

# 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

Diary

News

Astragal's Notes and Topics

Letters

Societies and Institutions

## TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

## PHYSICAL PLANNING

## SUPPLEMENT

## CURRENT BUILDINGS

## HOUSING STATISTICS

Architectural Appointments  
Wanted and Vacant

No. 3049]

[Vol. 118

THE ARCHITECTURAL PRESS

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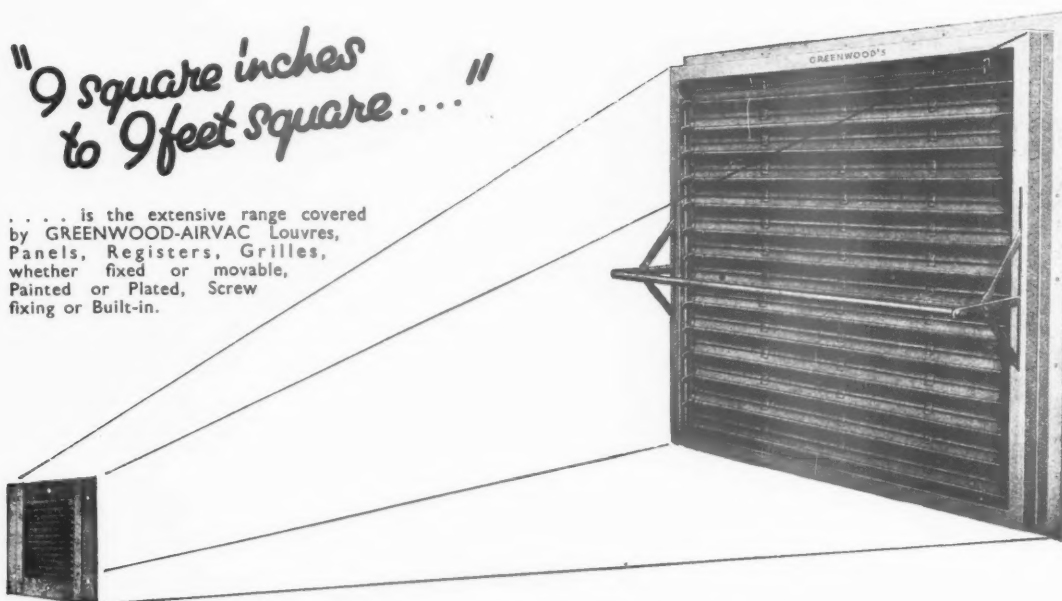
Registered as a Newspaper.

★ 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.

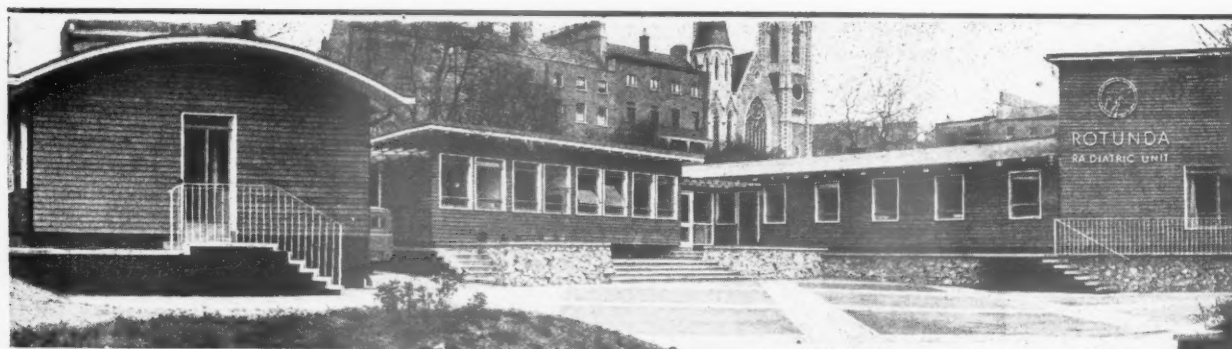
AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. 34/36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 8738
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1.	Museum 5400
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Fremantle 8494
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRDB	British Rubber Development Board. Market Buildings, Mark Lane, E.C.3.	Mansion House 9383
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abney 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Civic Centre, Newport, Mon.	Newport 5491
CAS	County Architects' Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Chichester 3001
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CCP	Council for Codes of Practice. Lambeth Bridge House, S.E.1.	Reliance 7611
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland.	
COID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Abbey 7080
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUC	Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.	Sloane 9116
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Reading 72255
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
DPT	Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
EJMA	English Joinery Manufacturers' Association (Incorporated), Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architect and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub-Contractors, 5, Arundel Street, Strand.	Temple Bar 6633
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. Buckingham Palace Gdns., S.W.1.	Sloane 2837
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 5615
ICA	Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1.	Grosvenor 6186
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215

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to 9 feet square...."

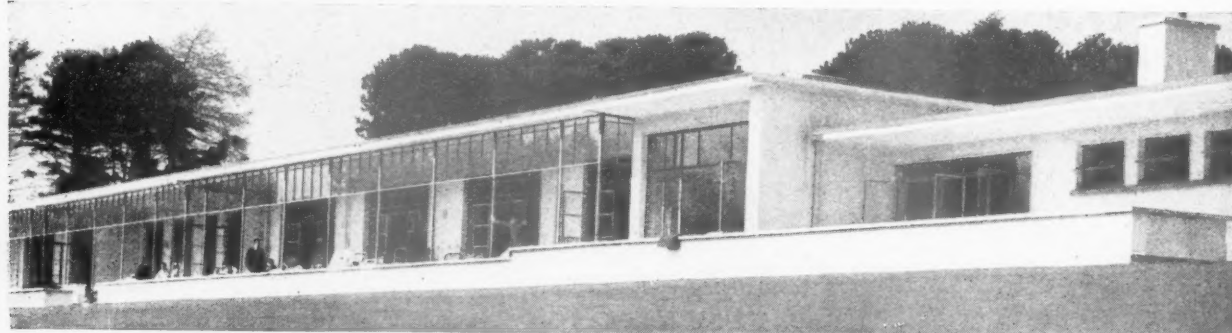
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Newcastle Sanatorium, Co. Wicklow. Architect: Alfred Phillips, M.R.I.A.I.

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*A detached house at Prestatyn roofed with  
Dignus 11 x 7 Dark Red Sandstorm Tiles.*

*Architect: H. V. Goold, Esq., L.R.I.B.A.*

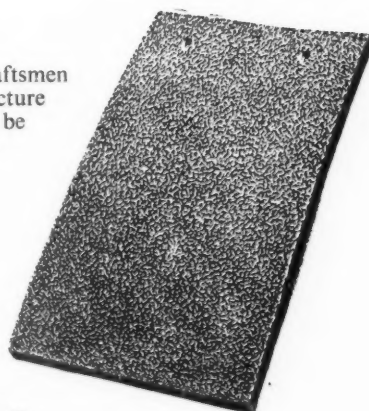
*Clay is fed into the Bat Machine  
illustrated here and emerges as a  
continuous ribbon which is cut to the  
size of the tiles. These rectangular  
shapes or bats are closely checked to  
ensure perfection.*



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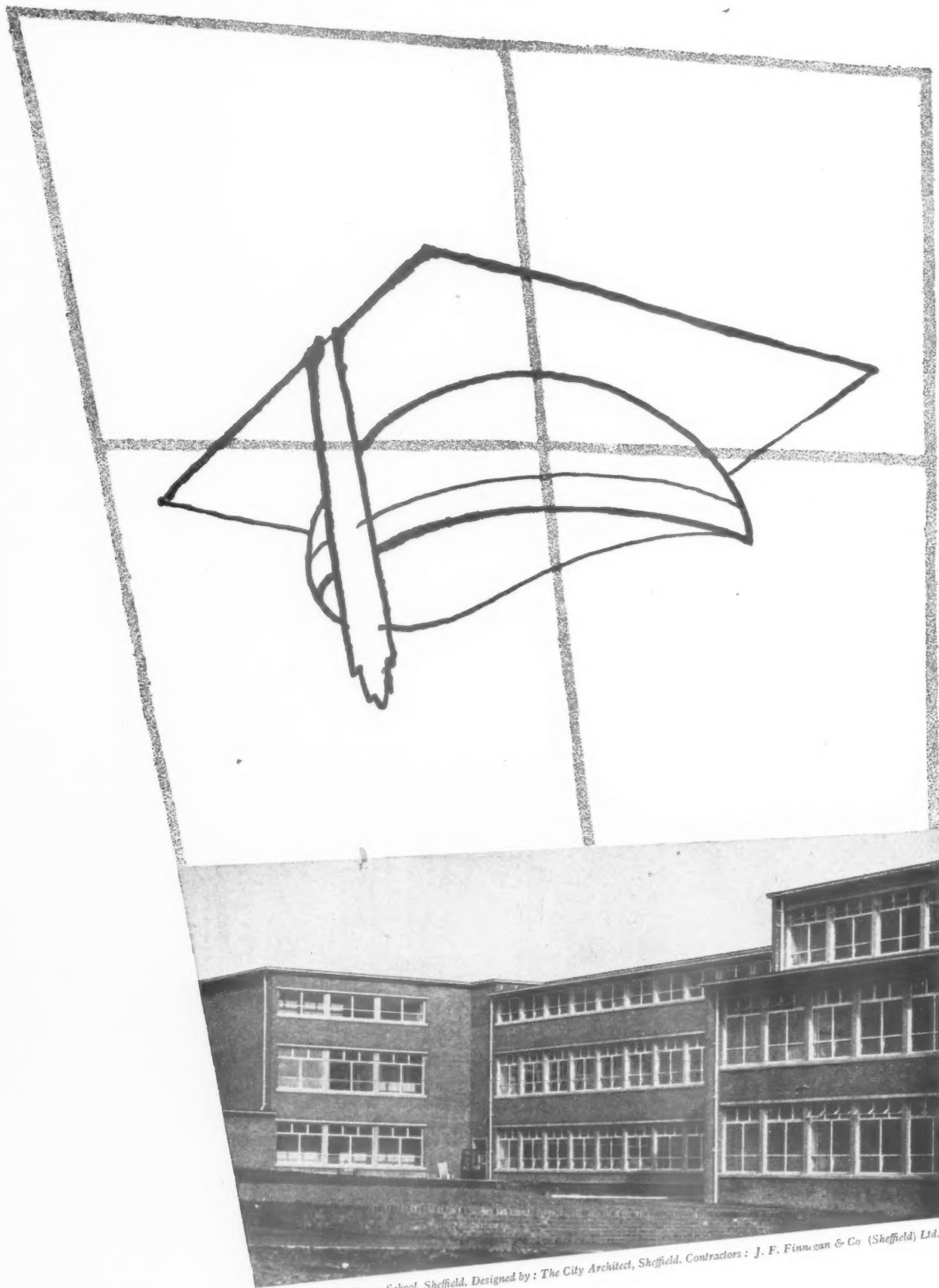


# DIGNUS

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DIGNUS LIMITED, KEELE, NEWCASTLE, STAFFS.



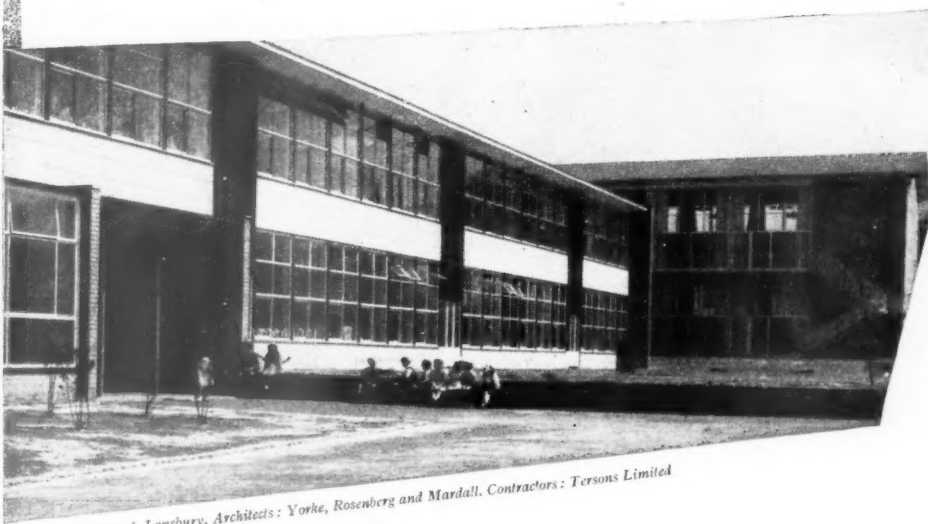


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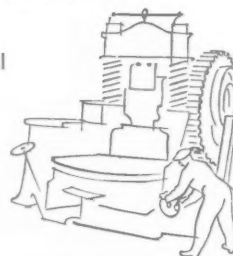


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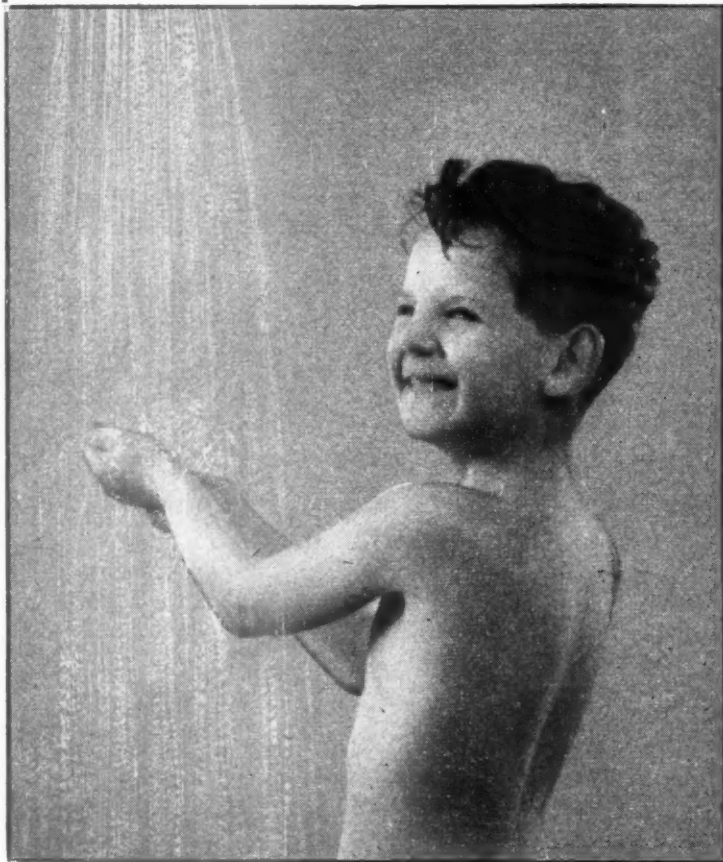


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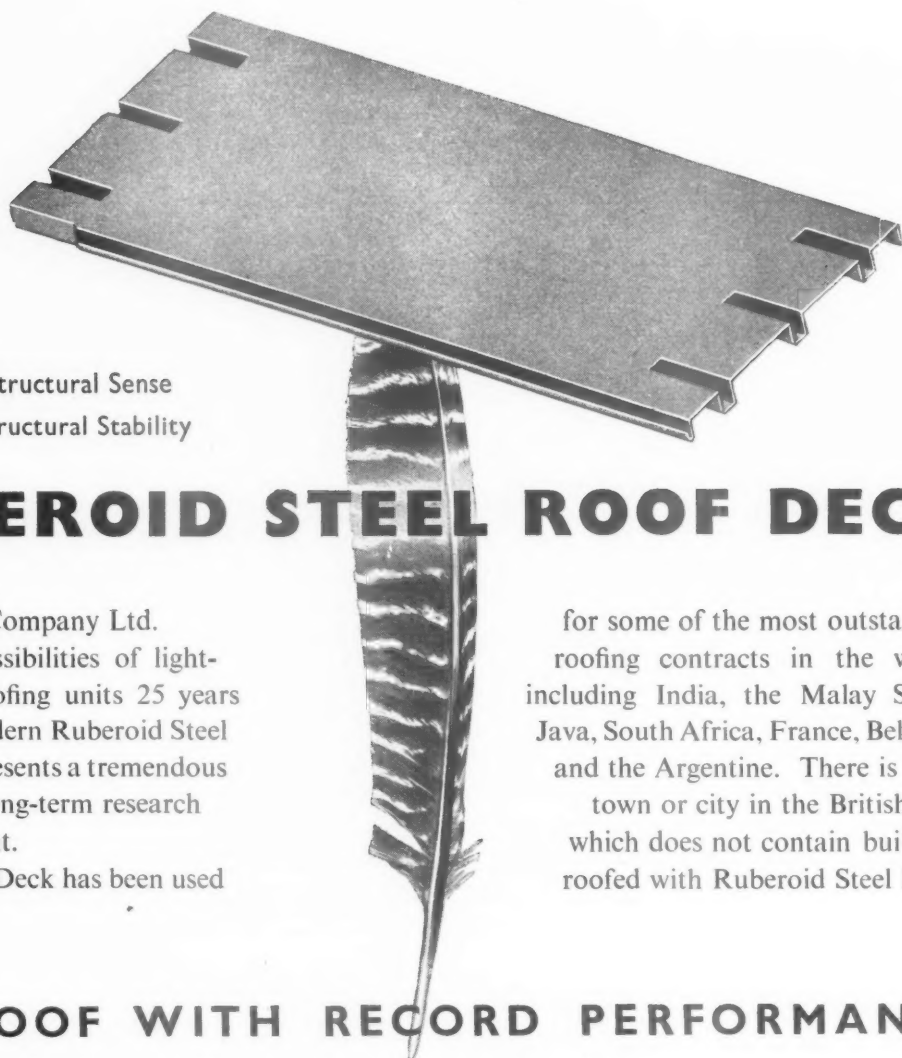
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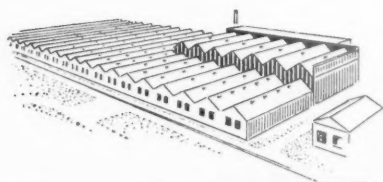
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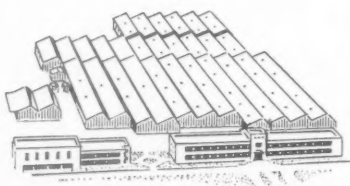
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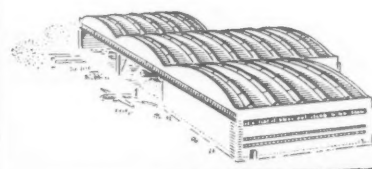
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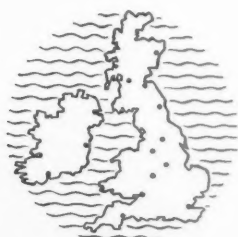
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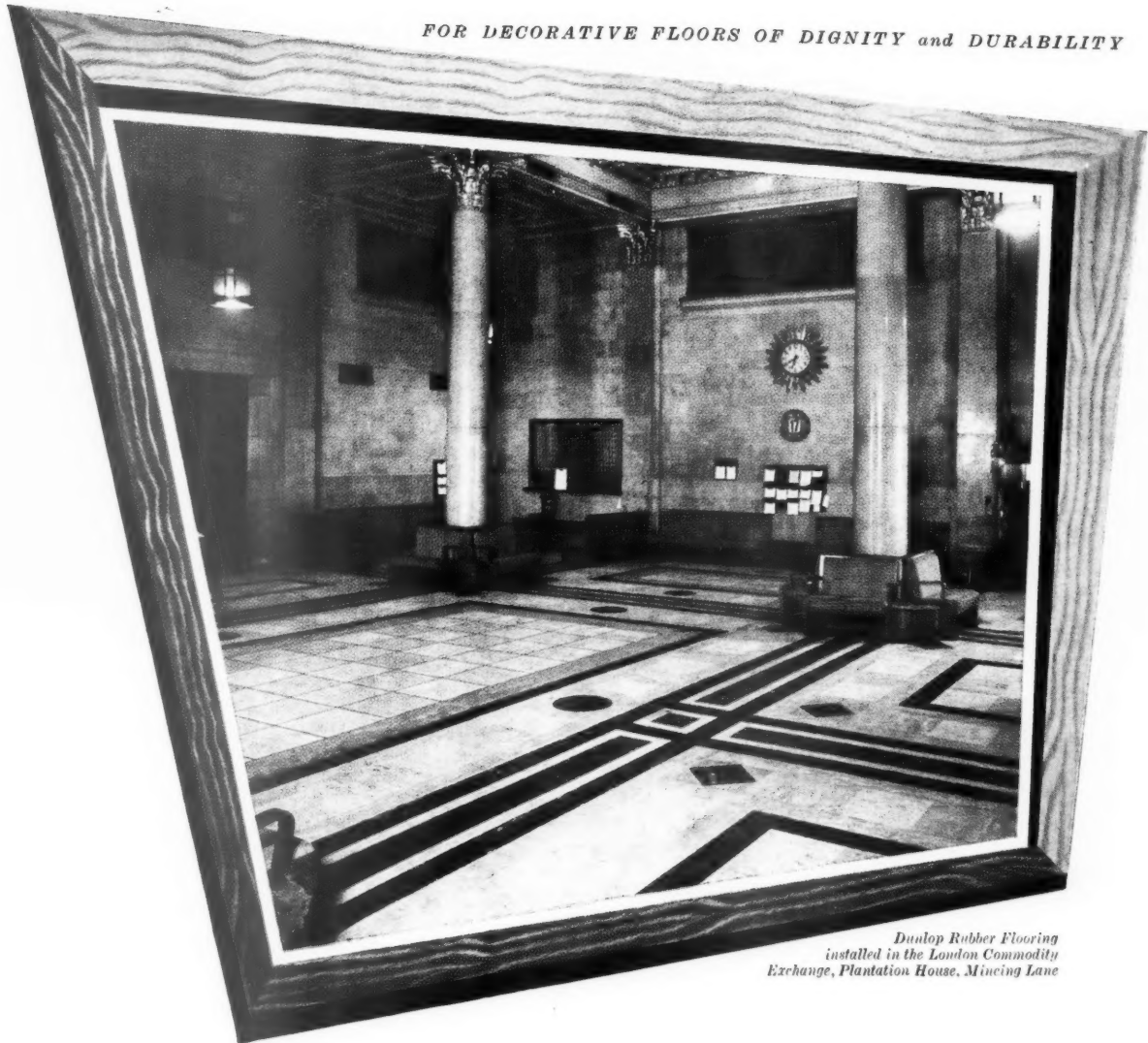
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		per sq.	per sq. yard	per sq.	per sq. yard	per sq.	per sq. yard
13 $\frac{1}{4}$ "	3"	92.5	8.3	90	8.1	1,000	90
12 $\frac{1}{4}$ "	4"	100	9.0	98	8.8	1,100	99
11 $\frac{1}{4}$ "	5"	109	9.8	107	9.6	1,200	108

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# MARLEY





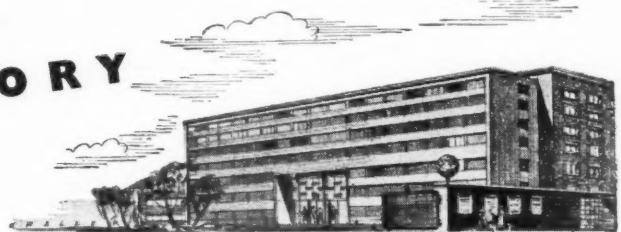




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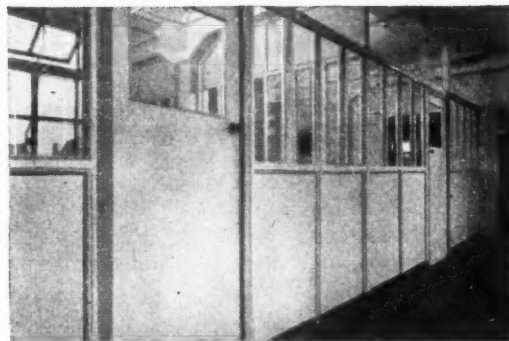
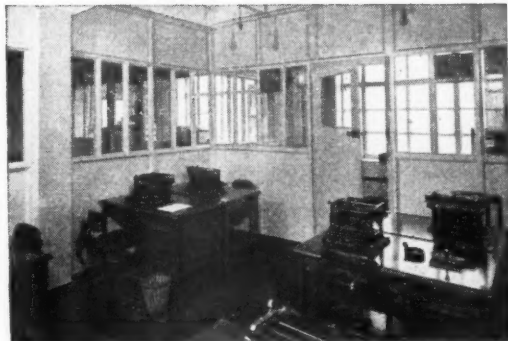
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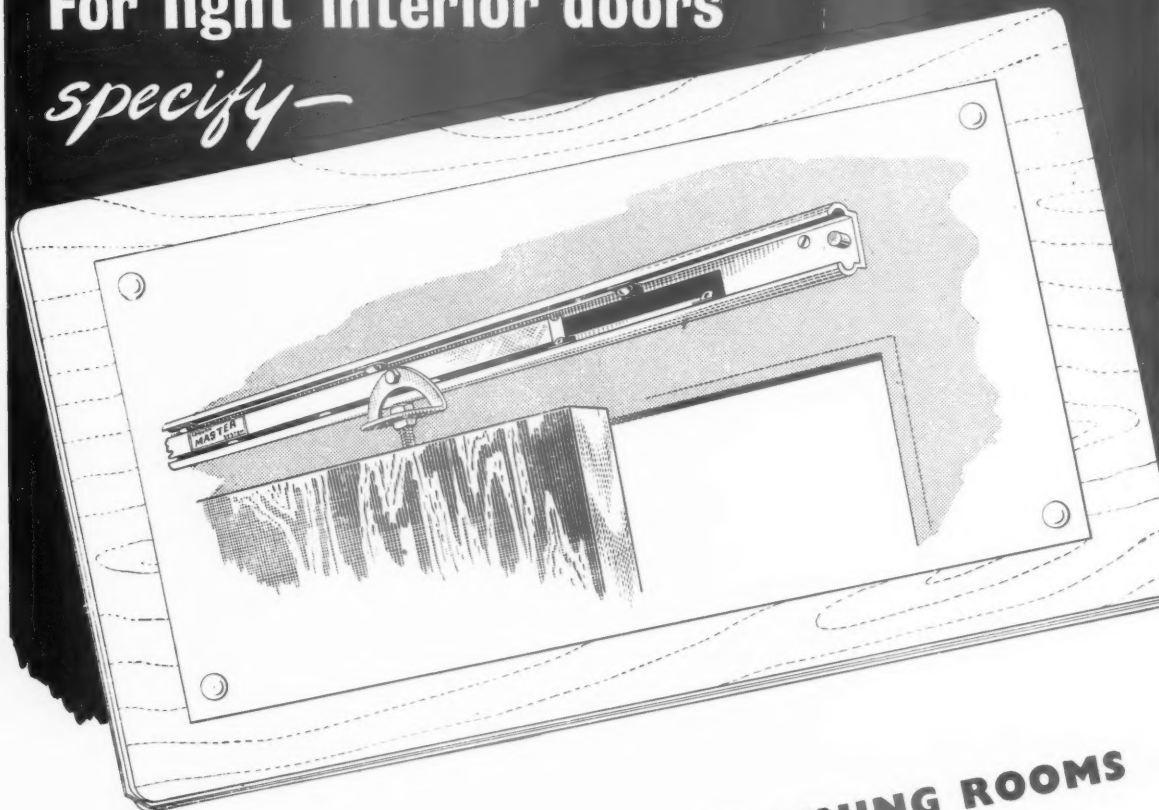
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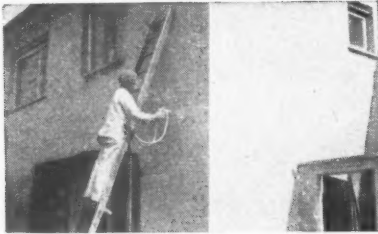
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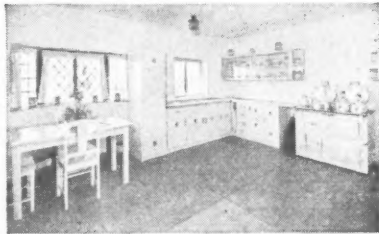
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Architects: Architects Dept., G. A. Goldstraw, B.A., A.R.I.B.A., Chief Architect, Newton Aycliffe Development Corporation.

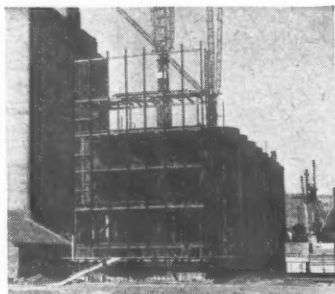
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National Grain Silo, Victoria Quay, Cork.  
Architects: Chillingworth & Levie, South Mall, Cork.

Consultg. Engrs.: O'Connell & Harley, 9 South Mall, Cork.

Contrs.: John Sisk Ltd., Cork. Sealocrete Double Strength Premix Solution incorporated in the mass concrete walls and Sealocrete Corrugated Bitumised Waterbar (Prov. Patent) at each lift of concrete.



Sealocrete Double Strength Premix Solution and Sealocrete Corrugated Bitumised Waterbar (Prov. Patent) used in the construction of the basement for a block of offices for Messrs. Thomas Hedley & Co. Ltd., Newcastle-on-Tyne.

Architect: S. Burn, Esq.

Contrs.: Stephen Easten, Ltd., Newcastle-on-Tyne.



New Bus Garage for City of Birmingham Transport Department at Quinton, Birmingham.

Architects: Messrs. Gately & Parsons, F.R.I.B.A.

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General Contractors: Hutchinson & Rostance (Builders) Ltd  
Plastering Contractor: A. E. Lord

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*were extensively used in this Nottingham Hotel*

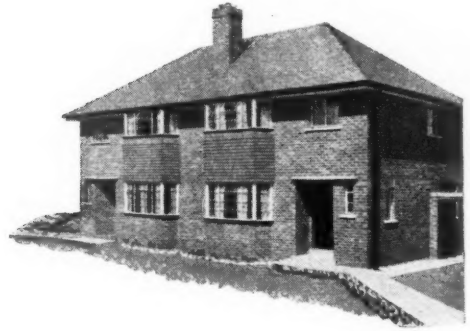
The suspended ceilings are built on the "PLAXSTELE" system, which combines the use of "PLAXSTELE" Lath with patented suspension and jointing members. The Lath, which is  $\frac{3}{8}$ " thick, is plastered with  $\frac{3}{4}$ " of "PARISTONE" Plaster, thus providing a substantial ceiling with a smooth finish, good thermal insulation value and high fire resistance (B.S. 476, Grade D, one hour). All "PARISTONE" Plasters are retarded hemi-hydrate gypsum plasters conforming to the requirements of B.S. 1191.



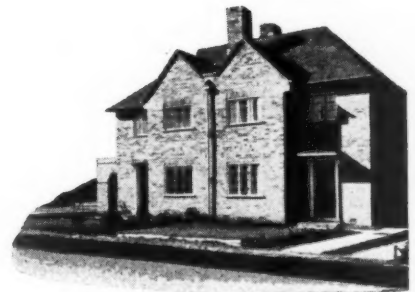
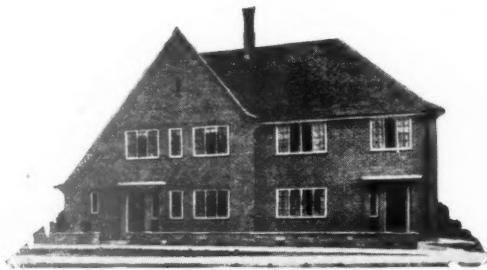
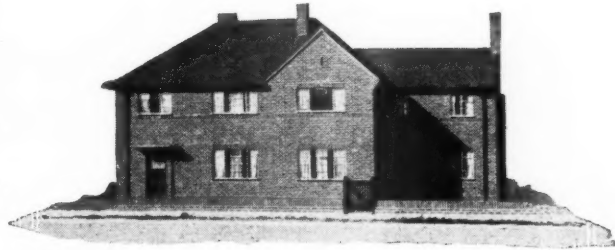
Makers of PARISTONE Browning Plaster (Haired, Unhaired and Metal Lathing Grades), PARISTONE Wall Finishing Plaster, CRISTONE Concrete Bonding Plaster, GYPSTONE Board Finishing Plaster, ZONAPLAX Vermiculite Insulating Plaster (Undercoat and Finishing Grades).

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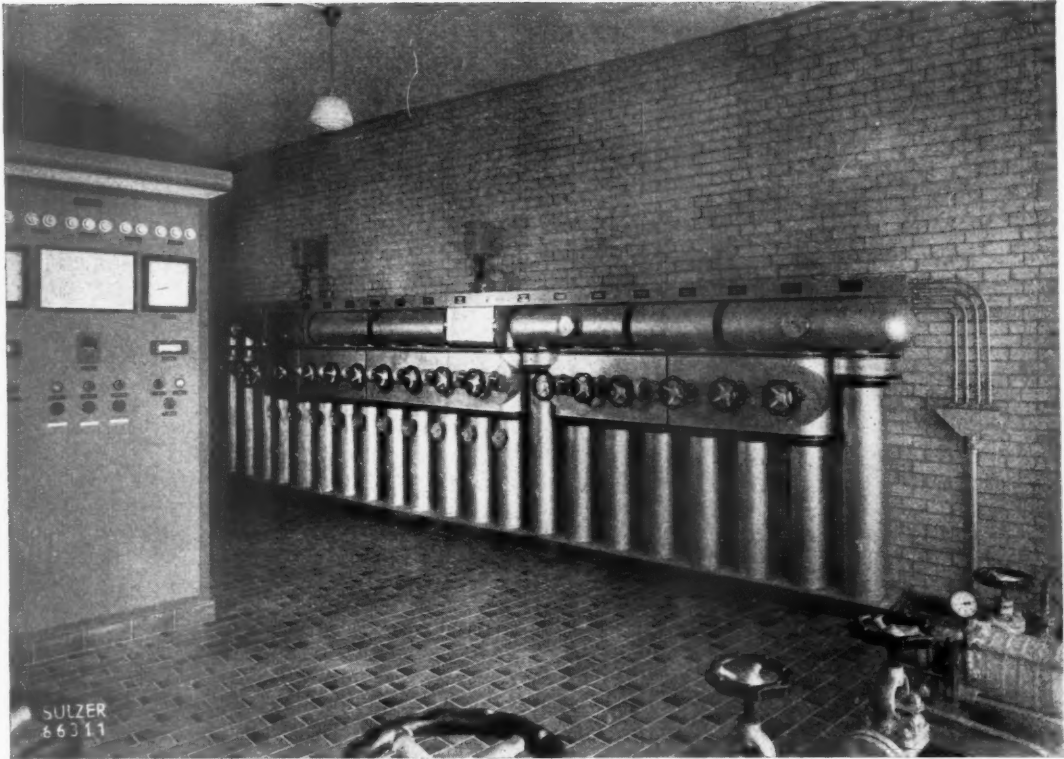
*The cost of roofing is low in relation to the value of goods and materials that it protects from the elements ; but the expense of replacing roof sheets in terms of production loss and damaged merchandise is high. Obviously then it pays to install the best there is—a sheet that lasts.*

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The Builders: Messrs. Leslie & Co., Ltd.

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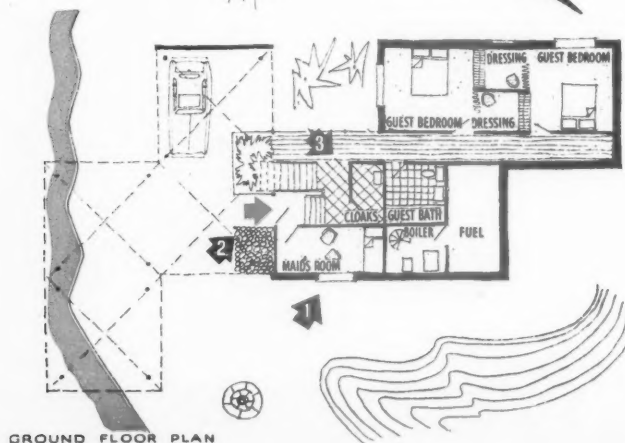
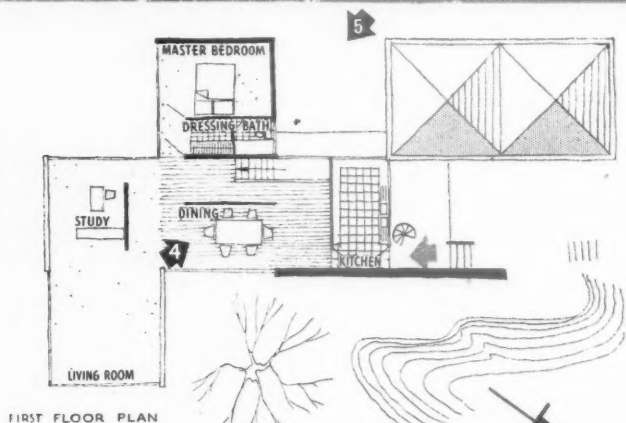
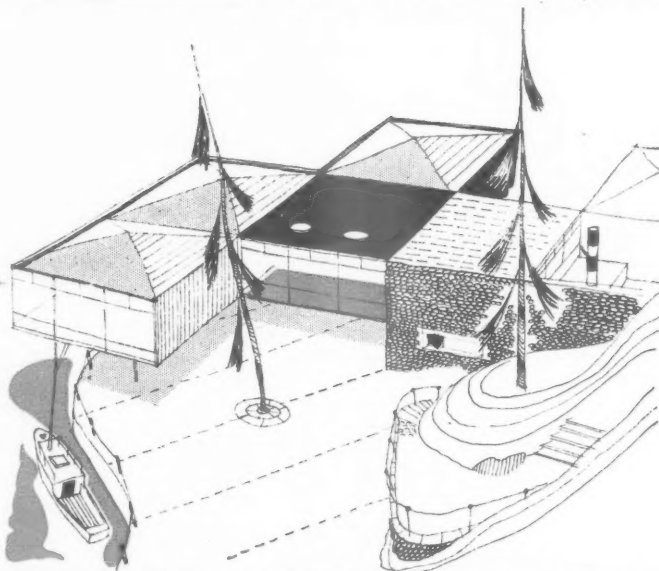
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## NEW DESIGNS FOR LIVING, No. 2 . . . .

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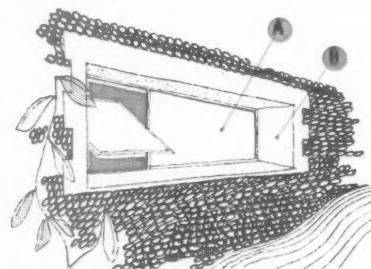
Walls are of tarred stone, with white reveals to windows, or of timber frame insulated with fibreglass and faced with white boarding. The roof panels are covered with lead sheeting.

The combination of traditional materials and practice with modern glass and steel constructions has created a house, modern in conception, which blends pleasantly with its setting.



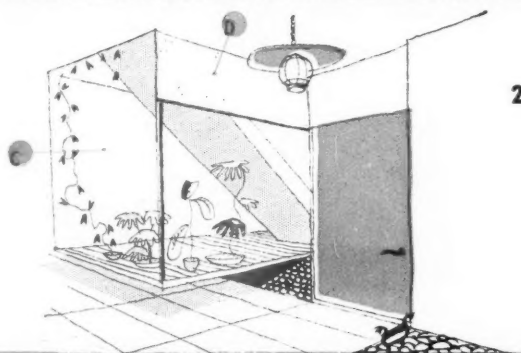
The plan form is based on a 15 ft. square grid to allow structural members, roof panels, and so on, to be standardised.

Designed by: Leslie H. Gooday, A.R.I.B.A., M.S.I.A.  
and C. Wycliffe Noble, A.R.I.B.A., DIP. ARCH.



- 1
- A 1/2" Polished Plate glass to hardwood framed window.
  - B Reveals painted white.

## GLASS IN THE LARGE HOUSE



2

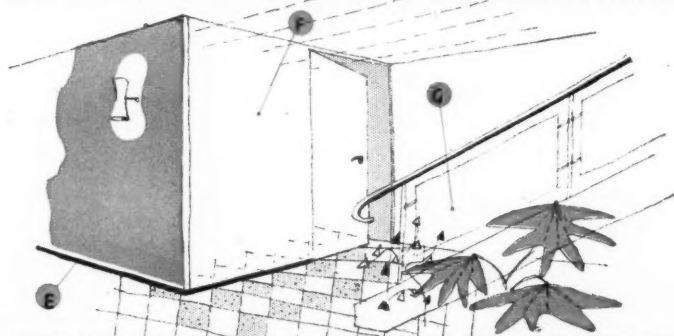
C  $\frac{1}{4}$ " Polished Plate glazing to cantilevered conservatory.

D White "VITROLITE" fanlight panel.

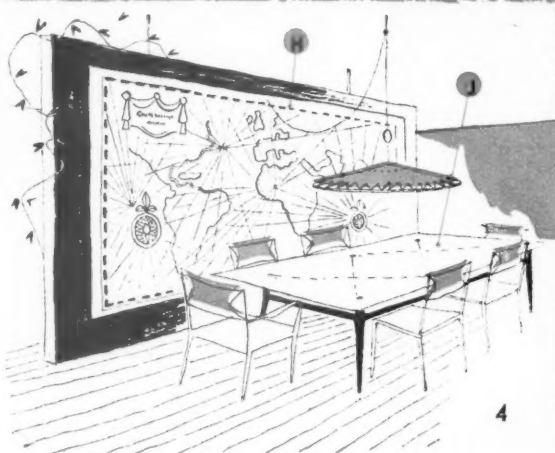
E Black "VITROLITE" skirting.

F Silvered  $\frac{1}{4}$ " Polished Plate glass door and wall facing.

G "ARMOURPLATE" Glass panels to staircase balustrade.



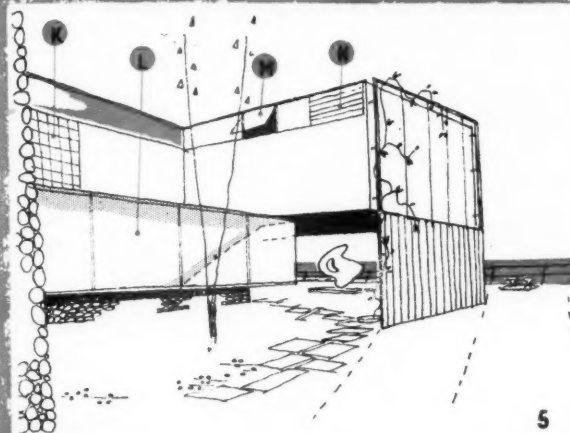
3



4

H Photostat enlargement of ancient mariner's map behind  $\frac{1}{4}$ " Polished Plate glass.

J Toughened Rough Cast glass table top on ebony framed table.



5

K "INSULIGHT" Hollow Glass Blocks to kitchen.

L  $\frac{1}{4}$ " Georgian Polished Wired glazing to gallery.

M S.Q. 32 oz. Sheet glass to top hung metal window.

N White acid obscured  $\frac{1}{4}$ " Polished Plate glass louver panel.

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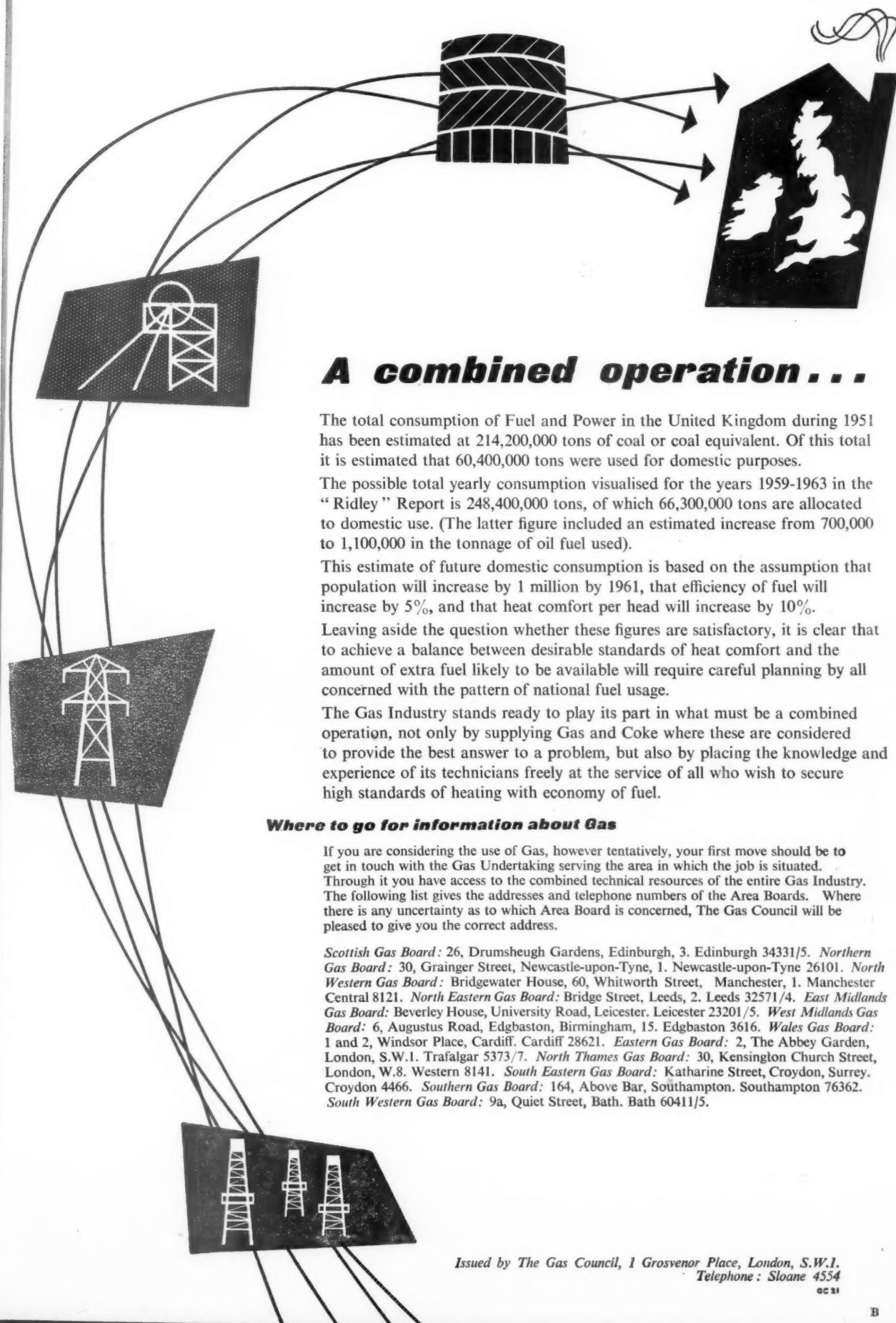
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The possible total yearly consumption visualised for the years 1959-1963 in the "Ridley" Report is 248,400,000 tons, of which 66,300,000 tons are allocated to domestic use. (The latter figure included an estimated increase from 700,000 to 1,100,000 in the tonnage of oil fuel used).

This estimate of future domestic consumption is based on the assumption that population will increase by 1 million by 1961, that efficiency of fuel will increase by 5%, and that heat comfort per head will increase by 10%.

Leaving aside the question whether these figures are satisfactory, it is clear that to achieve a balance between desirable standards of heat comfort and the amount of extra fuel likely to be available will require careful planning by all concerned with the pattern of national fuel usage.

The Gas Industry stands ready to play its part in what must be a combined operation, not only by supplying Gas and Coke where these are considered to provide the best answer to a problem, but also by placing the knowledge and experience of its technicians freely at the service of all who wish to secure high standards of heating with economy of fuel.

### **Where to go for information about Gas**

If you are considering the use of Gas, however tentatively, your first move should be to get in touch with the Gas Undertaking serving the area in which the job is situated. Through it you have access to the combined technical resources of the entire Gas Industry. The following list gives the addresses and telephone numbers of the Area Boards. Where there is any uncertainty as to which Area Board is concerned, The Gas Council will be pleased to give you the correct address.

*Scottish Gas Board: 26, Drumsheugh Gardens, Edinburgh, 3. Edinburgh 34331/5. Northern Gas Board: 30, Grainger Street, Newcastle-upon-Tyne, 1. Newcastle-upon-Tyne 26101. North Western Gas Board: Bridgewater House, 60, Whitworth Street, Manchester, 1. Manchester Central 8121. North Eastern Gas Board: Bridge Street, Leeds, 2. Leeds 32571/4. East Midlands Gas Board: Beverley House, University Road, Leicester. Leicester 23201/5. West Midlands Gas Board: 6, Augustus Road, Edgbaston, Birmingham, 15. Edgbaston 3616. Wales Gas Board: 1 and 2, Windsor Place, Cardiff. Cardiff 28621. Eastern Gas Board: 2, The Abbey Garden, London, S.W.1. Trafalgar 5373/7. North Thames Gas Board: 30, Kensington Church Street, London, W.8. Western 8141. South Eastern Gas Board: Katharine Street, Croydon, Surrey. Croydon 4466. Southern Gas Board: 164, Above Bar, Southampton. Southampton 76362. South Western Gas Board: 9a, Quiet Street, Bath. Bath 60411/5.*





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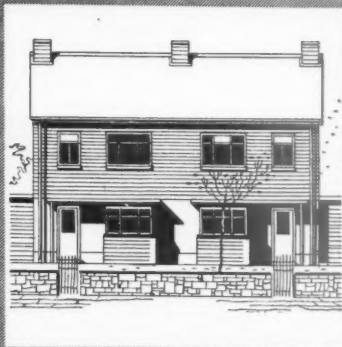


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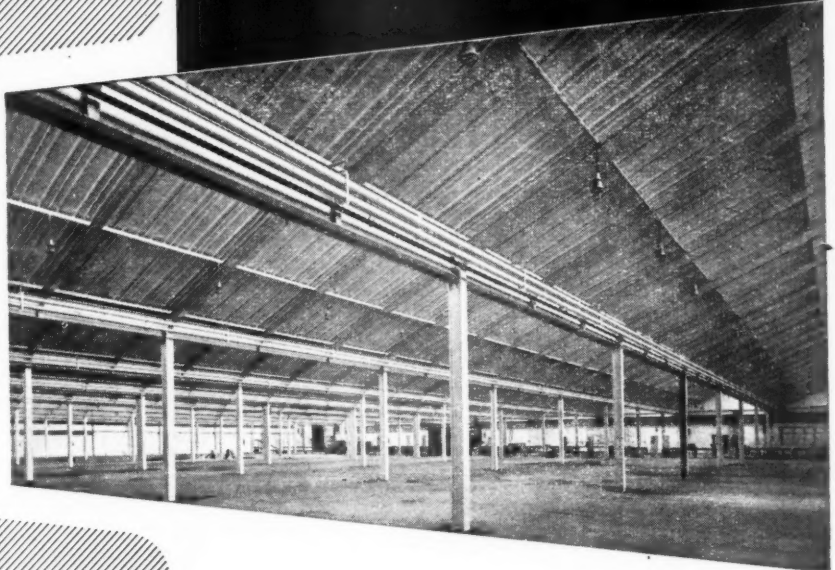


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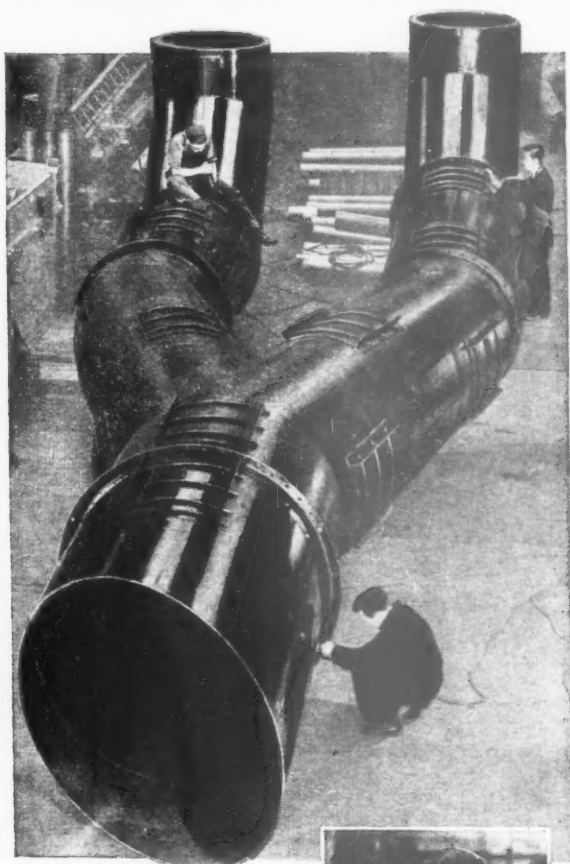


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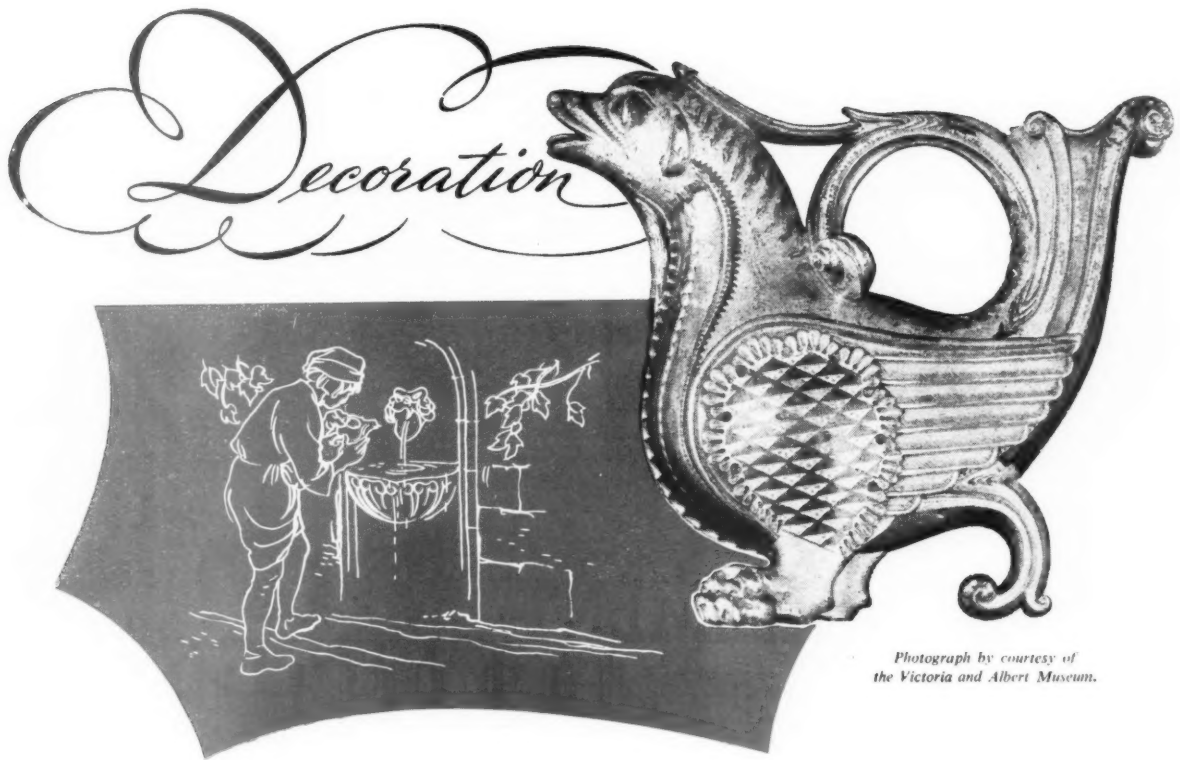
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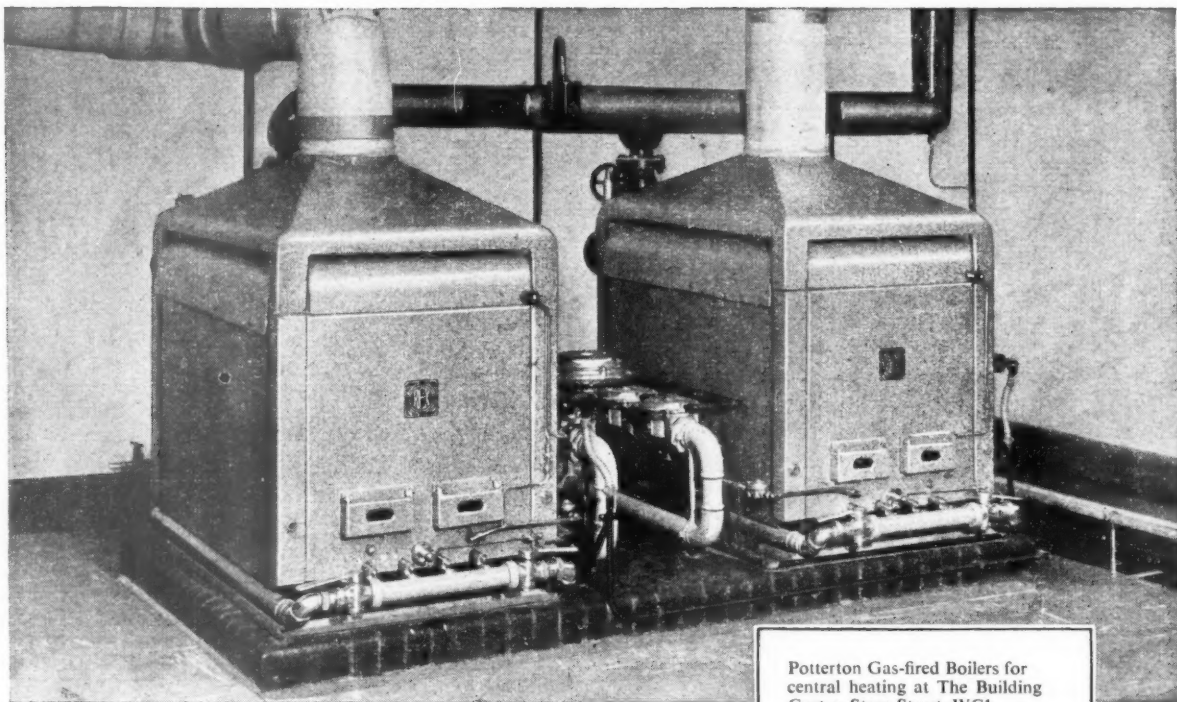
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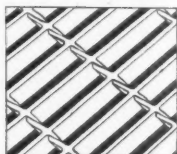
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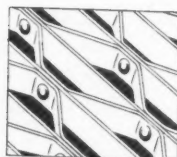


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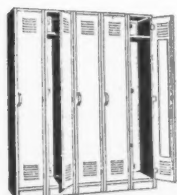
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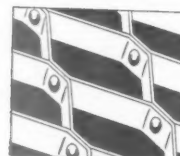
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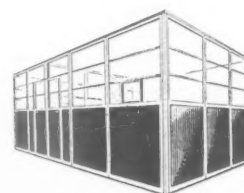


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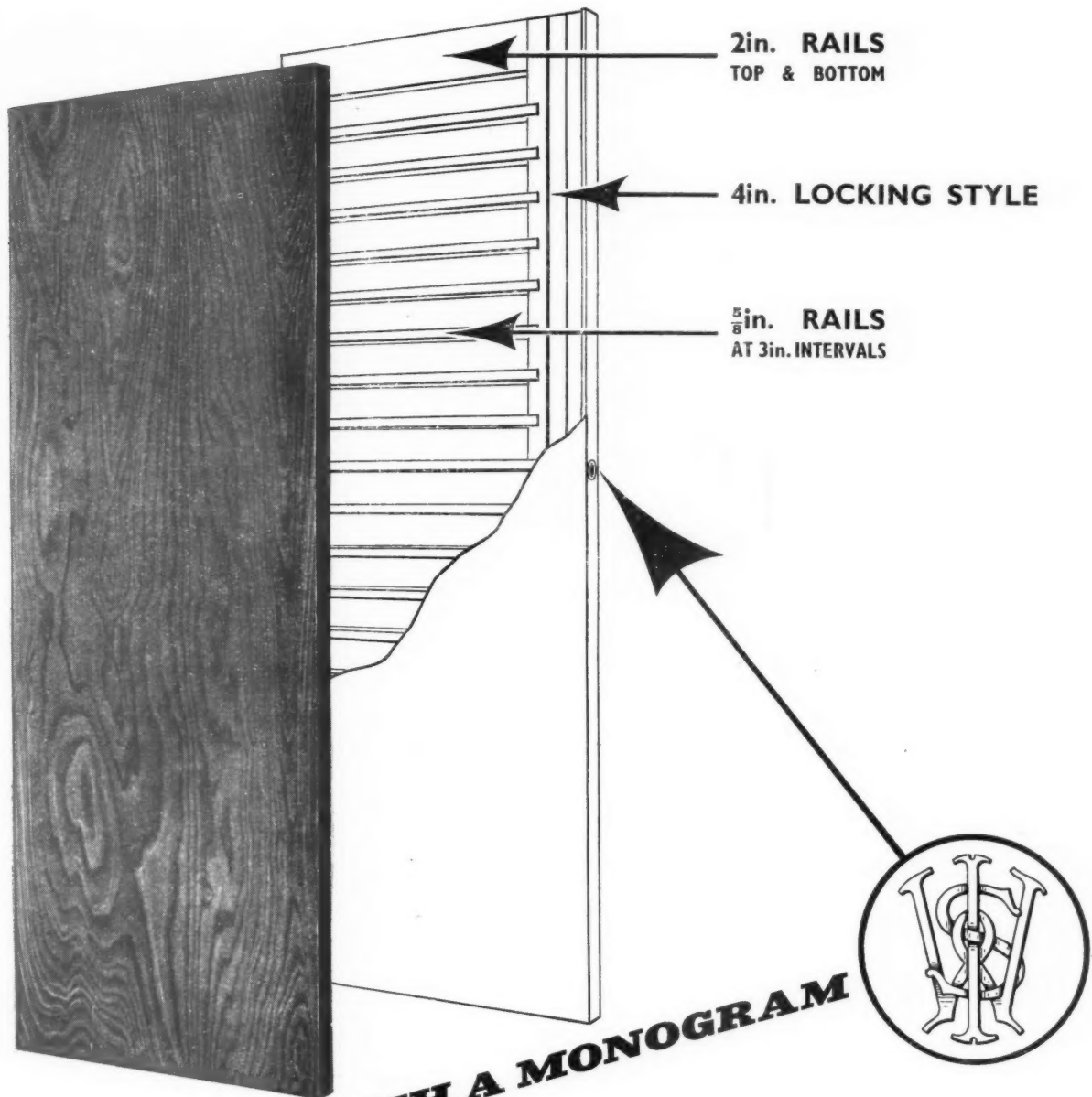
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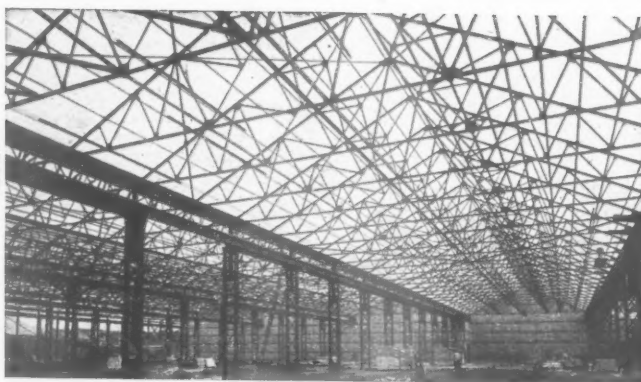
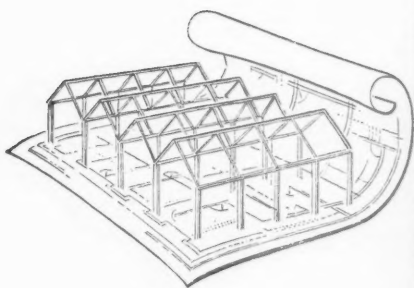
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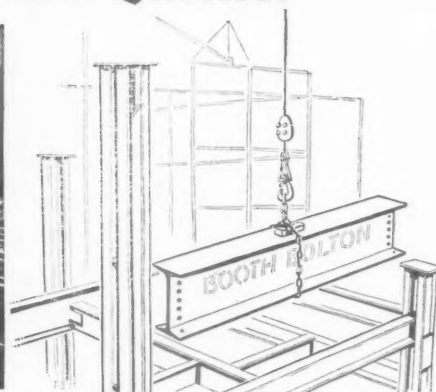
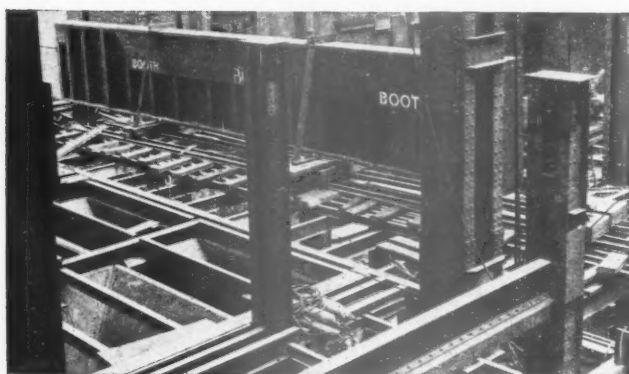
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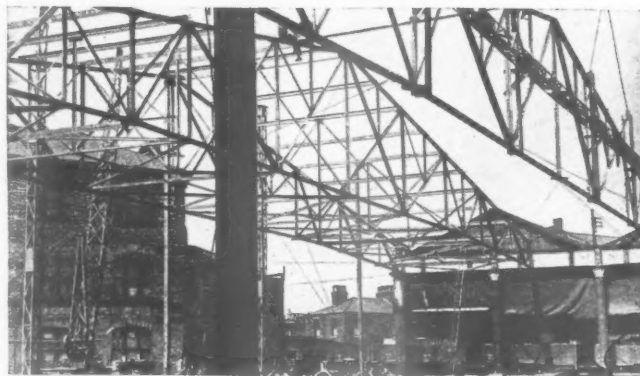
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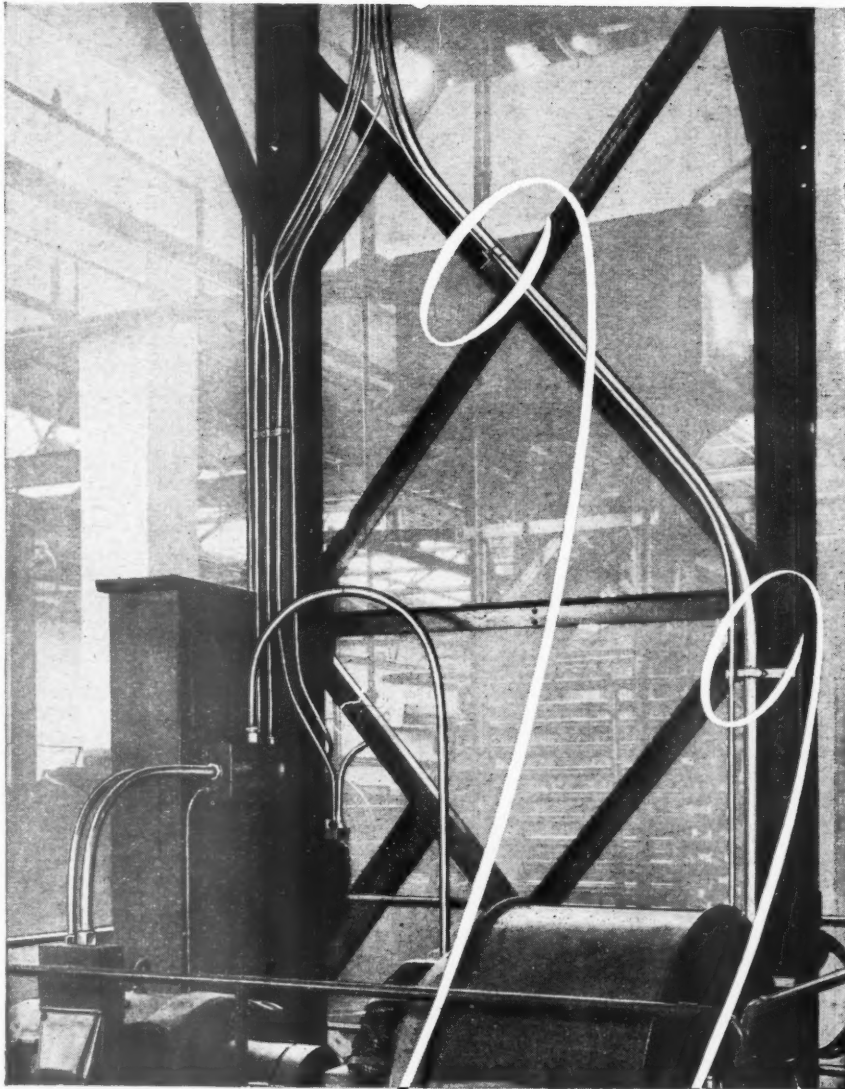
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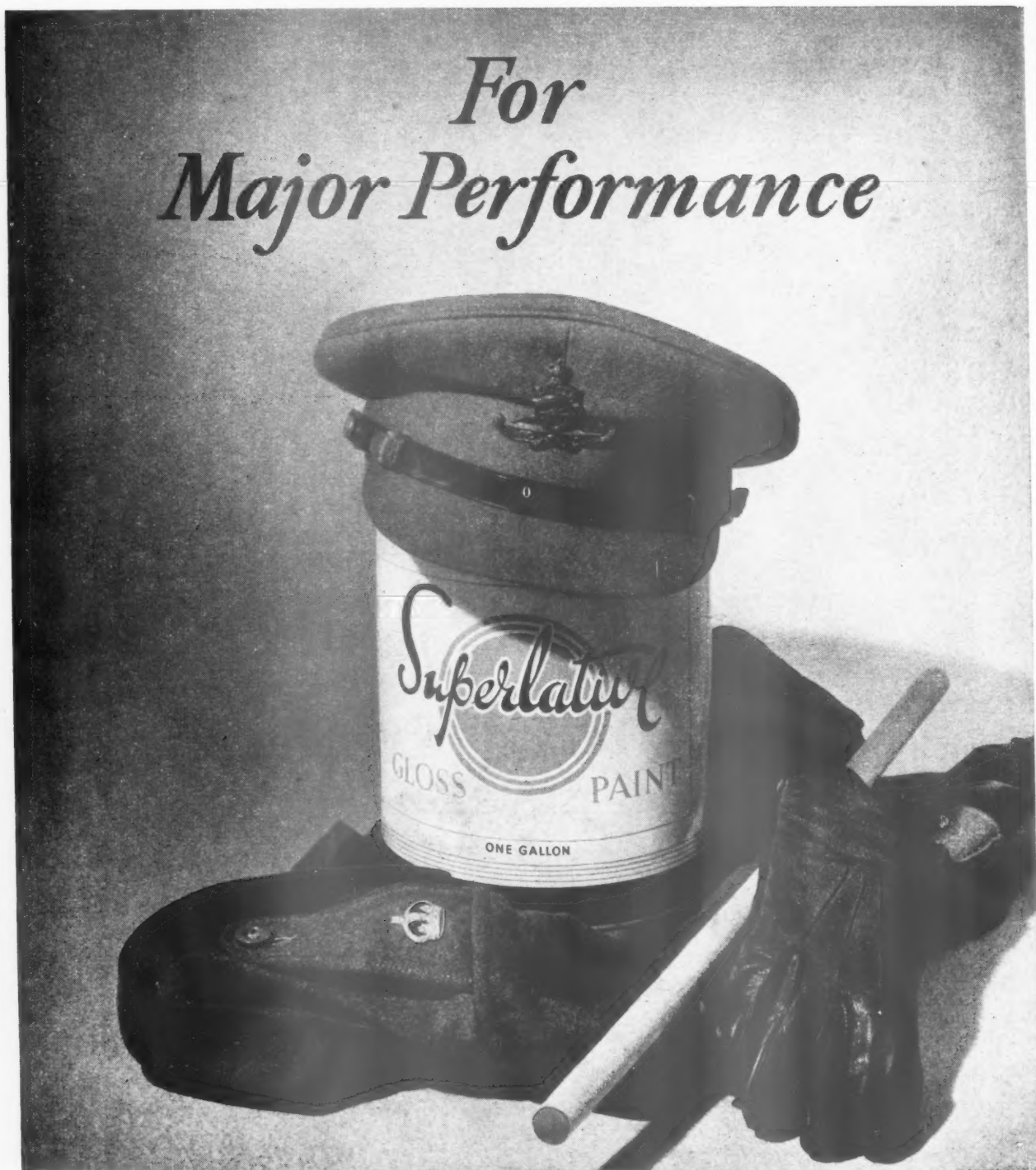
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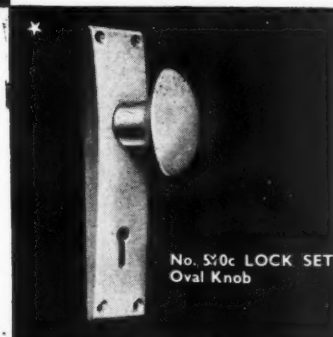
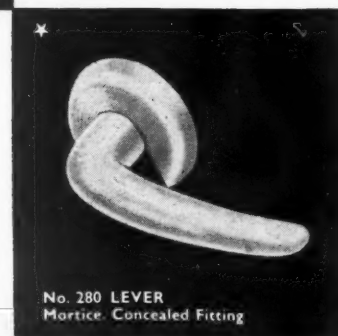
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*Typist desk*

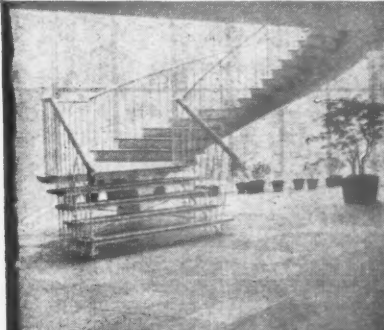
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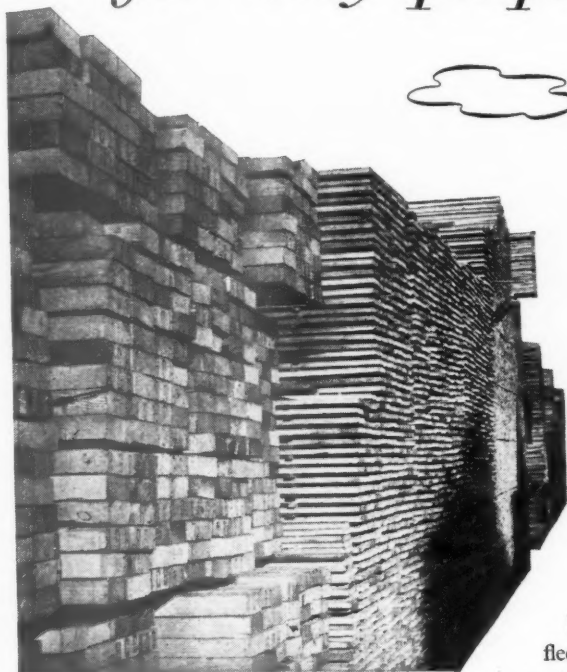
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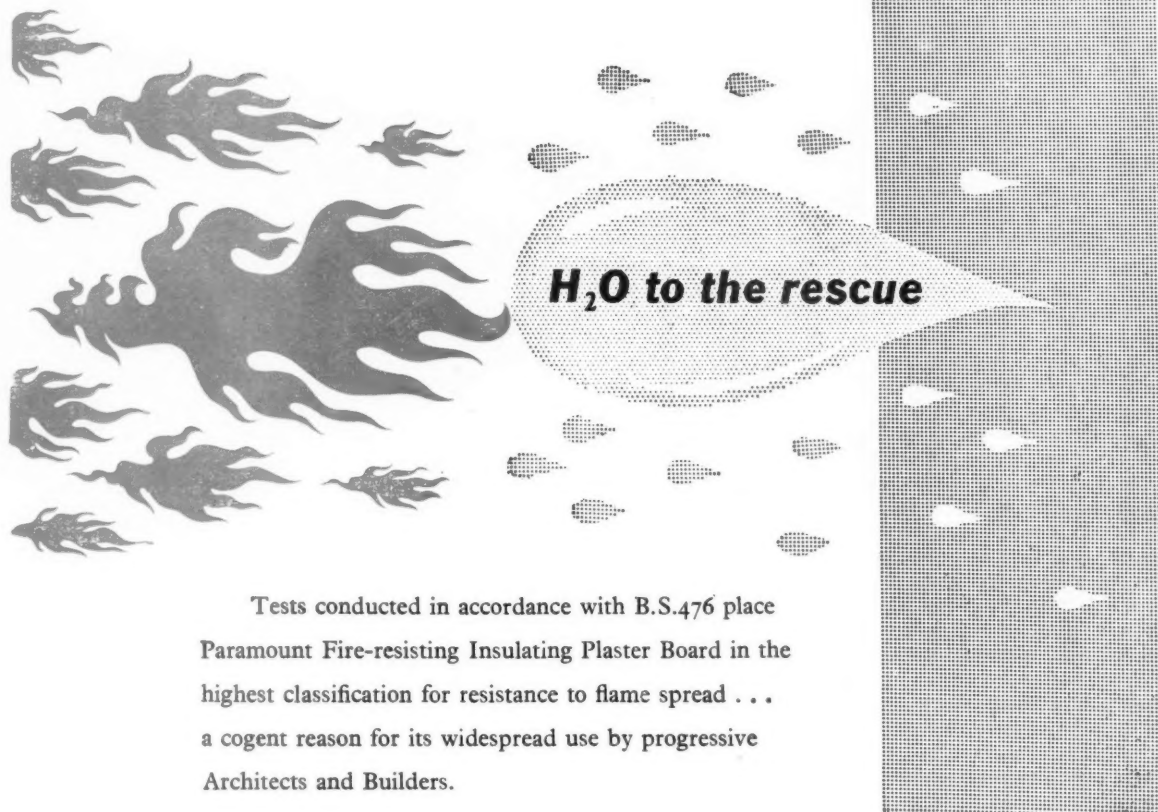
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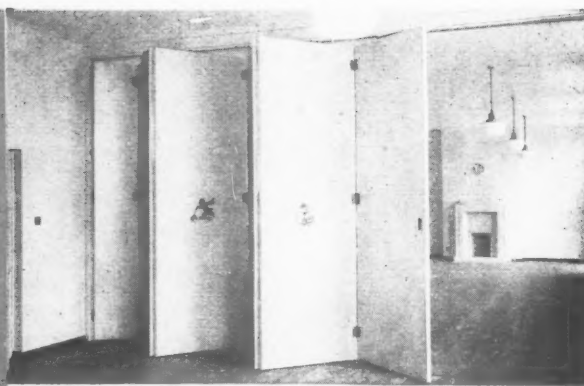
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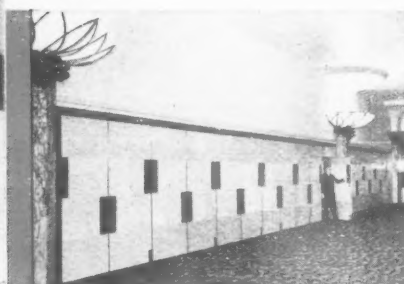
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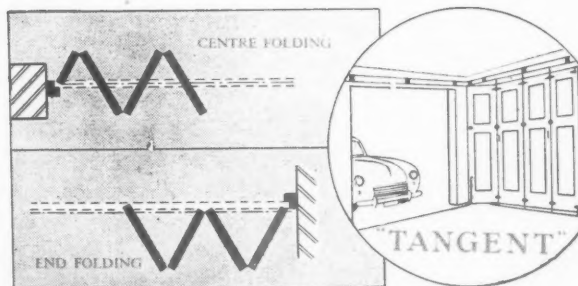
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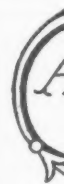
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\* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous.

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No. 3049 August 6, 1953 VOL. 118

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## NOT TO MENTION CROWNS

One day last week Astragal could have been seen prowling down a side street in Pimlico, hot on the trail of a nostalgic half-hour. "I'm glad you could come," whispered the man at the hole in the shuttered door, and ASTRAGAL—batting an eyelid charged with emotion—slipped reverently past him into the dimly-lit room where cornucopias jostled each other in corners, palm-leaves shivered in the summer air and floral garlands hung in crowded rows from the ceiling.

\*

What strange party was to be held in the macabre setting of this over-decorated, underlit building? That was a question ASTRAGAL might have asked

had he not been clutching a sheaf of papers roneoed in sad purple. "13 sets of balls and necklets," he read, "8 sets of wicker cornucopias... 24 sets of suspended kites... armature complete with 21 date palm leaves..." Yes, you have guessed right: Westminster's coronation decorations may now be viewed by prospective buyers. The snag is that you have to make offers by post, so you have no idea if you are going to lose one of those Norwegian fir masts or that mischievous gilt lion (it was never used, incidentally) just because the next man throws in an odd sixpence-halfpenny. Still, if you are willing to gamble, get in touch with the city engineer's office, Alhambra House, Charing Cross Road, W.C.2, and make an appointment to wallow in memories of a brighter London.

## DERBY DONE

Congratulations to Nikolaus Pevsner on his *Penguin* Derbyshire guide\* in the "Buildings of England" series. Being a stranger to the county, ASTRAGAL used this guide exclusively in a lightning rush around and found it informative, very nearly exhaustive and, in so far as he can humbly judge (and as one would expect), entirely accurate. Derbyshire is a county of great houses, many in ruins, and ASTRAGAL recommends those with a taste for such things to visit Pugin's Burton Cloves, near Bakewell, before it disappears.

\*

The work of destruction appears to be suspended for the moment half completed. In its present state (it is

\* *The Buildings of England: Derbyshire*. Nikolaus Pevsner. Penguin. 4s. 6d.

beautifully sited) the building is very charming, and its crisply cut and detailed stonework, is a lesson in just how good early Victorian craftsmanship could be. Even more impressive is the Georgian ruin of Sutton Scarsdale. Designed by Smith, of Warwick, it once possessed—according to Sacheverell Sitwell—the finest Venetian rococo interior in England. Sold up in the early nineteen-twenties, this great stone shell stands today overgrown with thickets and weed, facing across a valley of mines and spoil tips to the wild mannerist fancies of Bolsover Castle. One wonders who owns it and how it can be preserved from further decay.

## NEWS FROM CIAM

"I wish the New Town architects were here." That is the first sentence of a letter from a colleague writing from the CIAM congress at Aix-en-Provence, but he writes thus, one fears, not so much because he would have enjoyed their company as because he thinks Aix itself would have taught them a lot. It has, he explains, all the desirable urban attributes which our New Towns so sadly lack, in exceptionally good measure: built-up streets, enclosed squares, a sense of intimacy and sociability. And consequently, although it has only half the population of Stevenage or Hemel Hempstead, it has a real metropolitan air.

\*

Yet among the pleasures of being in the town are the greenery and sense of space and light that English planners are always striving after and



## LANGWORTHY FLATS *for the City of* SALFORD

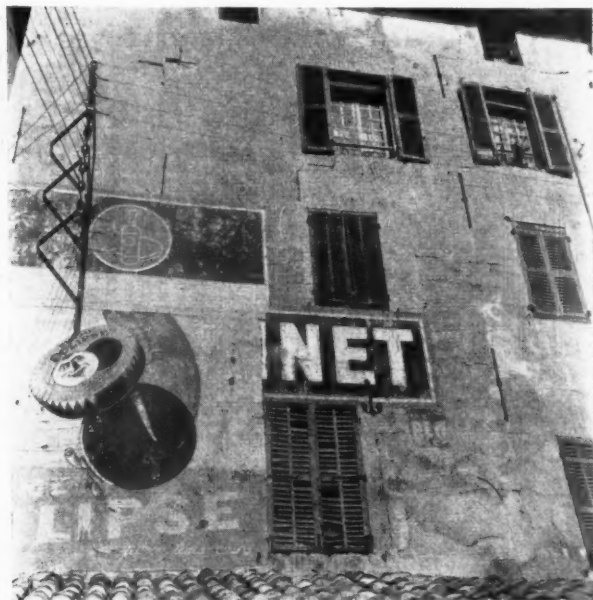
*G. Alexander McWilliam, B.Sc., A.M.I.C.E., A.R.I.C.S., M.I.Mun.E., City Engineer*

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A fountain and an example of wallscape in Aix-en-Provence, where this year's CIAM Congress was held. ASTRAGAL writes about the Congress on page 155.

seem to imagine can only be obtained by low-density building. My colleague's letter is full of the delights of the *Cour Mirabeau*, in particular that central street of Aix over the top of which the plane-trees meet in a great green arch. The cafés that line its spacious pavements quickly became the accepted meeting place of the architects of a score of nationalities who attended CIAM this year—architects who go, ASTRAGAL suspects, quite as much for the stimulating contacts such a gathering provides as for the official meetings and discussions.

\*

Among the high-lights of the congress that my colleague mentions are the skilful presidency of Sert (newly appointed successor to Gropius at Harvard) which prevented any possibility of the frictions and misunderstandings which often mar gatherings like this; the large number of young architects and students present, which offers hope that CIAM may avoid the danger of trying to live too long on its pre-war laurels; the efficiency of the organization, led by Wogensby (Le Corbusier's office manager), assisted by Jacqueline Tyrwhitt, who arrived from Palestine on her way from Delhi, where she is working on low-cost housing during a leave of absence from Toronto University—she flits from

continent to continent as easily as we stay-at-homes do from NW1 to SW3. The only disappointments at the congress, my colleague adds, were that cer-



Coronation decorations waiting to be sold. See page 155.





## Living Outside-In

This "atom-bomb-proof mansion" near Hollywood has trees growing inside it "so that people do not feel closed in when they have to stay indoors for a long time." August Bank Holiday week is no time to bother readers with sociological theories. But we must throw out one or two Significant Thoughts. Were the aspidistra and its less notorious predecessors examples of effect preceding cause? And have their successors, which now creep about our living rooms under the sponsorship of the *Architectural Review*, given us a quiet introduction to the world of the Atom Age—a world turned outside-in? Ah well, back to the drawing-board, with muttered oaths about the Life Force. Did Mrs. Skeffington-Smythe want a cedar or a sycamore in the bathroom? . . .

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## POINTS FROM THIS ISSUE

tain familiar faces were absent—Aalto's, for instance, and those from the eastern European countries, especially the Syrkuss' from Poland—and that CIAM seems to attract so few native north Americans; the American contingent—except for a few very welcome students—being made up of Gropius, Sert, Lundberg-Holm, and the other ex-Europeans.

## A CORB BOOK IN ENGLISH

All English and American disciples of Le Corbusier, as well as thousands of the merely curious, will welcome an English translation of the famous little red book published in 1950: *L'Unité d'Habitation*.\* Nevertheless, it is in some ways an unfortunate book. It is at least three years since the book was written; it was a description of what was proposed for a building in a not very advanced stage of construction.

Most of the pictures were either diagrams or progress photographs. Things had to be explained in words that could now be more easily shown by a good photographer. It would be asking too much perhaps to expect Corb to revise his text—though it would be a courtesy to his English admirers. It would not have been too much to ask for a good series of up-to-date photographs for one's guinea. In fact only one or two general views have been added to the original illustrations.

But then the whole book is rather like that. It is, for instance, both under-translated and over-translated. No one on earth ever talks about "the Marseilles Block," but that is the title of the book; it is reminiscent of those cheap guide books that talk about the Castle of Chenonceaux or St. Mark's Square and thus leave the average Englishman gapping. On the other hand, since this book was not for readers of the "Woman's Page," there was no need to translate "*des hommes dans leurs maisons*" by "the family gathered round the fireside." Marseilles is, after all, a Mediterranean city, and *L'Unité* is, one gathers, equipped with central heating.

ASTRAGAL

\* *The Marseilles Block* by Le Corbusier. Translated by Geoffrey Sainsbury. (The Harvill Press. 41 ls.)

**Robert Matthew's design** for a passenger terminal building

at Turnhouse Airport .. .. . page 160

**LCC scheme for "Linear houses and maisonnettes"** .. page 161

**Two health centres:** Woodberry Down and

Sighthill .. .. . pages 166 and 169

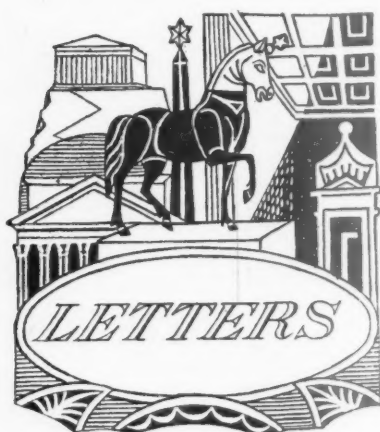
## The Editors

## LCC AGAIN GIVES A LEAD

ONCE again the LCC has proved itself to be one of the country's most enlightened local authorities. At its last meeting it approved, in principle, the appointment of a nominated contractor for one of its housing development schemes, having been advised by its architect's department that further economies in its housing work could not be made within the framework of the competitive tendering system. The intention is that the housing division of the architect's department will work, right from the commencement of the project, in collaboration with a consulting engineer and a nominated contractor, in order to examine the possibilities of new techniques of building and to decide how the project under consideration can be most economically dealt with. Thus has the UK's largest local authority confirmed the view expressed frequently in the JOURNAL (and re-stated recently in the UNO report on the cost of house construction, see Technical Section for July 16) that a change in contractual procedure is one way whereby the cost of building may be reduced, and that, to quote the UNO report, "the tendering system . . . does not appear to have contributed significantly to the reduction of costs."

Another piece of good news comes from the last LCC meeting. The Council propose to act on the recommendations of the Bailey Committee by using prefabricated interiors for about 300 houses and flats on its Brooklands Parkside Site, Greenwich. Construction will be on the "Schindler" system, which has been mentioned and praised several times in the JOURNAL.

It is to be hoped that the example of the LCC's progressive attitude to building will be followed by other local authorities. There is any number of new ideas and systems of construction that might reduce the cost of buildings, which architects are unable to use because the local authorities they work for will not abandon competition by tender—a method which they still imagine saves the ratepayer's money.



*M. Hartland Thomas, F.R.I.B.A.*

*David Carter*

*"Salaried Architects"*

*Peter J. Lee, F.R.I.B.A.*

## Modular Planning

SIR,—In their final article on MOE Development Work (July 23), John Stillman and John Eastwick-Field make two generalisations that require some qualification. I would not agree with them in deploring the fact that MOE are encouraging systems on 4 ft. and 6 ft. 4 in. grids besides the 3 ft. 4 in., nor that MOHLG favours 3 ft. It should not require universal adoption of a single planning grid to permit "components of modular size to be available for use in conjunction with one another." All these grids are of ample size and are referenced to a common module of 4 inches. The solution of problems of detailing, such as

wall and column widths, requires a variety of sizes. The achievement of interchangeability seems to lie in the meticulous study and classification of jointing methods in components of various sizes referenced to a modular grid.

The other point where I would join issue with them is in their statement that "it is unlikely that manufacturers [of proprietary systems] would sell components separately." This is a reasonable enough assumption, but on inquiry it is found to be a wrong one. Manufacturers are not so short-sighted. A number have told me that they are very willing to sell components separately at the present time and many more are supporting the Modular Society in its efforts to find a basis upon which this can become general. Modular co-ordination, with all its advantages, can never develop properly if it is limited to watertight proprietary systems. Even from the single manufacturer's point of view, it is better to have a general market for his individual components, than to be forced to sell a whole building every time or nothing.

London.

M. HARTLAND THOMAS.

## Architects and Industry

SIR,—May I point out that recent suggestions for changing the RIBA Code of Professional Conduct so as to allow architects to concern themselves with the design of building components, are unnecessary? The implication that an industrial designer will not be able to work effectively unless he is a director of the company appears to be based on a misunderstanding of the way in which all but the most simple of his work must be approached.

Though directors or partners may consult an architect about any aspect of their policy, the work of designing will normally be done in conjunction with senior executives rather than with the directors as such. Unless the designer is to be limited to styling the trimmings on someone else's work he must, from the stage at which the design problem is first defined, work on an equal footing with those who are directly concerned with production and marketing. Successful design will result from a proper understanding of what each of these technicians has to contribute, and the

designer will be accepted as one of them because of his skill rather than because of any "authority" that may have been given to him.

As to architects and directorships generally, it should be understood that the work of those who are responsible for industry is becoming increasingly specialised at all levels. There is not much of the day-to-day work of the board room that is within the knowledge of the man whose training has been devoted to architecture, and there cannot be many businesses in which it is necessary for a designer to attend all board meetings.

DAVID CARTER.

London.

## Salaried Architects

SIR,—We have read with interest the article published in a recent issue of the AJ (July 16) suggesting a new scale of remuneration for Salaried Architects, and the formation of a Salaried Architects' Association.

We, a small section of Salaried Architects, agree that the time is ripe to test whether or not such an Association can become a live and virile body, but in order to ensure its success this will require a combined effort by all concerned.

Whilst further consideration of the scale and proposals may be required, we feel that at this stage they are worth accepting in principle and hope that other Salaried Architects will feel the same as we do and give their support by writing to the Editor as requested.

SALARIED ARCHITECTS.

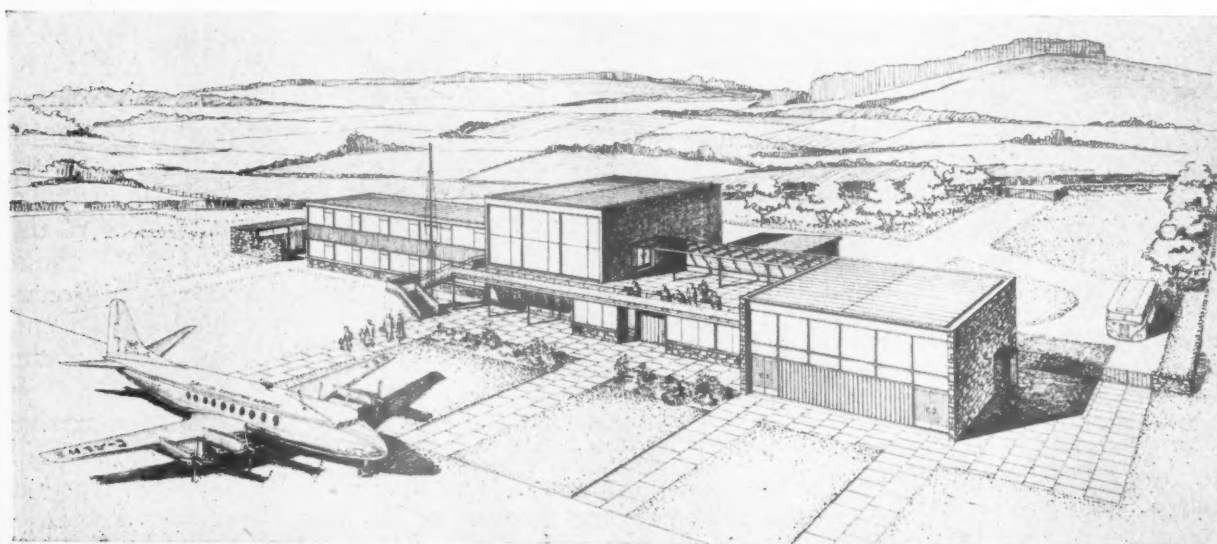
Doncaster.

SIR,—I would like to express my complete agreement with your article on Salaried Architects in the JOURNAL for July 16. I sincerely hope that an Association as suggested will be formed.

PETER J. LEE.

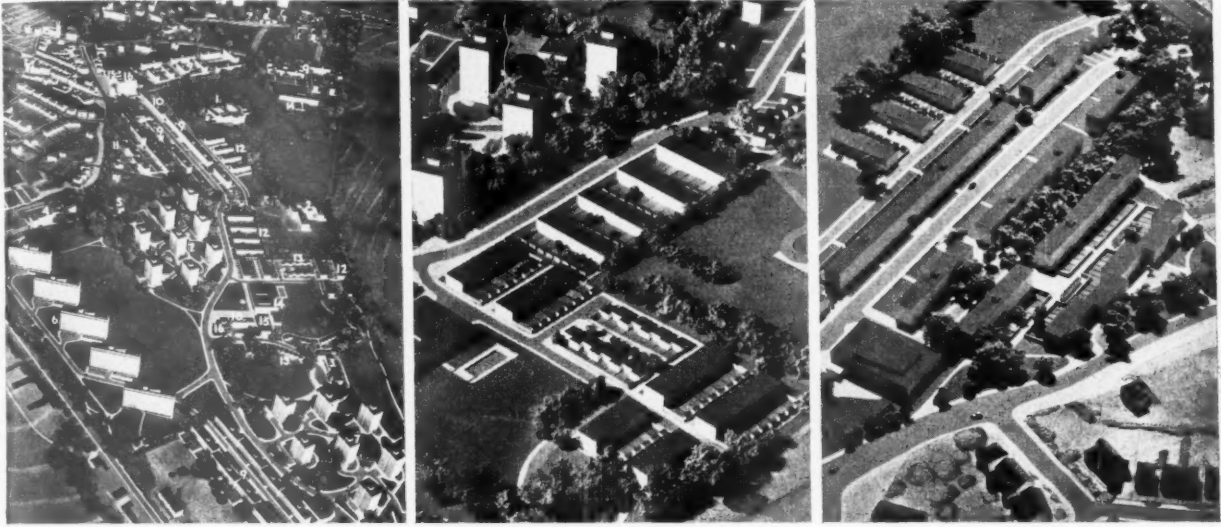
Sheffield.

[More than a hundred architects have written to support the proposals for a new salary scale made in our issue for July 16.—Eds.]



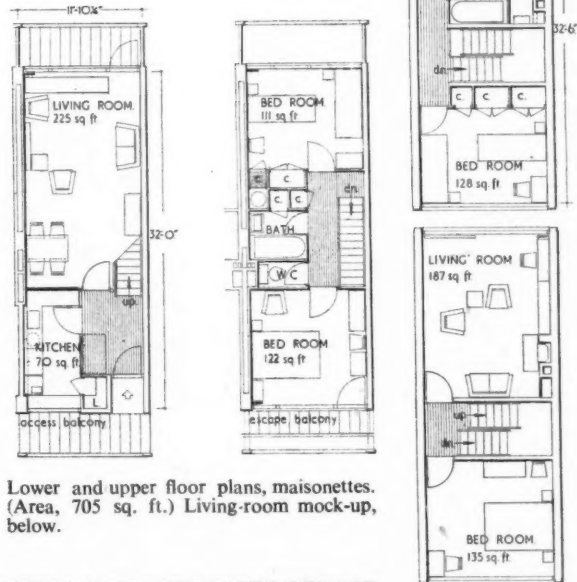
This perspective drawing of the new passenger terminal building at Edinburgh (Turnhouse) Aerodrome, designed by Professor R. H. Matthew, for the Ministry of Civil Aviation, Scottish Division, shows; ground floor (left to right) airport administration offices; concourse entrance and covered way; airline offices; and customs wing; first floor (left to right) airport administration; buffet and concourse; spectators' terrace.

## LCC DEVELOPMENT IN PUTNEY - WIMBLEDON AREA

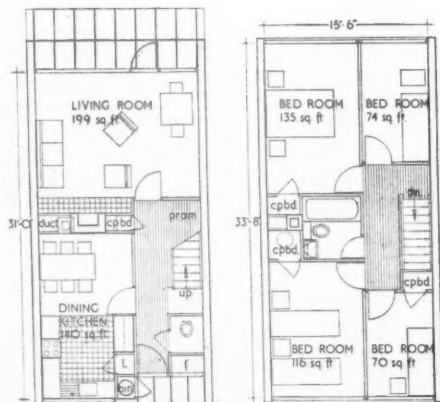


The three types of plan shown here (two of which, incidentally, are excellent examples of the "linear" plan—see JOURNAL for July 24, 1952) were designed by the housing division of the LCC architects' department (architect to the council, Dr. J. L. Martin) for the Putney-Wimbledon scheme described in last week's JOURNAL (pp. 128 and 132). There are to be 375 maisonettes in five 11-storey blocks (No. 6 on key photo, above, left), i.e., 15 maisonettes on each pair of floors. Access will be via one staircase and 2 lifts. Above, centre, the site from the west, showing 2-storey terrace houses (foreground and centre), old people's houses (between the terrace housing) and the 11-storey point blocks. Above, right, the site from the north-east, showing the twenty-nine 3-storey terrace houses (on the right), the 4-storey maisonettes (beyond) and the remaining 2-storey houses (top left). Editorial comment on the plans will appear next week.

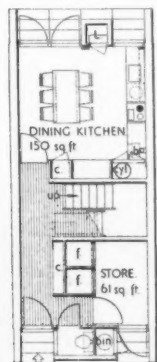
Ground, first and second floor plans, 3-storey houses. (Area, 1,124 sq. ft. inc. store.)



Lower and upper floor plans, maisonettes. (Area, 705 sq. ft.) Living-room mock-up, below.



Ground and first floor plans, two-storey houses. (Area, 986 sq. ft. inc. store.) [Scale:  $\frac{1}{4}$ " = 1' 0"]







## LCC

*Housing with Nominated Contractor*

The LCC Housing Committee proposes to appoint a consulting engineer and a nominated contractor to work with the Council's architect on the first phase of the development of the Picton Street site in Camberwell. This unusual proposal was approved by the Council last week. Both engineer and contractor are to collaborate on the project from the design stage onwards. It is hoped that this method will lower building costs and lessen the construction time, although it is not expected that appreciable economies will be achieved on the initial experiment.

An estimate of the scheme based on normal constructional methods will be the maximum cost to which the design group will work. A detailed investigation will be made into certain component parts of the building in order to establish their cost in traditional construction. These costs will be used as a yardstick against which the design team will check the cost of new construction methods evolved.

The 22 acre Picton Street site will contain 4 eleven-storey blocks of maisonettes, 3 three-storey blocks of maisonettes with 5 shops on the ground floor of each, 3 three-storey blocks of flats, 26 houses in three terraces, a club-room, playgrounds, play spaces, an estate workshop and eleven garages. There will be 681 dwellings. The estimated cost is £1,686,430. Over 3½ acres will be reserved for two schools, a public library, houses for old people, public houses and a bakery.

*Schindler System to be Used*

The LCC Housing Committee proposes to use the Schindler system of construction in developing the Brooklands Park site at Greenwich, where five-storey blocks of flats and houses are to be built. The Schindler system consists of prefabricated internal partitions and wall linings with external skins constructed by traditional methods. It was first described in the JOURNAL for October 26-November 2, 1950.

A consulting engineer and nominated contractor will be appointed to work with the architect from the design stage.

## SOUTH BANK

*Cost of Exhibition*

The cost of the South Bank Exhibition, built for the 1951 Festival of Britain, was £5,636,100. The revenue from the exhibition



Coffee Bar in London

*The interior of the Mocamba bar in the Brompton Road, S.W.7, was designed by Douglas Fisher. The end wall and part of the bar is faced with pine. The bar is also faced with dark green leather and various marbles. The wall is terra cotta, the ceiling white.*

## BUILDINGS IN THE NEWS



Hotel Bar in Edinburgh

*The American Bar in the Caledonian Hotel, Edinburgh, was designed by John Carter for the Hotels Executive. The bar occupies 115 sq. ft., the remaining area of 285 sq. ft., provides seating space for six at the bar and 20 elsewhere. The ceiling is of polished beech slats, the wall is faced with Vert St. Denis marble. The door, bar panels and carpet are red, the bar top is of mahogany.*





School at Weymouth

*The Holy Trinity Church of England primary school, at Weymouth, was designed by Crickmay and Sons. It accommodates 200 infants and 320 juniors. Contract price was £99,689. Above, the infants' entrance with the infants' assembly hall behind. Left, the junior classroom wing. The junior school is one floor below the infants' school.*

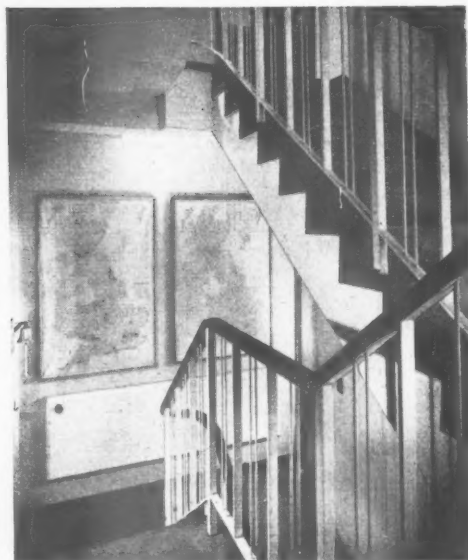
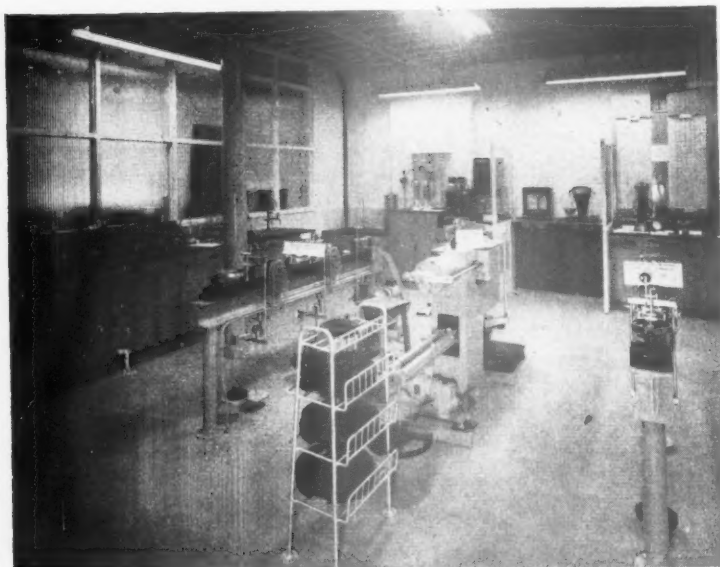


Houses at Sighthill, Edinburgh

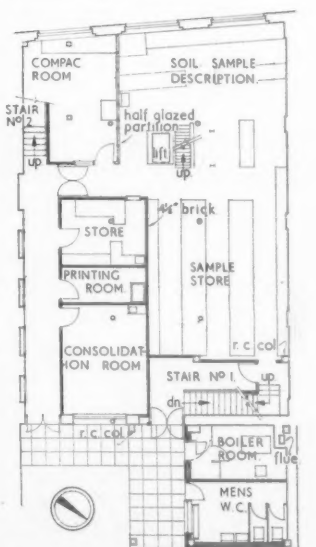
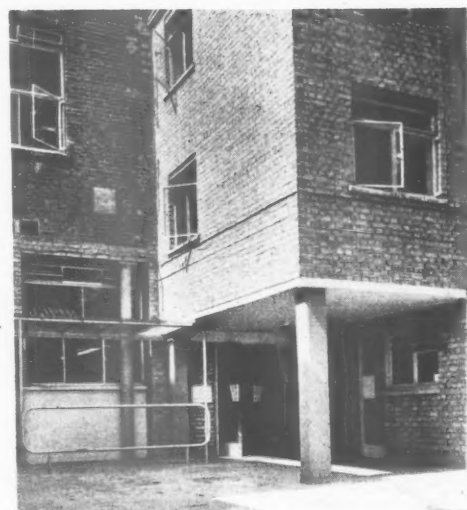
*Right, the first houses in Scotland incorporating recommendations of the Bailey report. They were built at Sighthill by the Department of Health for the Scottish Special Housing Association. There are two houses of 751 sq. ft. with dining kitchens, and two of 836 sq. ft. All are planned to a 3 ft. grid. Frontages are 24 ft. and 21 ft. The methods of construction used have saved from 0.25 to 0.92 standards of wood.*



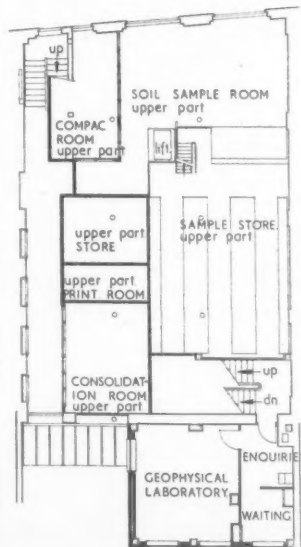
## SOIL TESTING LABORATORIES IN OLD CHURCH STREET, CHELSEA



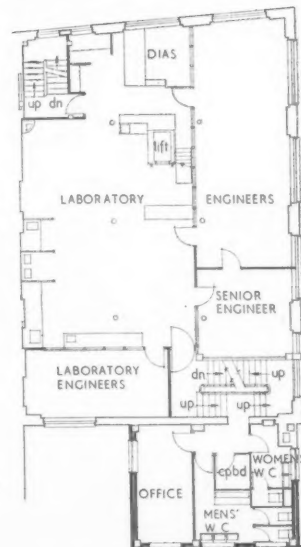
The soil testing laboratories in Old Church Street, Chelsea, for Soil Mechanics, Ltd., have been designed by Cecil C. Handisyde in association with Hammett and Norton. The building has been converted and extended to the east. The photograph above is of the main laboratory on the first floor; behind the glazed screen is the laboratory engineers' room. Above right, the new reinforced concrete staircase No. 1 and first floor landing. Right, the main entrance, with covered porch under the new annexe; on the opposite page, top, the sample store at mezzanine level looking down into the soil sample description room on the ground floor; centre is part of the first floor reception office in the annexe. The building forms the head office and laboratories for testing soils with special reference to foundation and soil stabilization. The east facade is well set back from the road, with access only 12 ft. wide, and this caused great difficulty in arranging means of escape. The LCC eventually agreed to the provision of two new fire-resisting staircases, at opposite corners of the premises, one with access to the roof. It was essential to house the heavy soil sample cases on the ground floor and to provide maximum accessible storage at mezzanine level in racking of slotted metal angles. The original external walls are shown in outline on the plans. The general contractors were John Mowlem & Co., Ltd. Sub-contractors, page 184.



Ground floor plan (Scale: 1/4" = 1' 0")

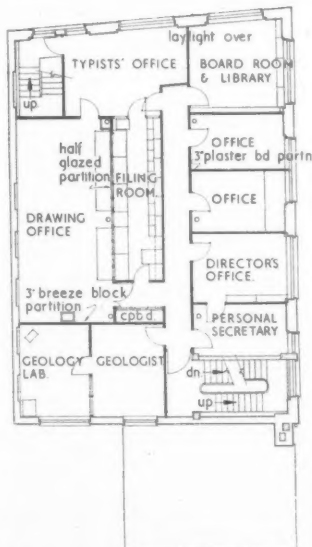


Mezzanine plan



First floor plan

## T, CHELSEA, LONDON, S.W.3



Second floor plan

was £2,006,562, which was £150,000 more than the provisional estimate. Gross expenditure on the Festival of Britain, excluding loans to Festival Gardens Ltd. was £10,686,924.

## SWITZERLAND

*Congress on School Buildings*

The fifth international congress on problems connected with school buildings and open air education is to take place in Switzerland from August 27 to September 6. The congress will be held at Basle, Zurich, Zug, Leysin and Geneva. Those attending the congress will in this way be able to visit various Swiss schools and children's playgrounds. The president of the congress will be M. Pilet-Golez, president of the Swiss Pro Juventute Foundation.

Discussions and talks of interest to architects will cover the following:—Schools in towns and built-up areas; single and multi-storied schools; school equipment; the advantages and disadvantages of movable school furniture; the use of decoration in and around school buildings; the school as a cultural centre for use in leisure hours by children and adults; lighting and ventilation of classrooms; playgrounds.

An exhibition concerning contemporary school buildings will be held in the museum of the School of Industrial Art at Zurich at the same time as the congress. The exhibition will contain sections covering the same subjects as the congress.

## RIBA

*Rome Scholarship*

The faculty of architecture of the British School at Rome are unable to recommend any candidate for the award of the Rome Scholarship in 1953.

## COPPER

*End of Licensing*

Licences will no longer be needed for the purchase of any form of copper as soon as the London Metal Exchange resumes dealings this month.

An order was made by the Ministry of Supply, which came into operation yesterday, revoking the Copper, Lead and Zinc Distribution Orders.

## LMBA

*Technical Information Service*

The LMBA Technical Information Service has issued its fourth bulletin. This deals with external decorating problems. It includes information on paint failures, painted stucco, painting over creosote, preservation of oak half timbering, preparatory work on new aluminium and galvanised steel, renovation of bronze, cement rendering and asbestos cement sheeting, decoration of new brickwork, removal of oil stains on brickwork and emulsion paints. Previous bulletins were concerned with plastering, floor finishes and problems arising from dampness.

## ADA

*Annual Report*

Large diameter aluminium rivets, welding problems and investigations of varying aspects of corrosion are some of the research

problems that the ADA has dealt with during the last year. This is stated in the annual report of the ADA which was published last month. Work has been undertaken on investigating strut instability with particular reference to BS 1161. Roof structures and cranes have been the subject of interesting inquiries.

## CORONATION

*Decorations for Sale*

Some of Westminster's Coronation decorations are now for sale (ASTRAGAL gives details on page 155). Anyone interested should write to the city engineer's office, Alhambra House, Charing Cross Road, W.C.2.

## MALMO

*Kensington's Coronation Decorations in Sweden*

Kensington Coronation decorations, designed by James Gardner, were on view at Malmo, Sweden, last week. They were placed at several points in the city during a "British Week" organized by the Journalists' Association of Southern Sweden.

## PARLIAMENT

*Records of Historic Buildings*

The government is willing to give an assurance that adequate records will be prepared before any important building is demolished. This was announced last week in the House of Lords by the Earl of Munster.

## KENT

*County Architect Wanted*

Kent is inviting applications for the post of county architect. The salary for the post, which will become vacant next April, will be £2,200, rising by annual increments of £100 to £2,700 a year. Particulars may be obtained from W. L. Platts, Clerk of the County Council, County Hall, Maidstone.

## CORRECTION

*Leslie Creed*

We are sorry that Leslie Creed's name was incorrectly spelt last week, when we gave details of the St. Thomas's hospital expansion scheme he is working on with Sir William Holford.

## DIARY

*Students Work*—the Royal College of Art, Exhibition at the Victoria and Albert Museum. Weekdays, 10 a.m. to 6 p.m.; Sundays, from 2.30 p.m.

UNTIL AUGUST 9

*Home and Surroundings*. RIBA travelling exhibition at the Town Hall, Croydon. Weekdays, 9 a.m. to 6.30 p.m.; Saturday, until noon.

UNTIL AUGUST 13

## HEALTH CENTRE

on the LCC WOODBERRY DOWN ESTATE, STOKE NEWINGTON, LONDON, N. 16

designed by ROBERT H. MATTHEW, former Architect to the Council,

senior architects (general division) W. J. DURNFORD and A. E. MILLAR

mechanical and electrical services, J. RAWLINSON, Chief Engineer to the Council

The health centre on the Woodberry Down housing estate is the first fully comprehensive centre of its kind to be built under the National Health Service Act. The decision to build the centre was made in 1948 and work began in 1949, after plans had been prepared under the direction of the Council's Architect in close collaboration with the Council's Medical Officer of Health and School Medical Officer. The day nursery, seen on the site plan opposite, is quite separate from the health centre, although certain services are shared.

*The west facade and entrance to doctors' consulting rooms.*



First fl



Group



rooms.



rooms.



rooms.



rooms.



rooms.

rooms.



rooms.



## HEALTH CENTRE

at WOODBERRY DOWN, LONDON, N.16  
designed by ROBERT H. MATTHEW  
former Architect to the Council.

*Top, the reception office opposite the main entrance in the west wing. Above, the lecture hall and demonstration kitchen which forms a link between the east wing of the health centre and the adjoining day nursery. Right, typical ground floor consulting room. Corridor and surgery floors are rubber covered; wood is used on the lecture hall floors—tiling and terrazzo elsewhere.*

centre serves an area in northern Stoke Newington about half of which is occupied by the Woodberry Down estate. When completed, the estate will provide 1,771 dwellings, accommodating about 6,500 persons. The population of the area to be served is about 17,000 at present, with an ultimate planned population of 23,500. Five health units operating under the National Health Service Acts and the Education Acts have been brought together under one roof. There are medical practitioners' and dental surgeons' units situated on the main frontage facing Green Lanes, with one main and three subsidiary entrances. Suites for six medical practitioners are situated on the ground floor. Each doctor is provided with a waiting room, consulting room, examination room and undressing cubicle. On the first floor there are facilities for minor operations, the testing and treatment of eyes, visiting specialists, dental X-ray unit and a medical store room. On this floor there are also two suites for dental surgeons. The school health unit is entered from the north of the site, and has a waiting hall, room for dealing with minor ailments, doctors' consulting room, nurses' room and record office, all on the ground floor. The child welfare unit deals with interviews, weighing, test feeding, isolation and milk distribution, and has also a lecture room with demonstration kitchen.

**SERVICES.**—Heating is by a forced-circulation, low-pressure hot water system. There are two sectional boilers for the heating and two boilers and a large storage cylinder for the hot water supply. Fluorescent lighting is used in all working rooms, and there is a complete internal telephone system.

The cost, including equipment, was about £155,000. The general contractors were Tersons, Ltd. For sub-contractors, see page 184.



The Architects' Journal for August 6, 1953 [169]

## HEALTH CENTRE

at SIGHTHILL, EDINBURGH

designed by ROBERT GARDNER-MEDWIN, former chief architect, Department of Health, Scotland

deputy chief architect, ROBERT MORTON

senior architects, GEORGE LAWRENCE, JOHN OGILVIE

assistant architect, ERIC HALL; landscape architect, JANE WOOD

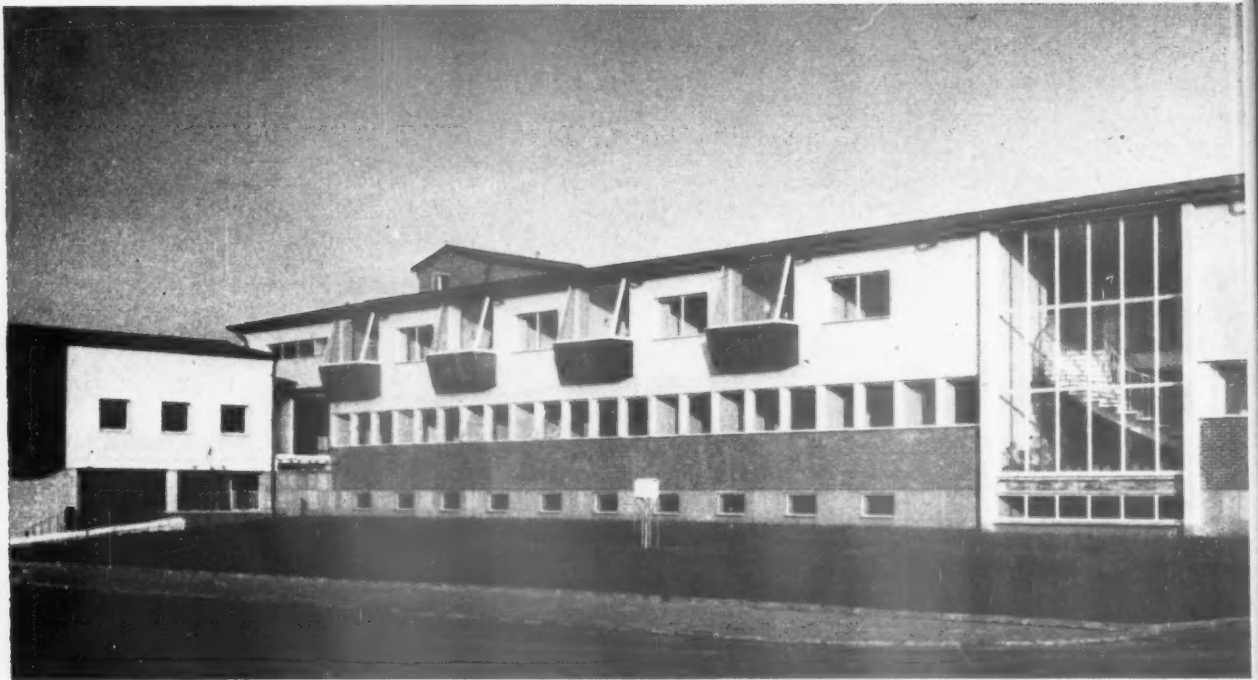
structural engineer, W. A. FAIRHURST; heating engineer, OSCAR FABER and PARTNERS

quantity surveyor, D. W. DIXON

The health centre at Sighthill, six miles to the south-west of Edinburgh, is the first to be completed in Scotland. It has been designed to serve an eventual population of 20,000. Its location, though not ideal, is conveniently near to the Department of Health offices in Edinburgh.

*The main entrance to the health centre.*





## HEALTH CENTRE

at SIGHTHILL, EDINBURGH

designed by ROBERT GARDNER-MEDWIN

The administration and dental unit block from the north-west. The external cladding of the lecture room on the extreme left and of the bay windows is of West African afrormosia. The concrete facing blocks to the basement have been acid washed to expose the aggregate. Facing bricks are used at ground floor level and rough cast at first floor level. (This picture extends on to page 171 as the reader will find when he has removed the Information Sheets.)



Basement plan



Ground floor plan [Scale: 1/4" = 1' 0"]

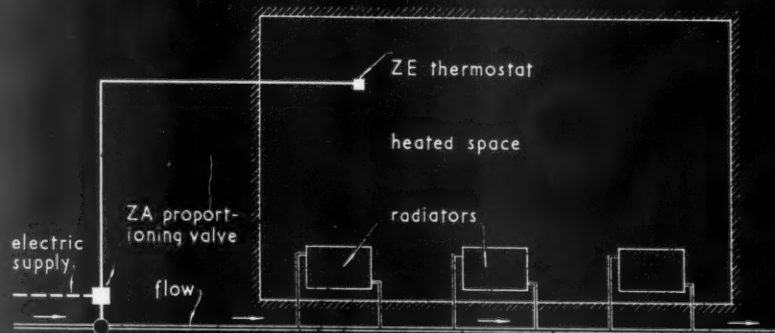


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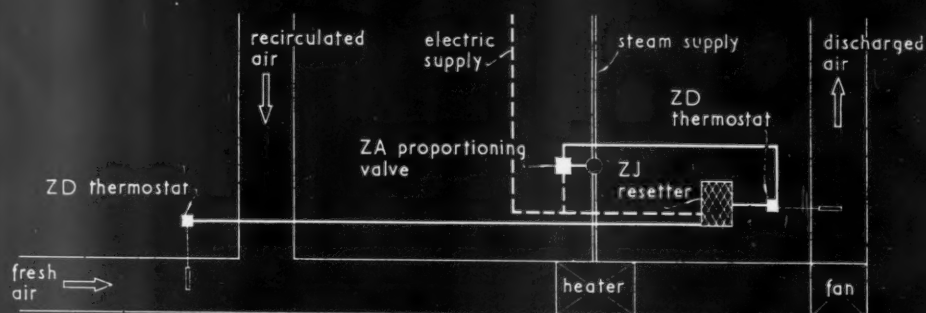
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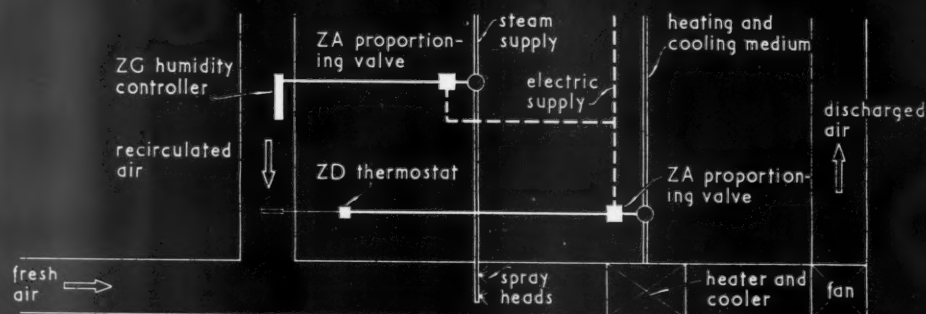




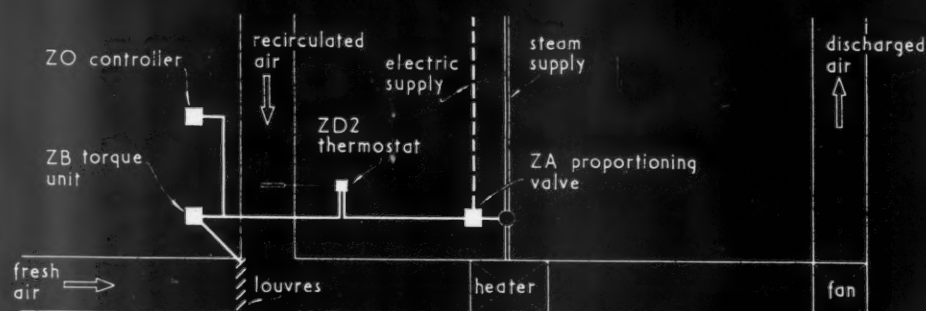
CONTROL OF HOT-WATER HEATING.



● COMPENSATING CONTROL OF WARMED-AIR HEATING.



CONTROL OF HUMIDITY IN AIR-CONDITIONING SYSTEM.



CONTROL OF VENTILATING LOUVRES IN A WARMED-AIR HEATING SYSTEM.

## AUTOMATIC ELECTRICAL CONTROLS FOR HEATING AND AIR-CONDITIONING SYSTEMS.

Manufacturer: Teddington Industrial Equipment Ltd.

# 30.A1 AUTOMATIC ELECTRICAL CONTROLS FOR HEATING AND AIR-CONDITIONING SYSTEMS

This Sheet describes the use of electrically-operated proportioning equipment for the automatic control of space heating and air-conditioning systems. The following notes describe the control units and the diagrams on the face of the Sheet illustrate the basis of their application, from which more complex installations can be visualised.

## General

The equipment may be used to regulate the temperature in a heating system or to proportion the heating-and-cooling medium, fresh air flow and/or moisture content in an air-conditioning system. Great flexibility in a system is possible as any unit in the range can be added by a simple electrical connection. Combinations of the units the functions of which are described below can be arranged to maintain constant conditions from a single control point; to maintain conditions within predetermined limits from a single control point; for averaging control from up to three separate control points. They may also be used to effect compensating temperature control from two control points.

## Control Units

**ZA proportioning valve:** This is used to control the flow of steam or hot water in pipes from  $\frac{1}{2}$  in. to 8 in. diameter (screwed or flanged). It is operated by an electric motor actuated by a controller at any distance from the valve.

**ZE and ZE2 thermostats:** This type of thermostat is for fitting in a room and is connected to the proportioning valves. They control, as standard, temperatures from 35° to 90° F. but may be obtained to order for different ranges. Type ZE2 has two resistance elements which may be arranged to operate simultaneously for averaging or compensating control or in sequence for separate circuits.

**ZD and ZD2 thermostats:** This is a phial-and-capillary type thermostat for fitting in ducts, radiators, boilers, tanks, etc.

**ZG humidity controller:** Used to control a proportioning valve or louvres for adjusting the humidity of conditioned air.

**ZB torque unit:** Used to operate ventilating louvres; it can also regulate automatic stokers. The operating lever may be arranged to rotate through 90°, 150° or 180°.

**ZJ resetter:** This automatically resets one control, in a compensating control system, in accordance with the fluctuations of the second control.

**ZO controller:** Used for remote manual control to give required conditions by over-riding other controls.

## Typical Systems

**Control of hot-water heating:** The drawing shows a simple hot-water heating system. A ZE thermostat fitted in the room controls a ZA proportioning valve.

**Compensating control of warmed-air heating:** One ZD thermostat is situated in the fresh air inlet to the air-conditioning duct and connected to another in the discharged air outlet. The latter controls the ZA proportioning valve in the heater supply pipe and is reset by a ZJ unit (as described under "Control Units") to compensate for variations in fresh air temperature.

**Control of humidity in air-conditioning system:** A ZG humidity controller fitted in the recirculated air-duct controls the ZA proportioning valve in the pipe of the steam supply to the spray heads which determine the moisture content of the discharged air. The control of the heating-and-cooling unit by means of a ZD thermostat in the recirculated air duct is also shown in the diagram.

**Control of ventilating louvres in a warmed air heating system:** The diagram demonstrates the use of the ZB torque unit to control ventilating louvres at the dictate of a ZD2 thermostat in the recirculated air duct. The same thermostat controls the ZA proportioning valve in the heater supply pipe. A ZO controller is shown connected to the louvre control circuit to enable a minimum intake of fresh air to be selected.

## Further Information

The manufacturer maintains a technical department which is able to advise on problems relating to the use of automatic controls applicable to various installations. Detailed information on the full range of equipment may be obtained from the manufacturer.

Compiled from information supplied by:

Teddington Industrial Equipment, Ltd.

Address: Sunbury-on-Thames, Middlesex.

Telephone: Sunbury-on-Thames 600.

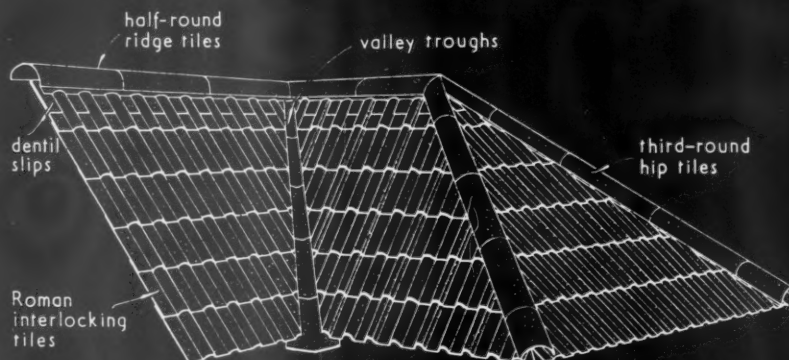
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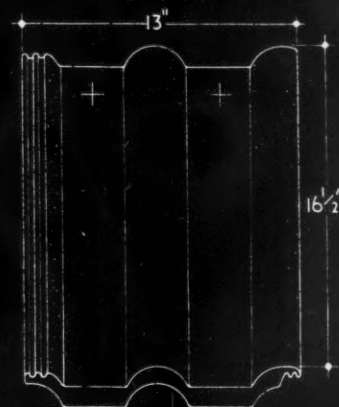




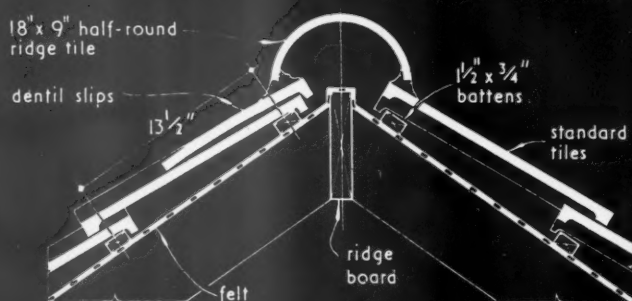
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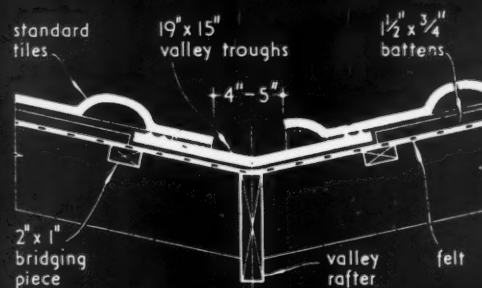
PERSPECTIVE SKETCH SHOWING TYPICAL DETAIL OF ROOF.



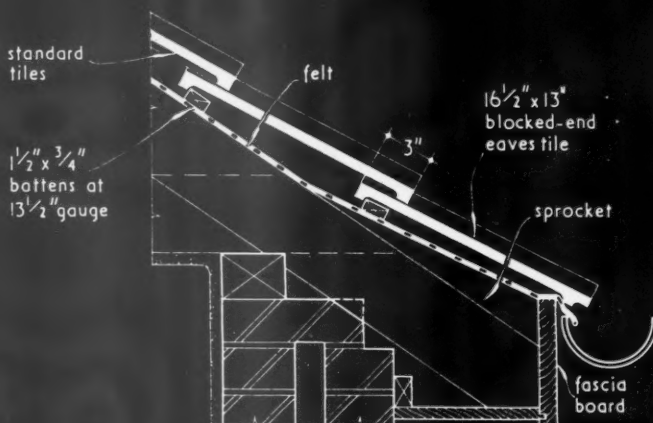
STANDARD TILE.



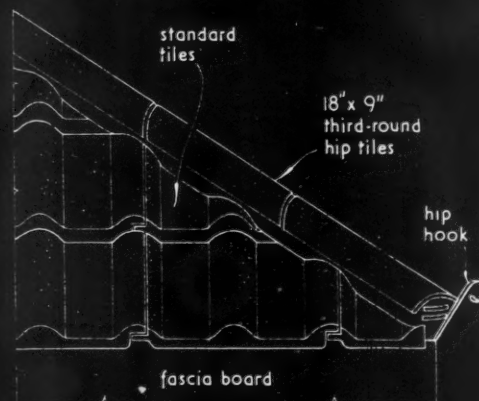
SECTION THROUGH RIDGE.



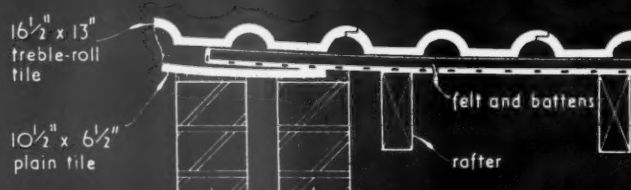
TYPICAL DETAIL OF VALLEY.



TYPICAL DETAIL OF FINISH AT EAVES.



ELEVATION SHOWING FINISH AT EAVES.



TYPICAL DETAIL AT VERGE.



TYPICAL DETAIL AT ABUTMENTS

## 17.D2 REDLAND • 50 • DOUBLE ROMAN INTERLOCKING TILES

This Sheet describes Redland 50 double Roman tiles with interlocking side joints. The drawings on the face show the standard tile and details of its application to a roof. Concrete double Roman tiles are not covered by a separate B.S., but Redland 50 tiles conform to B.S. 550 : 1945 *Concrete interlocking roofing tiles* apart from dimensions which solely govern their design.

**General**

The standard tile is 16½ in. by 13 in. and has nibs, 3 in. long by ⅝ in. thick, giving an adequate hold on the battens. Nailing should, however, be carried out as recommended below as a precaution against lifting by the wind. Special tiles are available for use at the eaves with the lower ends of the rolls blocked in and tiles with three rolls for use at the left-hand verge.

**Gauge:** The recommended maximum gauge is 13½ in. but owing to the adjustable head lap this may be reduced where necessary to suit the length of rafters in order to obtain courses of equal gauge.

**Lap:** The side lap is 1 in. and the recommended minimum head lap is 3 in.

**Roof pitch:** The minimum roof pitch recommended is 30 degrees.

**Covering capacity:** The net covering capacity is 90 tiles per square (100 sq. ft.) when a 3-in. lap is used.

**Weight:** The weight per square is approximately 900 lb. (8 cwt.) when a 3-in. lap is used. One thousand tiles weigh approximately 4½ tons.

**Nailing:** It is generally recommended that two 1½ in. by 12 g. galvanised iron nails per tile be used in every third course or one nail per tile in every second course; where the site is very exposed or the roof pitch unusually steep, it is recommended that two nails per tile in every second course be used. All eaves and ridge course tiles and those adjacent to verges, hips and valleys should always be nailed.

**Colour:** The tiles are available in a range of red, brown and grey shades.

**Roof Preparation**

A small sprocket, as shown in the drawing on the face, should be fixed to the rafters, in order to slightly raise the eaves course tiles.

The normal preparation is to lay untearable felt or reinforced building paper directly over the rafters. This should be lapped at least 3 in. horizontally and 6 in. vertically, lapped well into gutters and secured with galvanised nails. Tiling battens are then fixed, these being 1½ in. by ¾ in. where the rafters are at not more than 18 in. centres or of a larger section where the rafters are more widely spaced.

**Details**

**Ridge:** The batten at the top of the roof should be fixed 2 in. clear of the ridge board. After laying the top course of tiles, halves of plain tiles may be laid in the hollows between the rolls to form dentil slips, as shown on the left of the detail. The dentil slips are used for decorative purposes only and may be omitted if not required. (The section through the roll is shown on the right.) The half round ridge tiles

are bedded in mortar which is neatly pointed round the dentil slip (if used) and the rolls. Mortar is also used for jointing and pointing between the adjacent ridge tiles.

**Valley:** A complete width (3 ft.) of felt should be laid down valleys before tiling. Where roof pitches are approximately 35 degrees, Redland valley troughs may be used. Where roof pitches are substantially greater or less than this, metal valleys on boarding, with slate or tile undercloak, are recommended.

The drawing on the face shows the use of the Redland valley trough. This tile, 19 in. by 15 in., is rebated to provide a 3-in. head lap. A complete weather seal and cushion for the next trough is obtained by laying a piece of asbestos yarn across the trough, 2 in. from the top. Bridging pieces, formed of short lengths of 2 in. by 1 in. battens, are fixed between the jack rafters, parallel to the valley rafter. These support the ends of the tiling battens and the edges of the valley troughs, rendering valley boards unnecessary.

The roofing tiles are cut so that an open valley, from 4 in. to 5 in. wide, is obtained. The tiles are bedded on mortar on the inside of the raised water checks of the trough and the cut edges of the tiles are neatly pointed with mortar, preferably coloured to match the tiles.

The bedding to the roll and to the hollow of the tile are shown on the right and left of the section respectively.

**Eaves:** The special tiles with blocked ends to the rolls are used and should be laid so that the continuous nib near the tail of the tile is on the outside of the fascia board. With these tiles no mortar bedding or under-eaves course is necessary as the stopped ends to the rolls provide a neat finish.

**Hip:** The edges of the roofing tiles are cut on the line of the hip and third round hip tiles laid with butt joints are bedded on mortar over them. Alternatively, socketed hip tiles, which are tapered in their length and have 1-in. sockets, are bedded in a similar manner. In either case the spaces between the rolls are pointed with mortar.

**Verge:** Tiling should overhang approximately 2 in. and be bedded on mortar over an undercloak of one course of plain tiles. The detail shows a section through the special left-hand verge tile with three rolls.

**Abutments:** The details on the face of the Sheet show the method of flashing the joint between the tiling and a wall or the side of a chimney stack. Lead flashings are recommended and should always be taken over a roll or part of one and dressed down into the hollow beyond.

**Further Information**

The manufacturer maintains a technical advisory department which is available to answer questions and advise on problems dealing with this subject generally.

*Compiled from information supplied by:*

Redland Tiles Ltd.

Address : Moorhouse, near Westerham, Kent.  
Telephone : Limsfield Chart 3206/7.

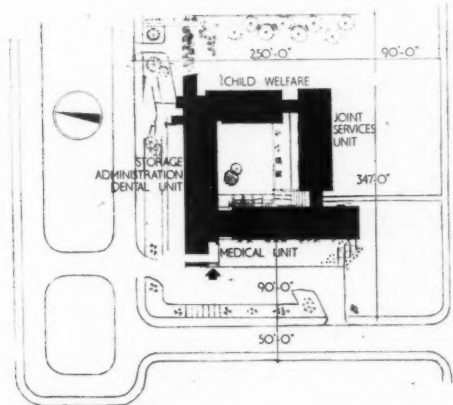






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Site plan

## HEALTH CENTRE

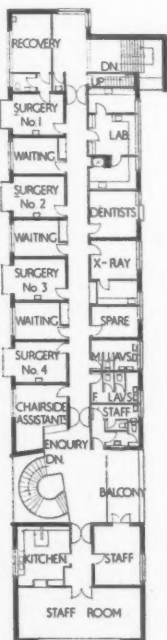
at SIGHTHILL, EDINBURGH  
designed by ROBERT GARDNER-MEDWIN

**PLAN.**—The centre stands on two acres of land which slopes gently from south to north. It is built round a garden courtyard. On the west, south and east of the courtyard are single-storey wings and on the north is a wing consisting of basement and two storeys. The general practitioners' wing (medical unit on plan) contains six suites, each comprising waiting-room, consulting room and examination room. The maternity and child welfare wing contains a waiting-room, baby weighing room, changing room and consulting rooms. (For the school health service there is a waiting-room, treatment room and consulting room.) This wing has an entrance with covered parking space for perambulators. It also includes a lecture room, with a demonstration kitchen, a playroom, an enquiry office and a distribution counter for health foods. The area is 6,462 sq. ft. Situated between the general practitioners' wing and the maternity wing is a joint services wing which contains X-ray facilities, sterilizing and dressing rooms, a laboratory and a physiotherapist's suite with gymnasium for remedial exercises. The dental wing, which is situated on the first floor, contains four surgeries, two of which are operated by the local authority. One of the local authority surgeries will be equipped for treating children. There are three waiting-rooms and a recovery room, also a dental workshop and a dental X-ray and dark room. The dental and medical services occupy 8,033 sq. ft. The administration area

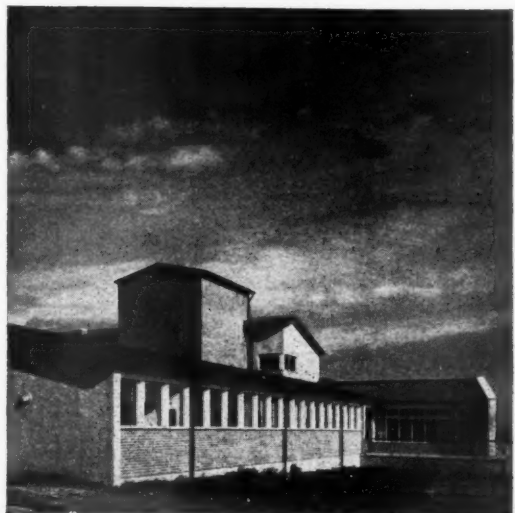
of 978 sq. ft. contains offices, including a general office and interview room to be used by the district nurses. It also contains a classroom and a study. In addition, there are staff rooms and a kitchen. The basement provides storage space and service rooms. The total floor area of the building is 35,040 sq. ft.

**SERVICES.**—The building is heated by floor and wall panels heated by "off-peak" electricity. Each

*The maternity and child welfare wing from the south-east. On the right is the children's playroom.*



First floor plan





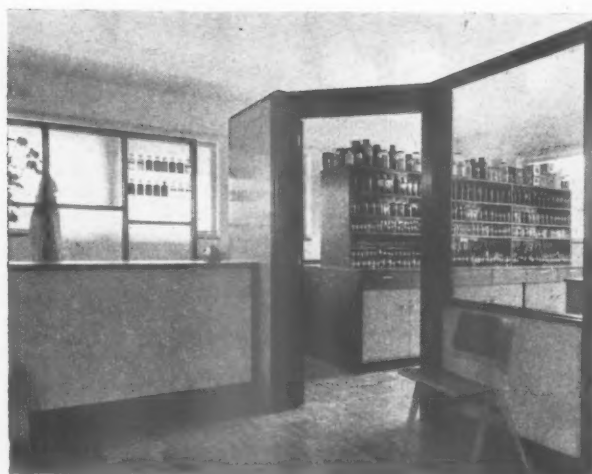
## HEALTH CENTRE

at SIGHTHILL, EDINBURGH  
designed by ROBERT GARDNER-  
MEDWIN

circuit is controlled by a room thermostat. Wall panels are backed by heat-reflecting material. The heat which is built up during the "off-peak" hours is contained in the fabric of the building during the remainder of the day. A boost to the heating is provided in the middle of each day. Hot water is supplied through electric calorifiers also heated by "off-peak" electricity. The sterilizing equipment is similarly operated. Electric power is supplied through ring mains to 13-amp. sockets. The mains are run in ducts in the external walls with access boxes in each window bay. This allows some flexibility in the position of the socket outlets and simplifies alterations in the position of partitions.

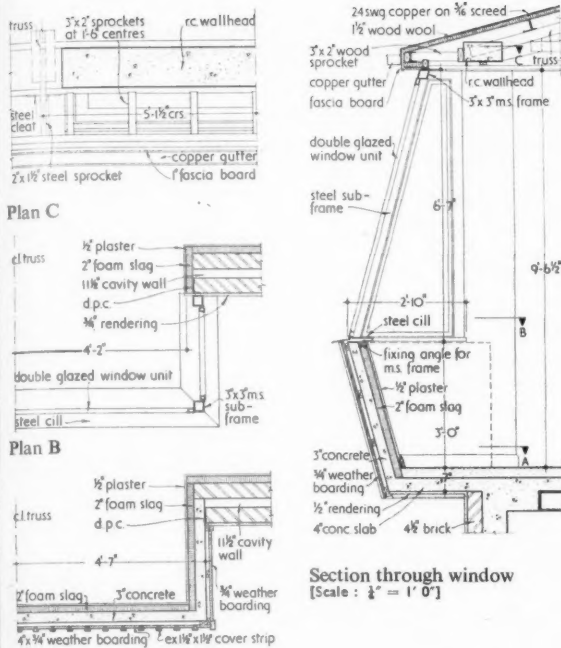
The contract price was approximately £130,000. The centre cost £160,000 equipped and furnished. For contractors, see page 184.

*Above, the enquiries counter in the entrance hall. The windows to the right overlook the courtyard. The wall is faced with mahogany, the floor with slabs of Caithness stone. Other floor finishes in the building include wood block, cork and thermoplastic tiles, linoleum, mastic asphalt and terrazzo. Below, the pharmacy, which is next to the entrance hall.*

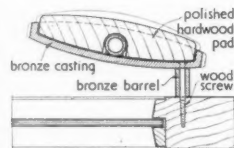


truss  
steel  
cleat  
2' x 1 1/2' steel  
Plan C  
cl truss  
double gl  
steel cil.  
Plan B  
cl truss  
2' (oom sl  
4' x 3/4' wea  
Plan A

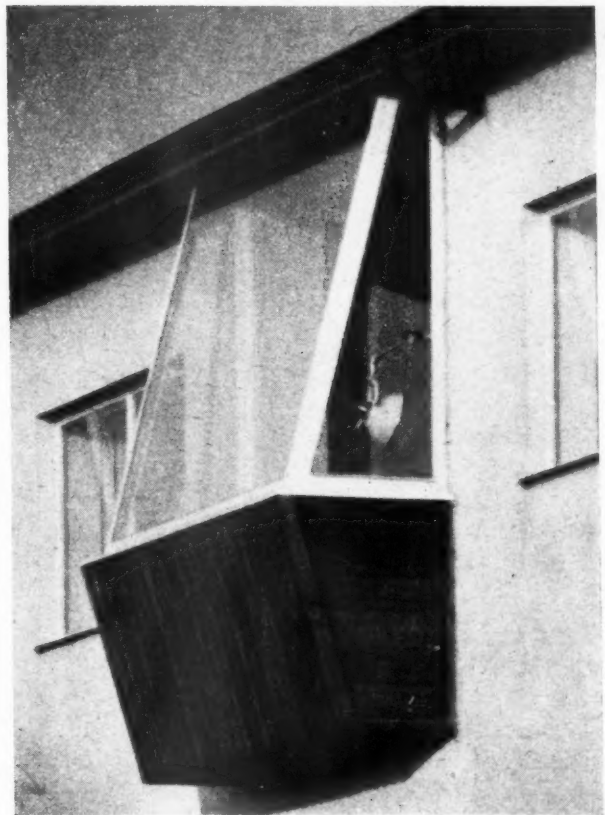




Details of dentist's surgery bay window


Section  
[Scale : 2" = 1' 0"]

Detail of entrance door handle



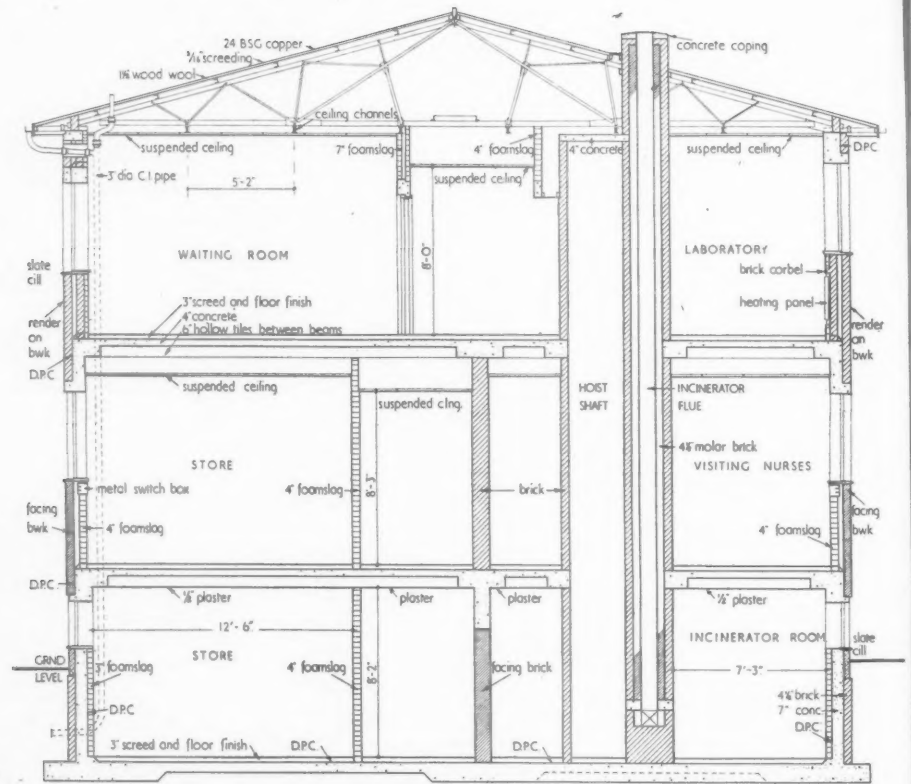
Below left, the baby weighing room in the maternity and child welfare wing. Internal partitions in single storey wings are of 4-in. foamed slag concrete blocks which do not support the roof structure. Room dimensions are governed by the spacing of the concrete posts in outside walls, at 4-ft. 9-in. centres. Where better sound insulation is required, partitions consist of two skins of 2 1/2-in. blocks with a 2-in. cavity. Suspended ceilings are mainly of insulation board. Skirtings and surrounds are of softwood. Doors are veneered in mahogany and poplar. Below, the lecture room, with demonstration kitchen beyond.



# HEALTH CENTRE

at SIGHTHILL,  
EDINBURGH

designed by ROBERT  
GARDNER-MEDWIN



Section A-A [Scale: 1/4" = 1' 0"]

*Below, the west side of the courtyard. Native silver birches have been transplanted to this courtyard, which has been laid out with lawns and flowering shrubs. The single storey wing contains general practitioners' suites. The steps lead to the entrance hall, above which is a balcony with access from the foyer of the dental unit.*



24 BSG copper  
1 1/2" wood wool

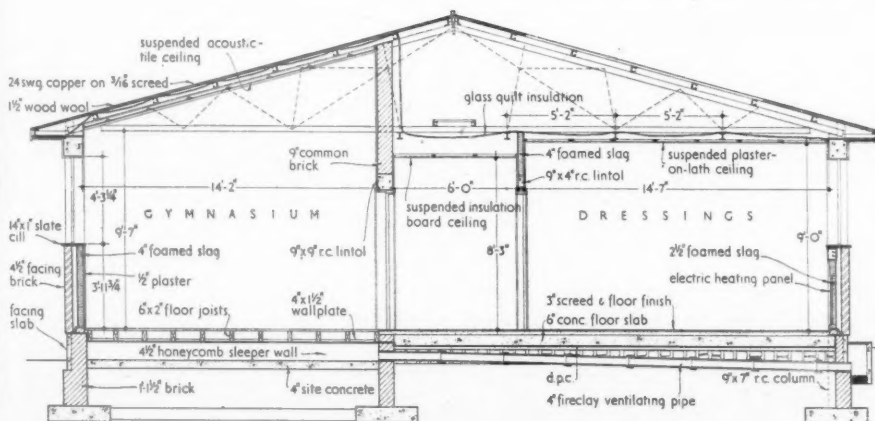
1 1/2" slate  
cill  
4 1/2" facing  
brick  
facing  
slab

Sec



The north corner of the courtyard. The semi-circular balcony belongs to the dentists' common room. The tower contains a staircase connecting all floors; it has a tank room at the top. All four wings have an internal width of 35 ft. 9 in. The

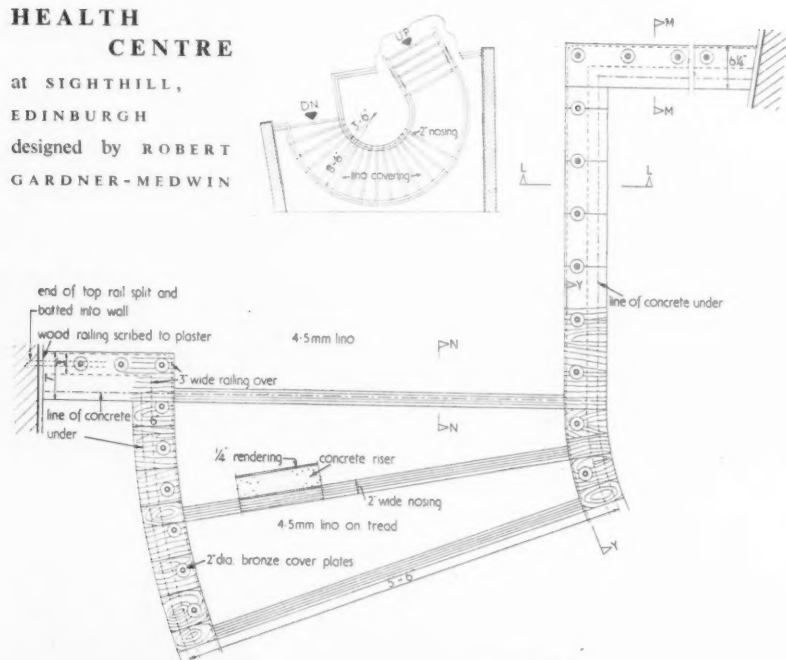
roof is supported on a cold rolled steel framework. This is supported by an r.c. eaves beam. In the single storey wings this beam is supported on 7-in. by 7-in. concrete posts at 4-ft. 9-in. centres. The outer skin of the cavity walls is of brick; the inner skin of 4-in. foamed slag concrete blocks on the ground floor, and bricks lined with 2-in. concrete blocks on the first floor. Window frames are of steel, window cills are of slate.



Section B-B [Scale:  $\frac{1}{8}" = 1' 0"$ ]

# HEALTH CENTRE

at SIGHTHILL,  
EDINBURGH  
designed by ROBERT  
GARDNER-MEDWIN



Detail plan

Details of staircase [Scales:  $\frac{1}{8}"$  and  $\frac{1}{4}" = 1' 0"$ ]

Section of the lower part

*The staircase connecting the entrance hall with the dental suites on the first floor.*



This  
special



## TECHNICAL SECTION

The Information Centre this week includes three items on heating, including one on under-floor heating. This form of heating, first dealt with in the JOURNAL for January 31, 1952, and the subject of an extensive survey in the JOURNAL for February 19, 1953, is provoking a good deal of controversy amongst heating engineers and appliance manufacturers.

Readers will probably have noticed from recent Information Centre items on floor heating (e.g., 23.183 last week) that opinions vary considerably as to the efficiency and cost of floor heating, the degree of comfort it provides, the importance of insulation under the slab, etc.

It is difficult, as yet, to weigh up the validity of all these opinions, although it will take strong evidence indeed to combat the glowing tribute to floor heating made by the owners of a floor-heated house in the JOURNAL for January 31, 1952.

- Certainly, we shall be hearing a lot more about floor heating, particularly for houses and for schools; possibly the most interesting developments may prove to be those in which it is used in conjunction with warm-air heating.

This week's  
special feature

### 8 ESTIMATING materials' prices

Current prices for  
measured work  
will appear on Aug. 20.  
Prices of materials  
and measured work  
last appeared in  
the JOURNAL on  
April 30 and May 21,  
1953, respectively.

*Current rates of wages and market prices of materials prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors. Rates for measured work will be published in the JOURNAL for Aug. 20. The most recent of Professor Bowen's 6-monthly analyses of fluctuations in the prices of building materials appeared on April 23.*

Rates of Wages last rose on February 2, 1953 and are now as follows:—

LONDON DISTRICT			Craftsmen.	Labourers.
Within 12 miles radius .. ..	..	..	3s. 8d.	3s. 2½d
From 12-15 „ „ .. ..	..	..	3s. 7½d.	3s. 2d.
LIVERPOOL and DISTRICT			3s. 8d.	3s. 2½d.
GRADE CLASSIFICATIONS			A <sup>1</sup>	A <sup>2</sup>
Craftsmen ..	3s. 6½d.	3s. 6d.	3s. 5½d.	3s. 5d.
Labourers ..	3s. 1d.	3s. 0½d.	3s. 0d.	2s. 11½d.

(continued on page 178)

Prices vary according to quality and the quantity ordered.

Those given below are average market prices and include delivery in the London area, except where otherwise stated, but do not include overhead charges and profit for the General Contractor.

## CONCRETOR

### Cements

Portland to B.S. 12, 6 tons and over	per ton	95/-
Rapid hardening to B.S. 12, 6 tons and over	"	103/-
Aquacrete water repellent, 6 tons and over	"	127/6
Aluminous to B.S. 915, 1 ton lots	"	299/6
Snowcrete, 1 ton lots	"	255/6

Above prices include for delivery to Charing Cross in non-returnable paper bags or cotton sacks.

### Aggregate and Sands, etc. (Full Loads)

$\frac{3}{4}$ " (Down) Washed, crushed and graded shingle to B.S. 882, Table 2	per yard cube	18/3
$1\frac{1}{2}$ " Ditto	"	17/3
$\frac{3}{4}$ " Sharp washed sand to B.S. 882, Table 3	"	20/10
Brick hardcore	"	9/6

(For Sands for Bricklaying and Plastering, see respective trades)

### Floor Blocks

Floor blocks, 12" x 12"	per 1,000	693/-	936/-	1,081/-
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### Reinforcement

Home trade maximum basis price for mild steel rods to B.S. 785, $\frac{3}{8}$ " diameter and upwards, ex mills delivered to station or siding	per ton	£32 18 0
---	---------	----------

#### Extras for:—

Under $\frac{3}{8}$ " to $\frac{7}{8}$ " diameter	£1 7 0
Ditto $\frac{7}{8}$ " and over $\frac{3}{4}$ " diameter	£1 14 6
$\frac{3}{4}$ " and over $\frac{11}{16}$ " diameter	£2 2 0
$\frac{11}{16}$ " and over $\frac{1}{2}$ " diameter	£2 9 6
$\frac{1}{2}$ " and over $\frac{3}{8}$ " diameter	£2 17 0
$\frac{3}{8}$ " and over $\frac{1}{4}$ " diameter	£3 4 6
$\frac{1}{4}$ " diameter	£3 12 0
Under $\frac{1}{4}$ " to $\frac{3}{8}$ " diameter	£5 2 0

### Fabric Reinforcement

	16.35 lb.	9.32 lb.	4.71 lb.	1.83 lb.
Steel wire mesh fabric to B.S. 1221, Part A, per yd. super	7/9 $\frac{1}{2}$	4/6	2/3 $\frac{1}{2}$	1/6 $\frac{1}{2}$

## BRICKLAYER

### Common Bricks

Third stocks	per 1,000	121/10
Rough stocks	"	157/10
Mild stocks	"	202/4
Sand limes	"	110/6
Phorpres pressed Flettons	"	110/-
Belgian	"	212/6

### Facing Bricks

Hand-selected sand limes	per 1,000	145/9
Phorpres rustic Flettons	"	135/-
Stocks, first hard	"	249/4
Stocks, second hard	"	233/4
Southwater pressed sandfaced reds	"	282/-
Dorking pressed sandfaced multicoloured facings	"	236/6

### Engineering Bricks

Lingfield engineering wirecuts. Grade 'B'	per 1,000	216/-
Southwater engineering No. 2 (second quality red pressed)	"	279/6
Blue pressed bricks to B.S. 1301	"	497/6

### Glazed Bricks

White, Ivory or Brown, 9" x 2 $\frac{1}{4}$ " x 4 $\frac{1}{2}$ " delivered London stations.	£ s. d.	
Headers	per 1,000	63 0 0
Stretchers	"	64 0 0
Seconds quality, above prices less 10%.		

## BRICKLAYER (continued)

### Limes and Sands

† Lime, greystone, to B.S. 890	per ton	110/6
† Lime, chalk, ditto	"	110/6
* Lime, hydrated, ditto	"	123/-
Washed pit sand to B.S. 1200	per yard cube	20/10

\* Including paper bags.  
† Hire of jute sacks charged at 1/6 and credited at 1/6. If left, charged at 1/9.

### Sundries

10 s.w. gauge galvanized butterfly type wall ties to B.S. 1243	per 1,000	92/6
Wall ties, galvanized, 8" x $\frac{3}{4}$ " x $\frac{1}{8}$ ", to B.S. 1243	per cwt.	85/-
Damp proof course slates:	Imported	Welsh
Size 14" x 9"	per 100	43/- 77/-
" 14" x 4 $\frac{1}{2}$ "	"	21/- 34/6
Hessian base bitumen damp course to B.S. 743	per yard super	5/1
	9" x 3" 9" x 6" 9" x 9"	
Terra-cotta airbricks	each	1/3 2/6 6/-
Galvanized cast-iron airbricks	"	3/8 6/1 9/6
Galvanized cast-iron hit-and-miss ventilators	"	3/7 6/10 8/11
Wall reinforcement supplied in standard rolls containing 25 yards lineal		
† 2" wide black japanned	per roll	3/4
† 2 $\frac{1}{2}$ " wide black japanned	"	4/2
† Greater widths pro rata 2 $\frac{1}{2}$ " price, carriage paid on orders of £7.		
Discount for quantities.		

### Partitions, etc.

Clinker concrete, solid to B.S. 492	2" 2 $\frac{1}{2}$ " 3" 4"	
	per yard super	3/5 4/- 4/8 5/10
Hollow clay to B.S. 1190 (keyed)	"	4/3 4/6 5/- —
Moler (keyed)	"	13/- 13/9 14/6 17/6
Building blocks (keyed):—		
6 cavity	per yard super	6/7
Normal quality woodwool slabs	1" 1 $\frac{1}{2}$ " 2" 2 $\frac{1}{2}$ " 3"	
Minimum delivery, square yards,	500 400 325 275 250	
per yd. super	5/- 6/6 8/- 9/2 10/3	

## PAVIOR

2" coarse gravel for paths	per yard cube	21/3
$\frac{3}{4}$ " fine ditto	"	22/9
Clean granite chippings to B.S. 1201, Table 4 (in 5-ton loads)	per ton	44/9
Red quarry tiles 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	per yard super	13/3
Ditto 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	"	11/-
Buff quarry tiles, 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	"	16/6
Ditto 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	"	14/-
Hard red paving bricks, 2"	per 1,000	449/-
Ditto 1 $\frac{1}{2}$ "	"	423/9

## DRAINLAYER

### Clay Land Drain Pipes to B.S. 1196

Pipes in 12" lengths	per 1,000	199/- 261/- 541/-
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### Salt Glazed Stoneware Pipes and Fittings

The following percentages to be added to the Standard List prices.

	Orders for 2 tons and over	Orders under 2 tons 100 pieces upwards	Orders under 2 tons less than 100 pieces
Seconds Quality	77 $\frac{1}{2}$ % less 15%	97 $\frac{1}{2}$ % less 15%	107 $\frac{1}{2}$ % less 15%
Best Quality	77 $\frac{1}{2}$ %	97 $\frac{1}{2}$ %	107 $\frac{1}{2}$ %
British Standard Quality	77 $\frac{1}{2}$ % + 10%	97 $\frac{1}{2}$ % + 10%	107 $\frac{1}{2}$ % + 10%
Tested Quality	77 $\frac{1}{2}$ % + 37 $\frac{1}{2}$ %	97 $\frac{1}{2}$ % + 37 $\frac{1}{2}$ %	107 $\frac{1}{2}$ % + 37 $\frac{1}{2}$ %
British Standard Tested	77 $\frac{1}{2}$ % + 47 $\frac{1}{2}$ %	97 $\frac{1}{2}$ % + 47 $\frac{1}{2}$ %	107 $\frac{1}{2}$ % + 47 $\frac{1}{2}$ %

### Cast Iron Drain Pipes and Fittings

Socket and spigot pipes to B.S. 437:—					
Weight per 9 ft.	Size	9 fts.	6 fts.	4 fts.	3 fts.
		each	each	each	each
1	1 17 4"	60/3	43/10	34/5	26/4
2	0 1 6"	89/6	69/-	54/4	43/4
3	3 21 9"	164/-	137/6	115/9	88/10



USING this system of Guttering shows a tremendous saving in cost, material and maintenance charges. Finlock Gutters are made with a fine waterproof concrete—simple in design, easy

## Finlock forms the eaves and gutters (says Mr. Fin)

... and saves £15 per house! (says Mr. Lock)

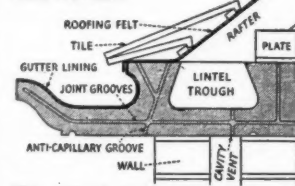


shows the large sectioned gutter channel which permits laying without fall. Strong enough to walk in and to withstand all building stresses. Completed by a "FINLOCK" waterproof mastic after laying. "c" indicates the jointing grooves.

★ A fully illustrated Technical Booklet is available on request, from our Head Office  
(A.J. Information Sheet No. 33V10)



### HOW FINLOCK SAVES MONEY and TIME!



This sectional drawing shows the system in detail and illustrates the ways in which FINLOCK saves approximately 5 yards of brickwork, 80 ft. of rafter, 40 ft. of normal guttering, 40 ft. of fascia, 40 ft. of soffit and 80 ft. super of roof tiling per single house. Painting is eliminated and a reduction in down pipes and drainage is obtained. The complete eaves for a building, with all fittings, can be fixed in one day.

Some typical FINLOCK units are shown below:—



Regd. Pat.



Finlock Gutters are being used by the following County Councils: CAMBRIDGESHIRE, DERBYSHIRE, EAST SUSSEX, GLAMORGANSHIRE, GLOUCESTERSHIRE, KENT, LONDON, MIDDLESEX, NORFOLK, SURREY, STAFFORDSHIRE, WARWICKSHIRE, WORCESTERSHIRE.

Over 300 local authorities are now using Finlock.

★ The buildings shown are in accordance with the winning design in the £1,000 low cost housing competition organised by "THE BUILDER". By courtesy of J. L. Womersley, Esq., A.R.I.B.A., A.M.T.P.I., late Borough Architect for Northampton.

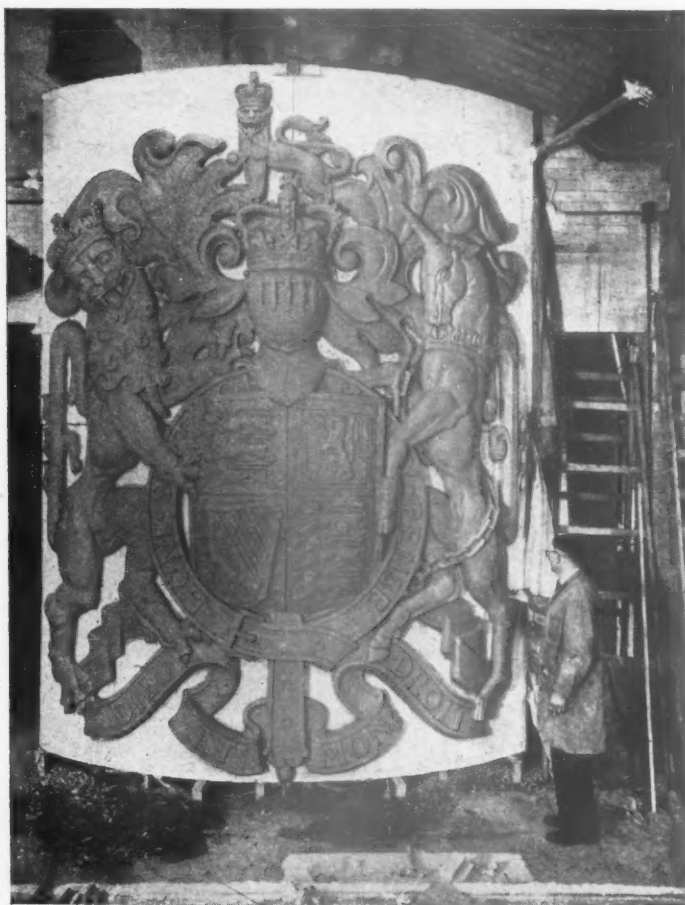
# FINLOCK GUTTERS LIMITED

20 ST. JOHNS RD., TUNBRIDGE WELLS, KENT

Telephone: Tunbridge Wells 20396/7/8

7 WORKS FOR SPEEDY DELIVERIES TO ANY PART OF GT. BRITAIN • CREWKERNE, SOMERSET • LEEDS, YORKSHIRE • EDINBURGH, SCOTLAND • CWMBRAN, SOUTH WALES • ROYSTON, HERTS • TUNBRIDGE WELLS, KENT • BELFAST, NORTHERN IRELAND

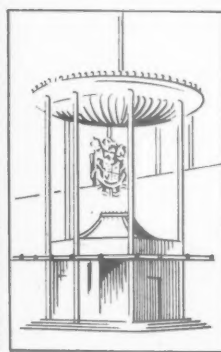
DHB



## Craftsmanship in Fibrous Plaster

### CORONATION DETAIL

Photograph on left shows the Royal Arms, fifteen feet in height, as it appeared in the course of modelling by Dejongs' Craftsmen before being cast in fibrous plaster and erected beneath the canopy at the Royal Entrance to Westminster Abbey Annexe for the Coronation of H.M. The Queen. The refinement of colour to this Arms was strictly consistent with the dignity of the subject, and in every detail befitting to the great Royal Occasion for which Dejongs were honoured to execute it to the design of James Woodford, Esq., R.A., under the direction of Eric Bedford, Esq., A.R.I.B.A., Chief Architect, M.O.W.



*A small pen sketch of the canopy under which the Royal Arms is appropriately positioned.*

Another instance of the high skill and versatility of Dejongs' Craftsmen is this two-thirds size model in fibrous plaster of the Coronation Coach, which was specially constructed for the "Daily Mail" Ideal Home Exhibition, under the direction of James Gardner, Esq., O.B.E., R.D.I. The interest shown in this model as a traditional subject and as a fine example of British Craftsmanship has been widespread. It is now being exhibited in America.



# DEJONGS

(BRANCH OF SHAND KYDD LTD.)

FIBROUS PLASTER AND DECORATIVE PAINTING  
FOR PUBLIC BUILDINGS, CHURCHES, SCHOOLS, ETC.

84, ALBERT STREET, LONDON, N.W.1

Telephone : EUSton 4848



## DRAINLAYER (continued)

## Tonnage Allowances:—

Orders up to 2 tons nett.

	4"	6"	9"
*Bends (short radius) as Fig. No. 4 each	6/3	13/-	40/-
*Single junctions as Fig. No. 18 .....	11/-	22/6	69/-
*Intercepting traps as Fig. No. 33 .....	30/-	50/-	123/-
*Gullies ordinary trapped "P" .....	14/6		
*Extra for 4" vertical back inlet .....	4/3		
*Grease gully trap .....	121/-		

\* These prices are subject to 12½% plusage.

## Channels in Brown Glazed Ware.

Standard list + same discounts as "Best" quality salt-glazed Stone-ware pipes.

## White Glazed Channels

Orders under £30, makers list value. Standard list + 10%.

## Manhole covers and frames

		Size of load	Unit price	
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A .....	..... each	35 tons	175/5	
C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade B. ....	..... each	5 tons	93/5	
		Size of load	Single seal Flat type	Double seal Flat type
Coated manhole cover and frame to B.S. 497, Grade C, 24" × 18" each	1 ton	32/-	45/8	
Galvanised ditto, 24" × 18" each	1 ton	57/6	80/9	
Coated manhole cover and frame, to B.S. 497, Grade C, 24" × 24" each	1 ton	48/11	73/-	
Galvanised ditto, 24" × 24" each	1 ton	89/2	126/6	

## MASON

## Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.

Blocks scrapped, random sizes .....	per foot cube	11/4
Add for blocks to dimension sizes .....	"	1/4 (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) .....	"	12/8
Templates with sawn beds, sawn one edge, .....	"	14/8
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads) .....		57/2

## Bath stone in random blocks

Monk's Park .....	per foot cube	6/8
St. Aldhelm Box Ground .....	"	7/8
Delivered on rail at South Lambeth station.		

## Portland stone in random blocks, average 20 feet cube

Whitbed .....	per foot cube	7/5
Delivered on rail at Nine Elms Station.		

## Artificial Stone to B.S. 1217

4½" × 4" Sill, sunk, weathered, throated and grooved .....	per foot run	3/-
9" × 3" Ditto .....	"	4/6
2" × 12" Coping, weathered and twice throated .....	"	4/-
3" × 12" Ditto .....	"	6/-
5" × 12" Saddleback coping, twice throated .....	"	9/-
6" × 12" Ditto .....	"	10/-

## SLATER, TILER AND ROOFER

## Slates

£ s. d.

16" × 10" Best Bangor Slates to B.S. 680 .....	per 1,000 actual	50 9 3
20" × 10" Ditto .....	"	78 19 9

## SLATER, TILER AND ROOFER (continued)

## Tiles

Hand-made sandfaced 10½" × 6½" red roofing tiles	per 1,000	318/3
Machine-made sandfaced best red tiles with continuous nibs, 10½" × 6½" .....	"	286/3
Berkshire hand-made red sand-faced Pantiles, 14½" × 10" .....	"	929/6
Bridgwater hand made red sandfaced pantiles, in 6 ton loads .....	"	813/-
Bridgwater hand made red sandfaced Double Roman tiles, in 6 ton loads .....	"	1091/6
Concrete plain tiles, 10½" × 6½" .....	"	159/-
Ditto interlocking tiles, 15" × 9" .....	"	457/-
Ditto Double Roman Tiles .....	"	800/-

## Asbestos-cement

\*6" corrugated sheets, grey .....

per yard super 5/3

\*Prices are for minimum two-ton loads, and are subject to 2½% discount.

Felt

Reinforced roofing felt to B.S. 747 .....	per yard sup.	1/8
Roofing felt (1-ply bitumen) to B.S. 747, Part I .....	"	1/6½
Bituminous hair felt to B.S. 747, Part II .....	"	2/9

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(per 100 sq. ft.) .....		41/6
½" Imported Hardboard (per 100 sq. ft.) .....		45/-
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* ½" Semi compressed asbestos cement flat building sheets, grey .....	per yard super	2/8
* ¼" Ditto .....	"	3/7

\*Prices are for orders of 2 tons and over. Subject to 5% trade discount.

Sundries

"Sisalkraft" standard grade .....	per yard sup.	-/11
"Sisalkraft" subsoil grade .....	"	-/6½
"Sisalat" single sided .....	"	1/11
"Sisalat" double sided .....	"	2/11
* Fibre glass Bitumen-bonded .....	"	1/11½

\* Price is for orders value £5 and over.

Timber

Softwood for Carpentry (average price) .....	per std.	£95
Softwood for Joinery (ditto) .....	"	£105
Tongued and Grooved Softwood Flooring (ditto) .....	"	£105
* First Quality European Oak .....	per ft. cube	25/- to 40/-
* Teak .....	"	40/- to 80/-

\* Prices vary considerably depending on specification.

Standard Panelled and Glazed Wood Doors to B.S. 459, Pt. I

Type 4 size 2' 6" × 6' 6" × 1½" .....	each	34/3
Type 2 × G size 2' 6" × 6' 6" × 2" .....	"	41/6
Type 4 × G size 2' 6" × 6' 6" × 2" .....	"	47/6

In lots of from 1 to 11 inclusive.

Wood Windows

N 26 V size 1' 5¼" × 2' 6¼" .....	each	23/2
2 26 V size 4' 0¼" × 2' 6¼" .....	"	46/4
N 40 V size 1' 5¼" × 4' 0¼" .....	"	26/4
3 40 V size 5' 11¼" × 4' 0¼" .....	"	81/11
4 40 V size 7' 10¼" × 4' 0¼" .....	"	103/-

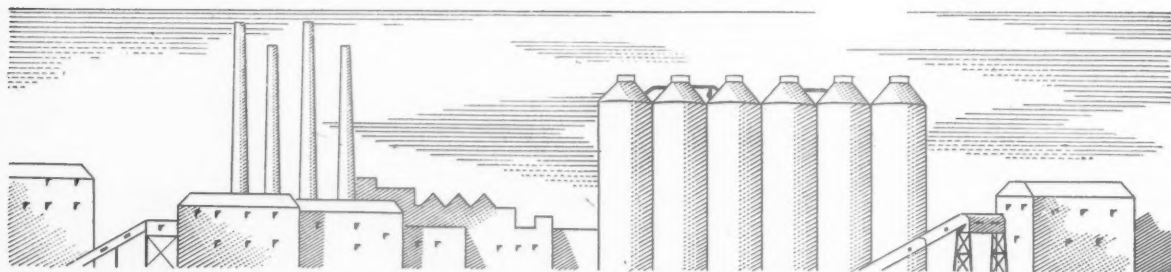
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No. 1 size 3' 6" × 2' 8" × 1' 7" .....	each	178/-
No. 2 size 3' 6" × 2' 8" × 1' 7" .....	"	123/5
No. 4 size 2' 8" × 1' 9" × 1' 7" .....	"	109/2
No. 5 size 3' 10" × 1' 9" × 1' 7" .....	"	94/10
No. 7 size 6' 6" × 1' 9" × 1' 7" .....	"	142/10

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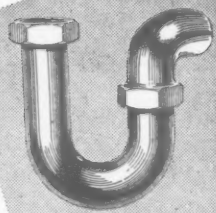
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## INFORMATION CENTRE

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### 13.108 materials: timber TIMBER RESEARCH

*Forest Products Research, 1952. DSIR. (HMSO, 1943. 3s.)*

Report of the year's work. Although a good deal of the work of FPRL is of importance to architects, this report is only of limited interest. For detailed information on the aspects of the research of direct use to architects, reference is best made to a number of the Station's publications. These, together with articles published during the year under review are listed in this report.

### 17.94 construction: general AMERICAN RESEARCH

*The BCSO Review of Science in USA for Year Ending June, 1952. (HMSO, 1953. 2s. 6d.)*

The British Commonwealth Scientific Office in Washington consists of missions from the UK, Canada, Australia, New Zealand and South Africa and exists primarily to facilitate liaison and the exchange of information. This 30-pp. report includes a very brief note on building research, including references to experiments on mortars containing polyvinyl acetate which seem to be promising. The new "SCR" brick, a perforated brick 11½ in. by 5½ in. and 2½ in. high, seems to speed up work and is apparently being used for single-storey construction. Slab-lifting now seems to be well established commercially in the USA, with over 500,000 sq. ft. of slab being lifted per year.

### 18.134 construction: theory PRESTRESSED CONCRETE

*Prestressed Concrete Statically Indeterminate Structures. Symposium, Sept., 1951. (CCA. 1953. 25s.)*

Symposium papers printed with discussion. Provides record of proceedings valuable to anyone concerned with prestressed concrete.

Two of the symposium papers were reviewed in the JOURNAL for Oct., 18, 1951. There were, in all, seven papers, mainly concerned with design, but also covering a number of practical aspects of the subject. The discussion which followed them was very interesting. This publication is unique in that it gathers together the opinions of more than thirty engineers. This, on a new subject, is of far more use to the reader than the single opinion expressed in a textbook.

Nearly 18 months after this symposium, M. Guyon gave a paper on continuity, from

which it appears that there is still some doubt as to the advantage of employing continuous members.

### 18.135 construction: theory WELDED STEELWORK

*Design of Structural Welded Details. F. H. Abrahams. (Association of Shipbuilding & Engineering Draughtsmen. 1953. 3s.)*

Revision of the author's 1945 pamphlet on welded details, now incorporates recommendations of BS 449:1948. Follows pattern of original work and same examples are used, the stresses being varied to suit BS 449:1948. The opportunity might have been taken to include most of the beam and column connections recommended by the British Welding Research Association. 75 pp., 47 diagrams, 4 tables.

### 23.184 heating and ventilation HEATING APPLIANCES

*Design of Coke Burning Appliances. F. J. Eaton (Journal of IHVE. April, 1953. pp. 1-37.)*

Design features of entire range of coke-burning appliances, from open fires to central-heating boilers.

Mr. Eaton stresses that the newer types of open fire can be precisely controlled and mentions that over 150,000 open fires with boilers large enough to supply domestic hot water and to heat up to 35 sq. ft. of radiator surface have already been installed in this country. This type of appliance seems particularly suitable for the occupier of a small house who can only afford to run one

appliance. There are now at least six suitable models on the market, and they will, of course, operate on coal as well as coke.

The "independent" open fire is very efficient and it is difficult to see why this type of appliance has not been developed more. It has the advantages both of the stove and the open fire and, although the early models were not particularly attractive, recent ones are much improved. We may yet see developed open fires with high rates of efficiency without any loss in their essential cheerfulness.

### 23.185 heating: ventilation PANEL HEATING

*Recent Studies and Applications of Radiant Heating in America. C. Tasker. (Journal of IHVE. April 1953, pp. 456-462.)*

Review of engineering research on panel heating in America.

Mr. Tasker deals with methods of controlling floor panel systems, the effect of the weight of the structure on the system and the determination of the heat output from ceiling panels.

The use of electric radiant heating panels of glass is of interest. These are usually rated at 1 kw. and run at a surface temperature of about 350° F. They can be fixed flush with the ceiling, suspended, used as skirtings or mounted on the wall in narrow strips. While, even in America, the price of electricity makes them expensive to run for general heating, they should be useful for special applications—in bathrooms, for example—since they appear to be unaffected by moisture; in fact, water may be poured on them while they are hot without causing damage.



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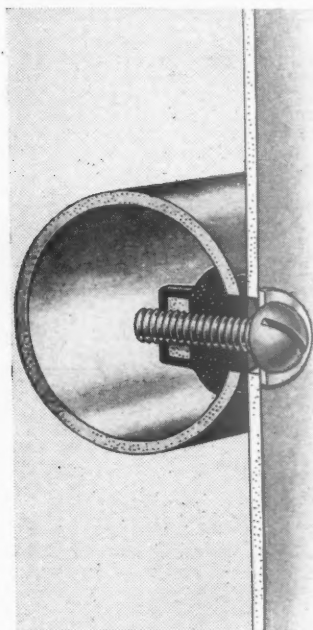
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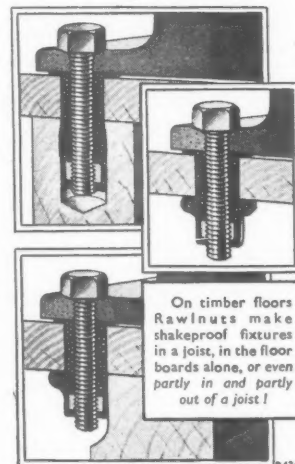
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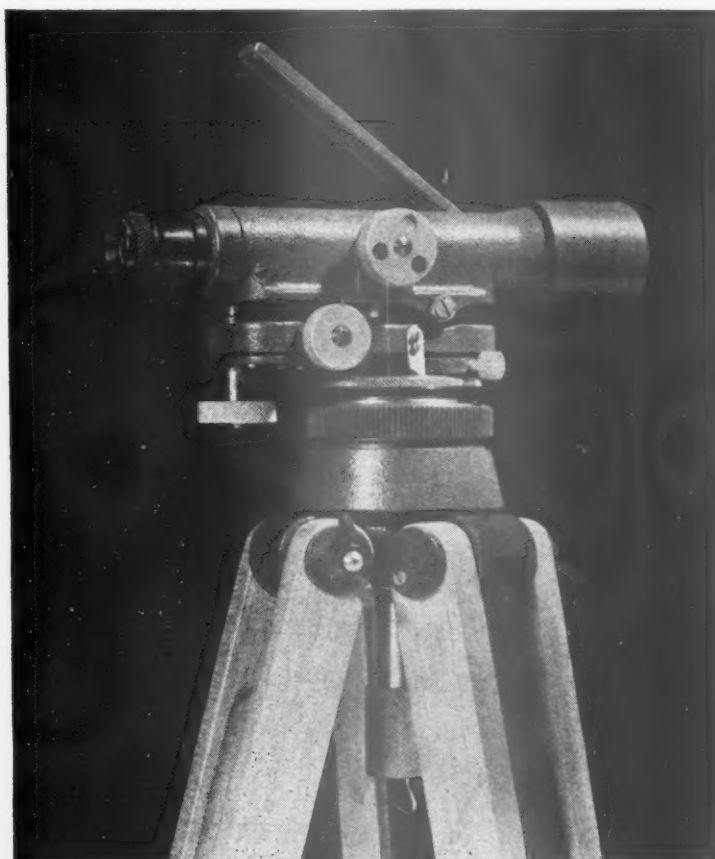
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## 23.186 heating: ventilation

## HEATING AND VENTILATION

Panel Heating; Some Practical Applications.  
H. H. Bruce. (Journal of IHVE, Sept. 1953.)

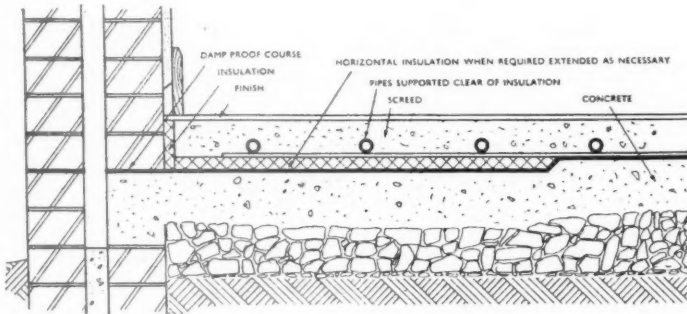
Summary of present practice in this country.

Mr. Bruce describes the application of floor and ceiling heating to houses, flats, hospitals, schools, churches and industrial buildings, and gives useful data on floor finishes over heated panels. Constructional details, which accompany the paper, illustrate the use of ceiling heating in conjunction with solid slabs, hollow beam construction and suspended ceilings.

Mr. Bruce discusses the problem of dis-

comfort arising as a result of using ceiling heating in rooms with low ceilings, and one is left with the impression that, even in rooms 9 ft. high, no difficulty should arise, provided the panels are in relatively narrow strips. Nevertheless, experience suggests that for rooms below, say, 10 ft. some assurance should be sought from the heating engineer that the possibility of discomfort has been considered and that the design is such as to minimize it.

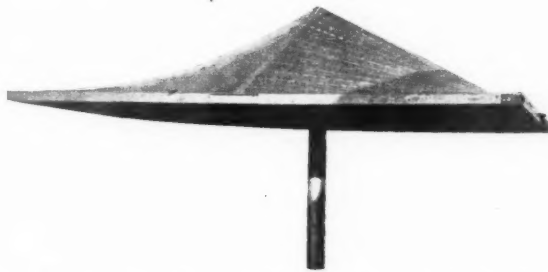
For 2-storey houses, the author favours ceiling heating embedded in a concrete first floor, rather than heating the ground floor, as has been done in most recently-completed house heating installations. Although there are only a few houses heated in the way



Panel heating: floor on made-up ground with membrane either sufficiently protected by insulation or of type not readily damaged nor affected by local heat. This type of arrangement is often used on dry sites without the Membrane. (An illustration from H. H. Bruce's paper, see item 23.186.)

## ALUMINIUM "UMBRELLA" ROOF NEEDS NO BEAMS

The photo, right, shows a 22-ft. square base hyperbolic paraboloid roof, with a 5-ft. rise, constructed of double curved sheets of aluminium 0.064 in. thick. The



roof is supported on a central steel pipe column and has no beams in its interior, although there are stiffeners extending from the centre to the sides and along the periphery. The structure was tested to 60 lb./sq. ft. over the whole surface and showed no permanent deformation on removal of the load. As shown in the photo, the roof was riveted, but for greater economy factory-made roofs would be made one quadrant at a time by twisting and stretching flat sheets in a single operation by a special machine. Since all the quadrants are identical they can nest together for transport, and the components for a 22-ft. square roof could be contained in an 11-ft. by 11-ft. by 8-in. thick package, weighing only 650 lb. The designer, Giorgio Baroni, plans to build 22-ft. and 40-ft. square bays using light gauge metal or metal bonded plywood. Mr. Baroni has already constructed somewhat similar concrete structures in Europe and South America. (For further information, see Architectural Forum [USA], January, 1953, pp. 150 and 151, and Engineering News Record [USA], January 1, 1953, p. 25.)

Mr. Bruce proposes, experience in these does not confirm his view.

While Mr. Bruce makes a number of points with which the reviewer does not agree, this is a valuable article. It is a pity, however, that there is no mention of cost, except the statement that "Panel heating for a single small house must be considered somewhat of a luxury." It may be at the moment, but must it always be?

25.101 water supply: sanitation  
HOUSE DRAINS

Drainage for Housing. BRS Digest No. 55. (HMSO. June 1953. 3d.)

A clear and useful guide to economic drainage from groups of small houses.

For some years now BRS, through Post-War Building Study Reports and other publications, has advocated a simplification of the drainage to groups of houses. Savings in cost can be considerable if its suggestions are followed and the publication of this Digest, coupled with the rational approach of the latest model byelaws, should assist in the adoption of these recommendations.

The most important thing recommended is the use of private sewers for connections from a group of houses, combined with a much more optimistic approach to the need for manholes. The Digest also deals with the sizes and gradients of drains, surface water drains, means of access to and methods of construction of manholes, and concrete protection to drains.

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

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## Buildings Illustrated

*Offices and Soil Testing Laboratory for Soil Mechanics Ltd. in Old Church Street, Chelsea, London, S.W.3. (Page 165.)* Architect: Cecil C. Handiside, A.R.I.B.A., in association with Hammett & Norton, A.A.R.I.B.A. Consulting engineer: Brown, O'Sullivan & Partners, A/M.I.C.E. General contractor: John Mowlem & Co. Ltd. General foreman: G. Hewson. Sub-contractors: foundations, Soil Mechanics Ltd.; bituminous felt, William Briggs & Sons Ltd.; structural steel, Scaffolding (Great Britain) Ltd. and Dexion Ltd.; partition slabs, Gyproc Products Ltd.; patent glazing, Aygee Ltd.; granolithic plaster, George Rome & Co. (London) Ltd.; central heating, Matthew Hall & Co. Ltd.; Potterton Gas boilers, Thomas De La Rue & Co. Ltd.; electric wiring, Electric Installations Ltd.; electric light fixtures, Troughton & Young (Lighting) Ltd.; ventilation, Keith Blackman Ltd.; sanitary fittings, John Bold- ing & Sons Ltd.; door furniture, Yannedis & Co. Ltd.; casements, window furniture, The Crittall Manufacturing Co. Ltd.; tele- phones, Siemens Bros. & Co. Ltd.; iron staircases, Scaffolding (Great Britain) Ltd.; metalwork, Allen & Greaves Ltd.; joinery, Clissold Joinery Ltd.; terrazzo, tiling, Cope & Co.; textiles, H. G. Dunn & Sons Ltd. and Storey & Co. Ltd.; furniture, H. G. Dunn & Sons Ltd.; laboratory fittings, A. Gallenkamp & Co. Ltd.; lifts, Stringer & Son (Cradley Heath) Ltd.; signs, The Letter- ing Centre.

*Health Centre for London County Council, Woodberry Down Estate, Green Lanes, Stoke Newington, N.16. (Pages 166-168.)* Architect: Robert H. Matthew, C.B.E., F.R.S.A., A.R.I.B.A., former Architect to the Council. Senior Architects (General Division): W. J. Durnford, F.R.I.B.A., and A. E. Miller, F.R.I.B.A.; mechanical and electrical services, J. Rawlinson, M.ENG., M.I.MECH.E., Chief Engineer to the Council.

General contractor: Tersons Ltd. Sub- contractors: aluminium alloy loft ladder, Loft Ladders Ltd.; steel doors, Haywards Ltd.; ironmongery, Lockerbie & Wilkin- son (Birmingham) Ltd.; external blinds, Tidmarsh & Sons; wall tiling, Parkinsons (Wall Tiling) Ltd.; "Semastic" tiling, Pilkington's Asphalte Co. Ltd.; composition flooring, Greenwood Flooring Co. Ltd.; terrazzo, Malacarp Terrazzo Co. Ltd.; sani- tary fittings, Dent & Hellyer Ltd.; wood strip flooring, Stevens & Adams Ltd.; rubber flooring, Lewis Gilder & Co. Ltd.; brick-colour surfacing, The En Tout Cas Co. Ltd.; "Rapid" precast floors, The Rapid Flooring Co. Ltd.; "Myko" roofs and cano- pies, The Artificial Stone & Concrete Co. Ltd.; fireplaces, Bratt Colbran Ltd.; recon- structed stone and precast concrete, Wet- tern Bros. Ltd.; joinery, Rippers Ltd.; floor and wall tiling, Harradine Rouse & Co.; paving stones, Noelite Ltd.

*Health Centre at Sighthill, Edinburgh, for the Department of Health for Scotland. (Pages 169-176.)* Architects: Robert Gardner-Medwin, F.R.I.B.A., M.T.P.I., former chief architect, Department of Health for Scotland; Robert Morton, A.R.I.B.A., A.M.T.P.I., deputy chief architect for special buildings; John Ogilvie, A.R.I.B.A., and George Lawrence, A.R.I.B.A., M.T.P.I., senior archi- tects responsible for development of design and supervision; Eric Hall, A.R.I.B.A., assist- ant architect; R. J. Walker, A.R.I.B.A., D. A. MacGillivray, R. E. A. Eadie, assistants. Clerk of works: R. Harkess. Consultant structural engineer: W. A. Fairhurst, M.I.STRUCT.E. (F. A. Macdonald & Partners). Consultant heating engineer: Oscar Faber & Partners. Consultant quantity surveyor: P. W. Dixon, M.B.E., A.R.I.C.S. (James D. Gibson & Simpson). Contractors: excava- tion and reinforced concrete work, Fram Reinforced Concrete Co.; masonry and brickwork, John Martin & Co. Ltd.; asphalt, Neuchatel Asphalte Co. Ltd.; copper roof- ing, F. Brady & Co. Ltd.; metal windows, Williams & Williams Ltd.; carpentry and

joinery, Nathaniel Grieve; glazier, James Thow Ltd.; plaster, D. & J. Borthwick; plumbing work, William Barton & Sons Ltd.; electrical installation, Drake & Gor- ham (Contractors) Ltd.; electrical floor heat- ing, Electric Panels Ltd.; ironwork, Thomas Hadden and James Blake & Co.; painting, T. W. Scott; roads and paths, H. V. Smith; garden layout, Young & Thomson. Sub- contractors: steelwork, Ayrshire Dockyard Co. Ltd.; steel erection, M. Barr; precast concrete work and facing slabs, Edinburgh Cast Stone Co.; dampcourses, Wm. Briggs & Sons Ltd.; reinforced "Gypklith," Gyproc Products Ltd.; wood block flooring, A. M. Macdougall & Son Ltd.; cork floors, Arm- strong Cork Co. Ltd.; "Colterro" lath for suspended ceilings, W. H. Colt (London) Ltd.; linoleum, Korkoid Decorative floors; terrazzo, Toffolo Jackson & Co.; thermo- plastic tiles and cement rubber latex floor- ing, Semtex Ltd.; water tank, Braithwaite & Co. Structural Ltd.; furniture, George M. Hammer & Co. Ltd., Russell Furnishings Ltd., Ernest Race Ltd., S. Hille & Co. Ltd., The Scottish Co-operative Wholesale Society Ltd., Rowan & Bowden Ltd.; soft furnis- ings, Martin & Son (Edinburgh) Ltd.

## Announcements

Ian Henderson Ltd., furniture designers, have produced a new range of furniture in association with Nicholls and Janes Ltd., of High Wycombe. This furniture can be obtained from specialist agents in the UK and from 184, Sloane Street, S.W.1. The new range is in Australian black bean with an inlaid cherrywood line. All pieces for the dining room, bedroom, sitting room and study are available, as well as desks for offices, etc. Bedroom pieces will soon be available in weathered sycamore at the same price. Other available woods can be used for special contract work. Upholstered furniture is to be produced by Beresford & Hicks Ltd. Exclusive covering materials are in production and may be available in the autumn.

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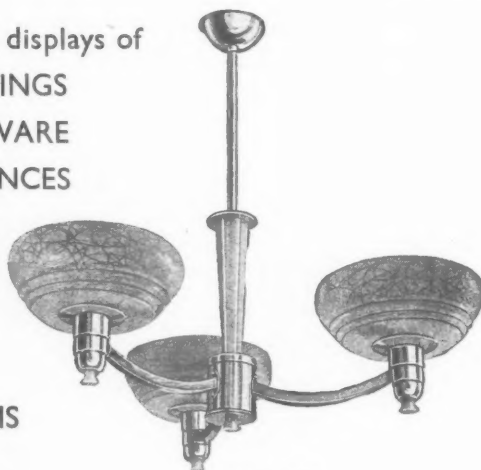


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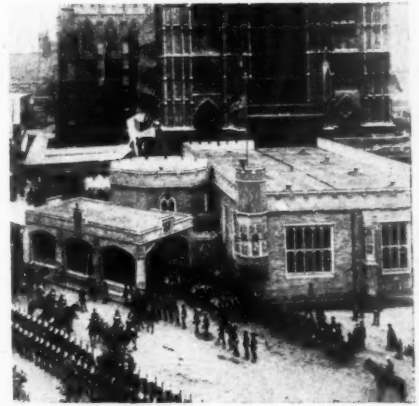
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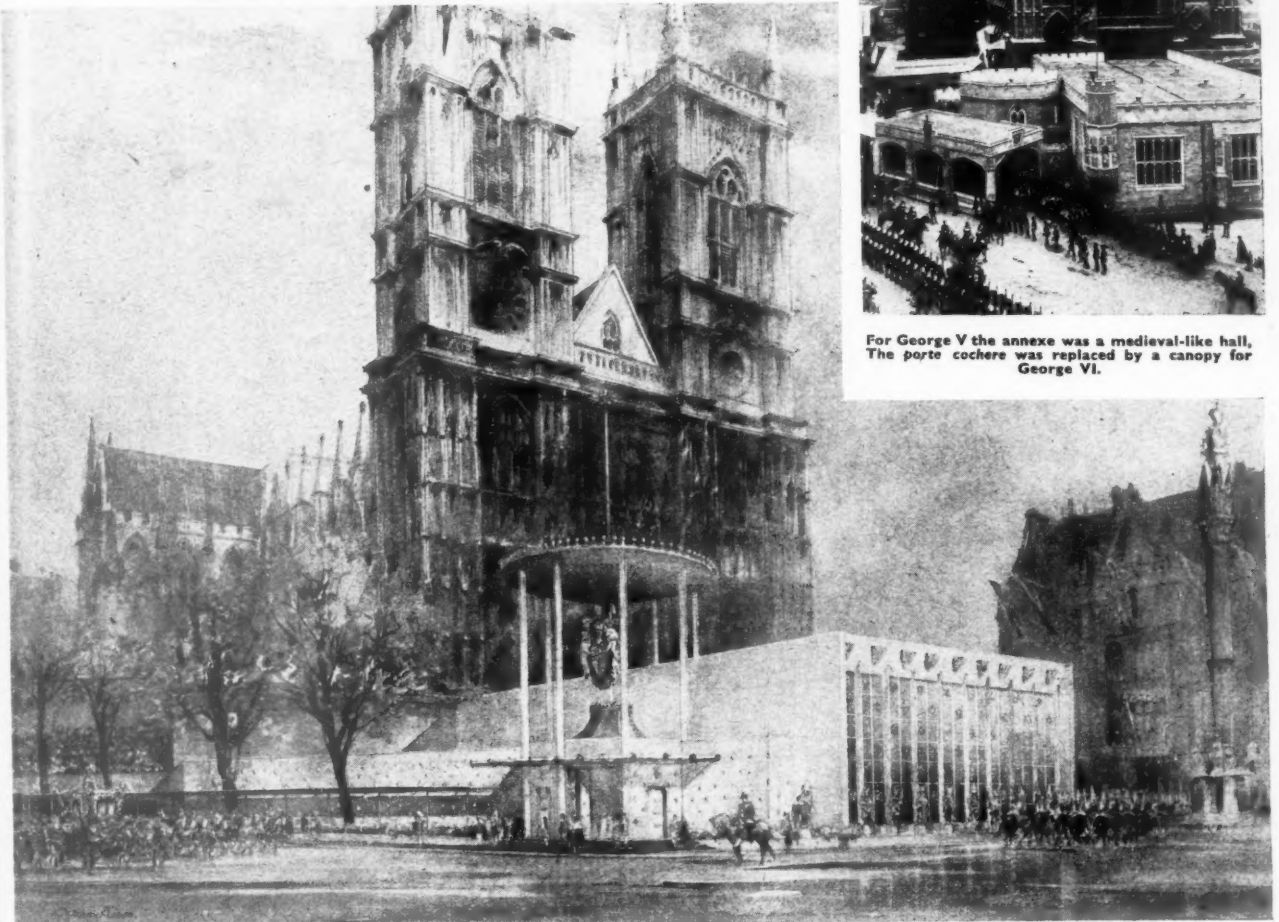
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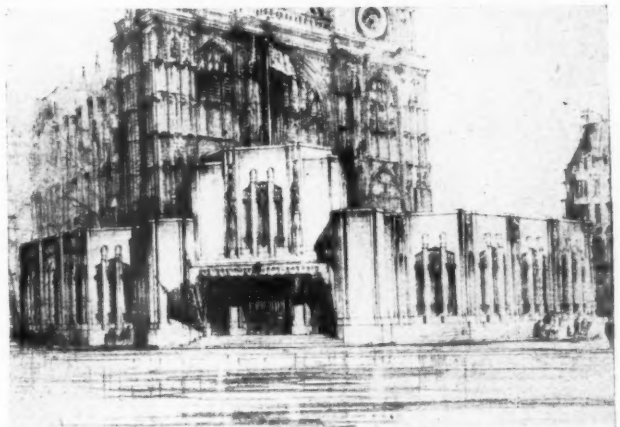
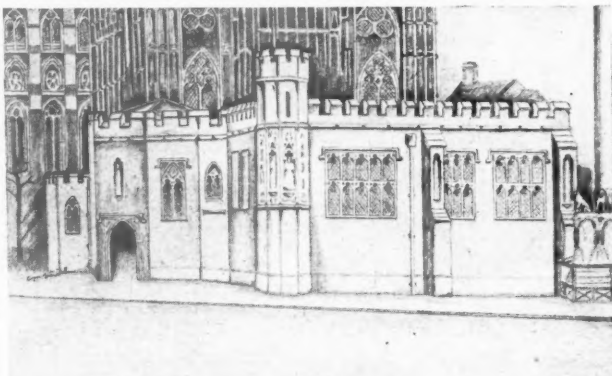
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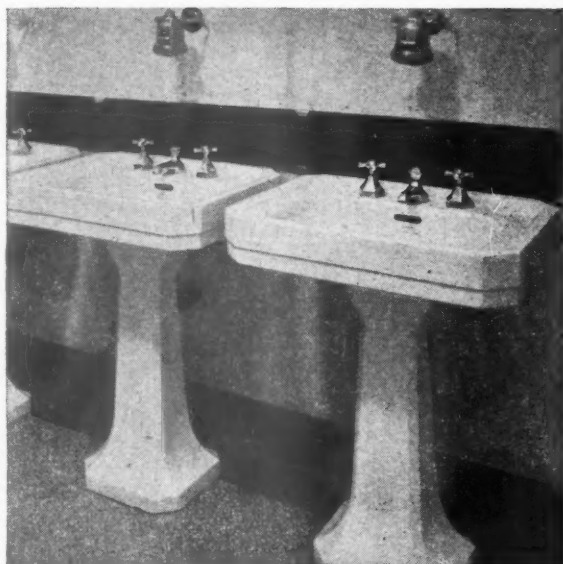
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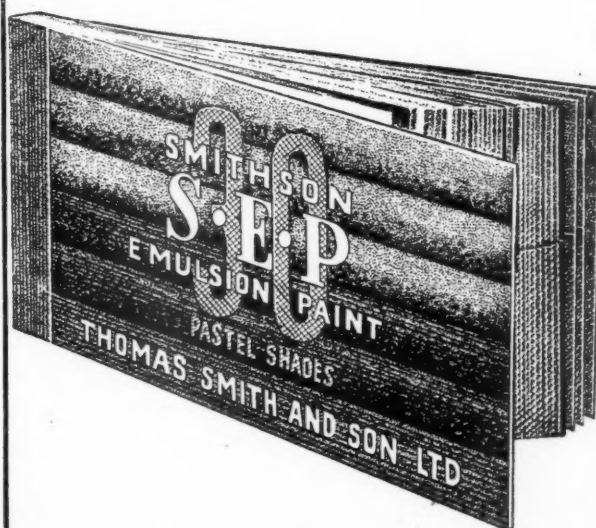
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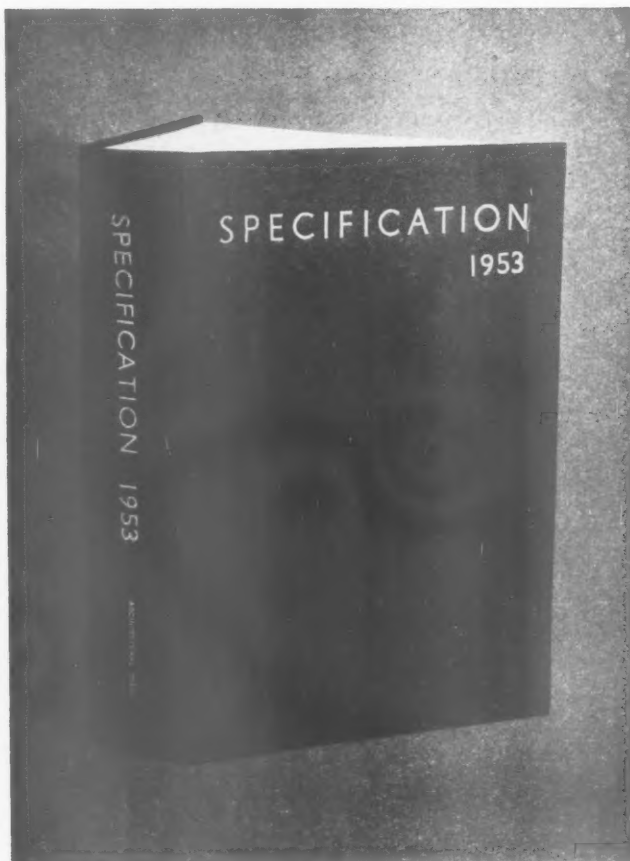
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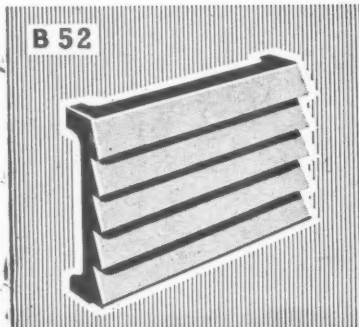
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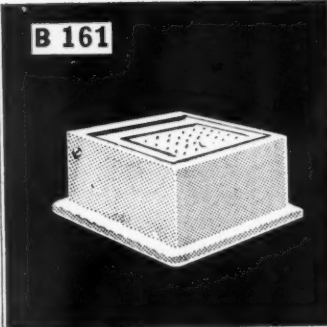
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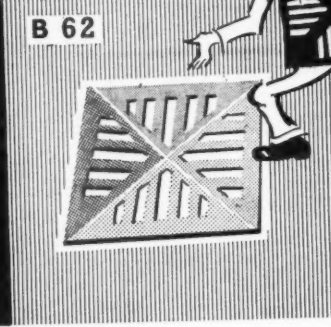
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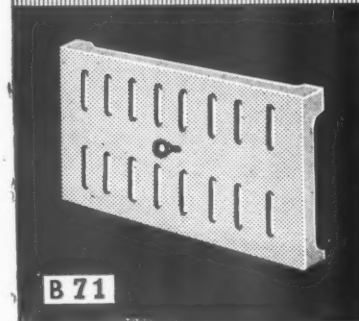
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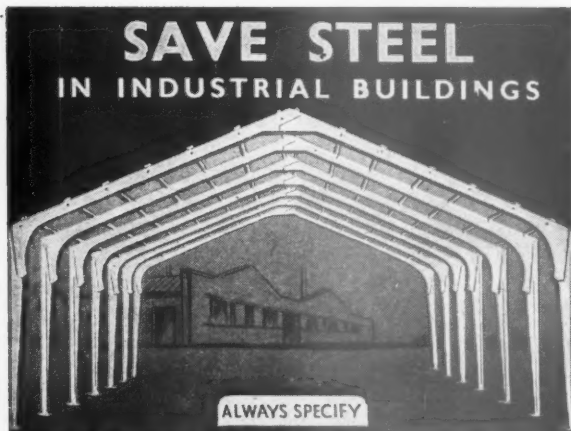
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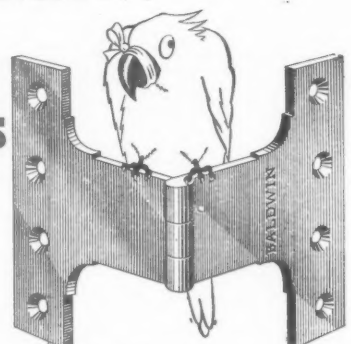
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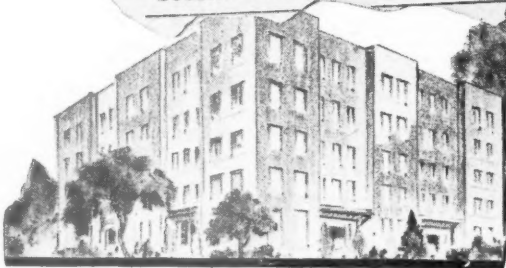
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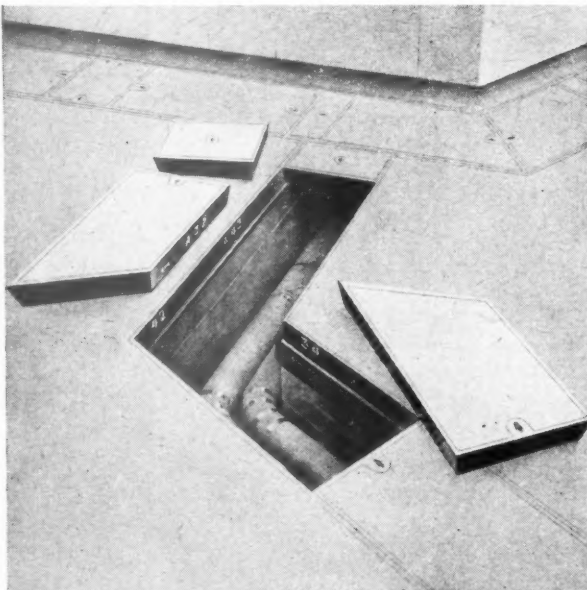
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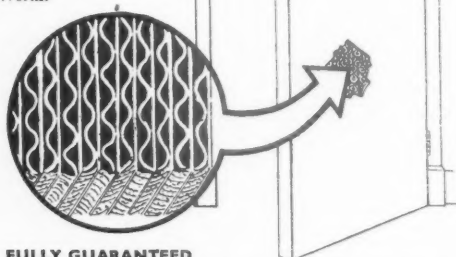
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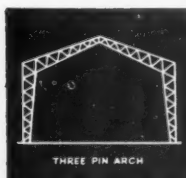
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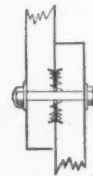
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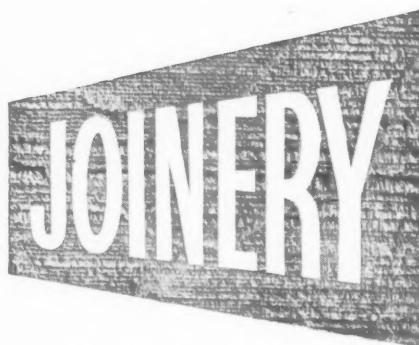


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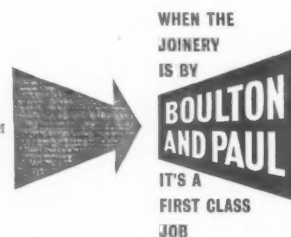
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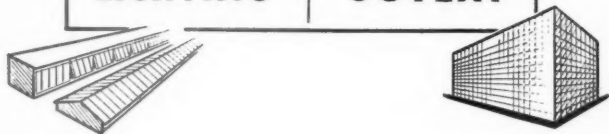
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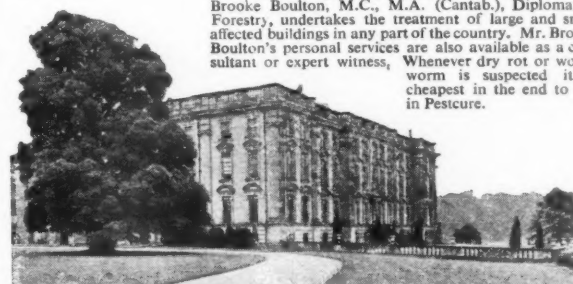
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## BOROUGH OF WIDNES.

BOROUGH ARCHITECT'S DEPARTMENT.  
Applications are invited for the appointment of ASSISTANT ARCHITECT, at a salary in accordance with A.P.T. Grade VI, of the National Scale of Salaries, commencing at the minimum of the grade.

Applicants must be Registered Architects and Associate Members of the Royal Institute of British Architects; they must have had considerable experience in the design and construction of modern schools.

The appointment will be subject to the National Scheme of Conditions of Service as adopted by the Council, and to the Local Government Superannuation Act, October, 1937, and to the successful candidate passing a medical examination.

Housing accommodation will be provided if needed.

Applications, stating full particulars of age, experience and qualifications, present position and salary, etc., together with names and addresses of two referees, should be sent to the Borough Architect, Brendon House, Widnes Road, Widnes, not later than Monday, 24th August, 1953.

Canvassing directly or indirectly will disqualify.

FRANK HOWARTH,

Town Clerk.

Town Hall, Widnes.

20th July, 1953. 9228

## URBAN DISTRICT COUNCIL OF CORBY.

## ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the department of the Engineer and Surveyor, at a salary in accordance with Grade V, A.P.T. Division of the National Scale of Salaries (£595-£645) commencing at £595 per annum.

Candidates must be Registered Architects, and should have considerable experience in design, construction and contract administration. Experience of the design and erection of blocks of shops would be an advantage.

The provisions of the Local Government Superannuation Act, 1937, will apply.

The tenancy of a Council house will be offered to the successful candidate if married.

Forms of Application, to be obtained from the undersigned, should be completed and submitted not later than noon on Thursday, the 27th August, 1953.

G. B. BLACKALL,

Clerk of the Council.

Council Offices, Corby, Northants.

27th July, 1953. 9260

SALOP COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.  
APPOINTMENT OF ASSISTANT BUILDING SURVEYOR.

Applications are invited for this appointment. Salary grade A.P.T. V. (£595 p.a. rising by annual increments to £645 p.a.).

Applicants should have passed the Final Examination of the R.I.C.S. (Sub-Division III(B)) and must be capable of preparing plans, working drawings and specifications for minor alterations and improvements to buildings, including the installation of small sewage disposal plants.

A separation allowance of not exceeding 30s. per week will be paid to a married officer taking up this appointment, together with third-class return railway fare once a month to visit his family, such allowances to be limited to a period of six months or until such time as the officer is able to obtain accommodation for himself and his family in Shropshire, whichever is the earlier.

Application forms may be obtained from the County Architect, Column House, London Road, Shrewsbury, to whom they must be returned, accompanied by copies of three recent testimonials, not later than Friday, 21st August, 1953.

G. C. GODBER,

Clerk of the Council.

Shrewsbury.

July, 1953. 9248

SALOP COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.  
APPOINTMENT OF ASSISTANT CHIEF MAINTENANCE OFFICER.

Applications are invited for this appointment. Salary grade A.P.T. V. (£595 p.a. rising by annual increments to £645 p.a.).

The person appointed will be required to assist the Chief Maintenance Officer in the maintenance and repair of public buildings, including the organisation and supervision of Building Inspectors. Applicants must have had practical experience of building maintenance, including the preparation of reports and specifications. Preference will be given to a candidate who has passed the Final Examination of the R.I.C.S. (Sub-Division III(B)).

A separation allowance of not exceeding 30s. per week will be paid to a married officer taking up this appointment, together with third-class return railway fare once a month to visit his family, such allowances to be limited to a period of six months or until such time as the officer is able to obtain accommodation for himself and his family in Shropshire, whichever is the earlier.

Application forms and particulars of the appointment may be obtained from the County Architect, Column House, London Road, Shrewsbury, by whom they must be received, accompanied by copies of three recent testimonials not later than Friday, 21st August, 1953.

G. C. GODBER,

Clerk of the Council.

Shrewsbury.

July, 1953. 9249

GLOUCESTERSHIRE COUNTY COUNCIL.  
APPOINTMENT OF BUILDING INSPECTOR.

Applications are invited for the appointment of a BUILDING INSPECTOR in the County Architect's Department, at a salary of £555 p.a., rising up to £600 p.a. (A.P. & T. Grade IV, of the National Joint Councils' Scheme of Conditions of Service).

Candidates must have had a sound experience of the building trade, be competent to carry out inspections of buildings, their furnishing and equipment, prepare Specifications and Estimates of costs of repairs required, set out works, supervise their execution, measure up on completion, and check accounts.

The appointment is terminable by one month's notice on either side, and is subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing satisfactorily of a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Shire Hall, Gloucester, not later than Wednesday, the 12th August, 1953.

GUY H. DAVIS,

Clerk of the County Council.

Shire Hall, Gloucester.

27th July, 1953. 9263

COUNTY BOROUGH OF HUDDERSFIELD.  
Applications are invited for the following appointments in the Borough Architect and Planning Officer's Department:—

(a) SENIOR QUANTITY SURVEYOR, Grade VIII, Salary £760-£835.

(b) QUANTITY SURVEYOR, Grade VII, Salary £710-£785.

Housing accommodation will be provided for the successful applicants if required.

Applicants must have experience in the preparation of bills of quantities, specifications, estimates, and the settlement of final accounts, and preference will be given to associates of the Royal Institute of Chartered Surveyors.

Conditions of service are those formulated by the National Joint Council, and the appointments are subject to the provision of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.

Applications, suitably endorsed, together with the names of two referees, should be delivered to the Borough Architect and Planning Officer, High Street Buildings, Huddersfield, not later than the 21st August, 1953.

HARRY BANN,

Town Clerk.

Town Hall,

Huddersfield.

July, 1953. 9276

## NATIONAL COAL BOARD—SOUTH-WESTERN DIVISION.

Applications are invited for the following posts in the Divisional Architect's Branch of the National Coal Board, South-Western Division, Cardiff.

The posts will be on a temporary basis for a minimum period of 12 months and will not be superannuable:—

(a) ARCHITECTS, Grade II.  
Salary scale: (male) £600 × £25-£650 × £30-£900 per annum; (female) £575 × £20-£775 per annum.

Applicants must be Associate Members of the Royal Institute of British Architects, with at least 12 months' subsequent office experience, and must be thoroughly experienced in the design and construction of large industrial buildings and be capable of preparing sketch plans, working drawings and details, with the minimum of supervision.

(b) ARCHITECTURAL ASSISTANTS, Grade I.  
Salary scale: (male) £525 × £25-£550 per annum; (female) £420 × £20-£520 per annum.

Applicants should have passed the Intermediate Examination of the R.I.B.A., and have had at least three years' subsequent practical office experience, or should have passed the Final Examination of the R.I.B.A. and be able to prepare sketch plans, working drawings and details.

(c) ARCHITECTURAL ASSISTANTS, Grade II.  
Salary scale: (male) £440 × £20-£540 per annum; (female) £352 × £15-£432 per annum.

Applicants should have passed the Intermediate Examination of the R.I.B.A., and have a sound knowledge of construction and be capable of preparing general office drawings under supervision.

Applications, in writing, stating post applied for, age, education, qualifications, details of experience, present appointment and salary and giving the names of two professional referees, should be sent to Establishments Branch, National Coal Board, Cambrian Buildings, Mount Stuart Square, Cardiff, not later than Wednesday, 12th August, 1953. 9267

BRITISH ELECTRICITY AUTHORITY.  
EAST MIDLANDS DIVISION.

Applications are invited for the following positions within the Division:—

CIVIL ENGINEERING DRAUGHTSMEN, Construction Department. (Vacancy No. 22/53.)

Candidates should have experience in design and detail of re-inforced concrete structures, piled and slab foundations for heavy plant, culverts, cable subways, etc., for general building construction drainage and sanitation schemes, associated with office and administrative buildings.

The salary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

ENGINEERING DRAUGHTSMEN (MECHANICAL), Construction Department. (Vacancy No. 44/53.)

Senior Draughtsmen are required in the Mechanical section of the Construction Department at North Wilford Power Station. Candidates should have experience in one or more of the following:—

(i) Design and layout of Power Station equipment, including Turbo-alternators, Boiler Plant, Coal and Ash Plant, and General Station Auxiliaries.

(ii) H.P. and L.P. steam and feed pipework. Condensing plant and feed heating systems.

(iii) Conveyor plant, coal handling systems and material handling of station auxiliary equipment.

Salary and conditions of service will be in accordance with the National Joint Board Agreement, Grade 5 (£567-£671 per annum) and Grade 6 (£433-£567 per annum) of Schedule D, according to experience.

ENGINEERING DRAUGHTSMEN (ELECTRICAL), Construction Department. (Vacancy No. 61/53.)

Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. switchgear, transformers, E.H.T. and L.T. cables; knowledge of protective gear systems would be an advantage.

The salary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

The above appointments will be superannuable within the provisions of the British Electricity Authority and Area Board Superannuation Scheme.

Applications should be submitted on the official form, which may be obtained from the Divisional Establishments Officer, British Electricity Authority, Barker Gate, Nottingham, and should be returned to the Divisional Controller. Please quote Vacancy Number.

L. F. JEFFREY,

Divisional Controller.

9268

## BOROUGH OF EALING.

TWO CLERKS OF WORKS (temporary) required for supervision of Housing Contract. Salary: £650 p.a., and otherwise in accordance with the Scheme of Conditions of Service for the Miscellaneous Class of Officers. Candidates must be thoroughly experienced, and preference will be given to members of The Institute of Clerks of Works of Great Britain Incorporated. No housing accommodation. Canvassing disqualifies. Form of application, further particulars, etc., from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5. Completed applications to the undersigned not later than 17th August, 1953.

Town Hall, Ealing, W.5. 9258

D. J. COPE-ROTTON

Town Clerk.

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Clerk.

STAFFORDSHIRE COUNTY COUNCIL.  
EDUCATION COMMITTEE.

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

1. QUANTITY SURVEYORS, Grades A.P.T. IV/VI according to qualifications and experience. Preference will be given to members of the R.I.C.S. (Quantities Sub-Division), or the I.Q.S. Applicants to state their experience in "Working up," "Estimating," "Measuring on Site," "Adjustment," and "Settlement of Final Accounts."

2. SPECIFICATION WRITER up to Grade A.P.T. IV according to experience. Applicants should have a thorough knowledge of the building trade, and some years of experience in specification writing.

3. JUNIOR ARCHITECTURAL ASSISTANTS, Grades A.P.T. II/IV.

Applications to be submitted as soon as possible to A. C. H. Stillman, Esq., F.R.I.B.A., Education Architect, Green Hall, Lichfield Road, Stafford.

T. H. EVANS,  
Clerk of the County Council. 9271

PORTSMOUTH COLLEGE OF ART.  
Principal: W. J. L. GAYDON, A.R.C.A.

Head of School of Architecture:  
A. C. TOWNSEND, Dipl. Arch. (L'pool), F.R.I.B.A.

Applications are invited for a full-time ASSISTANT STUDIO MASTER AND LECTURER in Constructional Design.

Applicants should hold the A.R.I.B.A. and preferably a Degree or Diploma of a recognised school. Salary in accordance with the Burnham Technical Scale, Grade B, £490 x £25-£765 per annum, with additional allowances for training, qualifications and experience.

Full particulars of the appointment and application form from the Registrar, College of Art, Guildhall Square, Portsmouth.

E. G. BARNARD, M.A.,  
Chief Education Officer. 9262

URBAN DISTRICT OF FELTHAM.

TWO TEMPORARY ARCHITECTURAL ASSISTANTS required. Salaries £765 per annum. Applicants must be Registered Architects and have had experience chiefly in Local Authority Housing.

Forms of application, obtainable from the undersigned, must be returned, accompanied by copies of two testimonials, not later than 4th September, 1953. Canvassing directly or indirectly, will disqualify and applicants must disclose, in writing, whether to their knowledge they are related to any member of or the holder of any senior office under the Council.

M. W. COUPE,  
Clerk of the Council. 9274

COVENTRY CORPORATION require ASSISTANT ARCHITECTS A.P.T. VII (£710-£785) and A.P.T. VIII (£760-£835). Application forms and conditions from City Architect, Bull Yard, Coventry, to be returned by 31st August. State for which post applying. 9270

BIRMINGHAM REGIONAL HOSPITAL BOARD require DEPUTY TO THE REGIONAL ARCHITECT. The Architect's Department includes architectural quantity surveying and engineering sections. Applicants must be Registered Architects, F( or A) R.I.B.A. Good administrative and architectural experience essential, including knowledge of hospital building design and construction. Previous local authority experience an advantage. Salary scale £1,200 by £50 to £1,400. Superannuable appointment subject to P.T.B. 19 and 20, medical examination and three months' notice. Write stating age, qualifications and experience, naming three referees to Secretary, 10, Augustus Road, Birmingham, 15, by 21st August, 1953. 9287

COUNTY BOROUGH OF ROCHDALE.  
BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for a qualified ARCHITECTURAL ASSISTANT, Grade A.P.T. V (£595-£645 per annum). If applicant partially qualified, an appropriate lower grade will be paid until qualification obtained.

Experience in the preparation of Bills of Quantities will be an advantage.

The appointment will be subject to the provision of the Local Government Superannuation Acts, and to the selected candidate passing a medical examination. Canvassing is prohibited, and candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council.

Application, stating age, qualifications, and full particulars of experience, together with the names and addresses of two persons to whom reference may be made, must be delivered to the Borough Surveyor, Town Hall, Rochdale, not later than Monday, the 31st August, 1953. Envelopes endorsed "Architectural Assistant."

K. B. MOORE,  
Town Clerk. 9264

EASTERN ELECTRICITY BOARD.  
NORTHMET SUB-AREA.

ENGINEERING DRAUGHTSMEN—SUB-AREA HEADQUARTERS (Ref. No. 391).

Applications are invited for the appointment of Engineering Draughtsmen in the Civil Engineering and Buildings Drawing Office, Northmet House, Southgate, London, N.14.

Candidates should have had the requisite training and experience to be able to prepare plans and detailed drawings of buildings and civil engineering works for sub-stations, service centres, workshops and offices.

The salary will be in accordance with Grade 6, Schedule D, of the National Joint Board Agreement, at present up to £595 p.a., inclusive of London allowance. Future salary and conditions of service will be in accordance with agreements made from time to time by the appropriate negotiating bodies.

The successful candidate will be required to contribute to a Superannuation Scheme, and may be required to undergo a medical examination.

Applications, by letter, stating age, education, qualifications and experience, with details of present appointment, should be submitted to the Manager, Northmet Sub-Area, Eastern Electricity Board, Northmet House, Southgate, London, N.14, so as to be received not later than Monday, 10th August, 1953. 9279

RURAL DISTRICT COUNCIL OF  
BARNARD CASTLE.

APPOINTMENT OF TEMPORARY  
ARCHITECTURAL ASSISTANT.

Applications are invited for the Appointment of TEMPORARY ARCHITECTURAL ASSISTANT in the Housing Architect's Department of the Council.

Salary in accordance with A.P.T. Grade II (£495-£540, commencing at the minimum of the Grade).

Applicants should be experienced in Local Authority Housing Work, and have a knowledge of Quantities.

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

Applications endorsed "Temporary Architectural Assistant," stating age, qualifications and experience, together with copies of two recent testimonials must reach the undersigned not later than Saturday, the 22nd August, 1953.

HARRY T. LEONARD,  
Clerk to the Council.

Council Offices,  
43, Galgate.  
Barnard Castle.  
31st July, 1953. 9269

BEESTON AND STAPLEFORD URBAN  
DISTRICT COUNCIL.

Applications are invited from experienced Architectural Assistants for the following appointment in the Engineer and Surveyor's Department: SENIOR ARCHITECTURAL ASSISTANT, A.P.T. Grade VI (£610-£735).

Applicants should be Registered Architects and/or Associate Members of the Royal Institution of British Architects, and should have practical experience in the design of housing estates and general municipal buildings.

The appointment will be in accordance with the National Scheme of Conditions of Service.

Applications, together with the names of two persons to whom reference may be made, should be sent to the undersigned not later than 22nd August, 1953.

Candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council. Canvassing directly or indirectly will be a disqualification.

H. D. JEFFRIES,  
Clerk of the Council.

Town Hall,  
Beeston, Nottingham. 9277

ISLE OF ELY COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned appointments on the staff of the County Architect:

(a) QUANTITY SURVEYOR'S CLERK. Grade Miscellaneous III, £375 to £440 p.a.

(b) ASSISTANT in Heating and Engineering Section. Grade A.P.T. I, £465-£510 p.a.

The appointments are permanent, subject to the provisions of the National Scheme of Conditions of Service, the Local Government Superannuation Act, and to the passing of a medical examination.

Applications, stating age, education, qualifications and experience, accompanied by two recent testimonials, should reach the County Architect, County Hall, March, not later than Monday, 17th August, 1953.

R. F. G. THURLOW,  
Clerk of the County Council. 9282

NOTTINGHAM AND DISTRICT TECHNICAL  
COLLEGE.

NEW COLLEGE BUILDINGS.

A CLERK OF WORKS is required to begin during the third quarter of 1953 on this £750,000 project. Applicants should write within two weeks to the Architects, Messrs. Cecil Hewitt & Partners, St. Andrew's House, Mansfield Road, Nottingham, stating qualifications and salary required.

F. STEPHENSON,  
Clerk to the Joint Education Committee.

Education Office, South Parade,  
Nottingham. 9259

Tenders for Contracts

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

METROPOLITAN BOROUGH OF  
CAMBERWELL.

PERMANENT HOUSING SCHEMES.

PANELS OF CONTRACTORS.

The Council invite applications from contractors who wish to submit tenders for the erection of dwellings in future permanent housing schemes. Three panels will be compiled covering (a) work up to £10,000; (b) work from £10,000 to £25,000; (c) work from £25,000 to £50,000. A limited number of applicants will be selected for each panel, but the Council reserve the right to add from time to time other firms to the panels.

Applications, stating for which panel(s) the application is made, together with a statement of recent housing contracts, or other work carried out and the names of referees, should be sent to the Town Clerk, Town Hall, S.E.5, not later than 19th August, 1953.

Firms selected to tender will be required to state on the tender form whether they are parties to schemes such as that operated by the London Builders' conference relating to the submission of tenders.

A deposit of two guineas will be required subsequently in respect of each tender submitted for

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STAIRWAY HOUSE, COURTHILL ROAD, LEWISHAM LONDON S.E.13. PHONE: LEE GREEN 4334-9.



categories (a) and (b) and five guineas in respect of category (c). Deposit will be returnable on receipt of a bona fide tender.

The Council reserve the right to make such enquiries into the bona fides of applicants as may be deemed necessary, and do not bind themselves to invite every applicant to tender or to accept the lowest or any tender.

August, 1953.

9281

### 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 is, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

**ASSISTANT** required for large general Architectural Practice with offices in Maidenhead. Some experience in specification writing essential. Salary £300 to £500, according to experience. Box 8933.

**ASSISTANTS** required in Architect's Department of large commercial organization. Sound all round training in the profession essential, including supervision of work. Excellent opportunities for men of initiative. Apply in writing, giving details of experience, age, and salary required, to Box 3646/1, Foster Turner & Everetts Ltd., 11, Old Jewry, E.C.2. 9193

**ARCHITECTURAL ASSISTANTS** required immediately with 3 to 5 years' experience. Good salary and prospects. 5 day week. Write to Messrs. J. M. Sheppard & Partners, 38, Bedford Place, W.C.1, giving particulars of age, qualifications, experience and salary required. 9265

**ARCHITECTURAL ASSISTANTS**, Intermediate R.I.B.A. standard with office experience required in small private office. Write stating experience and salary required to S. W. Wendes, 29a, Lagley Street, Newport, I.W. 9266

**ARCHITECTURAL ASSISTANT** required in country practice in North Essex. Salary £350. Write, stating experience, etc., to Box 9278.

**ASSISTANT** required for small London office for industrial work and housing with contemporary outlook. Good quick draughtsman, with previous office experience. Salary: £450 to £500 p.a., with prospects, for a keen young man. Write, stating full details. Box 9261.

**ARCHITECTURAL DRAUGHTSMEN**, up to Inter. R.I.B.A. standard, required. Westminster area. Write, stating experience and salary, to Box 9187.

**ARCHITECTURAL ASSISTANT**, Intermediate R.I.B.A. Standard with office experience, required in small private office. Write stating experience and salary required, to Robert S. Shaw, A.R.I.B.A., 402, Bitterne Road, Southampton. 9118

**THE CO-OPERATIVE WHOLESALE SOCIETY LTD.**, invite applications for the appointment of Assistant Architects on the staff of the Manchester Architect's Department.

Applicants should be of Intermediate R.I.B.A. standard with good practical office experience, and capable of preparing sketch plans, working drawings and details under supervision of Senior Architects.

The appointments are permanent with prospects of promotion. Successful candidates will be required to undergo a medical examination for entry into a compulsory Superannuation Scheme.

Applications stating age, experience, qualifications and salary required to G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester. 9276

**ARCHITECT** in South-West London requires **SURVEYOR** or **ASSISTANT**, age about 30, for Specification Writing, Schedules, Reports, etc., with thorough knowledge of building construction. Reply, stating salary and full particulars, to Box 9286.

**SURVEYOR**, with offices in the City, E.C.4, would like to let part to Architect, preferably one able to give advertiser periodic assistance. (See also under "Miscellaneous".) CEN. 8484. 9283

### Architectural Appointments Wanted

**A. R.I.B.A.**, aged 35, varied experience, seeks responsible position as Chief or Senior Assistant. Salary not less than £900 per annum. Box 9211.

**ARCHITECTURAL** appointment required in London. R.I.B.A. Final standard. Seeks varied office experience. Moderate salary. Box 737.

**ARCHITECTURAL ASSISTANT**, with wide experience 15 years, sound building knowledge, working drawings, reinforced concrete, seeks post, London or elsewhere. Box 736.

**A. R.I.B.A.** (36), 17 years' experience, Associate Partner well known firm, requires new responsible post. 9273

**ARCHITECTURAL STUDENT** taking Inter. in November requires post in Edinburgh from second week in September. Box 734.

### Other 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 excepted from the provisions of the Notification of Vacancies Order, 1952.

**REQUIRED. — DRAWING OFFICE MANAGER AND TECHNICAL EDITOR** for Architectural Magazine. Applicants must be first-class draughtsmen, possess a sound knowledge of building practice, and be interested in the preparation of technical data; salary according to experience. Applications in writing only, to the Organising Secretary, The Architectural Press, Ltd., 9-13, Queen Anne's Gate, London, S.W.1. 9158

**QUANTITY SURVEYORS** required by large firm of Building Contractors in the West of Scotland, in the following grades:—

(1) **ESTIMATING SURVEYOR**. Must have considerable experience in scheduling, estimating, and preparation of tenders. Commencing salary: £200-£1,000 per annum.

(2) **SENIOR SURVEYORS**. Thorough knowledge of the preparation of schedules for all trades, schedules of materials and remeasurement of all trades. Commencing salary range: £600-£800 per annum.

(3) **JUNIOR SURVEYORS**. Experience in remeasurement and some knowledge of scheduling. Commencing salary range: £350-£500.

Commencing salary in each grade will depend upon qualifications and experience. Staff Pension Scheme in operation. Applications, stating full particulars of previous experience and age, should be addressed to Box 9272.

### For Sale or Wanted

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

**RECONDITIONED EX-ARMY HUTS**, and manufactured buildings. Timber, Asbestos, Nissen type, Hall type, etc. All sizes and prices. Write, call, or telephone, Universal Supplies (Belvedere), Ltd., Dept. 25, Crabtree Manorway, Belvedere, Kent. Tel.: Erith 2948. 6803

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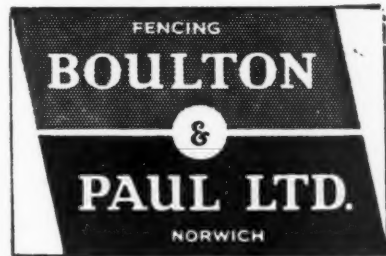
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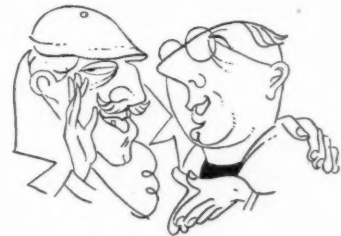


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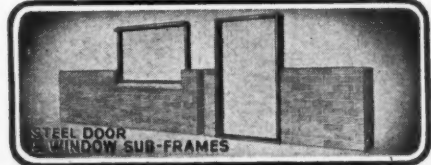


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# Alphabetical Index to Advertisers

Abbey Building Supplies Co. ....	PAGE lxvii	Fisher & Ludlow, Ltd. ....	PAGE xxxvi	Negus, W. & M., Ltd. ....	PAGE lxvi
Accrington Brick & Tile Co., Ltd. The ..	lxvi	Frenger Ceilings, Ltd. ....	xxxvi	Panelac (Great Britain), Ltd. ....	lxvi
Adamite Co., Ltd., The ..	lxvii	Furse, W. J., & Co., Ltd. ....	lxvii	Permanite, Ltd. ....	lx
Adhesive Dry Mounting Co., Ltd., The ..	lxvii	Gas Council, The ..	xxv	Pestecure, Ltd. ....	lxiii
Aidas Electric, Ltd. ....	xxiv	Greenwood's & Airvac Ventilating Co., Ltd. ....	ii	Plywood & Timber Products Agencies, Ltd. ....	lxv
Allied Guilds ..	lxvii	Gyproc Products, Ltd. ....	xvi	Pilkington Bros., Ltd. ....	xxii, xxiii
Anglo-Scottish Construction Co., Ltd. ....	lxiii	Hall, J. & E., Ltd. ....	lxiii	Pitman, Sir Isaac & Sons, Ltd. ....	lx
Architectural Press Ltd. The ..	xxxiii	Hanner, Geo. M., & Co., Ltd. ....	xxxii	Plywood & Timber Products Agencies, Ltd. ....	lx
Austin, James, & Sons (Dewsbury), Ltd. ....	lxii	Harvey, G. A., & Co. (London), Ltd. ....	lxvi	Radiation Group Sales, Ltd. ....	xxx
Automatic Pressings, Ltd. ....	lxii	Henderson, P. C., Ltd. ....	lxvi	Rawlplug Co., Ltd., The ..	lxiii
Ayco, Ltd. ....	lx	Hilger & Watts, Ltd. ....	lxiii	Richardson & Starling, Ltd. ....	lxix
Baldwin, Son & Co., Ltd. ....	lx	Hill's (West Bromwich), Ltd. ....	lxiii	Robertson Thain, Ltd. ....	lxix
Bardie, Ltd. ....	lx	Hollis Brothers, Ltd. ....	lxiii	Rom River Co., Ltd., The ..	lxix
Booth, John, & Sons (Bolton), Ltd. ....	xxxviii	Holoplast, Ltd. ....	lxviii	Rownson, Drew & Clydesdale, Ltd. ....	viii
Boulton & Paul, Ltd. ....	lxii, lxvii	Hope, Henry, & Sons, Ltd. ....	lxviii	Rubery Owen & Co., Ltd. ....	lxix
British Aluminium Co., Ltd., The ..	lxiii	Isotack Brick & Tile Co., Ltd. ....	lxviii	Sanders, Wm., & Co. (Wednesbury), Ltd. ....	xxxiv
British Mouldex Rubber Co., Ltd., The ..	lx	Imperial Chemical Industries, Ltd. ....	lxvii	Sealanco (St. Helens), Ltd. ....	xx
British Paints Ltd. ....	lx	International Correspondence Schools ...	xxxii	Sealcrete Products, Ltd. ....	xx
British Plaster Board, Ltd., The ..	lxiii	Jackson Electric Co., Ltd., The ..	xxxix	Semtex, Ltd. ....	lxvii
British Plumber, Ltd. ....	lxiii	Johnson & Phillips, Ltd. ....	xxxix	Sharp Bros. & Knight, Ltd. ....	lxvii
British Trolley Track Co., Ltd., The ..	lxiv	Jones, T. C., & Co., Ltd. ....	lx	Sign Service ..	lxvii
Broads Manufacturing Co., Ltd. ....	lx	Kenyon, Wm., & Sons, Ltd. ....	lxvii	Silixine Paints, Ltd. ....	lxvii
Cement Marketing Co., Ltd., The ..	lxvi	King, Geo. W., Ltd. ....	lxii	Smith & Pearson, Ltd. ....	lxvii
Chance Bros., Ltd. ....	lxvi	Lacrinoid Products, Ltd. ....	lxii	Smith & Rodger, Ltd. ....	lxvii
Cole, E. K., Ltd. ....	lxvi	Laing, John, & Son, Ltd. ....	lxii	Smith, Thomas, & Son, Ltd. ....	lxvii
Colt Ventilation, Ltd. ....	lxvi	Lead Industries Development Council... ..	lxii	Soil Mechanics, Ltd. ....	lxvii
Costain, Richard, Ltd. ....	lxvi	Leigh, W. & J., Ltd. ....	lxii	Sommerfeld's, Ltd. ....	lxvii
Courtney, Pope, Ltd. ....	lxvi	Lockhart Equipment, Ltd. ....	lxii	Southern, Ltd. ....	lxvii
Crittall Mfg. Co., Ltd. ....	lxvi	MacAndrews & Forbes, Ltd. ....	lxix	Standard & Pochin Bros., Ltd., The ..	lxvii
Croft Granite Brick & Concrete Co., Ltd. ....	lxvi	McCarthy, M., & Sons, Ltd. ....	lxvii	Sulzer Bros. (London), Ltd. ....	lxvii
Crompton Parkinson, Ltd. ....	lxvi	McKechie Brothers, Ltd. ....	lxvii	Sutcliffe, Speakman & Co., Ltd. ....	lxvii
Dejones (Branch of Shand Kydd, Ltd.) ..	lxvi	Main, R. & A., Ltd. ....	lxvii	Tarmac, Ltd. ....	lxvii
De La Rue, Thomas, & Co., Ltd. ....	lxvi	Mallinson, Wm., & Sons, Ltd. ....	lxvii	Thompson, John (Beacon Windows), Ltd. ....	lxvii
Destrol Sales, Ltd. ....	lxvi	Marley Tile Co., Ltd., The ..	lxvii	Thorn, J., & Sons, Ltd. ....	lxvii
Dignus, Ltd. ....	lxvi	Medway Buildings & Supplies, Ltd. ....	lxvii	Tretol, Ltd. ....	lxvii
Docker Brothers ..	xxxiii	Meyer, Montague L., Ltd. ....	lxvii	Trussed Concrete Steel Co., Ltd., The ..	lxvii
Doulton & Co., Ltd. ....	lxvii	Metallic Seamless Tube Co., Ltd., The ..	lxvii	Val De Travers Asphalt Paving Co., Ltd. ....	lxvii
Dunbrik, Ltd. ....	lxvii	Mills Scaffold Co., Ltd. ....	lxvii	Walker, Crosswell & Co., Ltd. 6 ..	lxvii
Dussek Bitumen & Taroleum, Ltd. ....	lxvii	M.K. Electric, Ltd. ....	lxvii	Walpamur Co., Ltd., The ..	lxvii
Econa Modern Products, Ltd. ....	lxvii	Moulded Components (Jablo), Ltd. ....	lxvii	Ward, Thomas W., Ltd. ....	lxvii
Edgar, Wm., & Son, Ltd. ....	lxvii	Mowlem, John, & Co., Ltd. ....	lxvii	West Surrey Industries (Byfleet), Ltd. ....	lxvii
Ellis School of Architecture, The ..	lxvii	Myton, Ltd. ....	lxvii	Wholesale Fittings Co., Ltd., The ..	lxvii
Engraver's Guild, Ltd., The ..	lxvii	Nu-Way Heating Plants, Ltd. ....	lxvii	Williams & Williams, Ltd. ....	lxvii
Farmer, S. W., & Son, Ltd. ....	lxvii	National Federation of Clay Industries... ..	lxvii		
Finlock Gutters, Ltd. ....	lxvii				
Finnmar Ltd. ....	lxvii				

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous Property, Land and Sales, lxiv, lxv, lxvi, lxvii.



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PAGE  
lxvi  
xlii  
lx  
lxiii  
lvi  
xxii, xxiii  
lx

xxx  
liii

lxix  
viii

xxxi  
xv  
xi

lxvii  
xxviii  
ii  
lxiii  
lvii  
lx  
lxvii

lxvi  
xix  
vi

xxi

vii

xxvi  
xxxvii  
liv  
iv, v

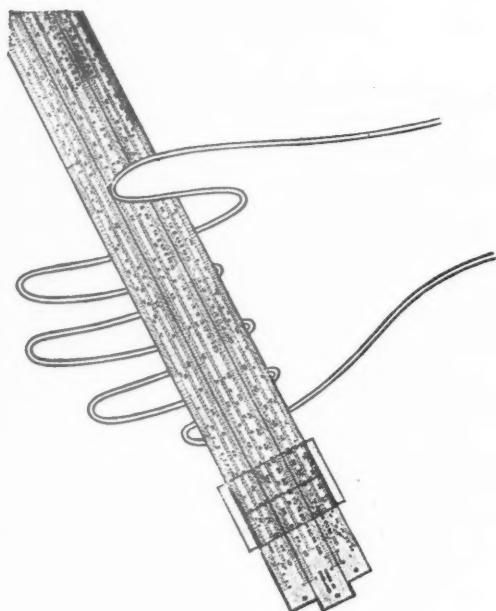


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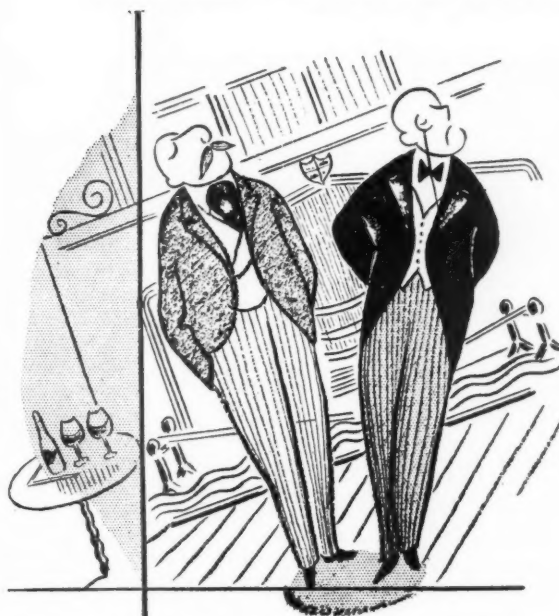
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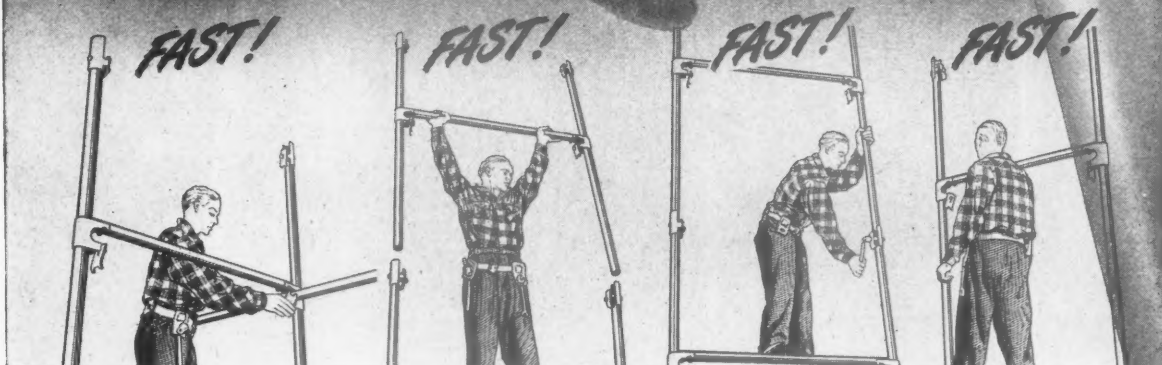
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