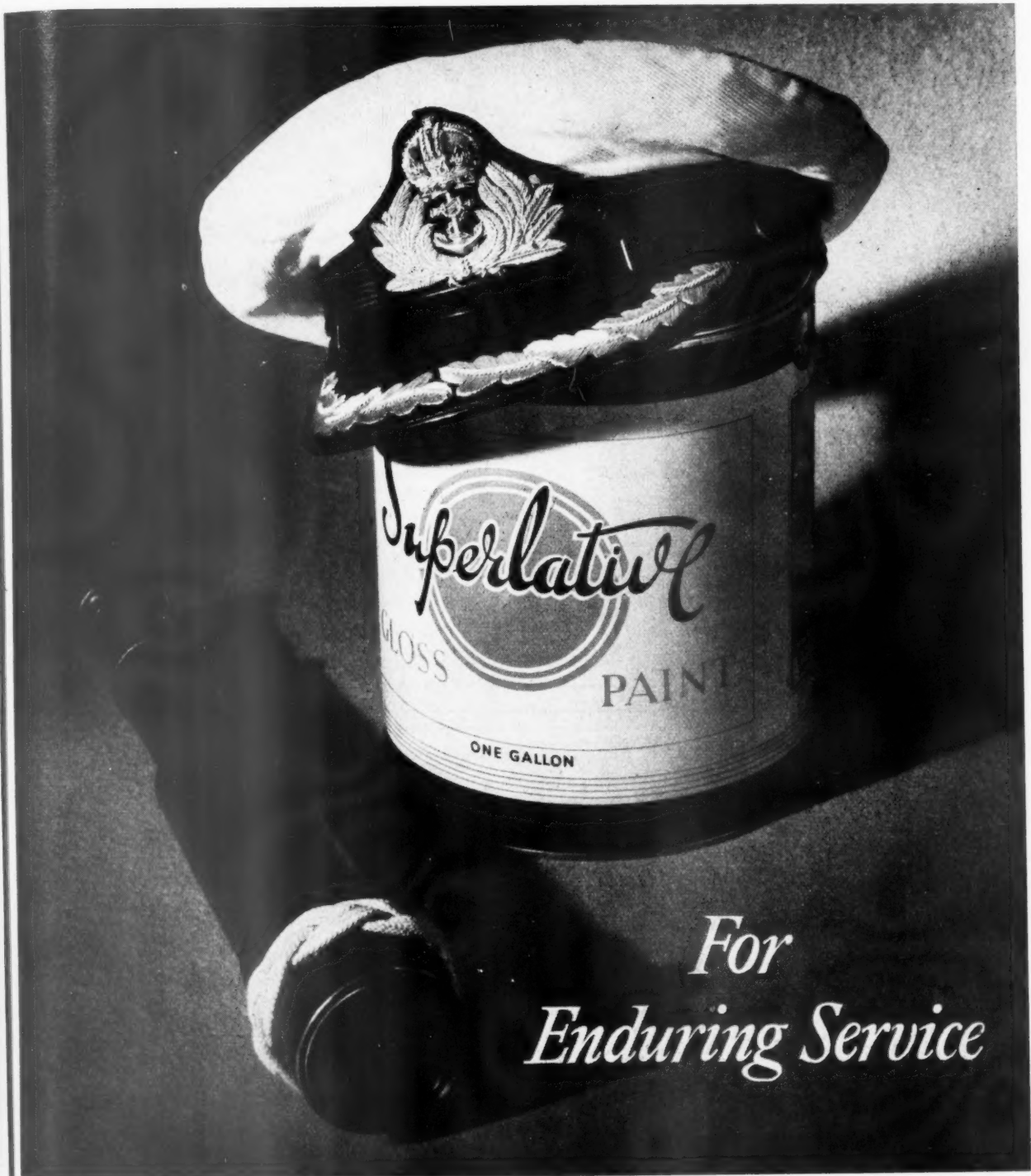
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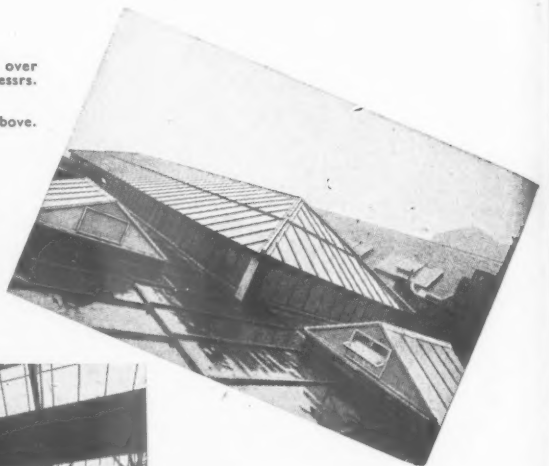
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RIGHT: Lantern Lights over Drawing Office of Messrs. Bodec Ltd., Battersea.

LEFT: Interior view of above.

BELOW: Roof Glazing over Joiners Shop of Messrs. Harland Wolff Ltd. North Woolwich.



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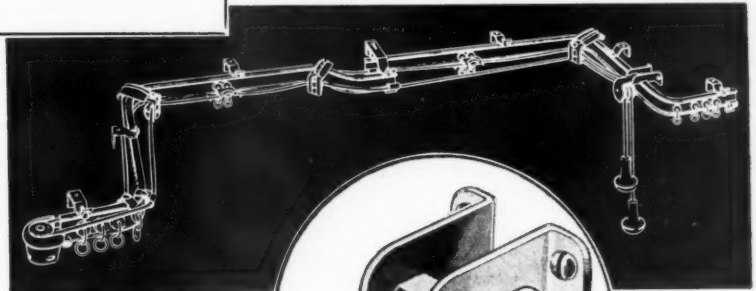
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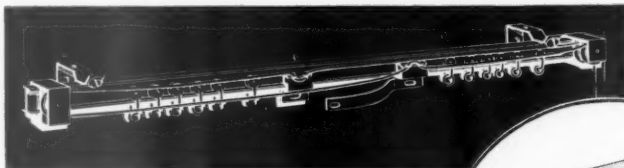
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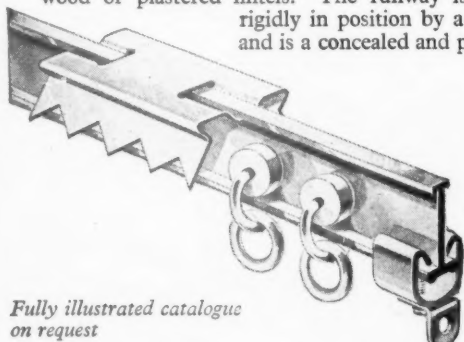
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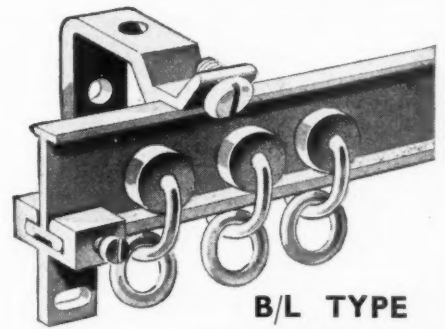
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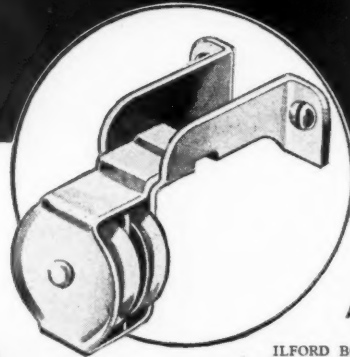


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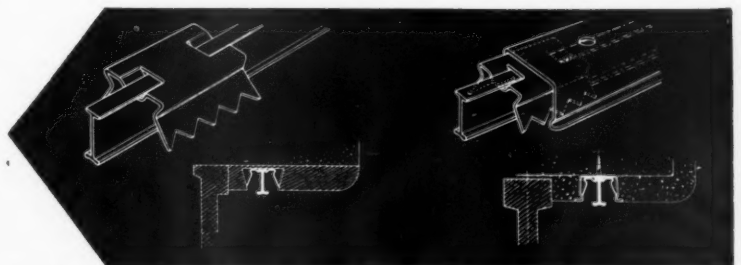


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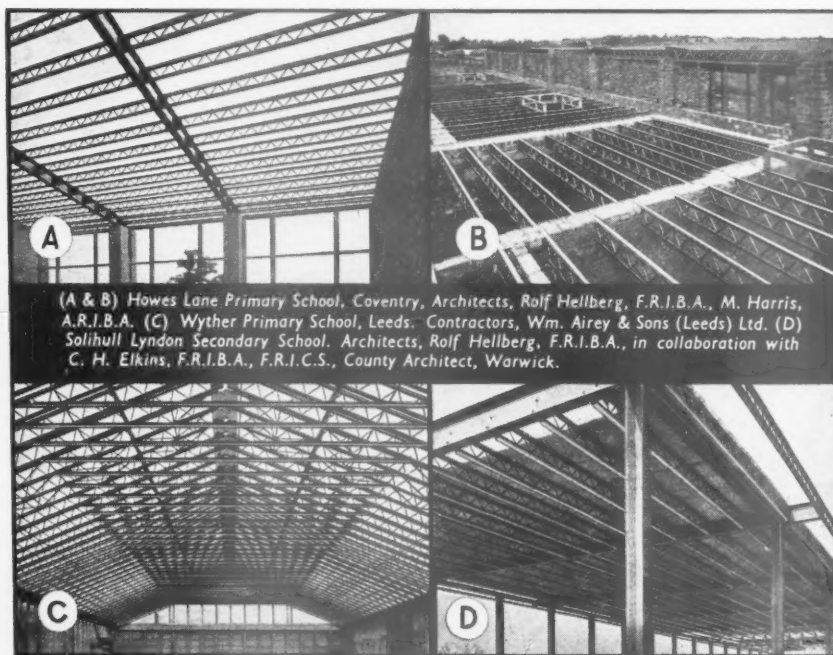


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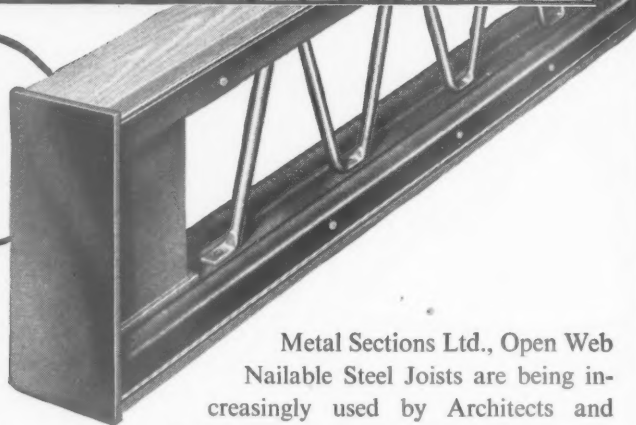
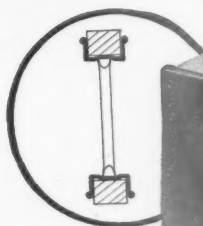
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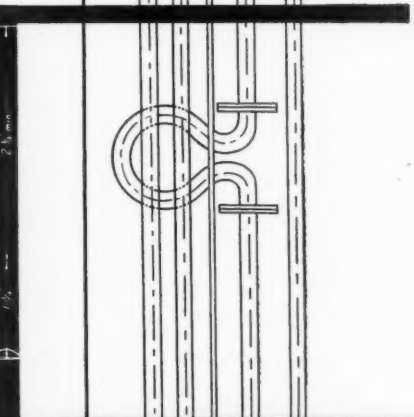
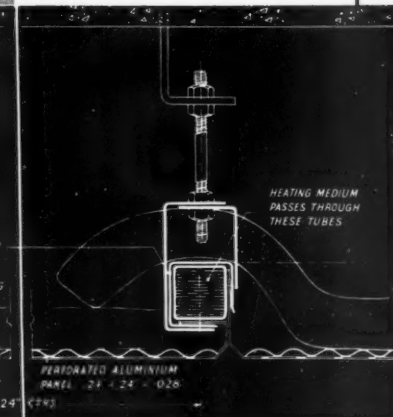
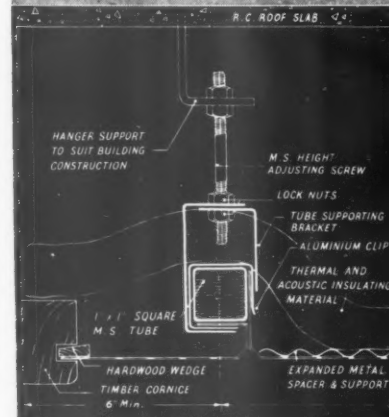
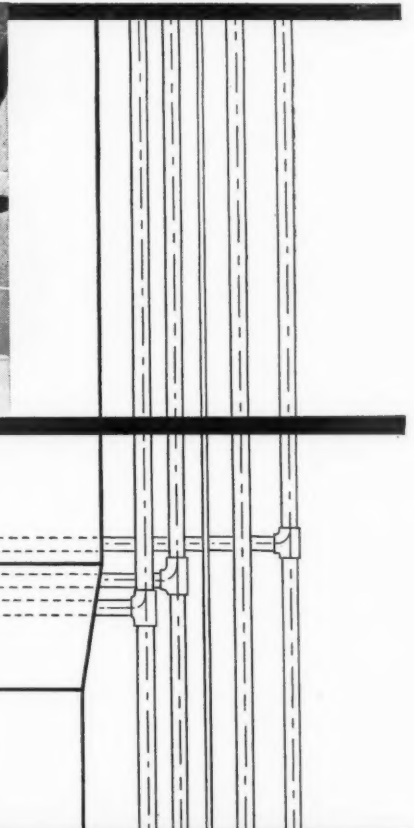
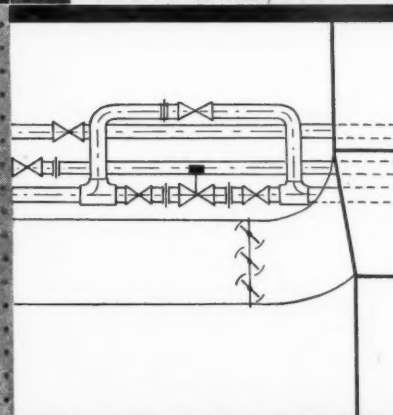
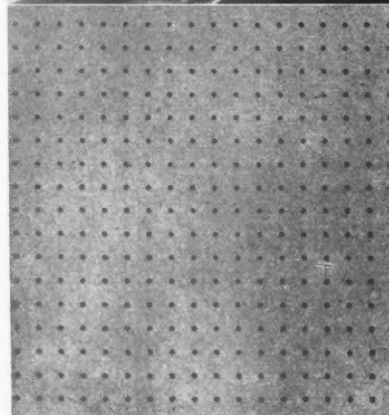
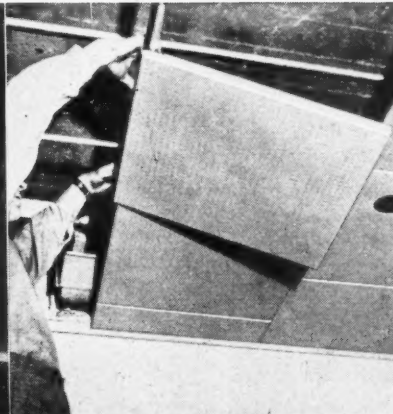
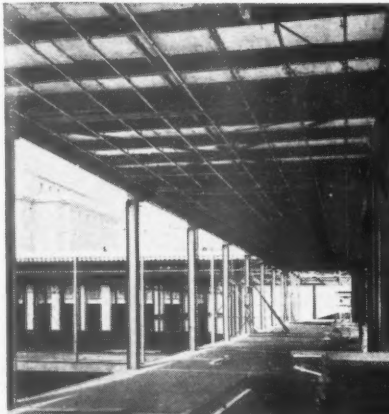
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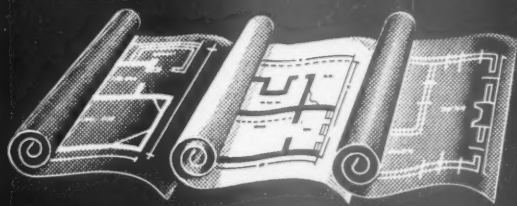
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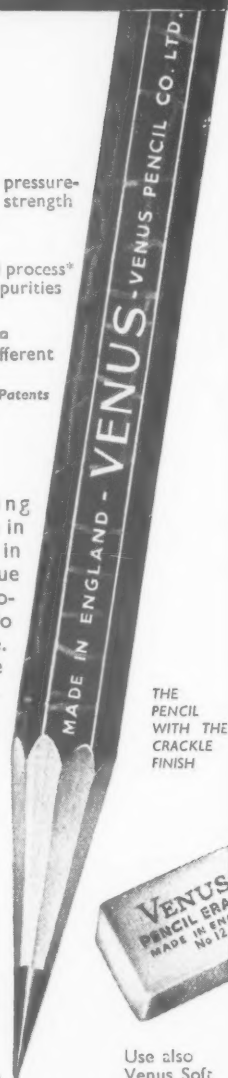
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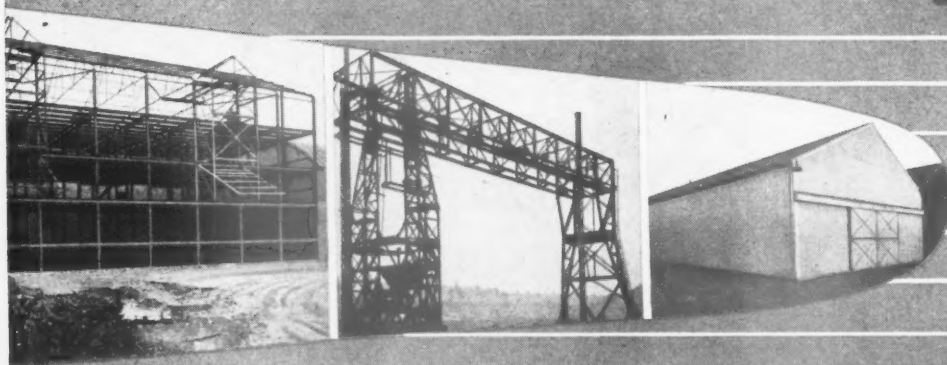
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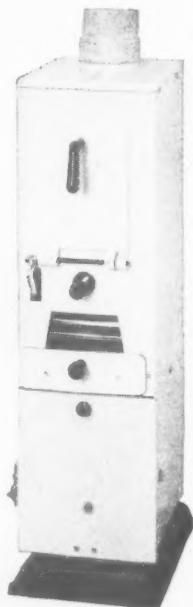
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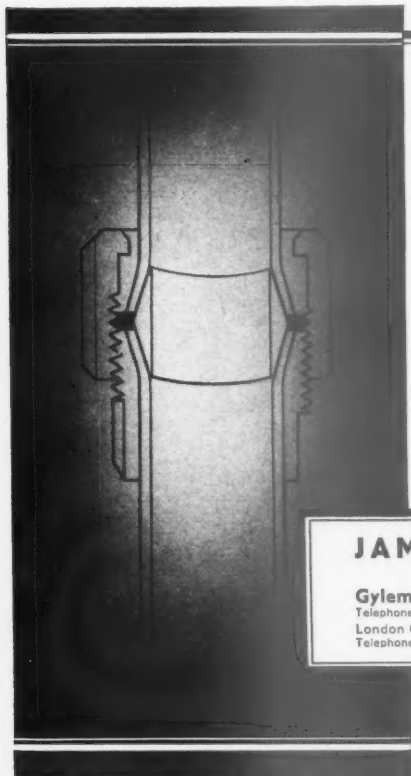
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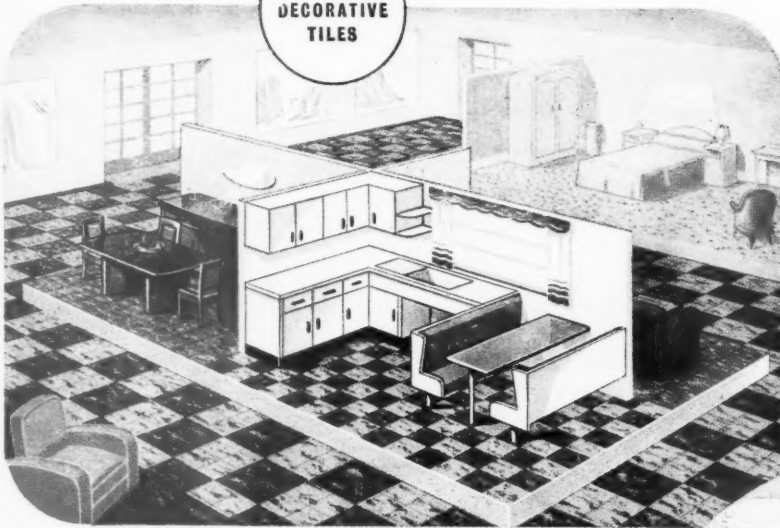
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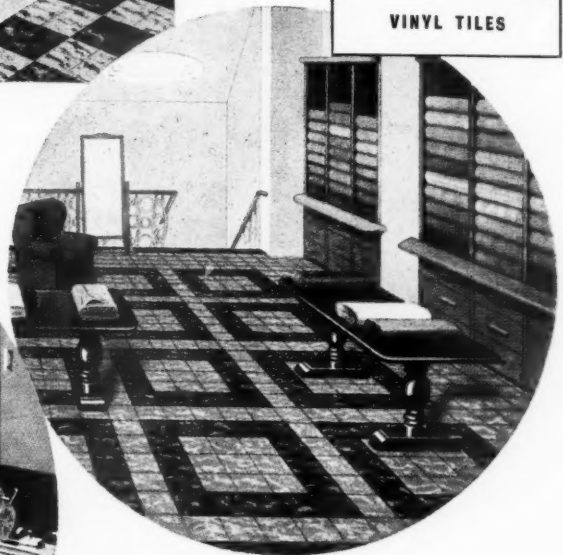
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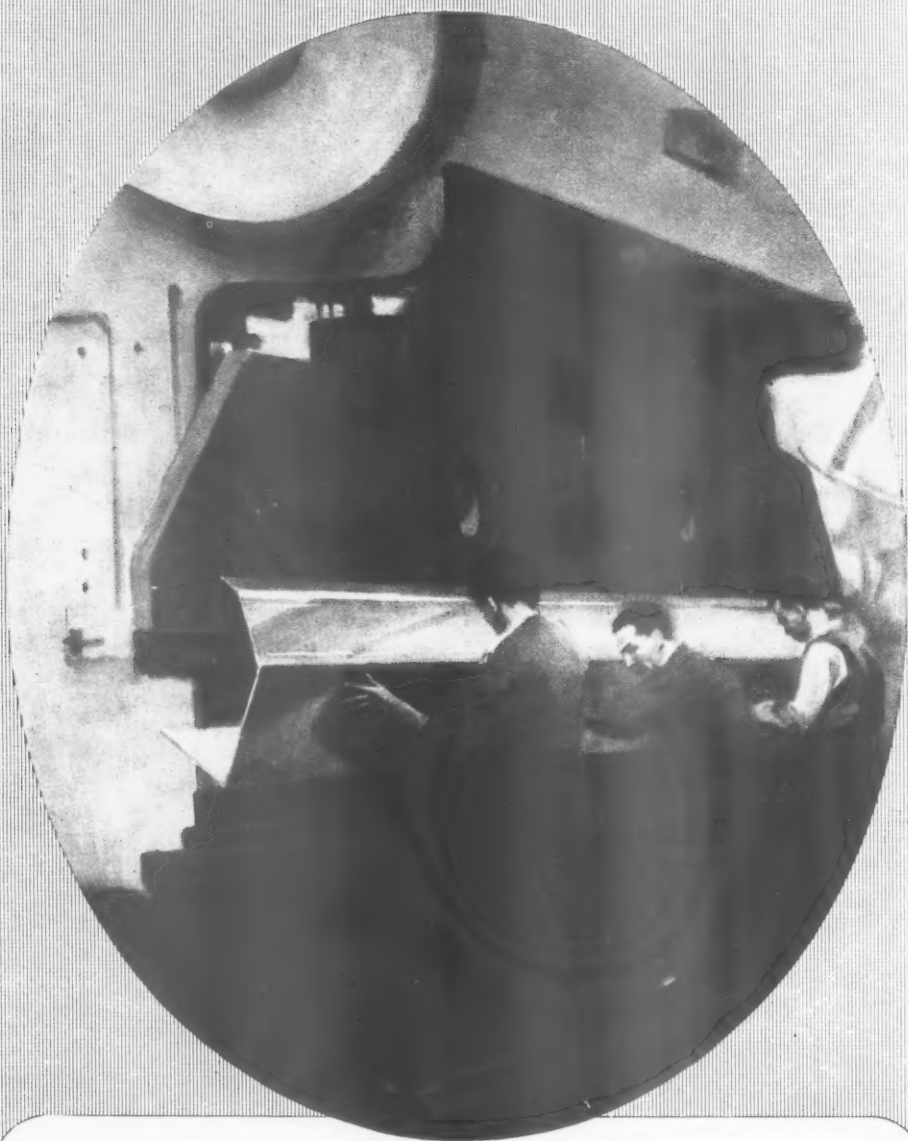
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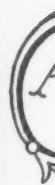
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THE ARCHITECTS' JOURNAL

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No. 3010 November 6, 1952 VOL 116

Subscription rates: by post in the U.K. or abroad, £2 10s. 0d. per annum. Single copies, 1s.; post free, 1s. 3d. Special numbers are included in Subscriptions; single copies, 2s.; post free, 2s. 3d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for 25s. 0d.; carriage, 1s. extra.



£300 QUERY

It has been suggested that some of the people who are now returning licences for house building are doing so because they think the development charge is to be reduced. Mr. Macmillan said last week that changes in the T & CP Act will be announced soon. This makes one ask what is likely to happen to the £300 million "global sum" which is due to be distributed next year. It is quite a large sum for any Government to find, and obviously the Chancellor does not want that much extra purchasing power let loose for a possible spending spree. Don't expect ASTRAGAL to know what is going to happen; there may be some attempt to alter the rate of compensation, or even some form of unusable

credit. Remember your income tax post-war credits? Can you remember how much the State owes you—and could you find the certificates if a payout were announced?

UNESCO OR FIASCO?

As the JOURNAL goes to Press we hear that the scheme for UNESCO's Paris headquarters, which is illustrated on page 555 of this issue, has not been received well by the town planning committee of the city of Paris, the administrative services of the prefecture or the French government. And the sites committee of the prefecture of the Seine—the equivalent in Paris of the London County administration—has rejected the plan (with one dissenting voice) if the building is to be put up on the site proposed.

*

It seems that the sites committee has formed its own interpretation of UNESCO's instruction that the building of the headquarters should be in harmony with the Parisian setting. It all depends, of course, what you mean by "harmony." Presumably the sites committee hoped that it meant a crib of the surrounding mid-19th and early 20th century buildings. But apart from the building's intrinsic qualities the committee also considers it unsuitable for its site.

*

ASTRAGAL has no idea how much pressure can be brought to bear on UNESCO by the French departments mentioned above. He awaits with interest the verdict of UNESCO general assembly next week. And he will own up and record in public what his first impressions of the building were in private. First: headquarters delight

that a modern building of such distinction is being sponsored by an official body. (Nobody indeed seems even to have considered any other sort of approach. How far away may seem the battles of the 'twenties and 'thirties.) Second: delight in the clarity and simplicity of form displayed in plan, section and elevation. Third: delight in the fact that although the office block follows the contemporary stock formula—inevitably, I suppose, since it is the most efficient solution to a stock problem—the human scale has been kept, the effect is not bossy, and the windows (Mumford, please note) actually open. Any reservations? Well, perhaps a few . . . a suspicion that those acres of flat roof will be difficult to handle . . . a personal prejudice against rubble masonry walls and "racked staircases" . . . and no delight whatsoever in the tensely sprung parabolic arch over the lobby. This is "Look-no-Hands" stuff, inappropriate in a building which the architects describe as "the embodiment of a great idea." Certainly UNESCO is a Great Idea. Certainly, too, this will—or could—be a Great Building.

UNO WHAT

Incidentally, publication of these plans in the Press has reminded at least one JOURNAL correspondent of the newspaper report that the British Government, when asked to suggest a suitable architect for this job, put forward the Zurich firm of Moser Haeseli & Steiger—undeniably excellent, indeed outstanding, architects, but also undeniably Swiss. Since Great Britain is only represented with, shall we say, "modesty" in the UNO building, would it not be appropriate if a British architect—or group of architects—were considered

D

CREATION WITH CRAFTSMANSHIP



This is a photograph of our new Showroom at Tottenham. You are cordially invited to visit us there, to see a complete range of VISIFLOW fittings and the latest types of lighting. Full details of VISIFLOW are available on request.

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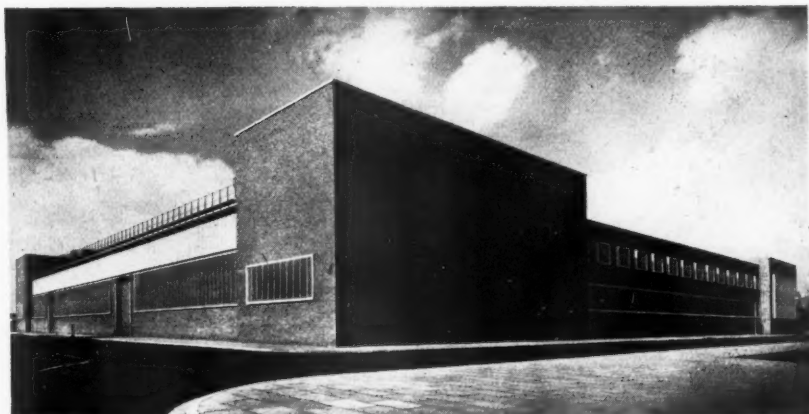
for at least part of the interior treatment of the UNESCO building, working under, of course, the direction of the appointed architect? I put this forward not on the grounds of justice—I abide by our own rule of nobody being entitled to anything—but in the belief that the result would be a very good job and a credit to this country as well as to the building. Can we not have some preliminary burrowings from COID—or maybe MOE—to see how the land (not the Alps) lies?

... COME TO DUST

Do you, as you leaf impatiently through your JOURNAL, with an occasional gasp or snigger at the buildings therein displayed . . . do you ever speculate, as ASTRAGAL always does, upon their probable fate a century from now? Do you picture these photographs appearing again and again in the theses of students or the studies of art historians? Do you imagine the protective societies gathering in defence, the question in the House, the letter to *The Times* beginning "There is a wide measure of agreement . . .," and finally the sentence of death and the obituary photograph?

These solemn thoughts are prompted by the arrival this week of an interesting publication—the new volume* (on West Dorset) of the County Surveys Historical Monuments. This is most welcome, not only because it resumes work on a task which had been going far too slowly—(only ten volumes to date out of twenty projected)—but also because it is the first volume to take advantage of the new ruling that extends the commission's terms of reference beyond 1714. This ludicrous restriction—often attacked by John Betjeman and the late Robert Byron—resulted in counties rich in real architecture being depicted as chiefly notable for field-paths, tumuli and barrows.

Now the barrow-boys have to take a back seat, greatly to the benefit of the survey. If done before the war this Dorset volume would have had to omit public buildings like Bridport town hall, churches like Fleet, mansions like Thorncombe and Wootton Fitzpaine, and many delightful small houses in Bridport, Sherborne, Lyme Regis and



Two weeks ago, "Abner", writing in the *Architect and Building News*, criticized the Gas Council for its tendency to "regard the Royal Fine Art Commission as a substitute for a design policy." The Commission does not exist, he pointed out, "to turn sows' ears into silk purses." ASTRAGAL, who agrees whole-heartedly, publishes one good and one bad example of Gas Board architecture. Above, workshops at Beckton Products Works, E.16, designed for the North Thames Gas Board by Brian Colquhoun and Partners. (Chief architect, A. H. Shearing.) Right, R. N. Mackellar of Cackett, Burns & Mackellar was "only consulted as regards the external appearance" of the Howdon Works, Newcastle, built for the Northern Gas Board.



elsewhere—omissions for which no number of stones, however lichen and historical, could have compensated.

DROPPING OUR H'S

There is some good news for those who detest TV, but insist on keeping up with the Jones's. It is no longer necessary to go to the expense of buying and erecting an aerial to fool the neighbours into thinking you are in touch with Alexandra Palace. All you need do is to move into a block of flats which boasts a master aerial.

There is, of course, another advantage to this scheme. It makes for less unsightliness in the skyline. What with the opening of regional transmitters and the recent encouraging report in *The Times* that TV is "a potential counter to social evils", the country

will soon be infested with upraised H-arms, unless master aerials are used on a large scale. Let us hope that local councils insist on their use.

There is one snag, however. Private firms who supply and install communal aerials invariably charge such exorbitant sums for doing this job that it is hardly an economical proposition for a council (which has to maintain the equipment) unless a large number of residents in a housing or flat scheme are viewers. (I don't suppose an increase in rents to cover costs would be popular.) It seems that our one hope, if the horizon is not to be too littered, is that the whole country becomes television-conscious. At one time, of course, the sociologist would have thrown up his hands in horror and deplored the promise of our becoming

* Dorset. Vol. 1 (West). (HMSO, 1952. £3 3s.)



Public Works and People's Houses

This exhibition stand for the Brush Aboe Group was designed by F. M. Gross for the Public Works and Municipal Services Exhibition which opened at Olympia on Monday. Another feature of the exhibition, which is discussed in the editorial opposite, is an exhibition of plans for new types

of the People's House, produced by the MOHLG. The plans, which will be illustrated in the JOURNAL next week, are of houses with reduced frontages and of flats in two-storey buildings. They will form the basis of a further supplement to the Housing Manual to be issued next year.

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POINTS FROM THIS ISSUE

Proposed headquarters for Unesco	pages 541 and 555
MOHLG's latest house plans	pages 545 and 548
Two RIBA bronze medals awarded	page 547

The Editors

HOUSES 1953?

THE Ministry of Housing and Local Government are to be congratulated at least in that, before issuing to local authorities a further set of plans of new house types—destined presumably to be *Houses 1953*—they are inviting architectural and general comment by exhibiting them to the public. Drafts of the new plans, with photographs and models, are on show at the Public Works and Municipal Services Exhibition, which remains open at Olympia until November 8.

These plans have "not yet been finalised. . . . They are in the nature of studies in the planning of narrow-fronted houses and two-storey flats and are presented here solely to stimulate study by the architectural profession." It is a good thing that the Ministry has at last turned its attention to the problem of narrow-fronted houses. Most architects have for long recognized that the low-density cottage estate or satellite town is, too often, only the developer's easy way out which, in fact, offers no real solution to the current problems of urban re-development. The recent Ministry report on *The Density of Residential Areas*, in which was advocated "more compact" towns with densities higher than in inter-war practice, assumes frontages down to about eighteen feet. It is characteristic of our time, however, that in presenting these narrow-fronted house plans the Minister should put them forward not as a contribution to an improved urbanism, nor as a sequel to the densities' report, but only as another economy measure—a means of saving road and sewer costs, and so on. For this reason, while we welcome the narrow-fronted house, we feel that architects should submit these plans to close scrutiny and constructive criticism, and in accepting any of them they should try to ascertain exactly what has been sacrificed in order to achieve this extra measure of economy.

There are six house plans in all, with frontages of 16 ft. 11 in. for two-bedroom types (end house of terrace only), 19 ft. 5 in. and 19 ft. 11 in. for three-bedroom types and 23 ft. for one four-bedroom type (again an end house). Two of the houses have open plans, with stairs rising from the living-room, and of these the three-bedroom one is probably the best of this kind so far published by the Ministry. When compared with similar types with the staircase enclosed, it shows very clearly how a far better and cleaner plan can be achieved in this way—given, of course, an efficient heating system and good insulation. Unfortunately, all too little is known as to what apparatus is available to do the job required at Ministry cost levels.

beautiful at the expense of our minds. Now, thanks to the report mentioned above, we know that TV has a "positive impact" on us. But heaven knows what significance the sociologists will find in the prospect of our spending our evenings in group-viewing—all huddled around one aerial. Doubtless we shall have to find a way of seeing without being herds.

PRIZE FOR PAINE

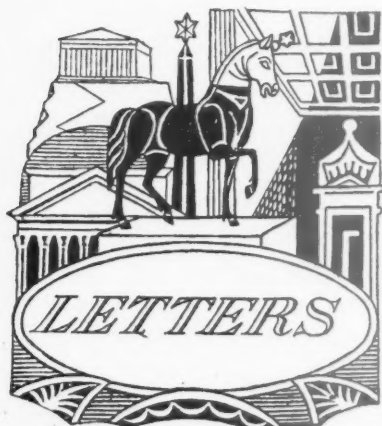
The other week the Education Committee of the South Eastern Society of Architects borrowed the lecture hall of 66, Portland Place in order to hold its annual prizegiving to students. This seems an excellent scheme, and it is entirely praiseworthy that a local architectural society should try to gather together the students from the several schools in its area under the great parental roof.

The students' work was on view and it came up to the standard one expects of the conscientiously-run schools of today. There were rather too many speeches made and proposals of hearty votes of thanks (don't let students learn too quickly what they'll have to face for ever after as the inevitable accompaniment to all architectural meetings); but it was a relief to ASTRAGAL to hear R. W. Paine, the President of the South Eastern Society and lively head of the Canterbury School of Architecture, telling students not to feel sorry for themselves just because jobs are becoming harder to get—and not to be "pernickety" in their choice of jobs either. Mr. Paine repeated a remark evidently made by an official architect at a RIBA council meeting recently that this official was able to give work occasionally to architects in private practice who were "starving in a wealthy sort of way"—a pretty accurate description of the sins of their elders which students can profit by.

BEDFORD SQUARE ROUND-UP

Mr. Anderson, this year's AA President, controlled Presidential Address night with a firm but light hand, re-erecting a number of useful signposts that had become indecipherable from prejudice and neglect, knocking the fence-sitters on to their feet, and giving a tolerant flick of the whip at the hobby-horses that clattered past his vision. A pleasant and thoughtful evening.

ASTRAGAL



A. E. Ward,
Secretary, Institute of Registered Architects

Neil Martin-Kaye, F.R.I.B.A.,
A.A.Dipl.

Michael Collins

John Moorhouse, L.R.I.B.A.,
A.M.T.P.I.

RIBA or ARCUK

SIR.—Mr. Secrett's letter (AJ, October 23) shows that not only does he not appreciate the serious position so rightly disclosed by your leading article, but he dares to suggest that there is decay in the RIBA!

He states "Registration denotes a minimum standard of competence. The acceptance of a minimum standard as the only standard signifies decay." As I pointed out, the RIBA Kalendar states "admission to the Register can now be obtained only by undergoing the system of training and passing the examinations accepted for Associate membership of the Royal Institute."

Therefore, clearly, the minimum standard to which he refers is the Associate membership of the RIBA.

Furthermore, Mr. Secrett states that if I were to have my way "the affix ARIBA would cease to have any significance as a professional qualification." This is not so: I maintain that the examination leading to the ARIBA qualification is on the same footing as the AA Diploma, the Liverpool University degree in architecture and others recognized by ARCUK, but the holders of these other equal qualifications do not require more academic merit by joining a private Institution.

It is for this reason that I stated "the essential qualification for membership of this or any other private institution should be registration."

That, I believe, is the true position.

A. E. WARD,

London.

SIR.—Mr. Secrett writes of the professional qualification "ARIBA" as though it were not the minimum standard required for Registration—the "mere pass" degree. Of course it is and its value is vanishing rapidly. In due course it will go completely, for everyone on the Register will come within its ægis.

The fact that the RIBA has so irrevocably harnessed itself to the Registration Act to

Can the two-storey flats be welcomed? One type has good floor plans, and "elevates" well, giving the appearance of terraces of two-storey houses with single-storey links, while the other three types have rather poor plans with complicated two-deep garden arrangements. If the object is to provide each family with a house in a two-storey terrace and with a garden, it seems odd to keep one family permanently *upstairs*—especially when neither the average frontages nor normal building costs appear to be considerably reduced. Is the Ministry pulling a fast one? If these two-storey flats were houses *at the same density*, the figures for minima total "aggregate living areas" would have to be complied with. But, statutorily, these figures do not apply to flats, and, in fact, the aggregate living area of some of these plans is 18 sq. ft. under the statutory minimum for the equivalent house. The plans will be published—with more comments—in the next issue of the JOURNAL.

the exclusion of a distinctive and appropriate post registration qualification is sorely lamented and bitterly resented by many within its fold. There is obviously a strong case for a post registration qualification of a higher standard but to date it does not exist.

London.

NEIL MARTIN-KAYE.

A New Black Country?

SIR.—Until fairly recently my knowledge as to the state of the new towns was confined to the study of written reports and photographs, after which doubts as to the actual desirability of such creations were largely dispelled. Recently, however, I have seen several of the towns and for some weeks have been studying Hemel Hempstead at close quarters. Favourable impressions of the high standard of design and layout appear to have been more than justified. But it is painfully obvious that the conception of the new town as a solution to the problem of "cleaning-up" existing towns is largely incorrect. Whilst understanding that humans are allergic to change of environment (an element encountered, and to a certain extent overcome, in previous re-planning schemes, e.g. Welwyn Garden City, the pre-war LCC estates), it is most disturbing to find that there is a disturbing tendency to destroy as well as create.

After only a year the condition of the Adeyfield residential area at Hemel Hempstead is reaching a state where, to the casual onlooker, it must appear that the whole scheme is just another way of producing slums, this time unfortunately on virgin soil.

The amount of damage done to the houses, streets and landscape is quite fantastic. With the growing number of broken windows and damage to woodwork the neighbourhood will shortly appear almost derelict. This wilful damage is not confined to houses.

Have we reached a point where advance and progress are impossible? Would it be wiser not to have New Towns, but to protect the remaining countryside and prevent it becoming "Black Country"? and this would spare feelings of all concerned in designing the new towns.

MICHAEL COLLINS.

Edgware.

Behind The Screen

SIR.—We have recently removed from our hearths the tapestried galleons and embroidered crinolined lady firescreens to reveal the equally depressing soot grimed maws, the backs of which declare themselves, in indelible block capitals, to be "THE MUDMARSH FIRE" or "KUMFY FYRE" or so and so's "PATENT No. 121416." Admittedly the figures may provide the numerologist with food for thought, as he sits adding or squaring the numbers to his mathematical delight. But now that our coal supplies no longer permit us generously and decently to efface these legends from the focus of many a winter's evening, one wonders whether manufacturers could not be persuaded to allow their goods to retain the same anonymity as, say, the tiles which usually surround them.

Eltham.

JOHN MOORHOUSE.

DIARY

Some Current Projects in Landscape Development and their Problems. Brenda Colvin. At 28, King Street, W.C.2. (Sponsor: Student Planning Group.) 6.30 p.m. NOVEMBER 6

Public Works and Municipal Services Congress and Exhibition. At Olympia. 10 a.m. to 6 p.m.

UNTIL NOVEMBER 8
Victorian Public Buildings. Prof. H. S. Goodhart-Rendel. At V and A Museum, S.W.7. 6.15 p.m. NOVEMBER 12

The Law and Planning. Desmond Heap. At 28, King Street, W.C.2. (Sponsor: Student Planning Group.) 6.30 p.m. NOVEMBER 13

Neighbourhood Layouts in New Town: Exhibition. At 13, Suffolk Street, S.W.1. (Sponsor: HC.)

UNTIL NOVEMBER 28
Works by Sir Frank Brangwyn. At Royal Academy Diploma Gallery.

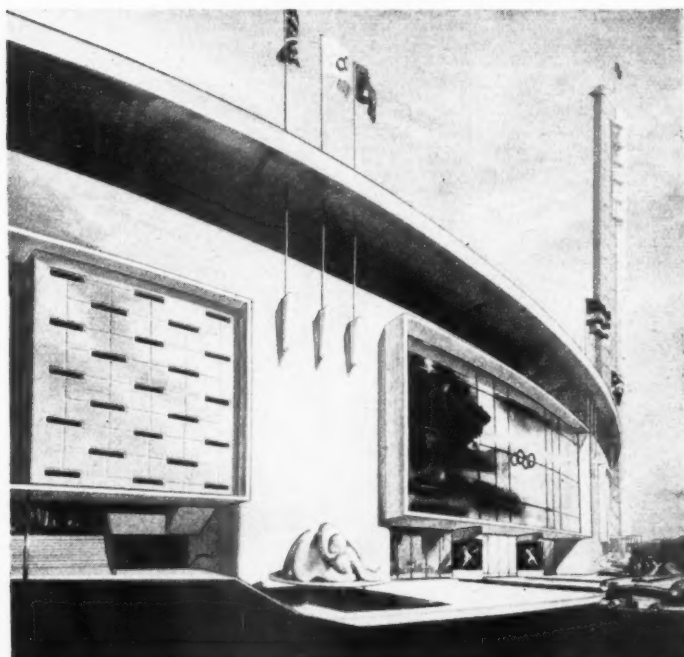
UNTIL NOVEMBER 30
Victoria and Edwardian Decorative Arts Exhibition. At V and A Museum, Kensington. 10 a.m. to 6 p.m. Sundays: 2.30 p.m. to 6 p.m.

UNTIL JANUARY 18

BUILDINGS IN THE NEWS

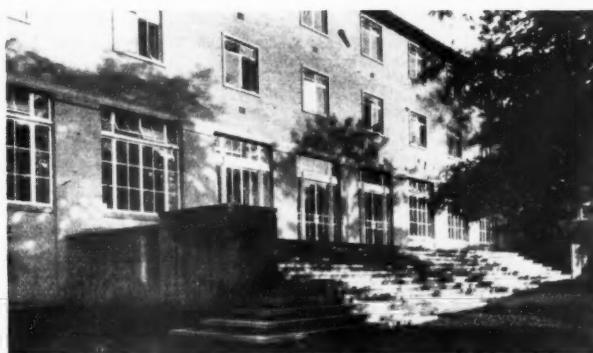
Olympic Stadium, Melbourne

The first prize winning design in an Australian national competition for the 1956 Olympic Games stadium was awarded to Frank Heath, a Melbourne architect. But although Mr. Heath has been commissioned to prepare full working drawings and specifications, his design "may be modified by features selected from work of the five other finalists."



RIBA Bronze Medal Winners

Cross Gates Branch Library, Leeds (left) was selected from buildings completed in the last thirteen years in the area of the West Yorkshire Society of Architects. (Architect: C. Castelow.) The Ethel Williams Hall of Residence for King's College, Longbenton, was chosen from buildings completed in the last five years in the area of the Northern Architectural Association. (Architects: Edwards and Manby.)



Cinema at Harlow New Town

The first cinema to be built in a New Town has been designed in the offices of Frederick Gibberd, architect-planner for the Harlow Development Corporation, under the direction of the executive architect, Victor Hammett, assisted by D. G. Goody. The cinema contains 698 seats on a single, gently raked floor. It has a vaulted auditorium. The consulting architect—for Harlow Cinemas, Ltd. (the lessees)—was S. B. Pritlove.





MOHLG

Development Charge Reviewed

The Government has reviewed the development charge imposed under the Town and Country Planning Act, 1947, and has reached a conclusion which will be announced soon to Parliament.

Harold Macmillan, Minister of Housing and Local Government, announced this at Southport last week when he opened the National Annual Conference of the National Housing and Town Planning Council. Speaking of the financial provisions of the 1947 Act, he said:—

"The point on which most criticism has fastened has been development charge, which (it is said) has not been working out satisfactorily in practice. Instead of being, as in theory it should be, part of the purchase price of land, it is in effect a tax.

"It is a tax, moreover, which has to be borne by the developer, whose enterprise ought to be fostered instead of hindered, at the time when he is least able to meet additional cost.

"The provisions about charge are, however, only part of a complex structure on

which much else depends, including the compensation which should be paid for planning restrictions and the price at which public authorities should be authorized to buy land compulsorily.

"In spite of the inconvenience involved, the government have therefore had to take time over their review, and they have been encouraged in taking time to think, by the knowledge that in the session 1951-52, there was not time to legislate. However, we have now finished thinking, and reached a conclusion. That decision will soon be announced to Parliament."

New People's Houses

In the same speech referred to above Mr. Macmillan spoke of new ideas in the planning of the People's House. He pointed out that new house plans, designed to save land and to economize in roads and services, would be on view at the MOHLG stand at the Public Works and Municipal Services Exhibition, Olympia. (The exhibition opened on Monday.)

These plans of houses with reduced frontages and of flats in two-storey buildings, each with an external entrance door and its own garden, are discussed in our editorial on page 545. They will be published in the JOURNAL next week.

"People's Houses are expected to save £150 in building costs," said Mr. Macmillan. "A reduction of six feet in frontages can mean a further saving of £25. The two together can effect a reduction of 3s. 2d. a week in rent. These savings in money must be coupled with savings in land. Agricultural land once taken out of production is virtually irreplaceable. One way in which local authorities can save land is by resuming the redevelopment of slum areas. I want local authorities to start thinking about this now."

MOW

Restriction in Use of Softwood

More than fifty operations in building work, for which the use of softwood is restricted, are listed in the Ministry of

Works' new economy memorandum for timber.*

In the majority of items the effect of the restrictions is to prohibit the use of softwood altogether. In others, restriction applies to sizes. These in the case of floor and ceiling joists, rafters, purlins and floor boards, are specified for particular span and loading in tables given as appendices to the memorandum. In a few cases, for example in shuttering and formwork, the use of softwood is permitted only where alternatives are impracticable; or the restriction may apply to new softwood, as in hoardings, temporary guard-rails, etc., where salvaged timber can be used.

Alternatives are suggested, such as hardwood, concrete, brickwork, asbestos cement sheeting, etc., because, as is pointed out in the memorandum, since most timber used in building is imported, and its cost in sterling and foreign currency accounts for a large part of the nation's raw material imports, it is imperative that stocks are used to the best advantage and without avoidable waste.

All government departments concerned with building have been urged to secure compliance with the memorandum. Requirements of softwood will be examined in the light of the memorandum, and the amount authorized will be based on observance of the restrictions laid down in it.

The memorandum does not apply to Scotland, for which a separate edition will be published.

* No. 4, Use of Timber in all Building Work. Published for MOW by HMSO, price 6d.

COID

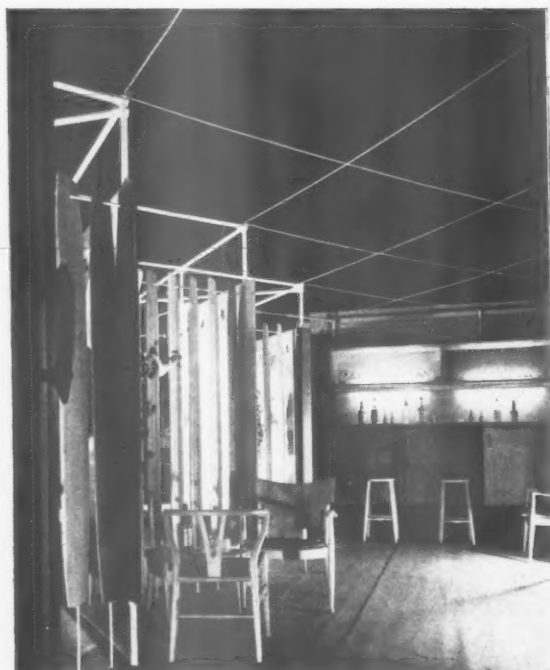
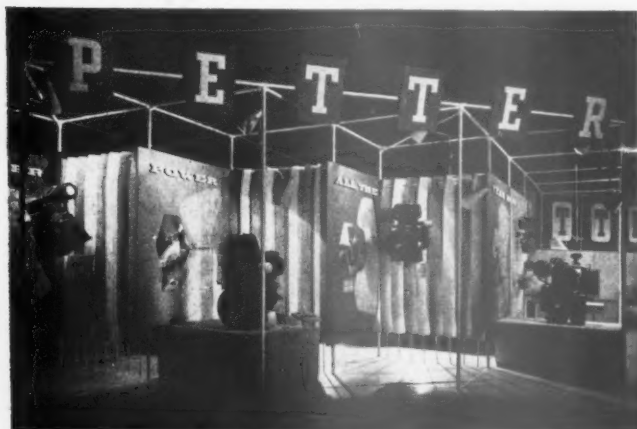
Coronation Souvenirs Exhibition

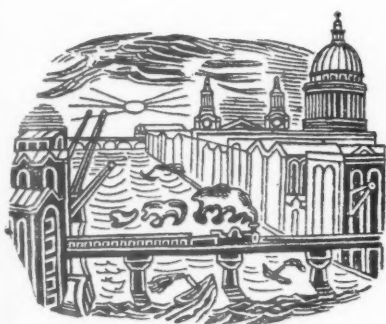
Next week a small exhibition of coronation souvenirs approved by the Coronation Souvenirs Committee will be opened at the COID's headquarters, Tilbury House, Petty France, S.W.1. It will be open to buyers, education authorities and the Press until January 24.

So far the Committee has approved 182 out of 608 designs submitted by manufacturers and has provisionally given approval to fifty-five more. A public exhibition will open in London on February 24.

STAND AT THE DAIRY SHOW, OLYMPIA

The stand for Petters, Ltd., at the recent Dairy Show, Olympia, was designed by F. M. Gross. Below: engines placed in front of screens depicting the four seasons of the year in pattern, photography and colour. Right: the bar. The stand was constructed on a grid system. It had to comply with a regulation that only about 25 per cent. of the stand area might be built up to a maximum height of 9 ft. No roofing was allowed.





What conclusions about the future of house property can be drawn from the housing figures published in the 1951 census? In his first of a series of articles Mr. Watkins gives an answer to that question.

ERNEST WATKINS

The Future of House Property

There are some 14,300,000 houses in the United Kingdom. Of these about 1,300,000 are less than seven years old and 2,300,000 more than eighty years old. In the twenty years between the 1931 Census and the 1951 Census, the number of available dwellings increased by about 3,000,000 and the rate of the building of new houses is still rising. Any policy for the future of house property must make two provisions: additional dwellings must be provided to meet whatever shortage there still may be, and the protection and, if practicable, the improvement of the existing stock of houses in which, at least for a generation, the majority of people must continue to live. This article is concerned with additional dwellings.

THE UK'S HOUSING NEEDS

It is impossible to estimate the exact housing needs of the United Kingdom, yet it is essential that an attempt should be made to do so. It is impossible because there are too many variables in the calculation. It is essential because no Government could contemplate basing a long-term policy on, in effect, choosing a number and sticking to it. What might be called the ground-swell in the demand for houses must depend on cost and availability, but the surface waves and cross-currents are very powerful. At what stage, for example, does the young married couple set up a separate home? It is not necessarily at the exact moment when their income is sufficient and there is a house to be had. All sorts of personal and social considerations will also affect the

moment of decision. So, since the authorities have no means of knowing for certain what people want, or will want, they are driven to decide their housing policies by what they think people should have. In doing so, it is possible that they may approach the problem from one of two angles—how much money the country can afford to spend on housing and how many houses should be built or rehabilitated each year to enable housing generally to attain a given standard in a given time.

ANNUAL EXPENDITURE

Today the country is spending on new houses at the rate of £375 m. a year, i.e., 250,000 houses a year at, say, an average cost, all in, of £1,500 each. Last year the total was £335 m. Next year it may approach £400 m. That may be called a fresh investment, although, obviously, a proportion of the new houses are replacements of wastage. The total capital investment expenditure of the country for 1951 (as shown in the recent Blue Book on National Income and Expenditure) was £1,862 m., of which housing accounted for £335 m. and plant and machinery £794 m. This figure is certainly in excess of the amount of the national income "saved" for the year; by how much is a matter of argument since the official figures include some element of fictitious saving, in the shape of increases in the value of stocks due solely to subsequent rises in price. The *Economist* estimates that the national savings for the last six years have averaged no more than £463 m. a year. Other economists would put the figure at something like twice that amount. One other point is clear from the official figures in the Blue Book; on balance the private investor has disposed of, not accumulated, capital during the last four years.

The argument from this line of approach is that our current expenditure on new housing almost equals the total of all our national savings and therefore forms too great a proportion of our total capital expenditure. We are using in housing too much money, labour and materials, all more urgently needed in the improvement of our earning capacity in industry. New housing does not increase our means of improving our standard of living. It should be one of the objects for expenditure towards the improvement of our standard of living, but to be made out of our savings from the national income only when we can afford to spend that money outside our business needs.

But let us approach the problem from another viewpoint. How many new houses do we need each year to establish a desirable standard of housing for all? If it is assumed that at the end of 75 years a house will need either replacement or the equivalent

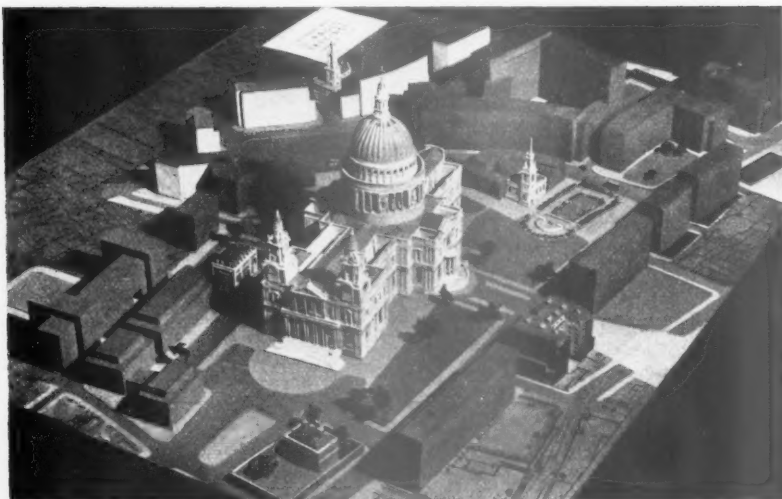
in reconstruction, the annual programme must cover $1\frac{1}{2}$ per cent. of the total of houses in existence—some 200,000 a year. It is estimated that the population will increase by about 3·8 per cent. over the next decade. The increase in the number of dwellings needed to meet this increase may be of the order of 2 per cent. over the period, say 30,000 houses a year. In addition, there is the special problem of the admittedly sub-standard houses, ranging from the worst of the industrial slums to the post-war prefabricated dwellings. The *Times* recently estimated that we should need 200,000 new dwellings a year for 20 years to replace them. This total is 430,000 houses a year, and still such a programme would not be designed to increase the amount of accommodation available per head of population beyond its present figure.

This would mean building new houses at the rate of 3·1 per cent. of the total stock per annum. That is a rate only exceeded during the period 1934-38, when the rate was 3·2 per cent. The annual rate between 1949 and 1951 has been 1·4 per cent. and the building industry has still not regained its pre-war level of production per man.

One other relevant fact should be taken into account. From the first results of the 1951 Census it would seem that, could we re-arrange all housing accommodation, at least in England and Wales, on the basis of need, the present supply is numerically adequate. There are enough habitable rooms in England and Wales to provide every household with one room for each person and, in addition, one extra room as a living room. There are more households with surplus accommodation (4,500,000 surplus rooms) than those with deficient (the deficiency is 2,225,000 rooms).

TOO MANY NEW HOUSES

The conclusions one can draw from these figures, so far, are these. Our present rate of house building is just about equal to the rate at which we should replace our existing stock, leaving out of account any desire to make a special effort to rid ourselves of the worst of the Victorian legacy. Further, in terms of accommodation per head, we are not very far short of providing a reasonable standard for each household. But the economists would say that, given our present rate of national saving, we are devoting too high a proportion of these savings to the construction of new houses. That conclusion can be put in the form of the next question: are we paying sufficient attention to the question of rehabilitation of our existing stock? In other words, would we get better value if we spent £1,500 on rehabilitating five old houses instead of using it to build no more than one new one?



Is it possible to re-plan a bomb-damaged area in such a way that the former inhabitants of buildings in the area can be treated fairly? The 1947 Planning Act insists that this shall be done. The following article shows how in one area—around St. Paul's (see model of proposed development above)—pre-war tenants' claims are being met.

REDEVELOPMENT IN THE CITY: HOW PREVIOUS TENANTS CLAIMS ARE MET

Section 19 of the 1944 Planning Act (the first Act to deal comprehensively with the problem of the redevelopment of areas of extensive war damage) laid down a code of procedure for local authorities. The provisions of the Act were contained, with minor amendments, in the 1947 Act, when the 1944 Act was repealed. Local authorities are entitled to acquire compulsorily the whole of a war damaged area. Having done so, they are free to plan new development. They may dispose of land to developers, i.e., to "such person, in such manner . . . as may appear . . . to be expedient in order to secure the best use" [of the whole area].

However, a local authority may not sell the freehold of land except in exceptional circumstances (and then only with the Minister's consent). Development must be based on a 99-year (or shorter) lease. It must use its powers to enable those who previously lived or carried on business within the area to have "an opportunity to obtain therein accommodation suitable to their reasonable requirements on terms settled with due regard to the price . . ." paid by the authority when it acquired the land. That, obviously, raises two problems. Is it possible to re-plan the area in such a way that the former inhabitants can be given accommodation which is reasonably equivalent to that which was destroyed? Can the authority obtain terms from the re-developer, which are not "less than the best which can reasonably be obtained"? There are provisions in the Act which give the former inhabitants a right to apply for arbitration over the terms offered if there is disagreement. Many, however, may not be able to afford a rent based on the cost that a new building would set.

The development of the damaged area around St. Paul's Cathedral is the most complicated of the schemes yet tackled by the City Corporation. Rebuilding further east—in Fenchurch Street and Walbrook—involves no radical change in the original

layout and character of the immediate neighbourhood. But, round the Cathedral there are to be considerable changes. Vistas are to be created and transport arrangements are to be improved. Before the blitz, the area consisted mainly of small buildings—offices, showrooms, stockrooms, workrooms, small warehouses and shops concerned with textiles. The area when rebuilt will have changed in appearance and style. The textile houses have moved elsewhere in London. Nevertheless, the requirements of the Act remain.

The City Corporation met its obligations to tenants by first, advertising the inception of the redevelopment programme, for the benefit of those former occupiers who might wish to return. One hundred and eighty-four of them replied, saying that they wished

to return. These were then divided into three groups:

(a) Those who had retained an interest in the land until its compulsory acquisition and who were still in business (total 88); (b) those who had retained an interest in the land but who were no longer in business (total 3); (c) those who had disclaimed their former interests in the land (they would be lessees or tenants—their number was 93).

The Corporation took the view that those in classes (a) and (b) had a legal right to be offered accommodation; not those in class (c). But class (c), it felt, had a moral claim.

With this information available, the Corporation negotiated for the redevelopment of this area with a single firm of contractors, Messrs. Trollope and Colls Ltd. and for this particular area it decided to provide accommodation for offices, stockrooms and shops only. No warehousing accommodation was to be included. The agreement covers the former inhabitants in this way.

The Corporation accepts responsibility for the list of those entitled to the offer of accommodation, and for all claims by them under the Act. Those accepted by the Corporation are termed "nominated tenants." The contractors accept responsibility for providing accommodation "suitable to the requirements" of the nominated tenants in the new buildings, but, within those buildings, as they shall decide. The Corporation acts as the contractors' agent in "marrying" each nominated tenant to the accommodation reserved. A vital question is rent. On that, the agreement is that the contractors shall receive a full market rent from all nominated tenants, and that in case of dispute the rentals and the terms and conditions of the leases to the nominated tenants are to be settled by arbitration. The ground rent payable by the contractors for the whole site is a minimum of 12s. per sq. ft. with a maximum of 15s. per sq. ft. (in terms of yearly rent, £14,910 minimum and £18,637 maximum). Apart from the rents of the nominated tenancies, the contractors are free to obtain the best rents possible. The terms of this agreement have now been approved by the Common Council and are likely to form the basis of other development plans in the City.

Inevitably, redevelopment has won whatever battle there was with those who wanted the old area to be reproduced very much as it was. The interesting thing is that, despite the radical changes proposed for the St. Paul's area, no fewer than 184 of those who were there before would like to come back to it, and 88 of them would, presumably, be prepared to give up their existing premises in order to do so.

ERNEST WATKINS



Proposed development of St. Paul's area.

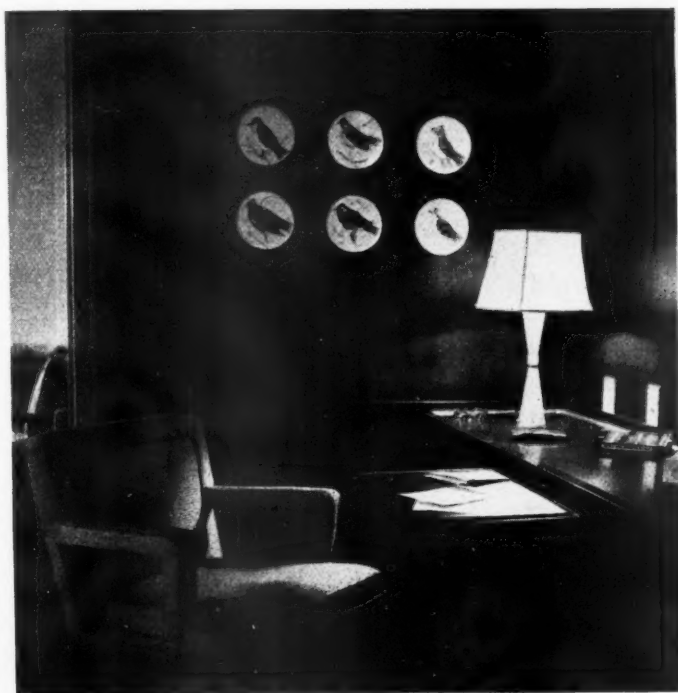
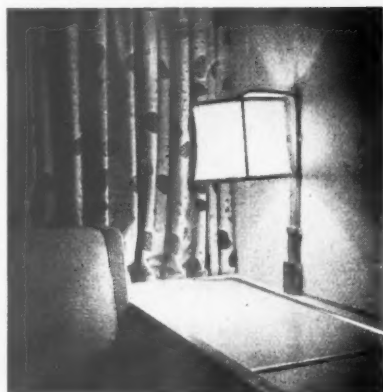
S.S. UNITED STATES : SHIP INTERIOR DESIGNED WITHOUT USE OF WOOD



This now world-famous ship contributes to the development of good ship interior design by being fairly free from the vulgar enrichments of which ship designers are so frequently fond. The firm of decorators concerned with the interior of the S.S. "United States" were Smyth, Urquhart and Marckwald of New York. The naval architects were Gibbs and Cox. The interior architects were Eggers and Higgins of New York. The ban on the use of combustible materials, particularly wood, has largely contributed towards the pleasant austerity of design, but it has not prevented a modernistic tendency which other ship interior designers, notably the Scandinavians, have managed to avoid. Left, one of the main staircases showing plaques in metal by Austin Purves. Floors are black and walls grey, within aluminium framing. Below, the neat and simple lift doors with notice-board alongside.



Below left, two first class staterooms showing in one case the combination chest of drawers and dressing table and in the other a glass topped chest of drawers. The light fitting in the lower picture is supported by the conduit. Below right, a corner of one of the de luxe suites ; the enamel plaques depict American birds.





S.S. UNITED STATES: SHIP INTERIORS

(Continued from previous page)

The observation lounge (below) runs the full width of the ship. It is remarkable for the way in which colour, rather than form, has been used. The carpet is a dark grass green. Chair fabrics are of two colours, one is a bright apple green and the other a combined light and dark blue diagonal stripe. Walls are a pale blue-grey, and the curtains are in six shades of blue and green vertical stripes with gold and silver metal threads interwoven. Left is one of the writing desks in dark blue aluminium, patterned with silver rectangles. Below left, a corner of the library showing a typical light-fitting bracketed from a mirrored wall.



Below are three views of typical corners of some of the public rooms. Centre, a detail of the tourist-class smoking room. The walls are off-white; the floors black with white check; the chairs are strong orange; the curtains have a spot design in green, lime, Indian red and yellow. Right, below, is a corner of the first-class cocktail lounge. The chairs are in red, white and yellow leather; walls are nigger brown; table tops and legs, black. The murals, of which one is shown, are on a light brown background with Indian red, black, yellow and blue colours predominating. They are designed by Peter Ostumi and represent ritual sand paintings of the Navajo Indians.



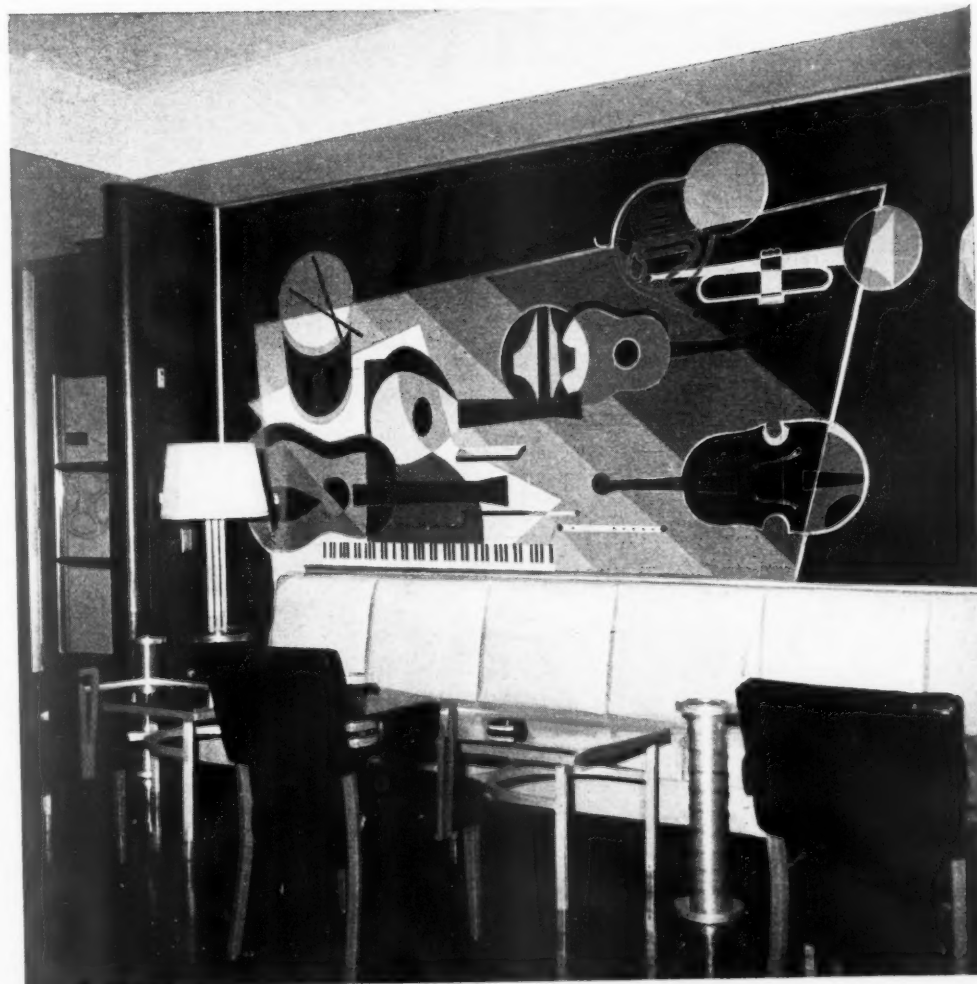
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SHIP INTERIOR DESIGNED WITHOUT USE OF WOOD



A conspicuous feature of the first-class ballroom, extreme left, is a number of glass panels designed by Charles Gilbert. Walls are covered with pale gold leaf and the fitted carpet is dark red. The chairs are upholstered with a coral-coloured chenille weave. The first-class dining room, left, is one of the few public rooms which rises through two decks. Walls are oyster-white, floors black rubber and curtains off-white with gold and silver thread. Tables are provided with individual lamps.

Right, part of the cabin class smoking room. The floor is black with white flecks. The chairs are covered with black leather, the metal legs and arms being painted red. The settee is covered in cream leather. The walls are dark green. Curtains are red, white and grey in diagonal stripes. The mural of musical instruments is painted on aluminium.





Following is part of the inaugural address of Howard Robertson, the RIBA president. It was given on Tuesday at 66, Portland Place.

RIBA

President's Inaugural Address

To define architecture with a bluff terseness as "shelter" was a popular gambit with the sponsors of the functionalist creed when it was being developed before this war. The term was very properly used to clear the ground. But like all over-simplifications, it became dangerous. For to accept it without qualification would be to endorse a universal expression of building based primarily upon the spread of international structural techniques. This would logically lead to indulge again in over-simplification, to the emergence of an international architectural expression, adopted regardless of peoples or climates; something imposed by the sheer power of techniques if not by the remorseless fanaticism of the disciples of an "ism."

A DANGEROUS TENDENCY

Not many moments of reflection are necessary to show how dangerous it would be to regard art and architecture as subject only to the rational factor and the pressure of a kind of world mass-production, the ostensible motive power of which would be the satisfaction of material and economic needs. Out of this process there would almost certainly evolve new minimum standards, diminishing like those sets of boxes within a box. Apart from the crushing of the humanistic spirit, there would come the corollary of the awful monotony of high speed travel, faster and faster, by supersonic or atomic machines, to visit places and their peoples would be living, working, and worshipping in buildings as like as to those we had just left. A world, I fear, tending towards a major and soul-destroying boredom.

Buildings—houses in particular—have today to be designed for cheap and speedy erection to meet a desperate need. Plans of standard type are produced, with elevations more or less off the peg. This may be a present necessity, but one hopes it will be considered an undesirable policy for domestic needs over the long-term period. Let us not lose awareness of the psycho-

logical dangers of excessive repetition, and consider on the practical side the slum-creation possibilities of multiplying repetitive types based on expediency alone. Although manufactured homes can fill specific needs and have attractive export possibilities, there must surely be for us some better solution than that of evolving a packaged architecture, which incidentally produces its own peculiar problems of obsolescence. The greatest attention should, I feel, be paid to conserving our existing buildings and to encouraging regional traditions, and to ensuring continuity in the erection of a few really fine quality buildings, as one would plant a new tree, to replace those that have fallen through old age or misadventure.

NECESSITY AND IDEALS

It seems to me that the key to avoiding the pitfalls of sheer expediency lies in studying our building needs from a dual angle; on the one hand that of prime necessity, and on the other that of national ideals. Following such study would come a programme for the practical means of fulfilment, embodying, as I think it should, a fresh approach to the possibilities of closer collaboration between architects and the building industry; including amongst other aims that of maintaining the local and regional materials and crafts which in the past have made our small country so entrancing to explore.

A further task is to find some way of ensuring the decencies of planning and design without excess of baffling regulation and control. Better here perhaps a few mistakes and failures than a gradual killing of the adventurous creative spirit. Architecture can never thrive in any society which comes to accept its notions of what is seemly from regulations or the findings of committees, however qualified their members. It must find its own level. History shows that buildings of merit are not always recognized at once. But if there is a strongly nurtured culture in a country and education puts more stress on the importance of orderliness and good manners, the worst aberrations would gradually cease to happen; and the minor ones remain only as warnings or possibly as intriguing curiosities.

You will gather that I, personally, am worried over the likelihood of a failure, not so much to maintain our architectural heritage in the National Trust sense, as to define a policy to renew and enrich it. I feel, and fear, a decreasing appreciation of quality, the lack of affectionate care in siting and designing in suitable materials many of such buildings as are important enough to have an impact on the limited spaces of this little island. Every architectural achievement enriches, but each blemish or blunder helps to whittle away our dwindling national store of architectural beauty. It is true that between the very good and the deplorable we can distinguish an architectural zone of perhaps decent but undistinguished accomplishment, a sort of multi-purpose production, an "*architecture d'ameublement*" — to borrow a simile from Constant Lambert. Such a non-committal safety-first architecture develops all too readily under the stress of present-day conditions.

To restore one's ebbing confidence, there is happily to be found a rich vein of architectural talent in this country, and it has been tapped to considerable effect by some of our more enlightened public authorities. Architects working in a contemporary spirit have excelled themselves in many instances. There is here only one sad reservation to be made, that in so many cases the materials are, through force of economies, unworthy of the design, while in others has been attempted a brave-new-world look which will not long resist the rigours of our climate. An architecture for the British Isles must be conceived not for

the benefit of the photographer on completion, but as one that really weathers. And where we lapse in that respect we show failure to appreciate one of the best aspects of our own fine tradition.

ARCHITECTURE: A PUBLIC SERVICE

Architecture is a service to the public, and that is something apt to be forgotten; but it should be nevertheless practised as an art, as something more than a commercial pursuit. The qualified architect is a custodian of standards, a trustee for his clients' interests, a judge of the suitability of sites and buildings, and one who spends much of his life between the upper millstone of his clients' needs and the nether one of a stony finance. For him, therefore, business knowledge is obligatory; and having to deal with enactments and councils and corporations, he should be a bit of a lawyer too. He should, of course, possess an alert knowledge of engineering, structure and materials old and new, of drainage, heating, lighting, interior decoration and furnishings, and the specific requirements of many specialized buildings. He must also be a psychologist, understand all men and some women, have infinite patience and philosophy, and be prepared to be occasionally rung up out of hours by agonised and peremptory voices. He must have the habit of committees and their chairmen and come to know which type does not understand line drawings and the *neue Sachlichkeit*. He must be capable, when roused, of being a forceful salesman, but on other occasions must learn to repress an anxious eagerness. He must be familiar with all questions of licences, permits, town planning enactments, and the latests and stiffest hurdles constantly erected by resourceful legislators in front of any new building project. Like a surgeon or a doctor, he must keep abreast of all research and inventions, and read much more than the equivalent of the *Lancet* or the *Practitioner*.

It is just as well that he should be presentable, clean, cultivated, knowledgeable about painting and sculpture, and able to put up a good case when the inevitable storm breaks over applied art in his buildings and the Philistines come upon him. He must, finally, be prepared for capricious and uncontrollable variations in his annual income on the all-or-nothing scale.

Should any builder, quantity surveyor or engineer, wish to lay a claim to the above qualifications as additional to his own, I can only conclude that he is not fully occupied in his own trade or profession, or that he is looking blissfully—altogether too blissfully—over the garden wall. Nevertheless the wind of criticism and disquiet has blown against the profession of architect, including gusts from within the industry itself. Professor Gropius, for example, late of Harvard, would like to see the architect functioning also as a master builder. And a contractor, Mr. Levitt, who has built hundreds of small houses in the USA, has said in public that the architect is just a headache: though the odd thing is that in many speculative building enterprises an architect, of a sort, can be dimly discerned in the shadows of the back-room.

DESIGN CONSIDERATIONS

Most practising architects today have come to realise that it is fitting to design and build in the spirit of our time. But many of us dislike to be pushed about too obviously by any clique or preached at by propagandists. With maturity in our professional life comes the thought that gradualness is not to be despised; that quality endures where excitement quickly palls; that no building should be critically judged in isolation from its context and without knowledge of all the factors in the particular building problem; and that conditions of climate, and considerations of maintenance, are major considerations in designing.

PROJECT FOR UNESCO HEADQUARTERS

in PARIS

designed by MARCEL BREUER, BERNARD ZEHRFUSS

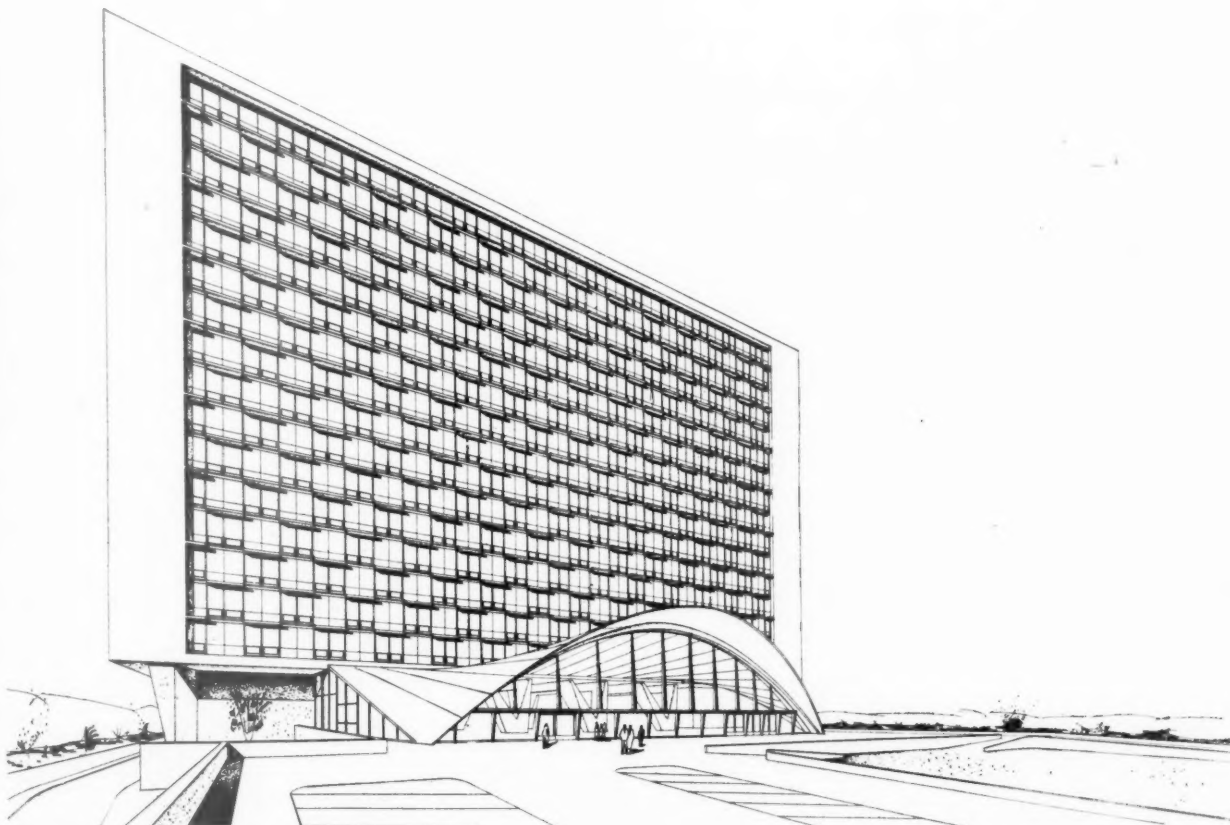
EERO SAARINEN, consultant

advisory panel : LUCIO COSTA, WALTER GROPIUS, CHARLES

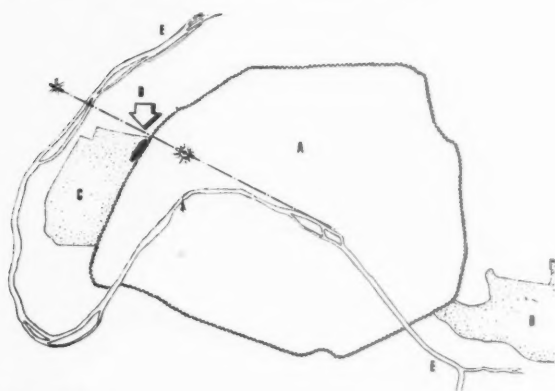
LE CORBUSIER, SWEN MARKELIUS, ERNESTO ROGERS

PIER LUIGI NERVI, engineer

Plans for a new headquarters building for Unesco, in Paris, are to be submitted to a general conference on November 12. The estimated cost of the building is nearly £2 $\frac{3}{4}$ million. The money would be made available, as an interest free loan, by the French Government.



The main lobby and office building from the north-east.



Location plan

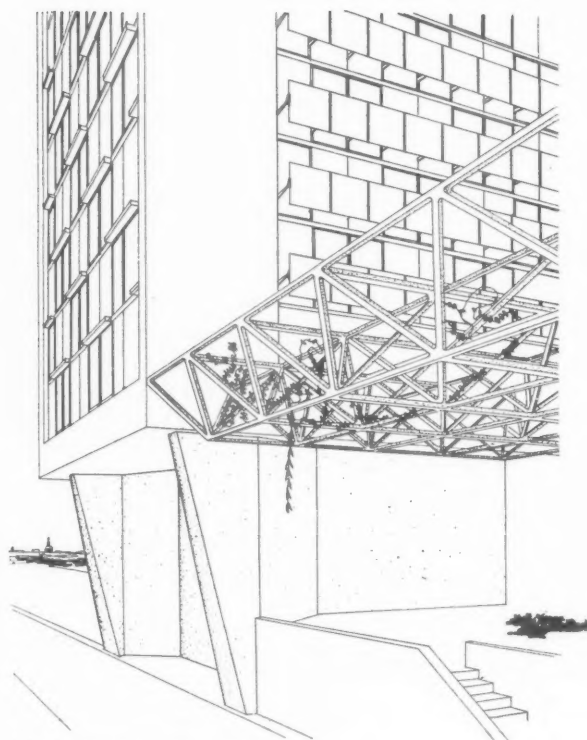
UNESCO HEADQUARTERS

in PARIS

designed by MARCEL BREUER and
BERNARD ZEHRFUSS

KEY TO LOCATION PLAN

- A. City of Paris
- B. Bois de Vincennes
- C. Bois de Boulogne
- D. UNESCO site
- E. River Seine



Pergola over restaurant terrace.

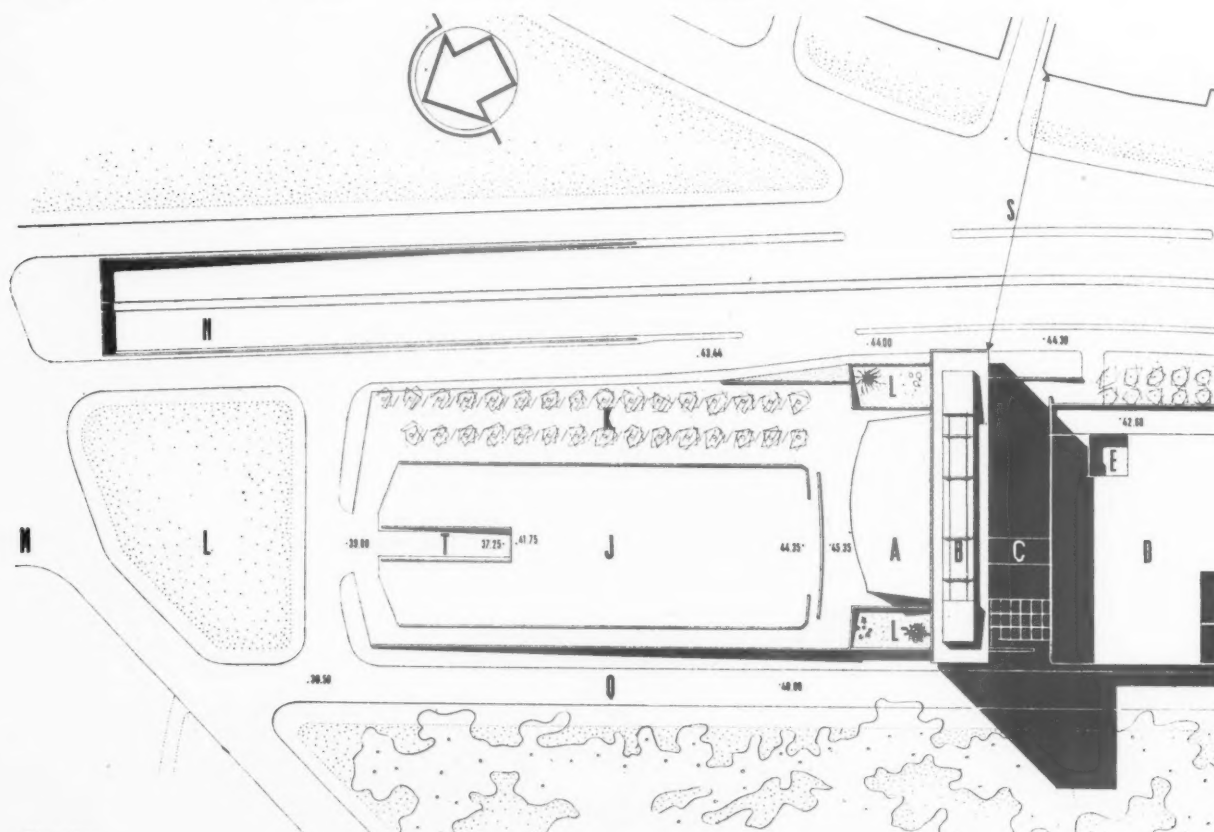
KEY TO SITE PLAN

- A. Main lobby
- B. Office building
- C. Central patio
- D. Central building
- E. Small patio

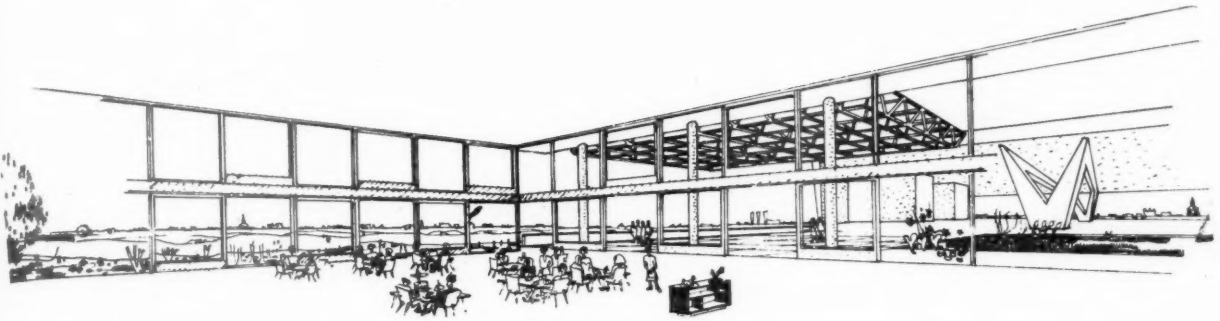
- F. Delegates' patio
- G. Plenary hall
- H. Open-air theatre
- J. Piazza
- K. Parking, 106 cars—outside only

- L. Gardens
- M. Porte Maillot
- N. Thierry de Martel underpass
- O. Porte Dauphine
- P. Amiral Bruix underpass

- Q. Avenue de la Division Leclerc
- S. Minimum building-to-building distance: 270 ft.
- T. Vehicles



Site plan

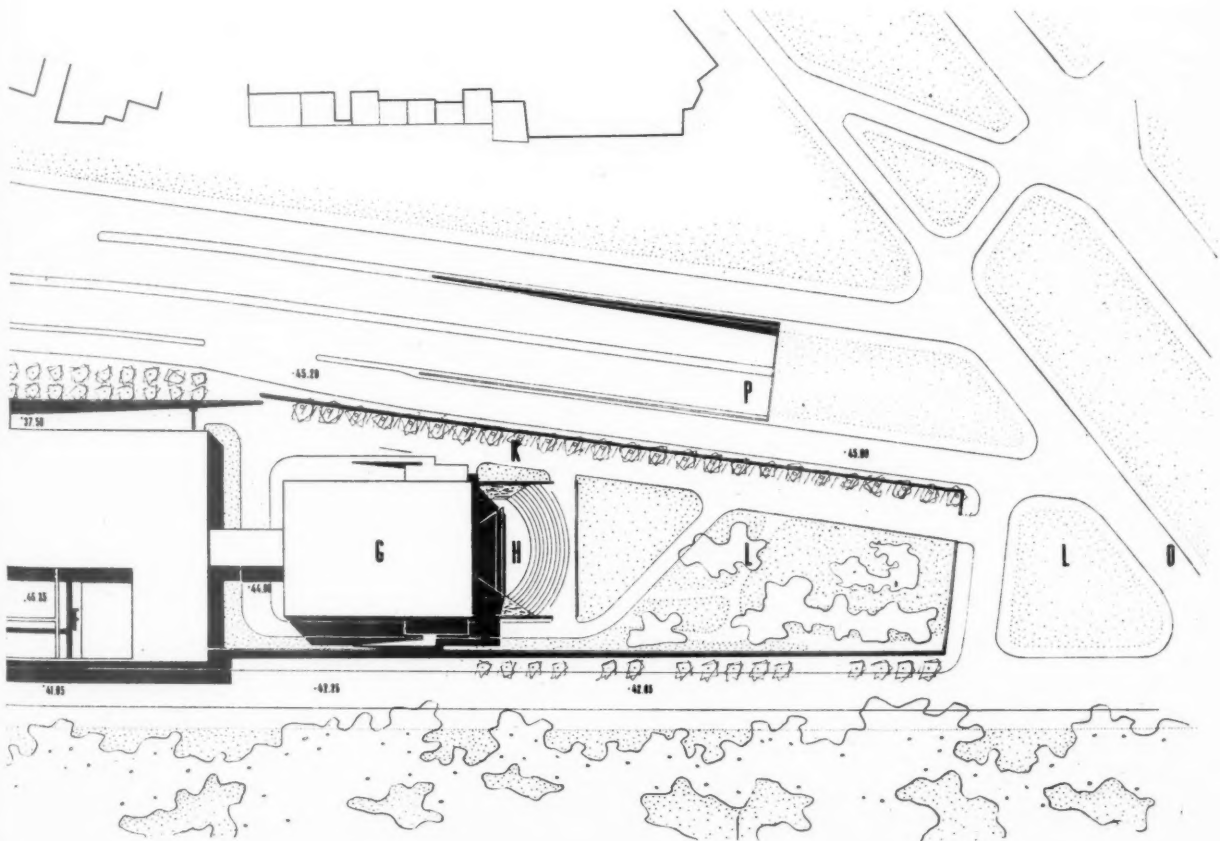


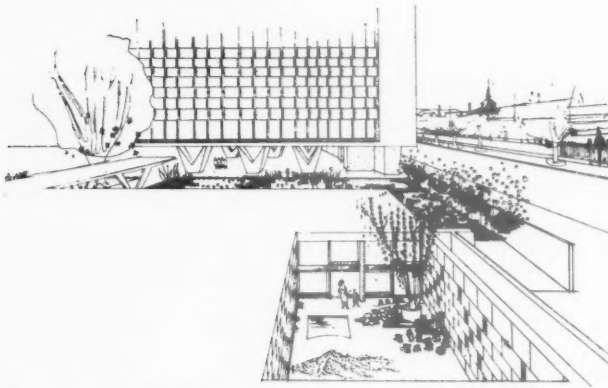
Perspective of restaurant overlooking terrace and the Bois de Boulogne.

SITE.—The site chosen for the Unesco headquarters building is on the west side of Paris on the site of the old fortifications, bordering the Bois de Boulogne, between the Porte Dauphine and the Porte Maillot. The site measures approximately 2,200-ft. from north to south and 280-ft. from east to west. The ground slopes down approximately 22-ft. from the Porte Dauphine end to the Porte Maillot end. The site along the Bois de Boulogne is roughly 13-ft. lower than along the Boulevard Thierry de Martel. The site analysis shows a sufficiently thick layer of

coarse limestone to make the construction of adequate foundations for the building relatively easy.

PLAN.—All offices needed for Unesco's permanent operations are grouped in a single sixteen-storey structure. All conference facilities are grouped around one main element, the lounge, where the delegates may meet informally. Round this lounge are grouped the plenary hall, the commission and committee rooms, the executive board rooms, the delegates' patio, the conference secretariat and the





The small patio in the nursery school.

UNESCO HEADQUARTERS

in PARIS

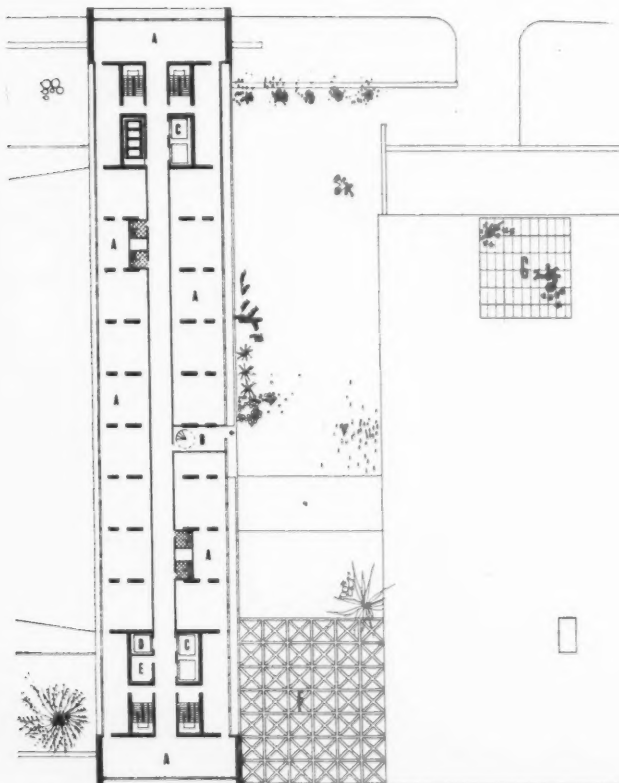
designed by MARCEL BREUER and
BERNARD ZEHRFUSS

KEY: OFFICE BLOCK

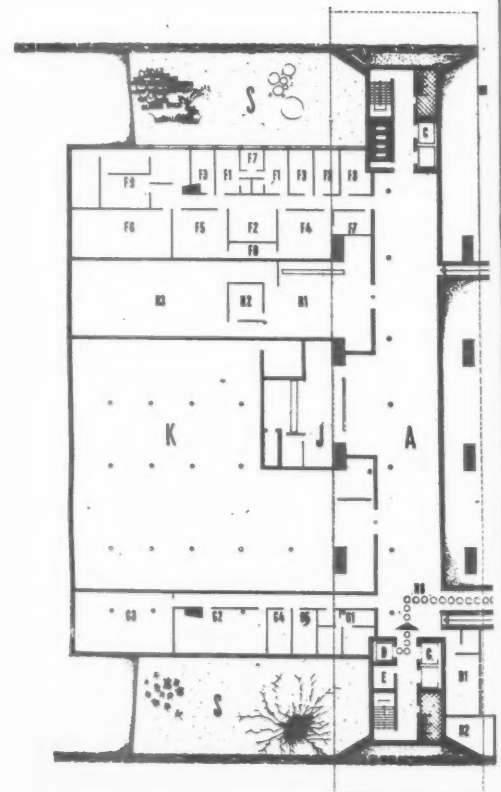
First Floor of Office Building
and Roof Plans

- A. Office space to be partitioned
- B. Stair reserved for firemen
- C. Lifts

- D. Goods lifts
- E. Mechanical sub-station
- F. Pergola on restaurant terrace
- G. Small patio



First floor of office building [Scale: $\frac{1}{4}'' = 1' 0''$]

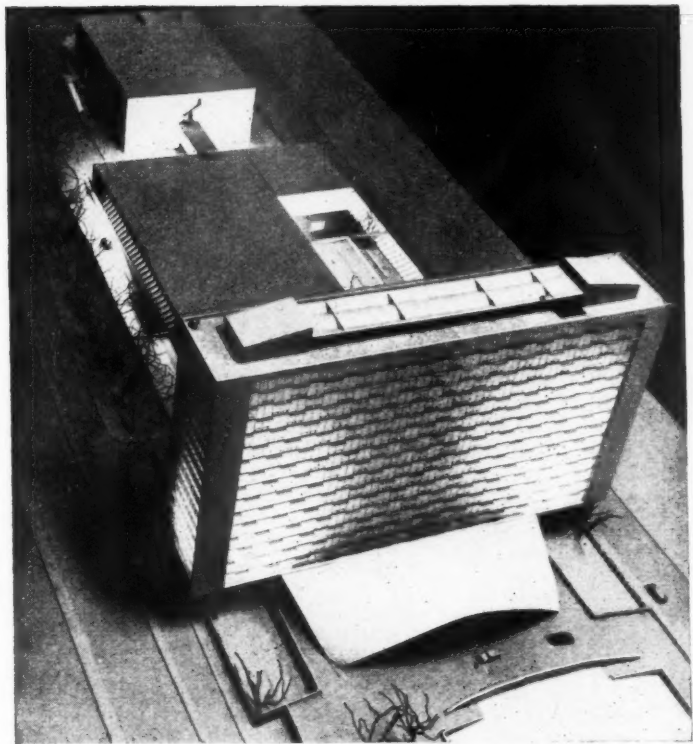


Sub-basement [Scale: $\frac{1}{4}'' = 1' 0''$]

press, radio and television facilities. The restaurant, with its bar and cafeteria, and the library are placed between the office building and the conference area. The documents and publications service, together with the mail despatch service, has been designed as an industrial organization with a smooth-flowing production line on one level. It is adjacent to the loading platform for delivery and despatch by truck. The need for horizontal extension to these, as well as to the storage services, dictate their location under the central building. Cars enter at each end of the grounds. Outdoor parking among trees for 106 cars is provided close to each entrance; underground parking for 107 cars, accessible by two ramps is located under the central building. Vertical circulation in the office building is provided by five lifts, one of which will be used for freight, except in rush hours. This arrangement has been studied by experts with a view to assuring an efficient and economic solution.

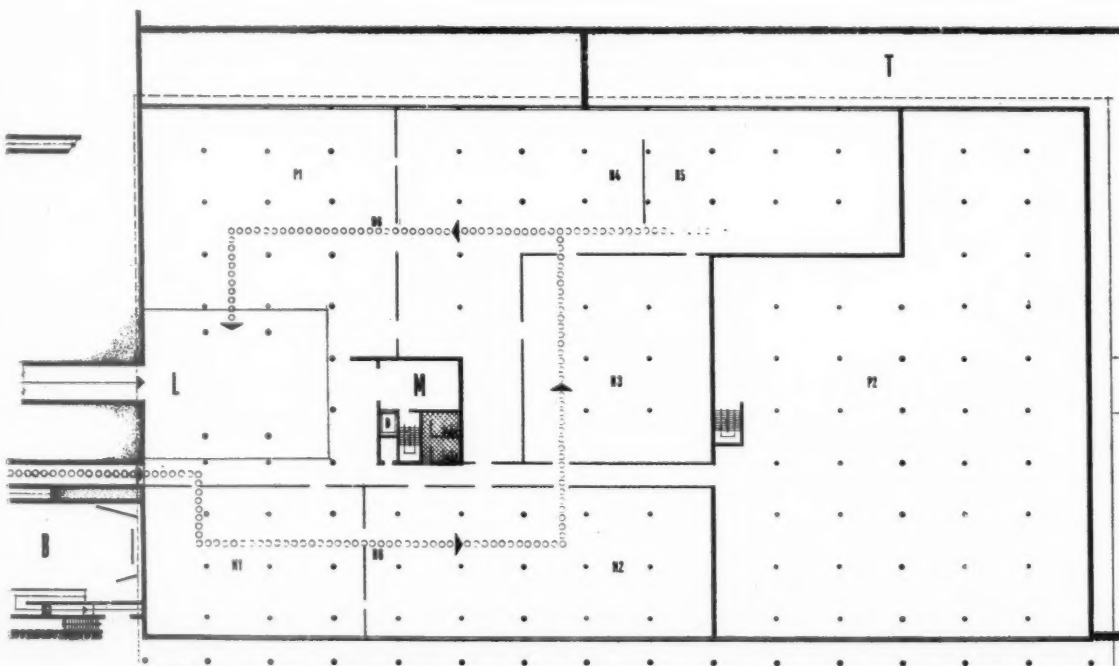
CONSTRUCTION.—The design emphasises the plastic qualities of reinforced concrete, which is used

structurally throughout. The frame of each section of the building reflects a careful analysis of the factors of the structure's own weight, flexibility and economy. In order to make the ground floor as open as possible, the office building is carried by eight V-shaped supports and the two solid enclosures of the staircases and lifts. On the upper floors, the pillars are placed at regular 20-ft. intervals. The floor construction of the central building is designed for heavy loads, carried by large crossbeams supported at 24-ft. intervals. The floor slabs are reinforced by an arrangement of isostatic beams (system Nervi-Bartoli-Arcangeli). Over the ground floor the longitudinal span of the structure is increased to 68-ft. This permits the enclosure of the large interior spaces and provides flexibility for later changes. The main lobby is covered by a concrete shell, reinforced with a system of geometrically arranged beams, visible from below. This shell is supported on the north by a parabolic arch, and on the south by the main slab of the floor above, without any inner columns. The roof of the plenary hall is supported by a diagonal system of



The model from the north-east.

- | | | | | |
|--------------------------|-------------------------------|-----------------------|---|---|
| KEY | F2 Waiting room | G3 Recreation room | N. Documents and publication service | N6 Production line |
| A. Exhibition hall | F3 Offices | G4 Housing agency | P. Conference Planning-General services | |
| B. Void of cinema | F4 Dispensary | G5 Credit union | N1 Typing pool | P1 Registry and mail |
| B1 Projection room | F5 Physical therapy | H. Staff co-operative | N2 Reproduction and assembly, including drafting room | P2 Supply, equipment, shops and storage |
| B2 Air conditioning | F6 Equipment room | H1 Sales room | N3 Photo laboratory | S. Gardens |
| B3 Exit ramp | F7 Dressing cabins, rest room | H2 Office | N4 Distribution | T. Ramp to underground parking |
| C. Lifts | F8 Storage | H3 Storage | N5 Stocks | |
| D. Goods lifts | F9 Dentist | J. Bank | | |
| E. Mechanical substation | G. Staff association | K. Stockrooms | | |
| F. Clinic | G1 Offices | L. Loading dock | | |
| F1 Doctors' offices | G2 Library | M. Kitchen delivery | | |





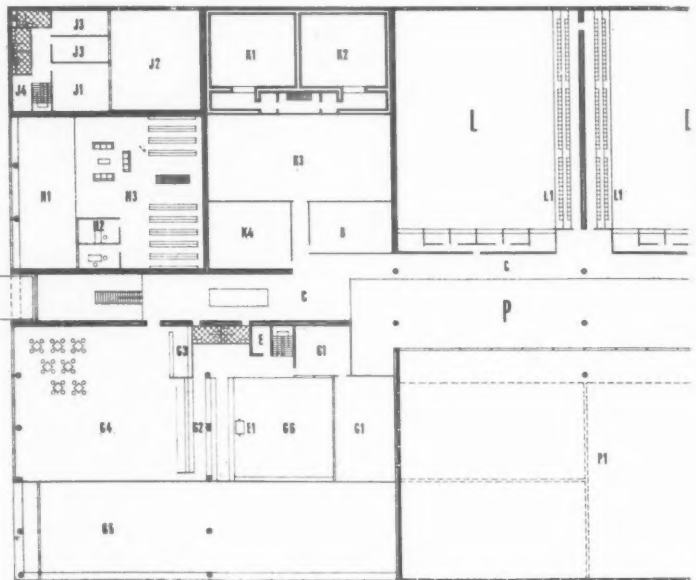
KEY TO FIRST FLOOR

- A. Void of main lobby
- B. Air-conditioning
- C. Public gallery
- D. Covered passage

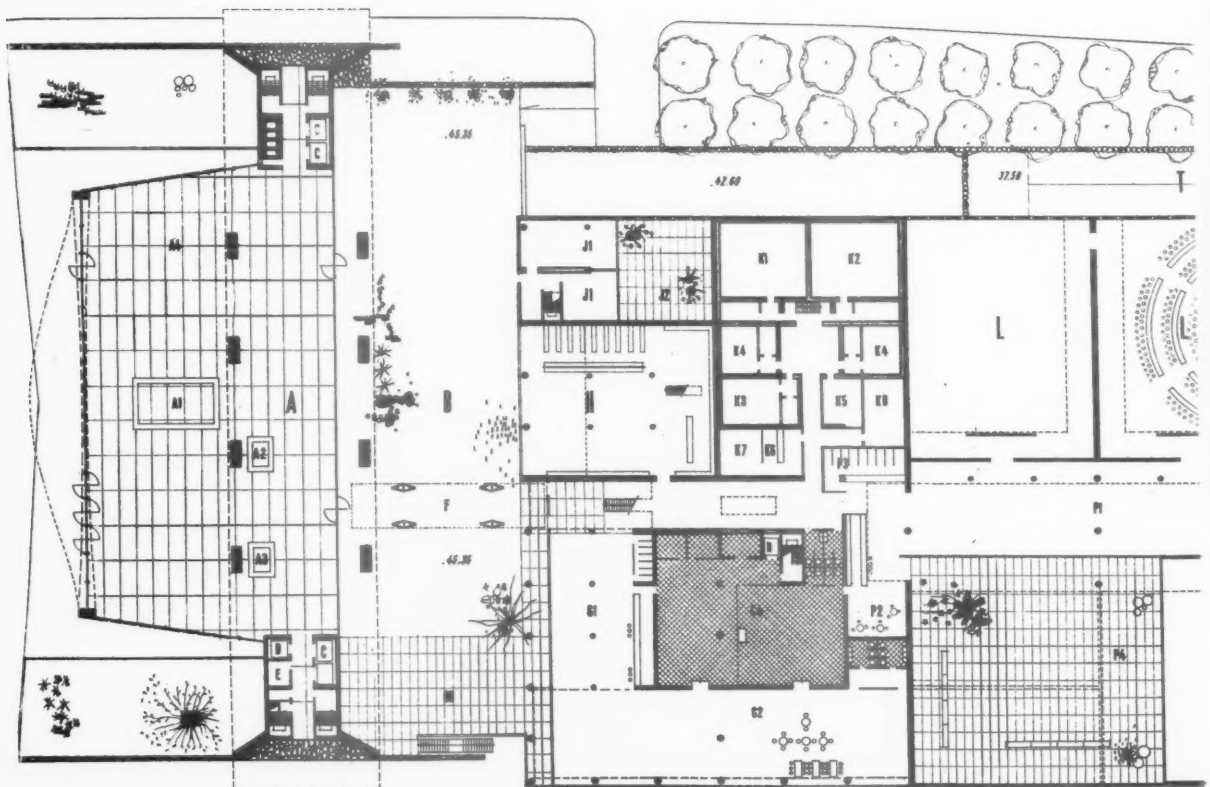
- E. Freight elevator
- E1 Dumb waiter

- G. Restaurants
- G1 Kitchen offices
- G2 Serving counter
- G3 Cloak-room
- G4 Cafeteria
- G5 Void of restaurant
- G6 Void of kitchen

- H. Library
- H1 Void of resting room
- H2 Office
- H3 Stocks
- J. Nursery school
- J1 Classroom
- J2 Small patio
- J3 Office
- J4 Storage



First floor plan



Ground floor plan [Scale: 1/8" = 1' 0"]

UNESCO HEADQUARTERS

in PARIS

designed by MARCEL BREUER and

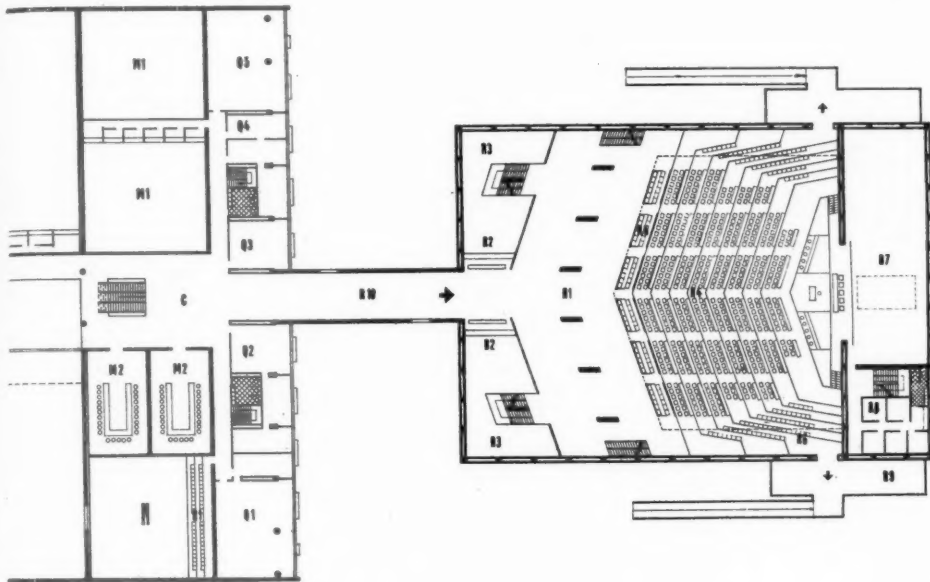
BERNARD ZEHRFUSS

K. Department of mass communications
K1 Void of dramatic studio
K2 Void of television studio
K3 Press, reception and information
K4 Unallocated
L. Void of commission room
L1 Public and press

M. Committee rooms
M1 Void of large rooms
M2 Small rooms
N. Void of executive board meeting hall
N1 Public and press
P. Void of delegates lounge
P1 Delegates patio

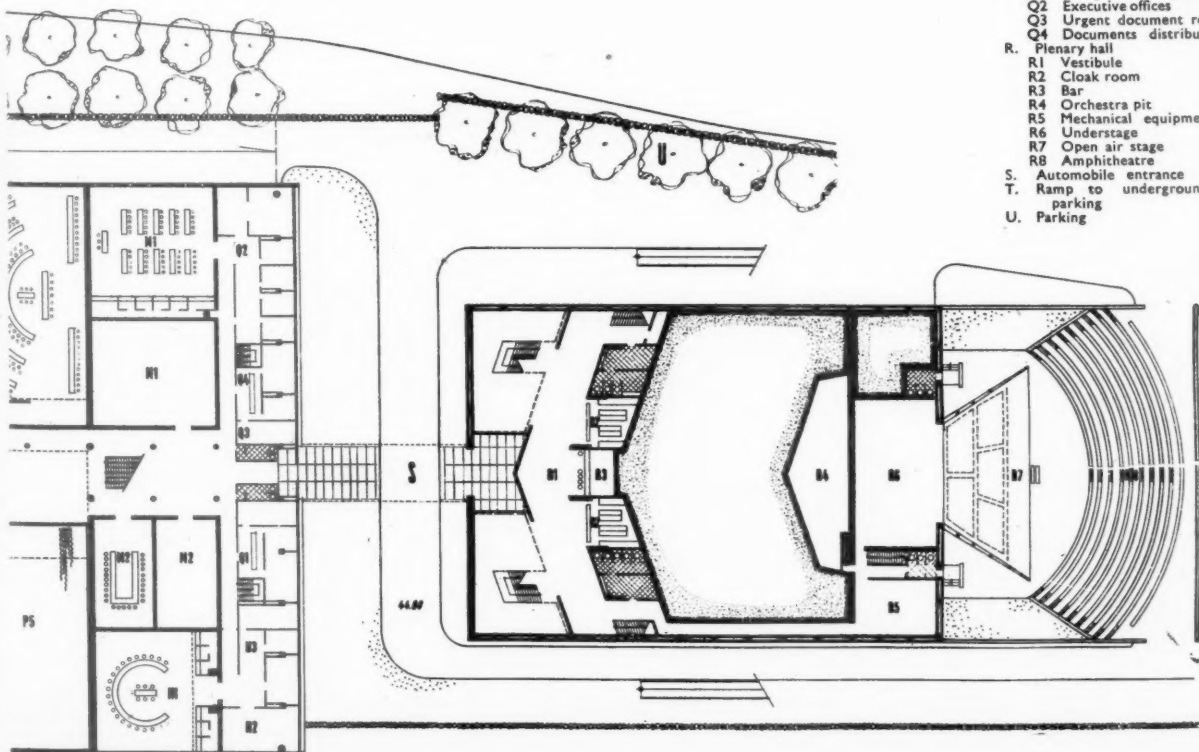
Q. Conference secretariat
Q1 NGO offices
Q2 Order of the day
Q3 Interpreters' lounge
Q4 Executive offices
Q5 Transcription room and office

R. Plenary hall
R1 Foyer
R2 Cloak room
R3 Void
R4 Delegates
R5 Press
R6 Observers
R7 Stage
R8 Dressing rooms
R9 Balcony
R10 Connecting passage



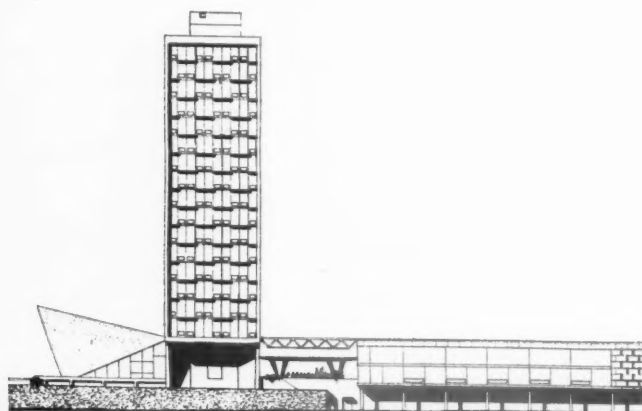
KEY TO GROUND FLOOR

- A. Main lobby
- A1 Bookshop and information
- A2 Post office and cable office
- A3 Newspaper stall
- A4 Exhibits
- B. Central patio
- C. Lifts
- D. Goods lift
- E. Mechanical sub-station
- F. Covered passage
- G. Restaurants
- G1 Bar
- G2 Restaurant
- G3 Restaurant terrace
- G4 Kitchen
- H. Library
- J. Nursery school
- J1 Classroom
- J2 Small patio
- K. Department of mass communications
- K1 Dramatic studio
- K2 Television studio
- K3 Medium studio
- K4 Small studio
- K5 Record library
- K6 Despatch room
- K7 Storage and repairs
- K8 Editing room
- L. Commission rooms
- M. Committee rooms
- M1 Large rooms
- M2 Small rooms
- N. Executive board rooms
- N1 Meeting hall
- N2 Salon
- N3 Offices
- P. Delegates' lounge
- P1 Lounge
- P2 Bar
- P3 Cloak room
- P4 Patio
- P5 Pond
- Q. Conference secretariat
- Q1 Delegates' reception
- Q2 Executive offices
- Q3 Urgent document room
- Q4 Documents distribution
- R. Plenary hall
- R1 Vestibule
- R2 Cloak room
- R3 Bar
- R4 Orchestra pit
- R5 Mechanical equipment
- R6 Understage
- R7 Open air stage
- R8 Amphitheatre
- S. Automobile entrance
- T. Ramp to underground parking
- U. Parking



girders; there are no internal columns. The advantage of giving the roof this form is that it permits a complex system of acoustic panels to be suspended from the girders and placed at the exact angles and points required for the best sound-effects.

FINISHES.—Roman travertine is used for cut stone surfaces, rubble stone masonry for retaining walls and bush-hammered concrete—with special aggregates—for the exposed parts of the structure. Sliding windows and glass walls are of clear plate glass. Exterior sun filters on the south and east facades of the office building are of heat absorbing glass. Exposed edges of floor slabs are faced with Ardoise or similar stone. The same material is used for the stone projections which protect the window openings. The aluminium window frames

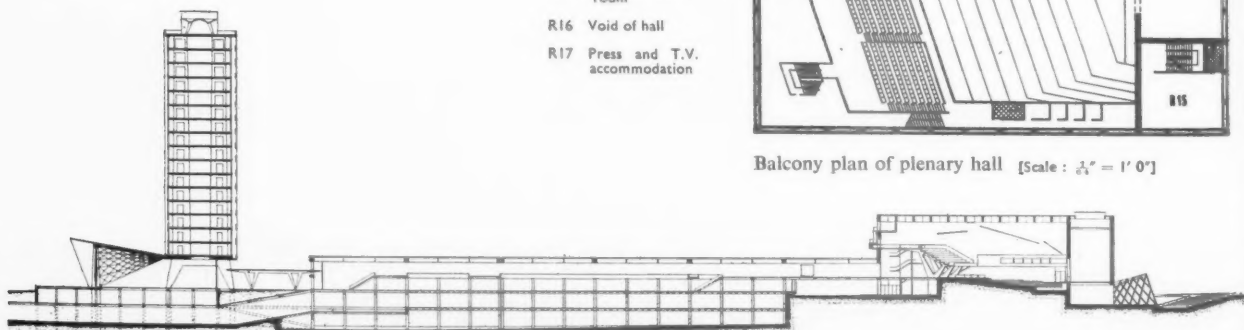


Part of the west elevation

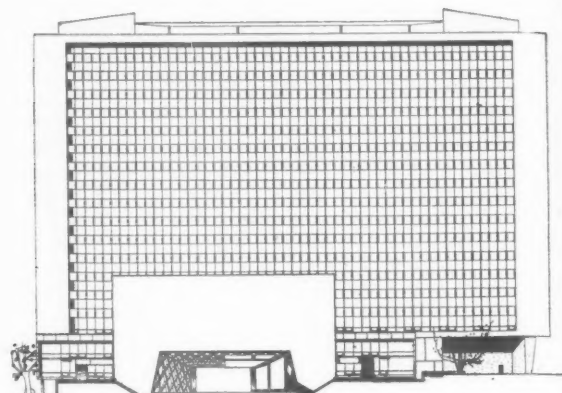
UNESCO HEADQUARTERS

in PARIS

designed by MARCEL BREUER and
BERNARD ZEHRFUSS



Section from north to south [Scale: $\frac{1}{32}'' = 1' 0''$]



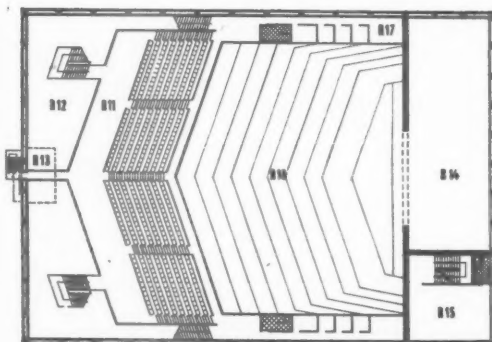
South elevation

are anodised silver; the railings are black. The piazza is paved with stone and the drives are of concrete. The acoustic panels of the outdoor theatre are of thin reinforced coloured concrete. The shell of the main lobby is roofed with mosaic tiles. A multi-coloured composition of plants and stone chips covers the roofs of the central building and the plenary hall.

SERVICES.—Wherever possible, natural ventilation and radiant floor heating is to be used. The inside areas without windows, the cinema, the commission and committee rooms, the executive board rooms, the studios for radio and television and the plenary hall are air-conditioned.

KEY TO BALCONY

- R11 Upper foyer
- R12 Void
- R13 Access to projection room
- R14 Void of stage
- R15 Chorus dressing-room
- R16 Void of hall
- R17 Press and T.V. accommodation



Balcony plan of plenary hall [Scale: $\frac{1}{32}'' = 1' 0''$]

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TECHNICAL SECTION

The "Stahlton" system of floor construction, first developed on the continent and mentioned in the Information Centre over a year ago (item 19.116 : 12.4.51) has been taken up by a British firm and architects can now make use of it for buildings in this country.

Economical both in steel and cement, this system of floor construction is based on the use of prestressed "planks" of burnt clay blocks, which are light and easy to handle. Between these, hollow clay blocks are placed and the floor is completed by the addition of an *in situ* concrete "topping." Fire resistance is high, no shuttering is needed, and, as the entire soffite is of burnt clay, there should be no pattern staining.

The system is a logical one, being in accordance with F. J. Samuely's precept that prestressing should be applied only to the tensile areas of a structure; ordinary concrete being used to cope with the compressive stresses. For further details of the "Stahlton" system see the Information Sheet (20.B1) published in the JOURNAL three weeks ago.

8 ESTIMATING measured rates

This week's
special feature

Current prices for measured work prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors. Prices are for work executed complete and are for an average job in the London area. All prices include overhead charges and profit for the general contractor.

PRELIMINARIES

To all valuations for measured work add for Preliminaries, Water and Insurances, according to the nature of the job (say) 10%

EXCAVATOR

Excavation

N.B.—The following prices are applicable to hand excavation in heavy soil.

Surface digging, 6" deep	per yard super	-/11
Ditto, 12" deep	per yard super	1/10
Excavating not exceeding 10' 0" deep to reduce levels	per yard cube	7/4
Excavating not exceeding 5' 0" deep to form basement	per yard cube	8/3
Ditto, exceeding 5' 0" and not exceeding 10' 0" deep ditto	per yard cube	11/11
Excavating not exceeding 5' 0" deep to form surface trenches	per yard cube	10/1
Ditto exceeding 5' 0" deep and not exceeding 10' 0" deep ditto	per yard cube	13/9
Excavating not exceeding 5' 0" deep to form basement trench, commencing 10' 0" deep	per yard cube	17/5

EXCAVATOR—(continued)

Disposal

Returning, filling and ramming around foundations	per yard cube	3/3
Wheeling excavated soil not exceeding 100 yards and depositing	per yard cube	3/8
Ditto and spreading and levelling	per yard cube	4/9
Ditto, ditto, and consolidating to make up levels under floors and pavings	per yard cube	6/-
Filling into lorries and carting away	per yard cube	11/11

Planking and Strutting

Planking and strutting to sides of surface or basement excavation not exceeding 5' 0" deep	per ft. super	-/6½
Ditto not exceeding 10' 0" deep	per ft. super	-/8
Planking and strutting to sides of surface trenches not exceeding 5' 0" deep (both sides measured)	per ft. super	-/1½
Ditto not exceeding 10' 0" deep (ditto)	per ft. super	-/3

CONCRETOR

Concrete (Basic Prices)

Portland cement concrete 1 : 3 : 6 with 1½" coarse aggregate in foundations and masses exceeding 12" thick	per yard cube	64/11
Ditto 1 : 2 : 4 with ¾" coarse aggregate ditto	per yard cube	65/5

CONCRETOR—(continued)

Add to Basic Prices for :—

Working around rod or mesh reinforcement	per yard cube	3/8
Being in beds less than 12" thick (6"-12")	per yard cube	1/10
Ditto less than 6" thick (4½"-6")	per yard cube	5/6
Being in small quantities not exceeding 3' cube	per yard cube	14/8
Being in suspended floors and roofs	per yard cube	11/-
Being in walls not exceeding 6" thick	per yard cube	18/4
Ditto exceeding 6" but not exceeding 12" thick	per yard cube	12/10
Ditto exceeding 12" thick	per yard cube	9/2
Being in lintels, beams, etc., not exceeding 72 sq. in. sectional area	per yard cube	27/6
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	22/-
Ditto exceeding 144 sq. in. sectional area	per yard cube	18/4
Being in columns not exceeding 72 sq. in. sectional area	per yard cube	34/10
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	per yard cube	27/6
Ditto exceeding 144 sq. in. sectional area	per yard cube	22/-

Formwork

Close boarded formwork and supports to soffits of floors not exceeding 12' high	per yard super	14/5
Ditto to vertical faces of walls (both sides measured)	per yard super	14/5
Ditto to sides and soffits of lintels and beams	per ft. super	2/1½
Add to any of the above for wrot formwork and rubbing down concrete	per yard super	2/4½

Reinforcement

½" to 1" diameter mild steel rod reinforcement, hooked, bent and tied at intersections as required and fixing in concrete	per cwt.	50/6
½" diameter ditto	per cwt.	54/7
¾" diameter ditto	per cwt.	67/-
Steel wire mesh fabric reinforcement to B.S. 1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in concrete	per yard super	3/3
Ditto weighing 9.32 lb. per yard super ditto	per yard super	6/2

BRICKLAYER

Common Brickwork

	Flettons	Rough stocks
Reduced brickwork one brick thick in cement-lime mortar (1 : 3 : 9)	per yard super 27/9	33/2
Add to the above :—		
If in cement mortar (1 : 3)	per yard super -2½	-2½
If circular on plan to flat sweep	per yard super 4/4½	4/8
Ditto to quick sweep	per yard super 8/8	9/3½
Half brick wall in cement lime mortar (1 : 3 : 9)	per yard super 15/-	17/9
Ditto built fair and pointed both sides with a neat flush joint	per yard super 16/11	19/7
One brick wall built fair and pointed both sides with a neat flush joint	per yard super 32/8	38/-
11" hollow wall with 2" cavity and galvanized iron twisted ties	per yard super 32/7	38/-

Engineering Brickwork

	Lingfield Engineering Wirecuts	Blue Pressed bricks
Reduced brickwork one brick thick in cement mortar (1 : 3)	per yard super 40/10	58/10
Half brick wall in cement mortar (1 : 3)	per yard super 21/11	31/2
Ditto built fair and pointed both sides with a neat flush joint	per yard super 23/9	33/8
One brick wall built fair and ditto	per yard super 44/10	63/4

Sundries

Extra for internal fair face and flush pointing	per yard super	1/-
Horizontal damp-proof course of two courses of slates and bedding and pointing	per foot super	3/5
Ditto of hessian base bitumen well lapped at joints	per foot super	-10½
Fixing only metal window, size 1' 8" x 4' 0", including cutting and pinning lugs to brickwork, bedding frames and pointing in mastic one side	each	7/7
Ditto, 3' 3" x 4' 0" ditto	each	11/9
Ditto, 8' 6" x 4' 0" ditto	each	20/8

BRICKLAYER—(continued)

Partitions

	2"	2½"	3"	4"
Breeze concrete solid partition blocks to B.S. 492 and setting in cement mortar	per yard super 8/-	9/4	10/7	13/4
Hollow clay partition blocks to B.S. 1190, keyed on both sides and ditto	per yard super 8/4	9/4	10/7	
Moler hollow partition blocks, keyed on both sides and ditto	per yard super 14/6	18/-	20/3	23/-

Facings

	Ordinary facings, p.c. M.	p.c. M.	White glazed facings p.c. 1,310/- M for stretchers 1,294/- M for headers and pointing with white cement
Extra over common brickwork built with bricks p.c. 108/- M for facings as described, and pointing with a neat weathered joint :—			
To solid wall in Flemish bond	per yard super 13/4	14/7	80/-
To cavity wall in stretcher bond	per yard super 10/10	11/10	63/11
To ditto in Flemish bond with snapped headers	per yard super 12/11	14/1	—
Half brick wall in facings in stretcher bond built fair and pointed one side with a neat weathered joint	per yard super 24/10	25/9	—
Ditto pointed both sides	per yard super 25/9	26/9	—
One brick wall in facings built fair and pointed one side	per yard super 46/6	48/4	—
Ditto pointed both sides	per yard super 47/6	49/4	—
Brick on end flat arch in facings 4½" on soffite and 9" high and pointing	per foot run 2/10	2/11	—
Brick on edge coping to 9" wall with two courses plain tiles under, laid breaking joint, two cement angle fillets and pointing	per foot run 4/10	4/11	—

ASPHALTER

Tanking

	To B.S. 1097	To B.S. 1418
Horizontal asphalt tanking in three thicknesses on brick or concrete	per yard super 18/11	30/5
Vertical ditto	per yard super 23/8	33/7

Roofing

	To B.S. 988	To B.S. 1162
½" asphalt flat in two thicknesses on and including felt underlay	per yard super 14/5	24/2
½" asphalt skirting 6" high with angle fillet at bottom and rounded top, turned into groove	per foot run 2/4	2/11
½" asphalt fascia 6" high with solid water check roll at top and undercut drip at bottom	per foot run 4/3	4/9

DRAINLAYER

Trenches and Beds

N.B.—The following prices are applicable to hand excavation in heavy soil, only requiring planking and strutting for depths of 3' or more.

Excavate trenches for 4"-9" pipes, including planking and strutting, filling in and ramming, and wheeling and spreading surplus :—		
For each 12" in depth, for trenches not exceeding 3' 0" deep	per yard run	2/11
Ditto for trenches exceeding 3' 0" and not exceeding 5' 0" deep	per yard run	4/3
Ditto for trenches exceeding 5' 0" and not exceeding 10' 0" deep	per yard run	6/11
6" concrete (1 : 3 : 6) bed and benching for pipes	per yard run	8/9
6" ditto, and surround	per yard run	14/3
		17/1

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WORKING DETAIL

STAIRCASE: SHOP AT BRISTOL

Ellis E. Somake, architect; Malcolm Glover and Partners, consulting engineers.



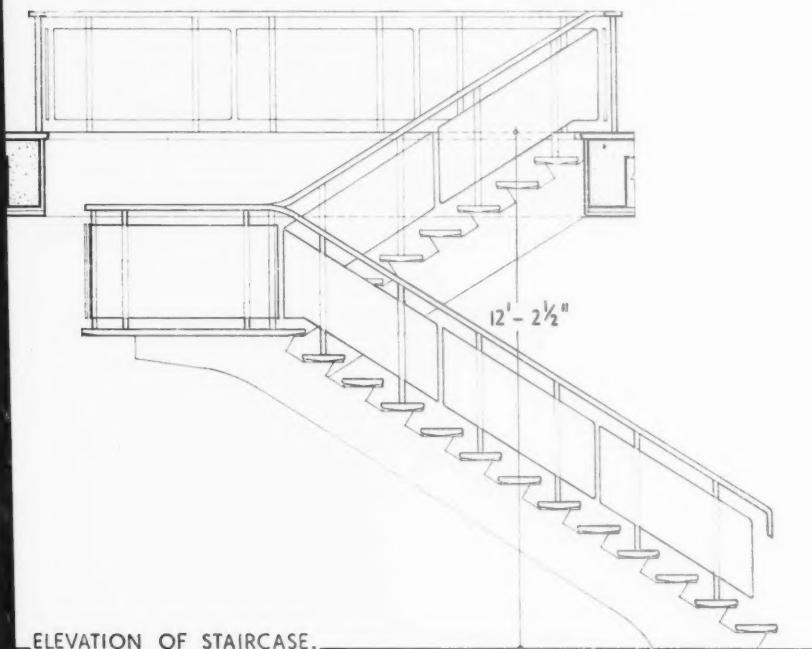
The staircase is supported on two reinforced concrete carriage beams and the hardwood landing is treated in the same way as the treads, having a wide overhang through which the balustrade standards are bolted.

WORKING DETAIL

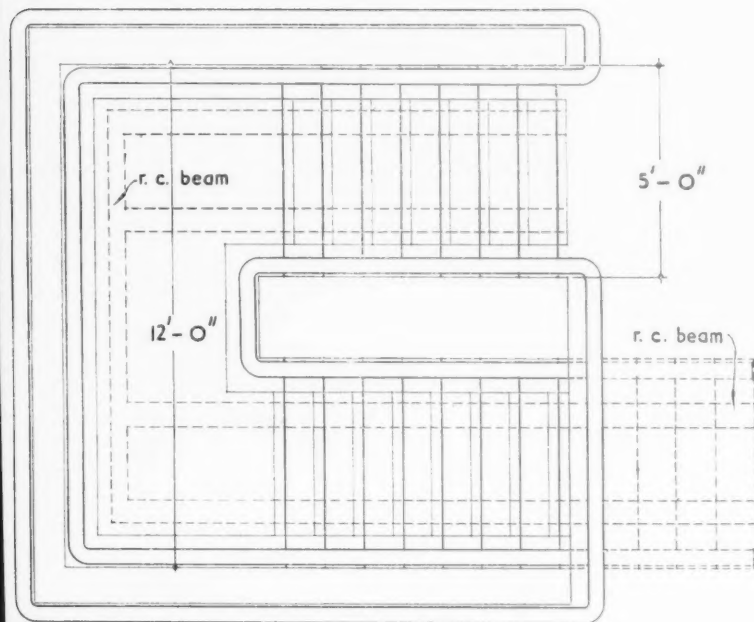
STAIRCASE: SHOP AT BRISTOL

Ellis E. Somake, architect; Malcolm Glover and Partners, consulting engineers.

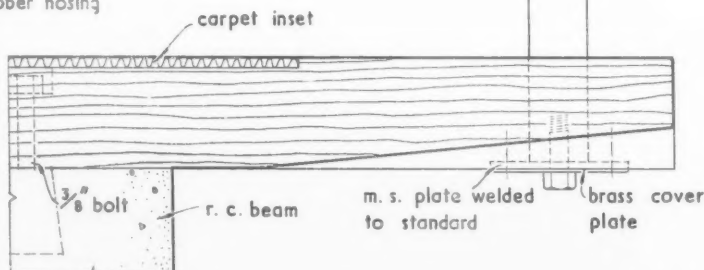
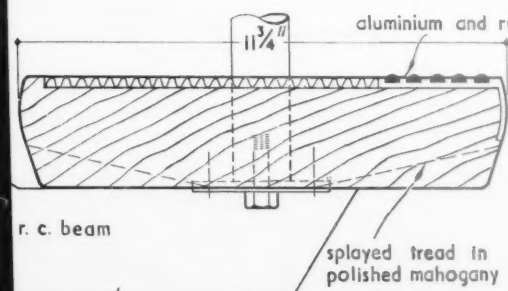
STAIRCASES: 14



ELEVATION OF STAIRCASE.



PLAN OF STAIRCASE. scale $\frac{1}{4}'' = 1' - 0''$



SECTION THROUGH TREAD. scale $\frac{1}{4}$ full size CROSS SECTION THROUGH TREAD AND BALUSTER.

ex $4\frac{1}{2}'' \times 1\frac{3}{4}''$ polished mahogany handrail

$3''$ dia. $\times \frac{1}{4}''$ m. s. plate welded to standard and stove enamelled white

polished and lacquered brass-headed bolt

$1\frac{3}{8}''$ dia. m. s. standard stove enamelled white

$\frac{3}{8}''$ armoured clear glass

polished and lacquered brass sleeve, covering $\frac{5}{8}''$ dia. rod welded to standard

WORKING DETAIL

DOORS: 12

GLAZED ENTRANCE DOORS AND SCREEN: SOCIETY HEADQUARTERS, LONDON, N.W.1

John and Elizabeth Eastwick-Field in collaboration with Hugh Pite, architects.

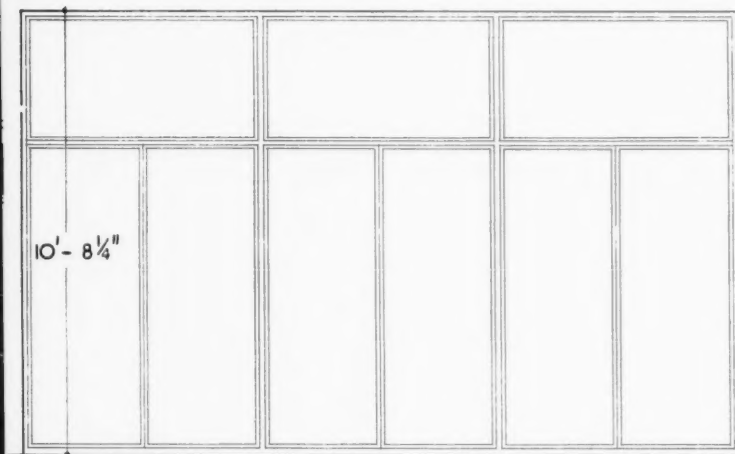
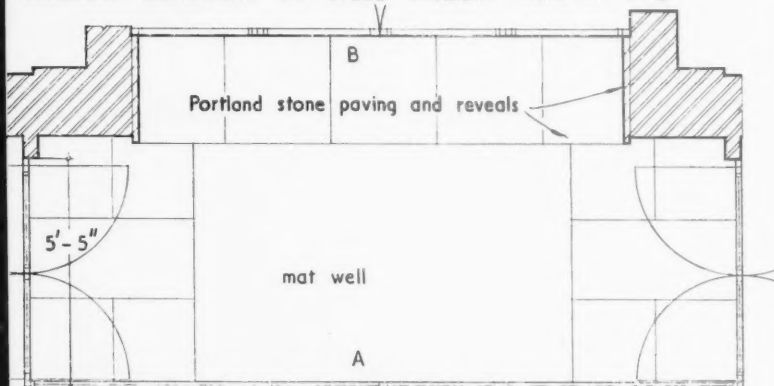


The entrance doors are framed in bronze and the screen in painted steel, with all glazing beads in hardwood.

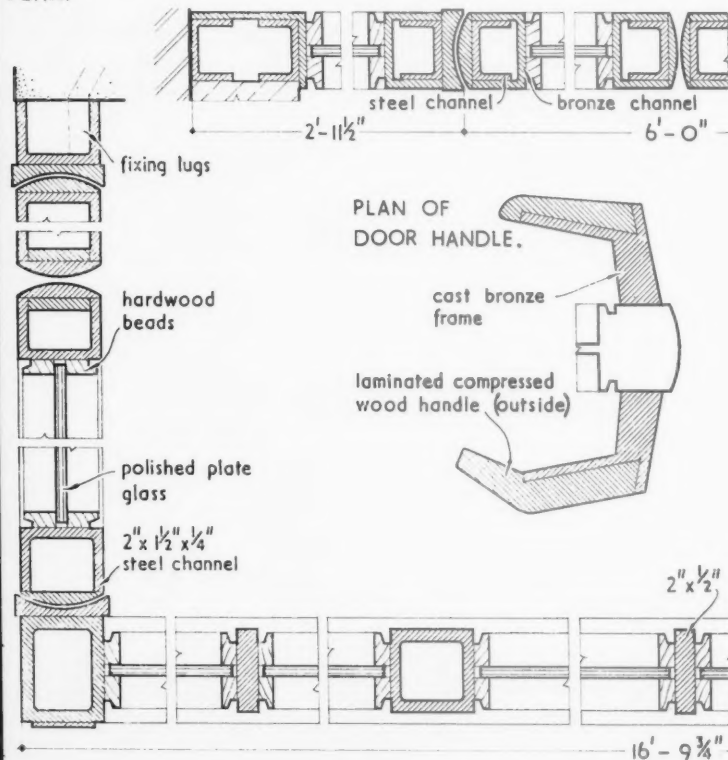
WORKING DETAIL

DOORS: 12

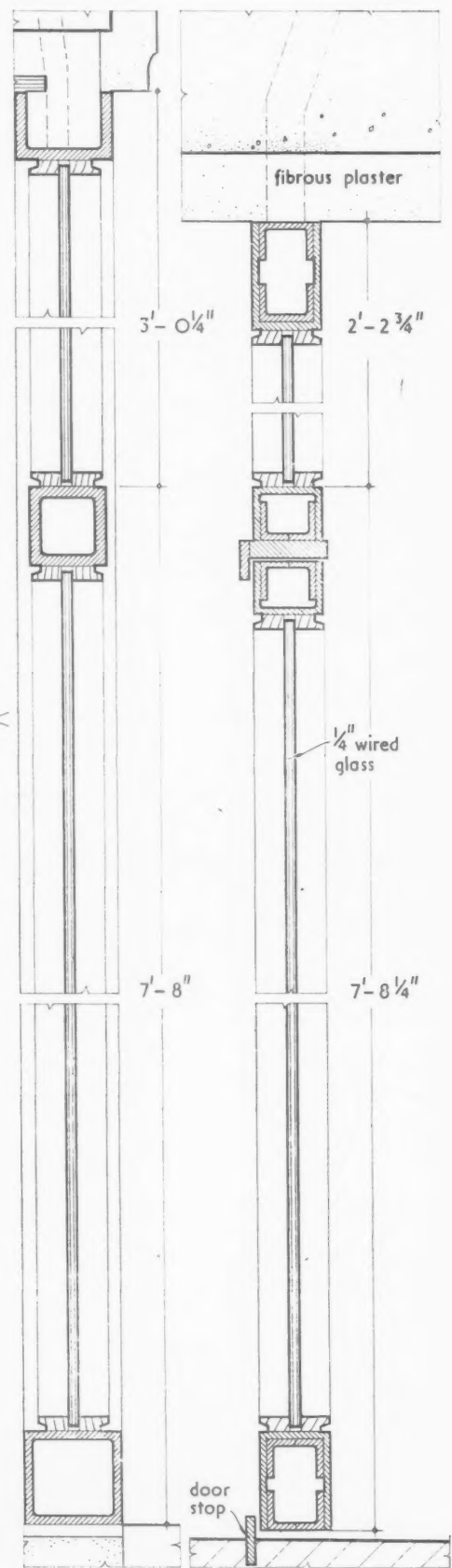
GLAZED ENTRANCE DOORS AND SCREEN: SOCIETY HEADQUARTERS, LONDON, N.W.1

John and Elizabeth Eastwick-Field in collaboration with Hugh Pite, architects.INTERNAL ELEVATION OF STEEL SCREEN. scale $\frac{1}{4}'' = 1'-0''$ 

PLAN.



PART PLAN OF BRONZE ENTRANCE DOORS AND STEEL SCREEN.

SECTION AT A. SECTION AT B. scale $\frac{1}{4}''$ full size



THE DERBY ARMS EPSOM DOWNS



The two illustrations show the DERBY ARMS public house before and after renovation.

Architect & Surveyors:
Leonard Chignall & Son,
F.I.A.A., M.Inst.R.A.,
of Romford, Essex.

Contractors:
Piling & Construction Co., Ltd.
of Croydon, Surrey.

THIS old and famous landmark, standing high on the Epsom Downs facing the Grand Stand, is extremely exposed and stands alone without protection from other buildings. In carrying out alterations and war damage repairs, the Architects decided to re-face the damaged and

weather worn external walls and at the same time to make them impervious to penetration by severe driving rain. This was accomplished by the simple addition of 5 lbs. of 'PUDLO' Brand Powder to each 100 lbs. of cement in the 2 to 1 sand and cement rendering coats.



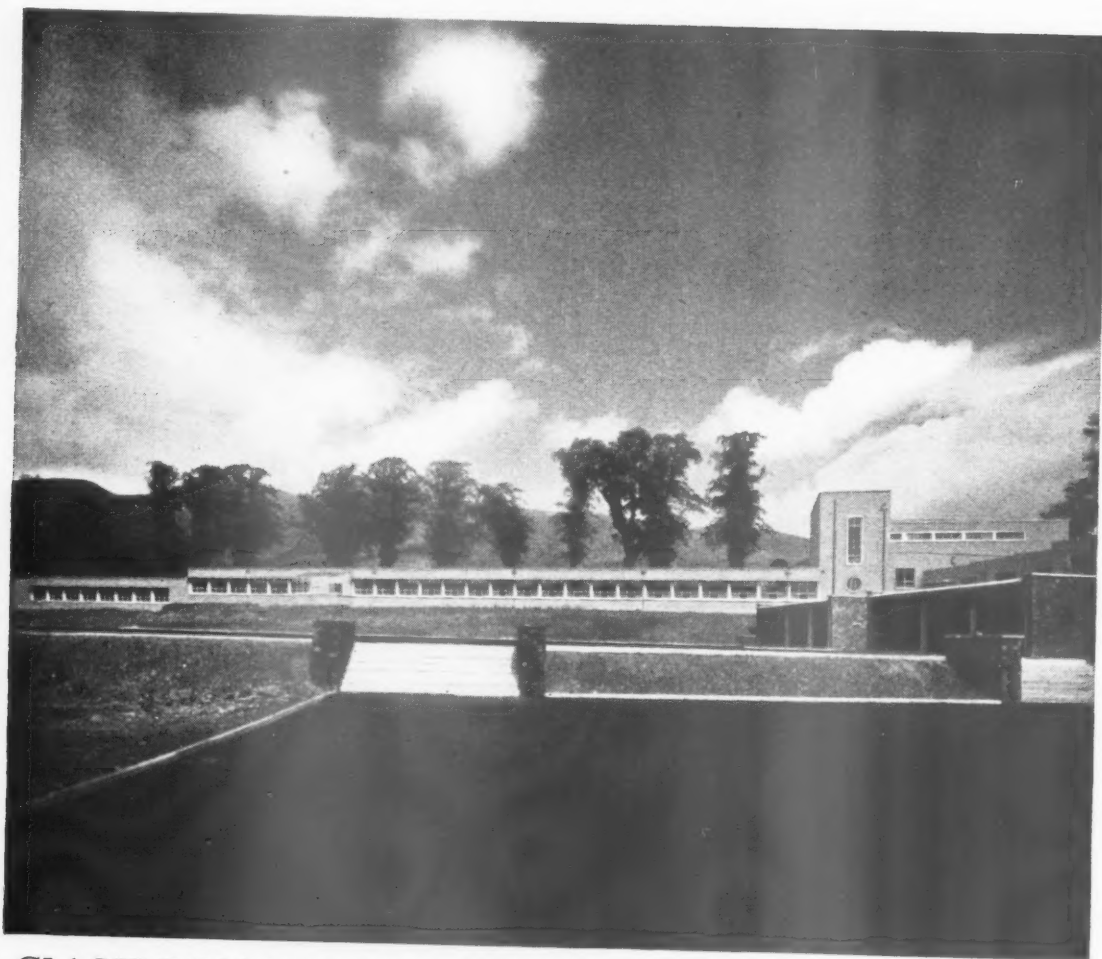
A copy of the specification followed will be forwarded upon request.

CEMENT WATERPROOFING POWDER

The word 'PUDLO' is the registered Trade Brand of Kerner-Greenwood & Co. Ltd. by whom all articles bearing that Brand are manufactured.

Sole Proprietors and Manufacturers:—

KERNER-GREENWOOD & CO. LTD · KING'S LYNN · NORFOLK



CLASSROOM BLOCK, LAIRTHWAITE SCHOOL, KESWICK
John H. Haughan, F.R.I.B.A., County Architect, Cumberland County Council

HOPE'S WINDOWS

HENRY HOPE & SONS LTD
 SMETHWICK, BIRMINGHAM AND 17 BERNERS STREET, LONDON, W.1

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DRAINLAYER—(continued)

Drains		3"	4"	6"
Clayware butt-jointed land drains and laying in trench	per foot run	-/4½	-/5	-/9½
"Seconds" quality glazed stoneware socketed drains and laying and jointing in trench	per foot run	2/-½	2/10	4/9½
"British Standard" quality ditto	per foot run	2/4½	3/5	5/10½
Extra on "Seconds" quality for bends	each	3/1	4/8½	13/4½
Ditto "British Standard" quality ditto	each	3/11½	5/11	17/2
Extra on "Seconds" quality for equal single junction	each	5/3	7/10	17/1
Ditto "British Standard" quality ditto	each	7/9	9/8	21/5
Cast iron socketed drains to B.S. 437 and laying and jointing in trench	per foot run	10/5	15/11	31/2
Extra for short radius bend (Fig. No. 4)	each	20/9	39/4	116/-
Extra for single junction (Fig. No. 18)	each	37/10	73/10	218/9

Fittings, etc.

		4"	6"
Glazed stoneware trapped gulley with galvanized grating and outlet and setting in concrete	each	22/11	42/4
Ditto with vertical inlet ditto	each	28/4	47/10
Cast iron trapped gulley with high invert, grating, and 4" outlet and setting in concrete	each	53/4	—
Ditto with vertical inlet ditto	each	60/10	—
Glazed stoneware intercepting trap with inspection arm, stopper and chain and fixing in manhole and jointing to drain	each	72/2	84/-
Brown glazed stoneware half round straight channels and bedding and jointing in cement mortar	per foot run	1/9½	2/8½
Ditto ordinary channel bend and ditto	each	5/4½	7/8
Cast iron coated single seal manhole cover and frame to B.S. 497 Grade C and setting frame in cement and cover in grease	each	49/9	69/11
Galvanized ditto	each	83/4	121/9

PAVING

Cement and sand (1:3) floated screed to receive pavings	per yard super	3/4	4/1	1½
Ditto trowelled smooth to receive linoleum	per yard super	3/8	4/5	4/11
Cement and sand (1:3) paving trowelled hard and smooth	per yard super	3/9	4/6	5/-½
Granolithic paving (1:2½) laid on concrete	per yard super	6/2	7/-	7/10
1" Red composition paving to B.S. 776 laid on prepared screed	per yard super			16/-
1" Terrazzo paving (Portland cement and spar aggregate) laid on prepared screed	per yard super			37/3
Extra for white or cream cement	per yard super			5/3
1" Rubber flooring in all colours, laid on prepared screed	per yard super			51/-
1" x 12" x 12" Rubber tile flooring ditto	per yard super			41/6
1½" x 12" x 12" Cork tile flooring (brown shades) laid in mastic on prepared screed, surfaced and polished	per yard super			40/8
1½" Hard red paving bricks p.c. 404/6 per M. laid flat on prepared bed in cement mortar	per yard super			21/9
1½" Ditto laid herringbone	per yard super			23/7
6" x 6" Red quarry tile paving to B.S. 1286 laid on prepared screed with straight joints	per yard super	5/8	7/8	23/4
6" x 6" Buff quarry tiles as last	per yard super			23/4 26/3
2½" (Finished) Gravel path laid on prepared bed, well watered and rolled to cambers and falls	per yard super			2/9½

MASON

Portland stone and all labours in pilasters, quoins, jambs, lintols, etc.	per foot cube	37/10	
Ditto in arches, columns, cornices, etc.	per foot cube	52/3	
Ashlar av. 6½" on bed with plain dressed face	per foot super	31/6	
Portland stone or artificial stone to B.S. 1217:—	Artificial		
4½" x 4" Sill, sunk, weathered, throated and grooved for water bar, set and jointed in cement mortar	per foot run	7/1	4/7

MASON—(continued)

	Port-land	Arti-ficial
9" x 3" ditto	8/5	6/4
2" x 12" Coping, weathered and twice throated, set and jointed as last	7/9	5/9
3" x 12" Ditto	10/8	8/4
5" x 12" Saddle back coping twice throated, set and jointed as last	18/-	12/11
6" x 12" Ditto	19/7	15/11

SLATER, TILER AND ROOFER

Slate		20" x 10"	16" x 10"
Best Bangor slates to B.S. 680 laid with 3" lap, each slate nailed with two stout copper nails	per square	246/9	233/8
Ditto hung vertically to dormer cheeks and gables	per square	256/3	246/9
Tiles		Hand made	Machine made
Best sand faced plain (nibbed) tiles to B.S. 402, 10½" x 6½" laid to a 4" gauge with each tile in every fourth course nailed with galvanized nails	per square	174/-	164/-
Ditto hung vertically to dormer cheeks and gables to 4½" gauge with each tile nailed with galvanized nails	per square	171/11	162/9
Berkshire hand made sand faced red pantiles 14½" x 10" laid to 2½" head and 1½" side laps, each tile in every third course nailed with galvanized nails	per square		162/9
Ditto to mansard slopes	per square		171/8
Bridgwater hand made Double Roman red sandfaced tiles 16½" x 14" laid to 3" laps, each tile in every course nailed with galvanized nails	per square		131/3
Concrete plain (nibbed) tiles to B.S. 473, 10½" x 6" laid as before described for plain tiles	per square		102/8
Ditto hung vertically to dormer cheeks, and gables, ditto	per square		107/8
Concrete interlocking tiles 15" x 9" laid to 3" lap, each tile in every third course nailed with galvanized nails	per square		81/4
Ditto to mansard slopes ditto	per square		90/3

Asbestos Cement

6" Corrugated asbestos cement sheeting fixed to wood roofs with galvanized drive screws and washers with a side lap of 1½ corrugations and an end lap of 6"	per square	87/2
6" Ditto but fixed vertically	per square	93/5
Add to both last if fixed to steel purlins or sheeting rails with galvanized hook bolts	per square	3/5

Felt

Reinforced bituminous roofing felt laid with 3" laps and nailed to rafters at 18" centres with galvanized clout nails	per square	27/-
	Two layer	
One-ply bitumen felt to B.S. 989 laid on concrete. Each layer bedded in hot bitumen	per yard super	8/8 11/6

CARPENTER

Carassing

Softwood, sawn and fixed, in plates, sleeper joists and lintols	per foot cube	15/1
Ditto in floor and ceiling joists	per foot cube	16/10
Ditto in stud partitions	per foot cube	18/5
Ditto in rafters	per foot cube	18/4
Ditto in purlins and struts	per foot cube	18/8
Ditto and framing in ridge	per foot cube	18/3
Ditto in hip and valley rafters including cutting rafters to sizes	per foot cube	20/4

Battening and Boarding

	Roof slopes	Vertical hanging
3" x 1½" Battens nailed to softwood for 20" x 10" slates to 8½" gauge	per square	29/11 31/6
Ditto 16" x 10" slates to 6½" gauge	per square	37/10 39/11
Ditto 10½" x 6" tiles to 4" gauge (4½" for vertical hanging)	per square	60/4 57/9
Roof Slopes		Mansards
Ditto 14½" x 10" pantiles to 12" gauge	per square	21/- 21/6
Ditto 15" x 9" concrete interlocking tiles to 12" gauge	per square	21/- 21/6
Roof boarding in batten widths close jointed and fixed to flat or sloping roofs	per square	110/8 138/3
Ditto tongued and grooved and prepared for felt roofing including furring to falls	per square	163/- 192/-

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Glenrothes
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Hatfield
Hemel Hempstead
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have specified*

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CARPENTER—(continued)

	Roof Slopes	Mansards
Sawn gang boarding fixed to joists in roof	per foot super 1/24	1/6
Wrot and crosstongued eaves soffit	per foot super 1/11	2/3
6" Wrot and grooved eaves fascia planted on	per foot run -/10	1/-

Wall and Ceiling Boards

	Vertically	Soffits
1/2" Fibre board to B.S. 1142 fixed with galvanized flat headed nails to softwood	per yard super 5/9	5/10
1/2" Asbestos cement flat sheeting to B.S. 690 fixed as last	per yard super 5/10	6/2 1/2
1/2" Ditto	per yard super 7/-	7/4 1/2

JOINER

Floors and Skirtings
(All thicknesses stated are nominal)

	7"	1"	1 1/4"
Plain edge softwood flooring in batten widths nailed to floor joists	per square 139/3	155/6	187/6
Tongued and grooved ditto	per square 148/3	165/3	198/9
1" Double grooved and tongued and grooved wood block floor laid herringbone with two-block border, set in hot mastic composition on prepared screed and wax polished :-			
Swedish softwood	per yard super	27/3	
European Beech	per yard super	35/2	
English Oak	per yard super	47/3	
European Oak	per yard super	41/9	
Burma Teak	per yard super	47/-	
Softwood skirtings with splayed or molded top edge, planted on (per inch sectional area)	per foot run -/2 3/4	-/2 1/2	
Extra for grounds plugged to brickwork	per foot run	-/8	

Windows in Softwood

	1 1/2"	2"
Rebated and molded softwood fanlights and casement sashes divided into squares for glass	per foot super 3/-	3/4
Extra for hanging	each 6/7	6/7
Cased frames with 6" x 3" Oak sill and 2" molded double hung sashes including pulleys, line and weights	per foot super —	9/11
N.B.—The above prices are for purpose made joinery. Standard pattern casement windows and double hung sashes and frames to B.S. 644 are cheaper.		

Doors in Softwood

	1 1/2"	1 3/4"	2"
Framed ledged and braced doors filled in with 1" T. & G. and V-jointed boarding and hanging	per foot super 6/2	6/11	6/11
Four-panel door, square both sides and hanging	per foot super 5/1	5/9	5/9
Ditto molded one side	per foot super 5/8	6/4	6/4
Ditto molded both sides	per foot super 6/2	6/11	6/11
N.B.—The above prices are for purpose made doors. Standard panelled doors to B.S. 459 are cheaper.			
1 1/2" Standard flush doors 2' 6" x 6' 6" internal pattern	each	115/6	
2" Ditto external pattern	each	123/9	

Linings, Frames, etc., in Softwood

	Sectional area Up to 6" 6" to 12"
Window and door linings etc. (per inch in sectional area)	per foot run -/4 -/3 1/2
Frames wrot all round and framed (ditto)	per foot run -/3 1/2 -/3
Mullions, transoms and cills (ditto)	per foot run -/3 1/2 -/3 1/2
Moldings, architraves, etc. (ditto)	per foot run -/3 1/2 -/3 1/2
6" Window boards with rounded nosings, tongued at back and including bearers	per foot run 3/1 3/4
9" Ditto	per foot run 3/5 3/9

Shelving and Fittings in Softwood

	3"	1"
Shelving of 2" slats spaced 1" apart on bearers (measured separately)	per foot super 2/8	2/11
Shelving on ditto	per foot super 2/5	3/-
Crosstongued shelving on ditto	per foot super 3/-	3/6 1/2
Shelving 9" wide on ditto	per foot run 1/8	2/1
2" Shelf bearers plugged to walls	per foot run 1/-	1/1 1/2
The following in framed up cupboard fittings :-		
T. & G. & V-jointed back	per foot super 2/1	2/5
Crosstongued top, bottom shelf or division	per foot super 3/1	3/7 1/2
1 1/2" Flush cupboard doors	per foot super 7/1	
Labour rebate or groove	per foot run -/3	

JOINER—(continued)

Labour cross-grain	per foot run	-/4 1/2
1" x 2" Bearers screwed on	per foot run	-/6
N.B.—The above prices are for purpose-made cupboard fittings. Standard pattern kitchen fittings to B.S. 1195 are cheaper.		

IRONMONGERY

	Softwood	Hardwood
3" Steel butts (medium quality)	per pair 1/5	1/5
4" Ditto (ditto)	per pair 2/3 1/2	2/3 1/2
Double action floor springs and top centres including filling boxes with oil	P.C. 149/3 each 180/9	186/3
Overhead check action door springs	P.C. 66/8 each 83/8	87/1
6" Barrel bolts	P.C. 5/6 each 7/6	8/-
Cupboard locks	P.C. 8/2 each 12/1	13/1
Norfolk latches	P.C. 5/6 each 10/2	11/7
Cylinder night latch	P.C. 15/11 each 22/8	24/5
Mortice latch	P.C. 9/4 each 14/5	15/9
Rim lock	P.C. 10/- each 14/1	15/2
Mortice lock	P.C. 15/2 each 21/10	23/7
Door furniture	P.C. 24/- per set 27/5	27/9
Sash fasteners	P.C. 9/- each 11/7	12/1
Casement fasteners	P.C. 7/11 each 10/-	10/4
Casement stays	P.C. 11/6 each 13/11	14/4

STEEL AND IRONWORKER

Structural Steelwork

The following prices are for Basic sections (5" x 4 1/2" to 16" x 6") only. Prices for other sections vary roughly in proportion to the price of the steel ex mills—see "Current Market Prices of Materials."

R.S.J.—in steel framed structures hoisted and fixed complete	per ton	£ s. d. 59 6 6
Riveted compound girders including plates and rivets	per ton	63 15 9
R.S. Stanchions including caps, bases, cleats, etc	per ton	65 7 3
Riveted compound stanchions ditto	per ton	67 14 6
Riveted roof trusses with flat and angle members, plates, cleats, etc., 30' span	per ton	92 18 6
Ditto 40' span	per ton	90 16 6

Sundries

Simple wrot iron balustrades fixed complete (excluding mortices etc.)	per cwt.	11 7 0
Bolts with heads, nuts and washers and fixing	per cwt.	11 3 0

PLASTERER AND TILE FIXER

24 gauge expanded metal lathing and fixing to softwood soffits	per yard super	6/2
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Lime and Gypsum Plaster

Three coat lime and two coat Sirapite or similar Gypsum plaster :-	Lime	Sirapite
On brick walls and partitions	per yard super 5/9 1/2	4/6
On concrete soffits including hacking	per yard super 6/11	6/4 1/2
On soffit of E.M.L. (measured separately)	per yard super 5/11	7/-
On and including wood laths, to soffits	per yard super 11/8	—
3/4" Gypsum plasterboard fixed to softwood soffits, in accordance with manufacturer's instructions, scrimmed and finished with setting coat of suitable plaster	per yard super	7/3 1/2
Plaster moulded cornice or cove (per inch in girth)	per foot run	-/4 1/2

Cement Rendering

Rendering in Portland cement and sand (1 : 4) and setting in Keenes cement on brick walls and partitions	per yard super	5/7
Portland cement and sand (1 : 3) plain face trowelled smooth on ditto	per yard super	5/1
Portland cement and sand (1 : 3) screed for tiling on ditto	per yard super	2/9

Wall Tiler

6" x 6" x 3/4" Standard quality white glazed wall tiles set and jointed on prepared screed	per yard super	36/9
Ditto eggshell matt or glossy glazed enamelled	per yard super	46/6

EXTERNAL PLUMBER AND COPPERSMITH AND ZINC WORKER

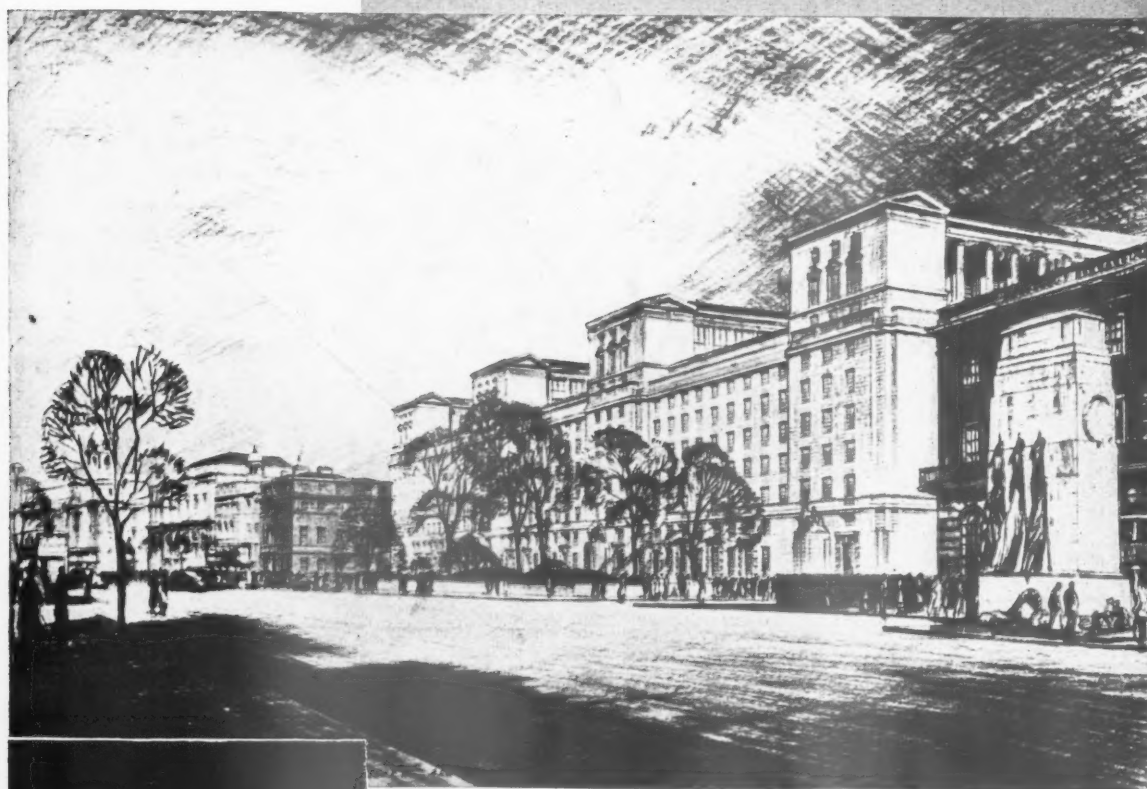
	Flats	Gutters, Stepped flashings, etc.	Stepped flashings
Milled sheet lead and labour	per cwt. 227/-	227/-	235/6

★ **P**rominent on the London scene are the new Whitehall offices being constructed by Richard Costain Ltd., the first stage of which is now approaching an advanced state of completion as can be seen by the illustration adjoining. The drawing reproduced below shows how this fine Government building will look when fully completed.

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EXTERNAL PLUMBER AND COPPERSMITH AND ZINC WORKER—(continued)

		Flats	Gutters, Stepped flashings, etc.	
24 S.W.G. sheet copper and labour	per foot super	5/10	6/2	6/5
23 S.W.G. sheet copper and labour	per foot super	6/5	6/8	6/11
14 gauge zinc and labour	per foot super	3/7	3/10	4/2

Rainwater Pipes and Gutters

		3"	4"	
Cast iron medium section ($\frac{3}{16}$ " metal) R.W. pipes and jointing and fixing to walls with pipe nails and distance pieces or holderbats (cutting and pinning holderbats measured separately)	per foot run	4/11	3/11	4/11
Pressed steel R.W. pipes and ditto	per foot run	3/11	3/3	5/6
Asbestos cement R.W. pipes and ditto	per foot run	2/10	—	3/7
Cast iron half round eaves gutter and jointed and fixed with brackets to fascia	per foot run	$\frac{1}{8}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "
Ditto O.G. ditto	per foot run	3/-	3/9½	4/5½
18 Gauge pressed steel half round ditto	per foot run	2/8	—	3/8
Ditto O.G. ditto	per foot run	3/2½	—	4/4½
Asbestos cement half round ditto	per foot run	2/3	—	3/8

Soil and Ventilating Pipes

		3"	4"	
Lead soil, waste and ventilating pipes (17 lb. per yard for 3" and 22.8 lb. per yard for 4" diameter) fixed to walls with lead tacks and brass screws	per foot run	12/4	17/2	
Medium or heavy section cast iron soil, waste and ventilating pipes with caulked joints, fixed to walls, with pipe nails and distance pieces	per foot run	4/11½	4/7	6/3½

INTERNAL PLUMBER

Lead Pipes

Prices are based upon the following weights per yard.

		1½"	1"	¾"	½"
Supply	.....	7	11	16	21
Distributing	.....	6	9	12.5	16
Flushing and overflow	.....	3	5	7	9
Waste and ventilating	.....	—	—	—	7
Supply pipe in trench (measured separately)	per foot run	4/5	6/9	9/8	12/7
Ditto fixed to walls and ceilings	per foot run	4/10	7/4	10/4	13/9
Distributing pipe fixed to walls and ceilings	per foot run	4/3	6/2½	8/5	11/-
Flushing and overflow pipe ditto	per foot run	2/8	3/11	5/5	7/1
Waste and ventilating pipe ditto	per foot run	—	—	—	6/1
Joints to fittings	each	5/2	6/3	6/7	7/5
Bends	each	-/0½	1/-½	1/4	1/9
Branch joints	each	6/3½	7/5	7/10½	9/2

Steel Tubes and Fittings

		2"	2½"	3"	3½"
Galvanized steel tubes to B.S. 1387 Class C with screwed joints in red lead as supply pipe laid in trench (measured separately)	per foot run	2/-	2/4	2/6	3/4
Ditto Class B ditto fixed to walls and ceilings as supply, distributing, waste pipe, etc.	per foot run	1/11	2/4	2/5½	3/2
Joints to fittings	each	3/8½	4/3½	5/3	6/3½
Bends	each	2/-	2/5	3/2	4/7
Tee, equal or reducing	each	2/1	2/4	3/-	3/10

Copper Tubes and Fittings

Prices are based upon the following gauges:—

		½"	¾"	1"	1½"
Supply	.....	18	17	16	16
Distributing, waste, etc.	.....	19	19	18	18
Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench measured separately)	per foot run	2/-	2/11	4/2	6/1
Ditto to B.S. 659 as distributing, waste pipes, etc. fixed to walls and ceilings. Couplings measured separately	per foot run	1/11½	2/7	3/8	4/5

INTERNAL PLUMBER—(continued)

		¾"	1"	1½"
Brass compression type couplings—copper to copper	each	4/10	5/10	8/-
Ditto bends	each	6/6	7/8½	11/-
Ditto tees	each	8/5	9/7	14/11

Sanitary Fittings

		£	s.	d.
Fireclay sinks 24" × 18" × 10" including cutting and pinning brackets to tiled wall. P.C. 75/-	each	4	15	4
Combined metal sink and drainer 42" × 18" × 8½" to bearers (measured separately). P.C. 330/-	each	18	11	0
Fireclay lavatory basin 25" × 18" with taps and towel rail bracket including screwing brackets to tiled wall. P.C. 138/6	each	8	3	10
Rectangular cast iron porcelain enamelled bath 5' 6" long, with taps, and panels to side and one end fixed to framing (measured separately) P.C. 390/6	each	23	7	3
Fireclay w.c. pan with trap, plastic seat, high level cistern and flush pipe, including screwing pan to floor and cistern brackets to backboard. P.C. 200/-	each	12	10	0
Ditto with low level cistern. P.C. 240/-	each	14	15	0

GLAZIER

		To wood	To metal
18 oz. Ordinary quality sheet glass and glazing with putty in squares not exceeding 4 ft. sup.	per foot super	-/10½	1/-
24 oz. Ditto and ditto	per foot super	1/-	1/1½
32 oz. Ditto and ditto	per foot super	1/5	1/6½
½" Figured, rolled, and cathedral—untinted and ditto	per foot super	1/2	1/3½
½" Rough cast and ditto	per foot super	1/4½	1/6
½" Wired cast and ditto	per foot super	1/6	1/7½
½" Georgian wired cast and ditto	per foot super	1/6½	1/8
½" Georgian wired polished plate and ditto	per foot super	6/1	6/2
½" Polished plate (glazing quality) and ditto	per foot super	5/10	6/-

PAINTER

Whitening, Distemper and Paint on Walls

		per yard super
Prepare and twice whiten plastered walls and ceilings	.....	1/1
Prepare and twice distemper with washable distemper on plastered walls and ceilings	per yard super	1/8
Ditto on brick or concrete	per yard super	2/2½
Prepare, prime, and paint two coats oil colour on plastered walls and ceilings	per yard super	4/8½

Paint on Metal

		Basic price	Add for each additional coat
Prepare, prime, and paint one coat oil colour on general surfaces	per yard super	3/1	1/5
Ditto metal casements	per yard super	4/7	2/-
Ditto members of roof trusses	per yard super	3/10	1/8½
Ditto balustrades one side	per yard super	4/7	2/-
Ditto bars, etc., not exceeding 6" girth	per yard run	-/9	-/4
Ditto small pipe	per yard run	-/9	-/4
Ditto large pipe	per yard run	1/6	-/8

Paint on Wood

		Basic price	Add for each additional coat
Knot, prime, stop and paint one coat oil colour on general surfaces of woodwork	per yard super	3/5	1/5
Ditto on skirtings, rails, frames, etc., not exceeding 3" girth	per yard run	-/5	-/2
Ditto ditto for each additional 3" in girth	per yard run	-/4½	-/2
Ditto on sash squares one side	per dozen	4/4	1/9
Ditto on large sash squares one side	per dozen	7/9	3/1

Stain and Varnish on Wood

		per yard super
Prepare, size, stain and twice varnish on general surfaces of woodwork	.....	3/7
Ditto on skirtings, rails, frames, etc. not exceeding 3" girth	per yard run	-/5½
Ditto ditto for each additional 3" in girth	per yard run	-/5

Pat Davis

F.R.I.C.S., F.I.Arb.

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24

THE INDUSTRY

From the Industry this week, Brian Grant reports on prefabricated aluminium classrooms, price reductions for fluorescent lighting fittings, a new range of a well-known brand of thermoplastic tiles and a new flame-resistant building board.

THE PUBLIC WORKS EXHIBITION

This year's Public Works Exhibition unfortunately closes on Saturday, but it is worth recommending nearly all architects to go if they can possibly find the time. It is, of course, concerned mainly with large-scale builders' plant and equipment, and with such things as dust carts and sewer pumps for local authorities, but it is as well for architects to know about these things, and there are also a number of exhibits which are of immediate practical interest. S.M.D., for instance, are showing a full-sized section of their standardized "Alframe" school classroom, which has been designed by their architect, A. F. Hare. These classrooms are completely fabricated in the factory and consist of aluminium portal frames, wall coverings, roofs, corridors, partition units and fittings.

The portal frames are of extruded hollow box sections with aluminium T section purlins, supporting a low pitched roof of "Stramit" board with a bituminous felt surfacing. The frames are built up in skeleton form and the only site work necessary is erection, cladding of the walls, and roofing. The wall cladding consists of a newly developed aluminium sheet which has concealed fixings and is backed with glass silk insulation and lined internally with wallboard. The method of construction, however, allows for traditional types of walling where a variety of external texture is required, while the roofing, canopies, fenestration and degree of insulation can all be varied to suit different aspects and conditions. The classroom is planned on a 4 ft. module. (*Structural and Mechanical Engineers, Ltd., 2, Buckingham Avenue, Slough, Bucks.*)

STEELWORK TABLES

Those architects, and there must be many, who have forgotten a good deal of the structural knowledge which they had to acquire for professional examinations, will be glad to know that Dorman Long have just issued a new edition of their handbook. Compared with previous editions, there has been a certain amount of re-arrangement, and, at the same time, quite a lot of new material has been added with all the necessary references to current British Standards. It is interesting to note that this handbook has been regularly revised and expanded since it was first issued in 1888, and although there are unlikely to be any architects who used the first edition, there are no doubt plenty who have used the previous editions often enough to know how extremely valuable they are. (*Dorman Long & Co. Ltd., G.P.O. Box 1, Zetland Road, Middlesbrough.*)

LIGHTING FITTINGS

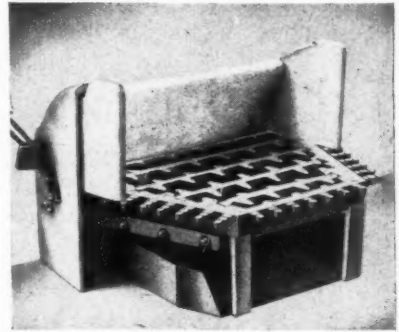
Several manufacturers of fluorescent lighting fittings, including the G.E.C., B.T.H., and Philips Electrical, have announced various reductions in the price of fluorescent lighting fittings. Many of the more popular fittings have been reduced by as much as 20 per cent., and in many instances the necessary starting switches and transforming gear has also been reduced. Here the figure is about 5 per cent.

FLOOR TILING

Most readers will know the "Accotile" range of floor tiles which are made basically of asbestos fibre with asphaltic or resinous binders. In the past most of the types available have been in the marbled patterns, which not everybody likes, and it is therefore worth noting that a new range known as "Monochrome" has just been produced. There are six colours in the new range, including a very pleasant grey, while the other colours are a dark red, a buff, a beige, a green and a blue. These tiles can be laid without a damp course direct on surface concrete, provided that there is no actual water pressure from outside. The new shades are produced in the standard sizes of 12 by 12 in. and 9 by 9 in., and in two thicknesses, $\frac{1}{2}$ and $\frac{3}{8}$ in. (*Armstrong Cork Co. Ltd., Kingsbury, London, N.W.9.*)

CONTINUOUS BURNING FIRES

The photograph above shows the "Esto (C)" continuous burning fire, a shaking bottom grate version of the "Esto (B)." This grate should never need poking or raking, as the ash is cleared by working the lever at the side with the separate operating handle, which is also used for withdrawing the ashpan. The air control flap is quickly



"Esto (C)" continuous burning fire, with shaking bottom grate which needs no poking or shaking.

adjustable and a gas ignition burner can be provided as an extra. Prices vary from £4 10s. to £5 7s. 6d. according to the type of vitreous enamel finish required. The standard model is suitable for the usual 16-in. opening. Installation is simple, fire-proof cement being necessary only at the sides and base of the fire-front, and at the joint between the front and side firebricks. (*Carron Company, Carron, Falkirk, Stirling-shire.*)

FIRE RESISTING INSULATING BOARDS

Celotex Ltd. has just introduced a new product named Calobestos, for which is claimed a high degree of thermal insulation together with effective resistance to flame spread. The new board consists of a core of cane fibre faced on one or both sides with asbestos, which is bonded to the core with a fire- and water-resistant adhesive. The board meets the requirements of the Class I Spread of Flame Test.

At the moment the board is produced in sheets $\frac{1}{2}$ in. thick and measuring 8 ft. by 2 ft. (*Celotex Ltd., North Circular Road, Stonebridge Park, London, N.W.10.*)

BRIAN GRANT

QUESTIONS & ANSWERS

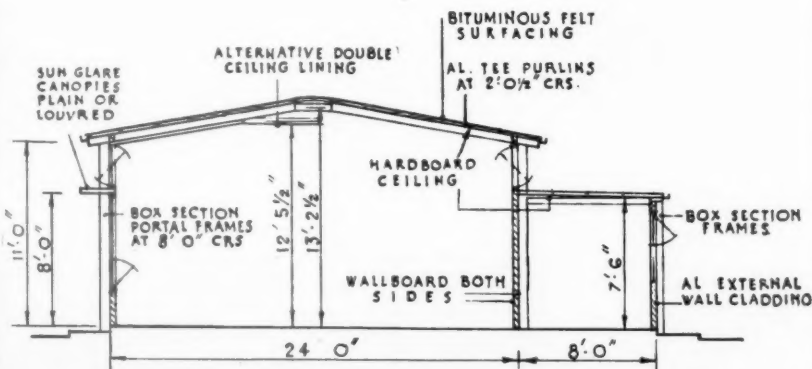
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Any information you can give us with regard to the heating and purification of the water, together with heights of diving boards, depth of water, and width of paving round the pool would be appreciated.

A The size you suggest should be ample for a small family bathing pool. Generally speaking, heating is not usual for open-air swimming pools, unless expense is of no consideration whatever. Heat losses from an open-air pool are tremendous, especially at night, and, providing the bath has a sunny aspect, the temperature of the water during the summer

continued on page 570



Cross section through the "Alframe" prefabricated aluminium classroom unit.

Readers requiring up-to-date information on building products and services may complete and post this form to the Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1

ENQUIRY FORM

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AJ 6.11.52

continued from page 569

months should be satisfactory.

Purification of the water depends to a large extent on the number of people using the bath and the time it is in actual use. It is also necessary to know if the water is from the main or from natural sources, such as river or well.

Depths of the bath depend on diving needs and the height and number of diving boards also depend on the requirements of the users. Paving should be at least 4 ft. wide at the sides of the bath and not less than 10 ft. at the ends.

There is a good chapter on open-air swimming pools in *Planning*, by E. & O. E. (B. T. Batsford Limited) and two ARCHITECTS' JOURNAL Information Sheets (4.L10 and 4.L11) will give you a good deal of information on the sizes and depths of baths, and the heights of diving platforms.

Obituary

Ald. G. E. Marlow, a former Lord Mayor of Sheffield, died recently, aged 66, after several months' illness. He was chairman of W. Marlow and Sons, Ltd., a firm of building contractors founded by his father, president of the Sheffield Master Builders' Association in 1924, and for several years chairman of the Builders' Exchange Company. Ald. Marlow was a director of The Ketton Portland Cement Co. Ltd., and of Ribblesdale Cement, Ltd., both of which are in close association with Thos. W. Ward Ltd., Sheffield.

Announcements

Messrs. Chamberlin, Powell & Bon, architects, have moved to Avenue Studios, 15, Sydney Mews, Fulham Road, London, S.W.3, and will be pleased to receive trade literature at that address.

The new Birmingham District Offices of Metropolitan-Vickers Electrical Co. Ltd. and the Edison Swan Electric Co. Ltd., at 10-12, Hospital Street, were opened recently by Alderman W. S. Lewis, C.B.E., Chairman of the Midlands Electricity Board.

American architect, licensed in California, wishes to exchange letters on modern contemporary architecture, housing, reconstruction and university planning, with young architects. Hikes, skis, cycles and camps. Ralph M. Wefel, 3895, Berry Drive, Studio City, California, USA.

Messrs. Gent & Co. Ltd., Electrical Engineers, of Leicester, announce the appointment of S. A. Clarke to their board of directors. Mr. Clarke commenced work with the company in 1910 and has for a number of years been progress manager. He is a member of the Leicester Association of Engineers.

After almost thirty years as a practising architect, Mr. Arthur Pickles, O.B.E., J.P., is retiring from this partnership. The practice will be continued by Mr. Richard H. Pickles, under the style of "Richard H. Pickles, A.R.I.B.A., Chartered Architect." His address is 3, Wards End, Halifax.

A continent-wide market investigation by The Bristol Aeroplane Company (Weston) Ltd., makers of "Bristol" permanent aluminium buildings, began on October 1st when H. J. Rush, sales manager of the company, arrived in Johannesburg for a 10,000 miles tour of the continent by air. Mr. Rush's tour will last eight weeks and will take him from Johannesburg to Freetown, via Durban, Cape Town, Salisbury, Lusaka, Zomba, Nairobi, Lagos and Accra. At each point he will visit architects, builders, and officials of local authorities to discuss application of the "Bristol" aluminium unit construction system to their accommodation problems.

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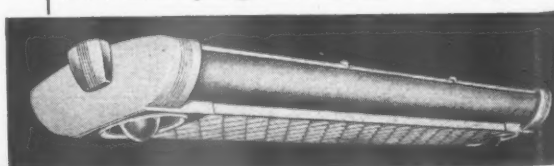
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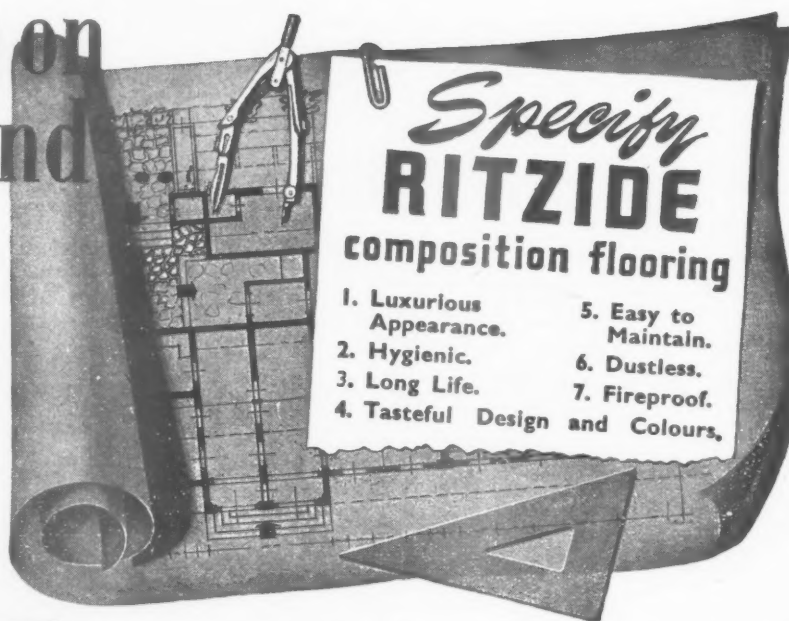
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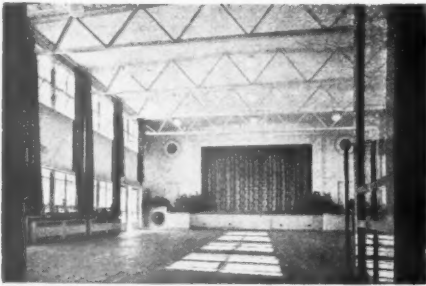
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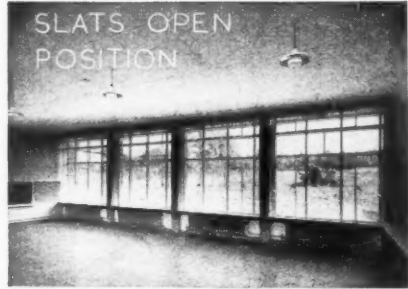
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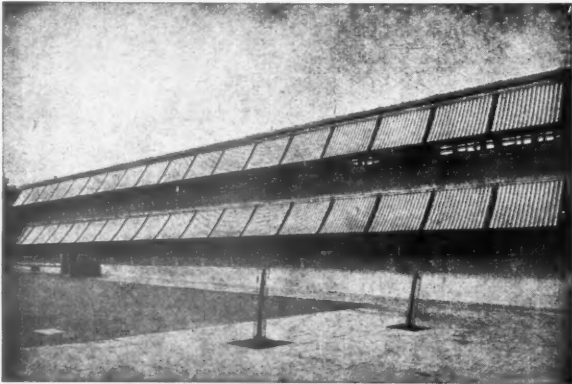


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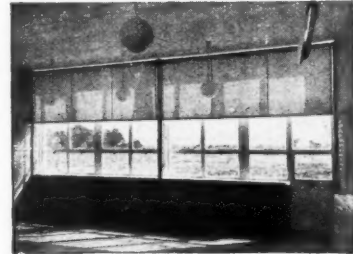


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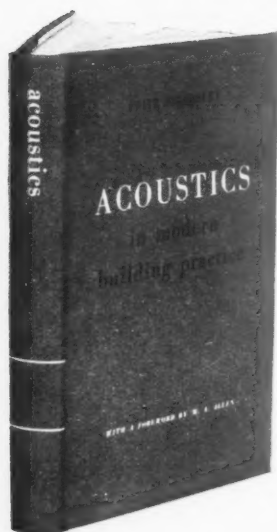
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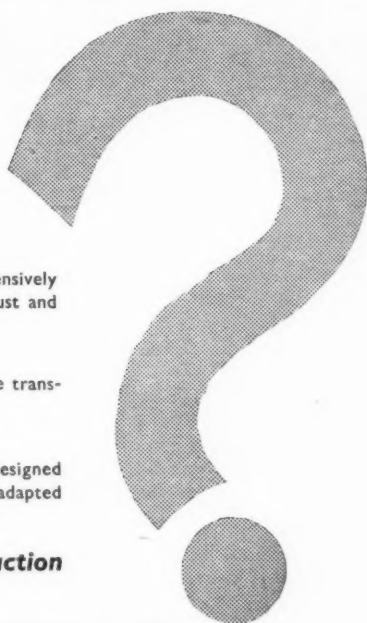


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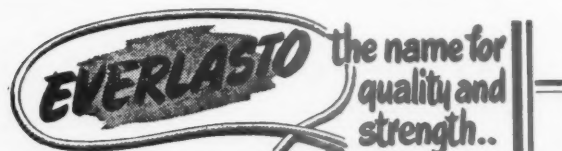
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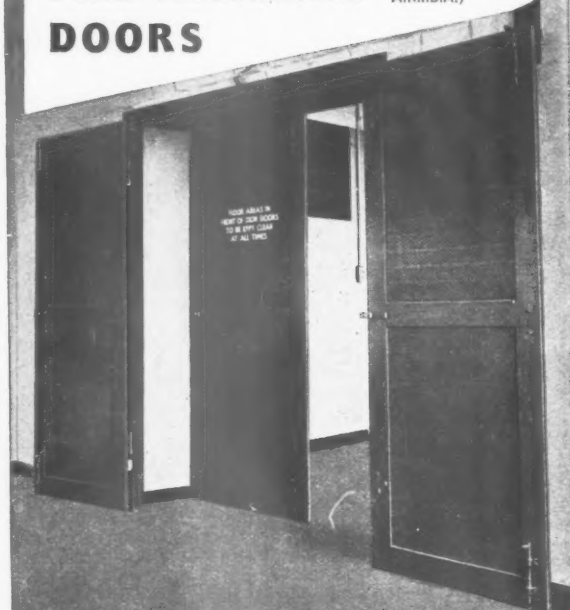
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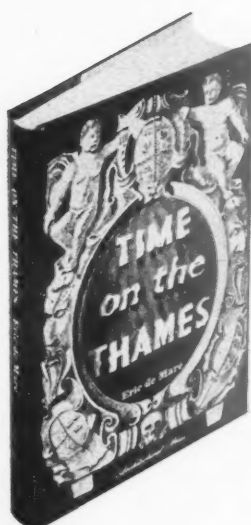
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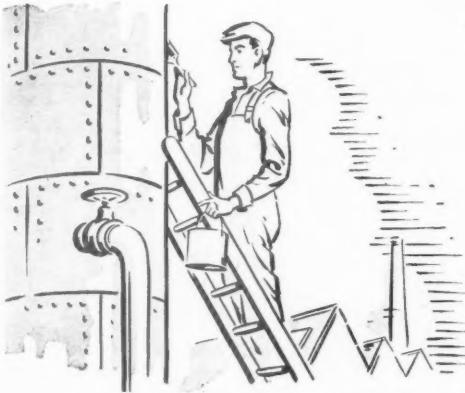
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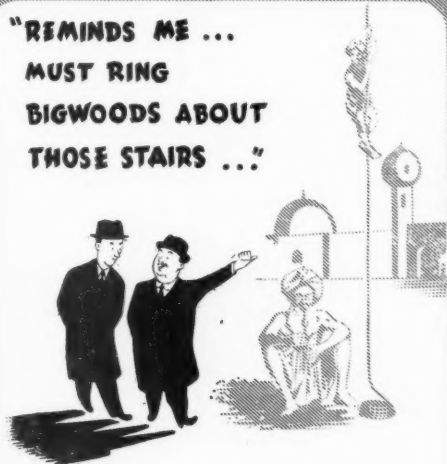
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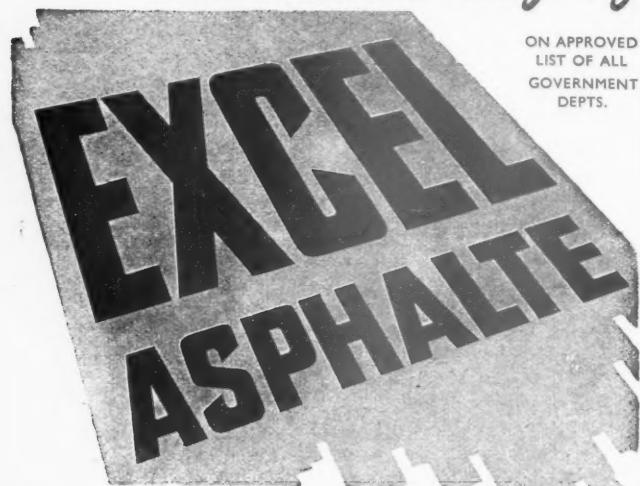
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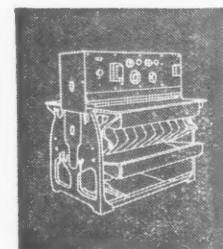


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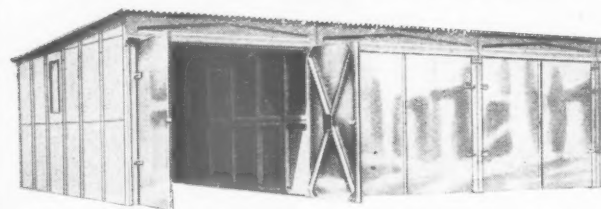
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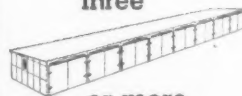
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Plus £55 per additional garage to any number required in one block.

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THE COLLEGE OF ESTATE MANAGEMENT
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Day and Evening Courses for the following Examinations:—
University of London Degree of B.Sc. (Estate Management), commence in October. (Day courses only. Completed application forms must be submitted by May 31st.)
Royal Institution of Chartered Surveyors (Building, Quantities and Valuations subdivisions), commence in April. (Completed application forms must be submitted by December 31st.)
Postal Courses
B.Sc. (Estate Management), commence in January and July.
The Royal Institution of Chartered Surveyors, Institution of Municipal Engineers, Royal Sanitary Institute, commence in April and October.
Town Planning Institute, commence in May and October.
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Applications to: The Secretary. Telephone: Western 1546

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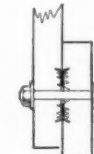
THE HAMPERING effect of the steel shortage can be minimised by the use of more timber for trusses, lattice girders, bracing members, etc. This technique is possible through "Bat" Timber

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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, 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 Advertisements

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

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

CITY OF NOTTINGHAM

CITY ENGINEER'S DEPARTMENT

Applications are invited for the position of ARCHITECTURAL ASSISTANT in one of the following grades:

Grade A.P.T. IV, £555-£600.

Grade A.P.T. V, £595-£645.

Grade A.P.T. Va, £625-£685.

Grade A.P.T. VI, £670-£735.

Grade will depend on candidate's qualifications and experience. For Grade A.P.T. V, or over, applicants must be Associate Members of the Royal Institute of British Architects.

The successful candidate will be required to pass a medical examination and contribute to the Corporation's Superannuation Fund.

Applications, on forms to be obtained from R. M. Finch, Esq., O.B.E., M.I.C.E., Guildhall, Nottingham, should be returned to him not later than 14th November, 1952.

T. J. OWEN,

Town Clerk.

Guildhall, Nottingham.

COUNTY BOROUGH OF WEST HAM.
BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT

Applications are invited for the post of CHIEF ASSISTANT (PLANNING) on the permanent establishment of the Department.

Applicants must possess imagination, initiative, and administrative ability, and be prepared to accept responsibility. They should be Architect-Planners, with experience in the reconstruction of war damaged areas and able to take charge of a Planning Section of a busy office, and be Corporate Members of the R.I.B.A. and T.P.I. The work will involve attendance at committees. The salary is A.P.T. Grade X (£895×£40×£40×£50—£1,025 p.a., plus £30 London allowance).

Application forms to be obtained from the Borough Architect and Planning Officer, Thomas E. North, O.B.E., F.R.I.B.A., Dist.T.P., 70, West Ham Lane, Stratford, E.15, and should be returned not later than Friday, 14th November, 1952.

G. E. SMITH,

Town Clerk.

West Ham Town Hall, Stratford, E.15.

7627

RAWMARSH URBAN DISTRICT COUNCIL.

Applications are invited for the position of Housing Architect on the staff of the Surveyor at a salary in accordance with A.P.T. Division of the National Joint Council for Local Authorities, Grade VI (£670—£775). Applicants must be Associates R.I.B.A. with experience in Housing estate development, such experience to include the preparation of Bills of Quantities relating to house construction.

A house will be made available is required.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidate passing a medical examination.

Applications, stating age, qualifications, details of experience together with copies of two recent testimonials must be delivered to the undersigned not later than Monday, 17th November, 1952.

G. F. CLFGG,

Clerk to the Council.

Council Offices, Parkgate,

Yorks. W.R.

October, 1952.

7644

SOUTH CAMPSHIRE RURAL DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the department of the Council's Architect. Salary: A.P.T. Division, Grade II (£495×£15—£540).

Applicants must have completed professional training and be experienced in the preparation of working drawings in connection with small houses.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, the National Conditions of Service, to a satisfactory medical examination, and to one month's notice in writing on either side.

Applications, stating age, present salary, experience and qualifications, together with copies of two recent testimonials should reach the undersigned not later than Saturday, 15th November, 1952.

Canvassing, directly or indirectly, will disqualify.

B. G. CRAFT,

Clerk to the Council.

County Hall, Hobson Street, Cambridge.

27th October, 1952.

7650

HEMEL HEMPSTEAD DEVELOPMENT CORPORATION

Applications invited for the appointment of PLANNING ASSISTANT. Salary scale, £485-£610. Applicants should have had experience in a planning/drawing office, and preference will be given to student members of either the Town Planning Institute or the R.I.B.A.

Conditions of appointment broadly similar to Local Government Charter, with Superannuation scheme, or opportunity of continuing in Local Government Superannuation Fund.

Applications, endorsed "Vacancy No. 9," giving details of age, qualifications, and experience, together with names of two persons to whom reference can be made, to reach undersigned by 14th November, 1952.

W. O. HART,

General Manager.

Westbrook Hay, Hemel Hempstead, Herts. 7614

LOTHINGLAND RURAL DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECT AND SURVEYOR.

Applications are invited for the above full-time appointment, at a salary of £300, rising by annual increments of £50 to £950 per annum, together with travelling allowance for motor car in accordance with National Scales.

Applicants should be qualified Architects with Local Authority Housing experience, capable of undertaking the design and superintending the erection of Council Houses and their maintenance, together with sewer maintenance, water supply, licensing, and the general work of a Surveyor's Department.

A whole-time Architectural Assistant will be employed.

The appointment will commence on the 1st April, 1953, and be terminable by two months' notice on either side, and subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications and experience, accompanied by copies of three testimonials, must be sent to the undersigned not later than Monday, the 24th November, 1952.

Canvassing, directly or indirectly, will be a disqualification.

Clerk of the Council.

Council Offices, Rectory Road, Lowestoft.

23rd October, 1952.

7651

BALDOCK URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant in the Engineer and Surveyor's Department.

Candidates should have had considerable experience in the design and construction of dwelling houses, the preparation of specifications, bills of quantities, and the measuring up and supervision of Contractors' work.

The salary will be fixed according to qualifications and experience within the range of £595-£645. The National Scheme of Conditions of Service will apply, and the appointment will be determined by one month's notice on either side.

Housing accommodation will be provided for the successful applicant, if required.

Applications, stating full particulars of experience, age, and qualifications, accompanied by copies of three recent testimonials, must reach the undersigned not later than the 14th November, 1952.

F. D. GENTLE,

Clerk of the Council.

Council Offices, Baldock.

28th October, 1952.

7653

CROWN AGENTS FOR THE COLONIES.

ARCHITECTURAL ASSISTANT required by the Public Works Department, Nyasaland, for one tour of 24 to 36 months in the first instance with prospect of permanent and pensionable employment.

Salary (including present cost of living allowance) in the scale £765 a year rising to £1,040. Outfit allowance £50. Free passages. Liberal leave on full salary. Candidates under 30 years of age, must have at least five years' all round experience in an Architect's Office, and have a sound knowledge of construction with ability to prepare working drawings and specifications from Architect's designs.

Apply at once by letter, stating age, full names in block letters, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting on letter M.29656.D. The Crown Agents cannot undertake to acknowledge all applications and will communicate only with applicants selected for further consideration.

7657

PETTLEE DEVELOPMENT CORPORATION.

JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, salary range to be £435 rising by £25 increments to £510 per annum.

The appointment, which is superannuable, is temporary in the first instance but will carry opportunity for advancement to a suitable appointment.

The person appointed will work in the design and planning team and will gain experience in town centre design, residential development, etc.

Housing accommodation is normally offered in suitable cases.

Applications, stating age, education, training, experience, etc., together with names of two referees, must be received by the undersigned not later than 17th November, 1952.

A. Y. WILLIAMS,

General Manager.

Shotton Hall, Castle Eden,

Co. Durham.

7643

SOUTHAMPTON C.B.C.

Appointment of QUANTITY SURVEYOR, Grade VI (Inter. R.I.C.S. minimum qualification), and ASSISTANT Q.S., Grade II. Application forms from Borough Architect, Civic Centre, Southampton, returnable by 17th November, 1952.

7670

WARWICKSHIRE COUNTY COUNCIL.
DEPUTY COUNTY ARCHITECT.

Applications are invited for the post of Deputy County Architect. The salary will be £1,350 per annum, rising, subject to satisfactory service, by annual increments of £50 to a maximum of £1,650. The appointment will be subject to three months' notice on either side.

Candidates must be Members of the Royal Institute of British Architects, and preference will be given to those having had experience under large public authorities.

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

Applications must be made on forms obtainable from the undersigned, and state the names and addresses of not more than three persons who have knowledge of the applicant's experience and work and to whom reference can be made, and should be addressed to the Clerk of the Council, Shire Hall, Warwick, in a sealed envelope marked "Deputy County Architect," and must reach me not later than first post on the 5th December, 1952.

Canvassing members or officers, either directly or indirectly, is strictly prohibited, and will be considered a disqualification.

L. EDGAR STEPHENS,

Clerk of the Council.

Shire Hall, Warwick.

29th October, 1952.

7664

BOROUGH OF HESTON AND ISLEWORTH.

APPOINTMENT OF (a) SENIOR ARCHITECTURAL ASSISTANT, and (b) CHIEF BUILDING INSPECTOR.

Applications are invited for the positions of Senior Architectural Assistant and Chief Building Inspector in the Department of the Borough Engineer and Surveyor. The salary offered is, in each case, in accordance with the scale A.P.T. VII (£710×£25—£785) of the Scheme of Conditions of Service of the National Joint Council for Local Authorities Administrative, Professional, Technical and Clerical Services, with the addition of £30 per annum for London "weighting."

(i) SENIOR ARCHITECTURAL ASSISTANT. The person appointed must have had good experience in architectural design and building work under construction. Duties will include preparation of sketch designs, working drawings, and the handling of building contracts under construction.

Experience in housing and multi-storey flats will be considered to be an advantage.

Other things being equal, preference will be 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 Institution.

(ii) CHIEF BUILDING INSPECTOR.

This officer will be responsible to the Borough Engineer and Surveyor for all matters appertaining to the operation of the Council's Building bye-laws, including the supervision of the technical and clerical staff of the Building Inspection Section. He will also act as the Petroleum Inspector and Inspector for the purposes of section 34 of the Factories Act, 1937.

Candidates must have an extensive knowledge of practical building construction in all branches, and considerable experience in the administration of building bye-laws and associated regulations. They will also be required to give proofs of competency in analysing and checking calculations relating to steel and reinforced concrete structures. The provision of one or more of the following examination qualifications will be considered an advantage: The Institution of Structural Engineers (Assoc. Membership); Post-Higher National Certificate (advanced theory of structures); Institution of Municipal Engineers (Building Inspectors).

The Council is unable to assist either person appointed with housing accommodation.

Applications on forms to be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, endorsed either "Senior Architectural Assistant" or "Chief Building Inspector" as appropriate, must be received by the undersigned not later than Monday, 24th November, 1952.

HAROLD SWANN,

Town Clerk.

Council House, Hounslow.

7636

GLENROTHES DEVELOPMENT CORPORATION.

Applications are invited for the appointment of an ARCHITECT/PLANNER, with salary within the range £520-£860, according to qualifications and experience. Applicants should be under 45, Associates of the R.I.B.A. and T.P.I. with general planning and architectural experience, particularly in the field of civic design and large residential developments.

The Corporation will give every assistance in securing housing accommodation, if required. The post is superannuable under the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate will require to pass a medical examination. Applications, with details of age, qualifications and experience, must reach the Secretary, Glenrothes Development Corporation, Glenrothes by Markinch, Fife, not later than 15th November, 1952.

7638

GOVERNMENT OF NORTHERN IRELAND.

Applications are invited for the permanent and pensionable post of ASSISTANT (STRUCTURAL) ENGINEER in the Ministry of Finance.

Salary scale: £500 × 25 = £750 × £30 = £900, plus pay addition of 10 per cent. on first £500 of salary and 5 per cent. on remainder. The commencing salary of £600 per annum is linked to entry at age 26 with an increase of one increment for each year above that age, subject to a maximum entry point of £810 (i.e., £875 10s., including pay addition).

Candidates must hold a recognised basic qualification in Civil Engineering and have experience of reinforced concrete design applied to building structure.

Preference will be given to candidates who served with H.M. Forces during wartime, provided that such candidates can, or within a reasonable time will be able to, discharge the duties efficiently.

Application forms may be obtained from the Secretary, Civil Service Commission, Stormont, Belfast, to whom they should be returned together with copies of two recent testimonials, not later than 18th November, 1952.

CANNOCK RURAL DISTRICT COUNCIL.

(a) QUANTITY SURVEYING ASSISTANT. Grade A.P.T. V (£595-£645).

(b) JUNIOR ARCHITECTURAL ASSISTANT. Grade A.P.T. II (£495-£540).

Applications are invited for the above appointments on the permanent staff of the Engineer and Surveyor of the Cannock Rural District Council.

Applicants for post (a) should be fully capable of taking off and preparing Bills of Quantities for housing schemes, measuring builders' work, and checking and agreeing interim and final accounts, and should preferably have passed the Final Examination of the R.I.C.S. (Quantities Sub-Division).

Applicants for post (b) should be competent draughtsmen and have had a sound architectural training, and should preferably have passed the Intermediate Examination of the R.I.B.A.

Both appointments will be subject to one month's notice on either side, to the provisions of the National Joint Council Conditions of Service and the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

A travelling allowance in accordance with the National Joint Council scale for casual users will be paid to the successful applicant for post (a) who will be required to provide a car or motorcycle.

Applications, giving full particulars of age, qualifications, experience, etc., together with copies of two recent testimonials, should reach the undersigned not later than Saturday, 22nd November, 1952.

JOHN P. ROBERTS,

Clerk to the Council.

Council Offices, Parkridge, Stafford. 7657

COUNTY OF CORNWALL.

APPOINTMENT OF PLANNING STAFF.

Applications are invited for the appointment of an ASSISTANT AREA PLANNING OFFICER for the Eastern Area Planning Office, Liskeard. The salary will be Grade A.P.T. VI (£670-£735), with initial salary according to qualifications and experience. Candidates should be Associate Members of the Town Planning Institute, and the successful candidate will be engaged mainly on development control.

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

Applications, together with the names and addresses of three persons to whom reference may be made, should be addressed to the County Planning Officer, County Hall, Truro, not later than the 22nd November, 1952.

E. T. VERGER,

Clerk of the County Council.

County Hall, Truro. 7663

BOROUGH OF GRANTHAM.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the department of the Borough Engineer and Surveyor, at a salary in accordance with Grade VII, A.P.T. (£710-£785), of the National Scheme of Conditions of Service.

Applicants must be Registered Architects and be capable of preparing and supervising schemes of construction—principally housing.

Previous experience with a local authority is desirable, and the successful candidate will be required to take charge, under the direction of the Borough Surveyor, of the planning and execution of the Council's housing programme.

The appointment is subject to the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service, and will be terminable by one month's notice on either side.

Housing accommodation will be made available if necessary.

Applications, stating age, qualifications, present and past employment and experience, together with the names of three persons to whom reference can be made, should be sent to Trevor J. Livesey, A.M.I.C.E., A.M.I.Struct.E., A.M.I.Mun.E., Borough Engineer and Surveyor, Guildhall, Grantham, to arrive not later than 10th November, 1952.

JOHN F. GUILLE,

Town Clerk.

Guildhall, Grantham. 7674

CITY OF OXFORD.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited from fully qualified Architects for the under-mentioned post on the permanent staff of the City Architect and Planning Officer's Department:—

ARCHITECTURAL ASSISTANT, Grade V, A.P.T. Division, £595 × 15 (2) × £20 (1)—£645 p.a. Applicants must be Registered Architects, capable of preparing sketch designs, full working drawings, specifications, etc., and competent to undertake housing, educational and general architectural work.

Housing accommodation will be provided for the successful applicant, if required.

The appointment will be subject to the National Conditions of Service, the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Further details of the duties and application forms, which must be used in applying for the post, may be obtained from E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect and Planning Officer, Town Hall, Oxford, and completed forms must be returned to the City Architect and Planning Officer not later than the 21st November, 1952.

HARRY PLOWMAN,

Town Clerk.

Town Hall, Oxford. 7665

COUNTY OF LONDON.

LONDON BUILDING ACTS, 1930-1939.

LONDON BUILDING (CONSTRUCTION) BY-LAWS, 1952.

THE LONDON COUNTY COUNCIL gives notice in accordance with Section 8(h) of the London Building Act (Amendment) Act, 1935, that it has made by-laws under the above-mentioned Acts with respect to the following matters in connection with the construction and conversion of buildings and cognate matters:—

Construction and conversion and materials to be used therein.

Foundations and sites.

Description and quality of plastering.

Lighting and ventilation.

Dimensions of habitable rooms.

Prohibition of occupation of habitable rooms not complying with the London Building Acts, 1930-1939, and by-laws.

Projections.

Height of chimneys and chimney shafts.

Close fires and flues of pipes for conveying smoke or other products of combustion, heated air, steam or hot water.

The taking of samples of building materials by the District Surveyor and the testing of structural metal.

The filling up of excavations outside the external walls of the building and within 3 ft. therefrom.

The giving of notices and deposit of plans.

The classification of a building or part thereof in relation to the resistance to the action of fire of the constructional parts thereof and the period of time during which constructional parts are to be capable of resisting the action of fire.

Other matters connected with or ancillary to the foregoing matters.

The Council has determined that such by-laws shall come into operation on 1st January, 1953.

Copies of the by-laws are deposited at the County Hall, Westminster Bridge, S.E.1, and are open to public inspection, without payment on any week-day during the usual office hours.

Copies may also be purchased, price 3s. 6d. a copy (postage extra), either directly or through any bookseller from Staples Press, Ltd., Staples House, Mandeville Place, W.1, agents for the sale of the publications of the London County Council.

HOWARD ROBERTS,

Clerk of the London County Council.

The County Hall, S.E.1. 7673

BOROUGH OF NUNEATON.

ARCHITECTURAL ASSISTANT.

Applications to be delivered by the 19th November are invited for this appointment. Salary: A.P.T. Division, Grade V (£595-£645). Particulars from the Town Clerk, Council House, Nuneaton. 7675

COUNCIL OF THE COUNTY OF ABERDEEN.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ASSISTANT QUANTITY SURVEYOR in the County Architect's Department. The salary scale for the appointment is £460 to £565 per annum. Placing on the scale may be granted according to qualifications and experience.

Candidates should have passed the intermediate examination of the Royal Institute of Chartered Surveyors (Quantities Division).

The appointment is subject to the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate will require to pass a medical examination.

Forms of application are obtainable from the undersigned and should be returned not later than 21st November, 1952.

Canvassing of members of the Council directly or indirectly in connection with this appointment shall disqualify the candidate.

CHAS. HORNAL,

County Clerk.

22, Union Terrace, Aberdeen. 7639

UNION OF SOUTH AFRICA.

DEPARTMENT OF NATIVE AFFAIRS.

Applications are invited for appointment, on contract for five years, to posts of ASSISTANT ARCHITECT, in the Engineering Branch of the Department of Native Affairs, on the salary scale £400 × £50 = £900, plus a temporary cost-of-living allowance which fluctuates from time to time, and at present is £320 per annum for married and £100 per annum for single officers. In determining the commencing salaries, recognition will be given for appropriate experience.

Transport expenses in respect of successful candidates, their wives and dependent children, will be borne by the Department.

The prescribed form of application Z.93 and further particulars are obtainable from the Staff Clerk, South Africa House, Trafalgar Square, London, W.C.2. 7671

URBAN DISTRICT OF HORNCHURCH.

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

ARCHITECTURAL ASSISTANT, Grade III. Salary: £525 to £570 per annum.

ARCHITECTURAL ASSISTANT, Grade I. Salary: £465 to £510 per annum.

Full details of the appointment and forms of application can be obtained from the undersigned, by whom applications must be received not later than noon on Saturday, 15th November, 1952, endorsed "Architectural Assistant, Grade —," as the case requires.

P. L. COX,

Clerk of the Council.

Council Offices, Hornchurch, Essex. 7654

Tenders for Contracts

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

DURHAM COUNTY COUNCIL.

EDUCATION COMMITTEE.

PETERLEE JUNIOR NEW COUNTY SCHOOL

—ERECTION.

The Education Committee is prepared to receive sole tenders from Builders and Contractors for the erection of the above new school. Applications for the Form of Tender and Bills of Quantities should be sent to G. R. Clayton, County Architect, Court Lane, Durham, by not later than the 21st November, 1952.

No pledge is given to accept the lowest or any tender.

J. K. HOPE,

Clerk of the County Council.

Shire Hall, Durham. 7652

Architectural Appointments Vacant

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

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is exempted from the provisions of the Notification of Vacancies Order, 1952.

ARCHITECTURAL ASSISTANT required for large practice. Offices in Maidenhead. Practical experience in surveys, specifications, etc., essential. Details of experience and salary required to Box 7631.

ARCHITECTURAL ASSISTANT, with experience, required for general practice. Reply, stating experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 7622

JUNIOR ARCHITECTURAL ASSISTANT required. Inter. standard. State experience and salary required to: Ruddle & Wilkinson, F./A.R.I.B.A., Long Causeway Chambers, Peterborough.

IMPERIAL CHEMICAL INDUSTRIES, LTD., require an ASSISTANT ARCHITECT in London. Age 27-35 years. Essential qualifications: A.R.I.B.A., and 4 years' practical experience. Salary according to age and experience. Apply to the Personnel Manager, Head Office and Regions Staff Dept., Nobel House, 2, Buckingham Gate, S.W.1. 7608

ARCHITECT, Civil Engineer or experienced individual required in Ireland having complete knowledge of design of Pre-fabricated buildings in detail, and of all component parts; must be capable of taking complete charge of factory premises, and supervising design and construction. Outstanding salary to accepted person. Reply stating experience in detail, age, when available, salary expected to Box 7635.

LONDON Architects require SENIOR ASSISTANT ARCHITECTS, fully experienced in design and constructional details of Multi-storey Buildings, including Flats, Hospitals, Office Buildings, etc. Salaries from £1,000 to £1,500 per annum. Write, giving full particulars, to Box 7531.

AN IMPROVER or Junior Assistant required. Salary according to qualifications and experience. Messrs. Kenneth F. Wray, F./A.R.I.B.A., 43, Gildredge Road, Eastbourne. 7656

ARCHITECTURAL DESIGNER DRAUGHTSMAN (age 25 to 30) required by General, Gas and Chemical Engineering firm on Tees-side. Applicants must be experienced in preparation and layout for industrial buildings, etc. Apply stating age, experience, etc., quoting reference "F" to Box 7640.

A FAMOUS Mutual Life Assurance House needs a few men of drive and integrity to act as AGENTS. Architects and Surveyors have the right contacts, and can best serve their "Mutual" interests. Further details from Box 6894.

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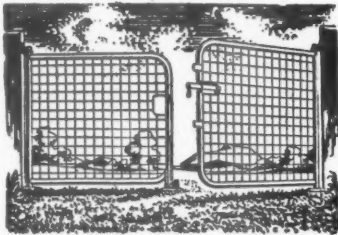
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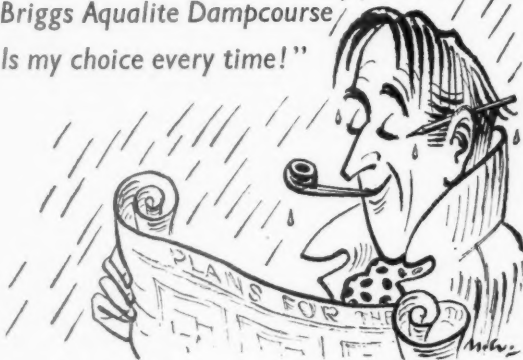


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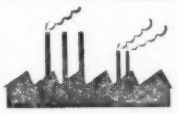
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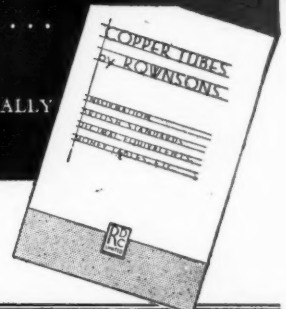
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