

THE ARCHITECTS' JOURNAL



standard contents

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

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

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
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers. 72/74, Victoria Street, S.W.1.	Victoria 0146/7
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Ncrfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IR	Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8.	Park 7678
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Belgrave Square, S.W.1.	Sloane 4522
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4041
NHTPC	National Housing and Town Planning Council. 41, Russell Square, W.C.1.	Museum 1264
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NRIAD	National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2.	Whitehall 2415
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 021/2
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 0245
PWB	Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR. 98, Gower Street, W.C.1.	Euston 6272/3
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C.2.	Chancery 5313
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNTPC	Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 75, Cannon Street, E.C.4.	City 6146 (3 lines)
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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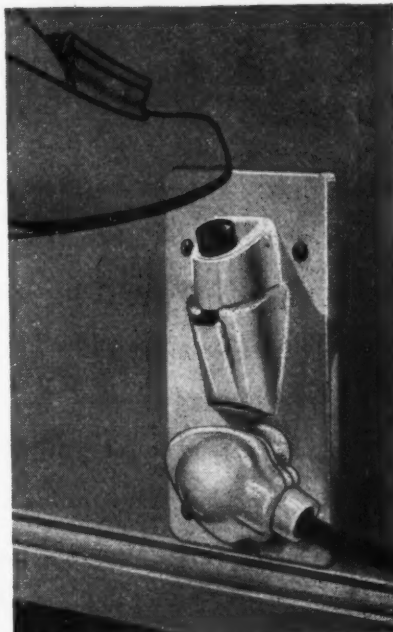
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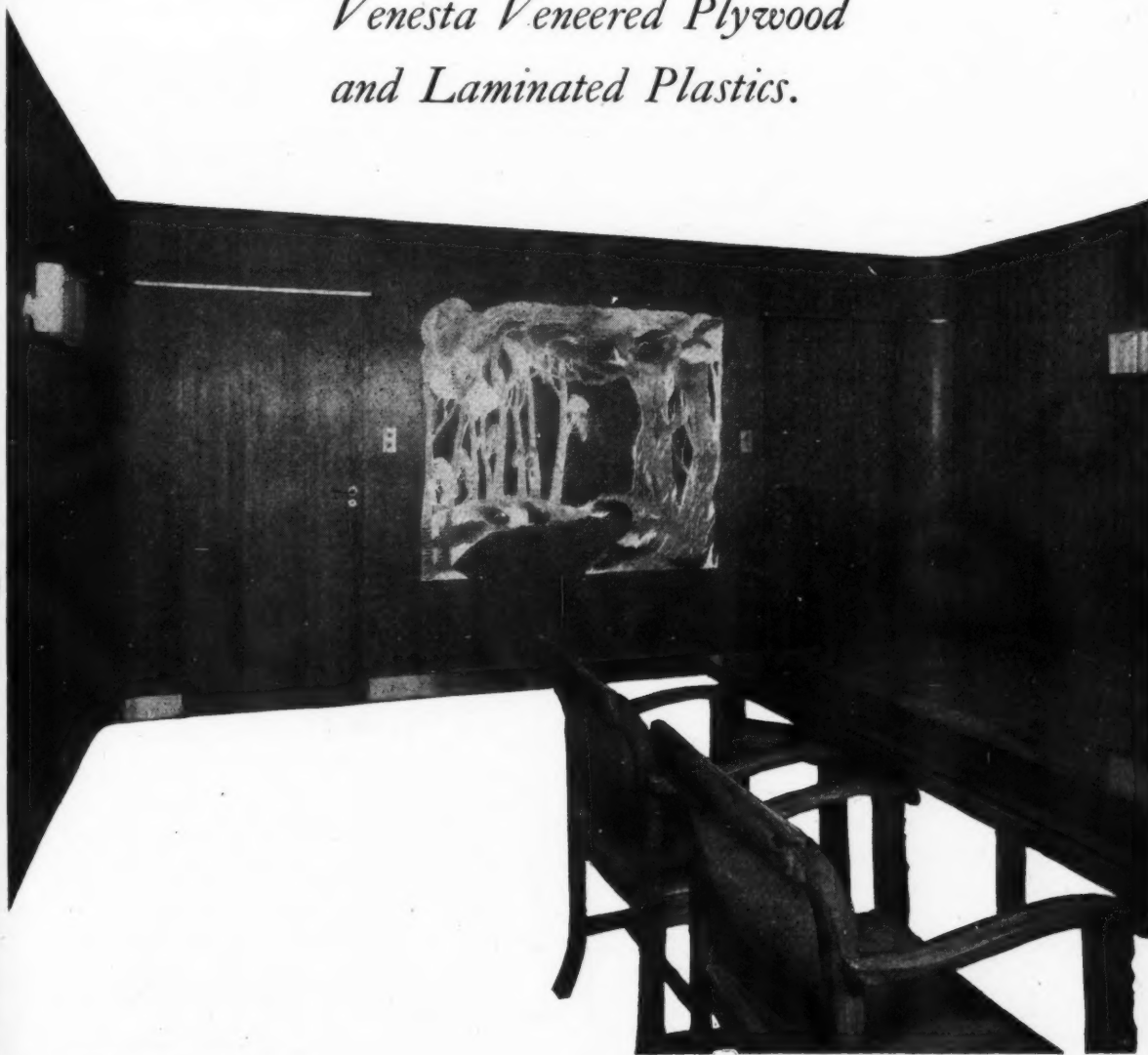
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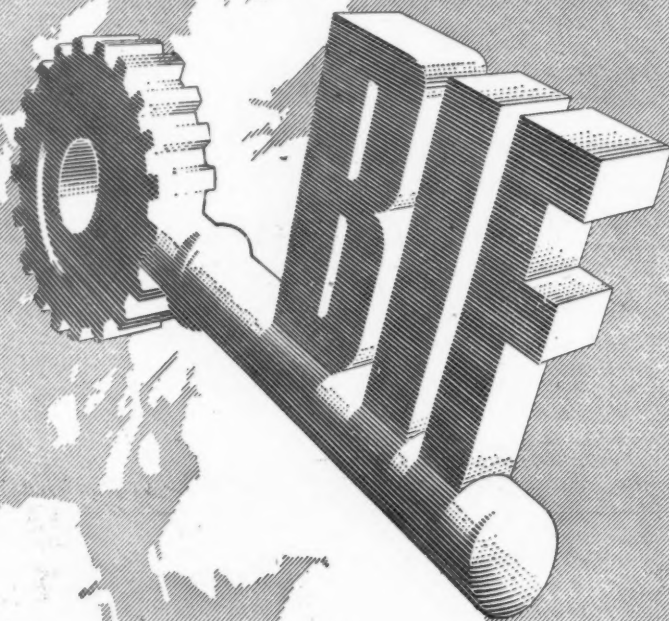
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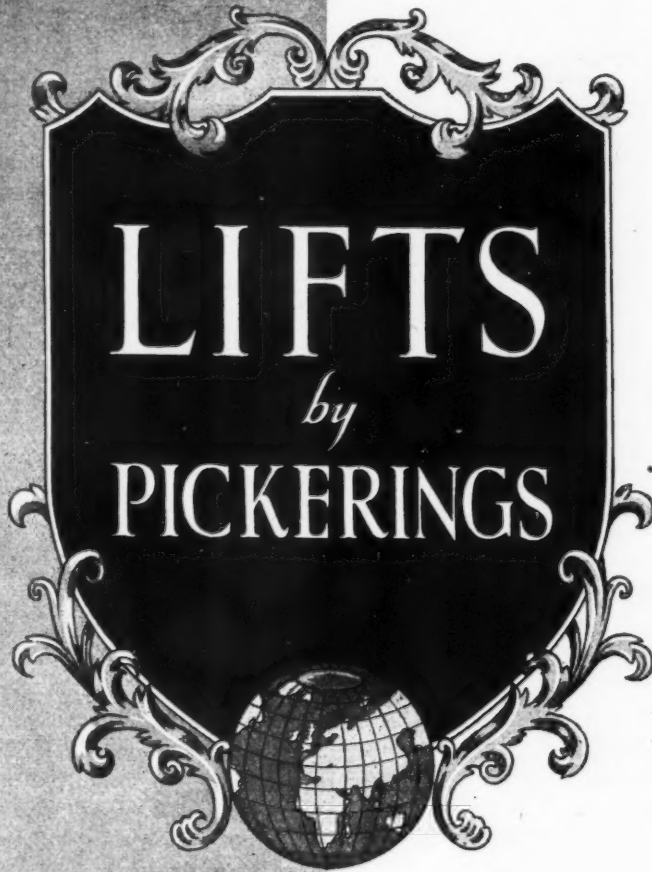
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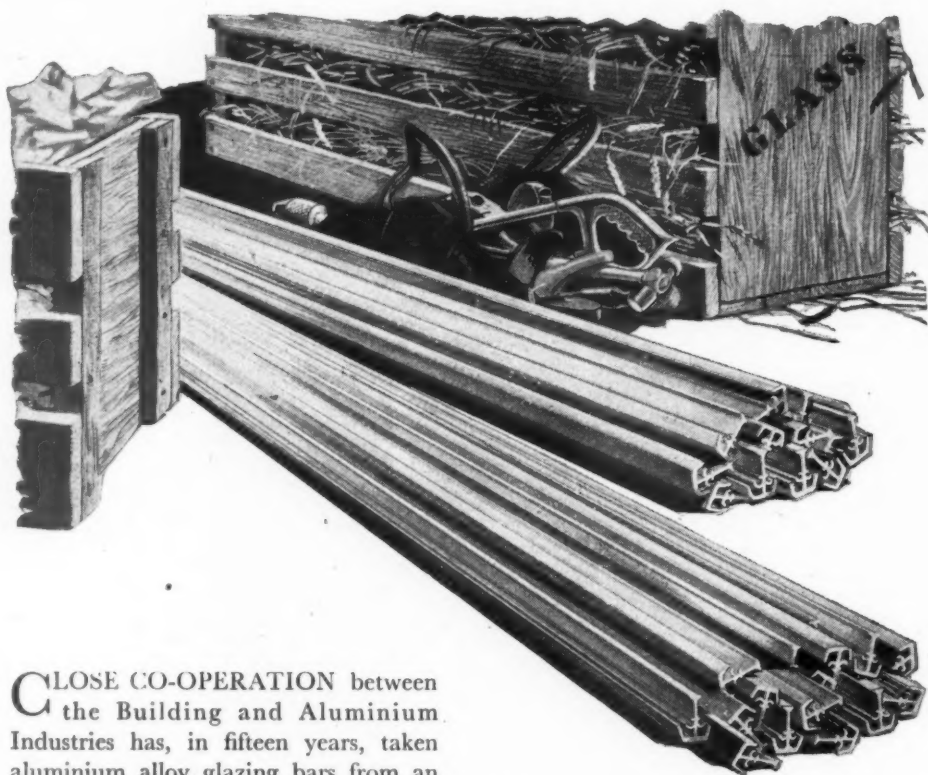
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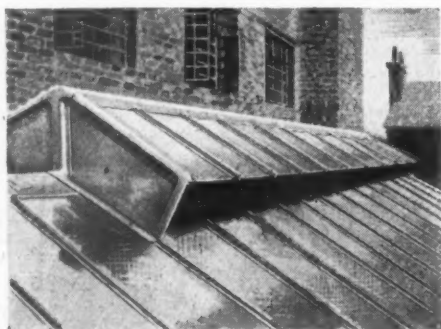
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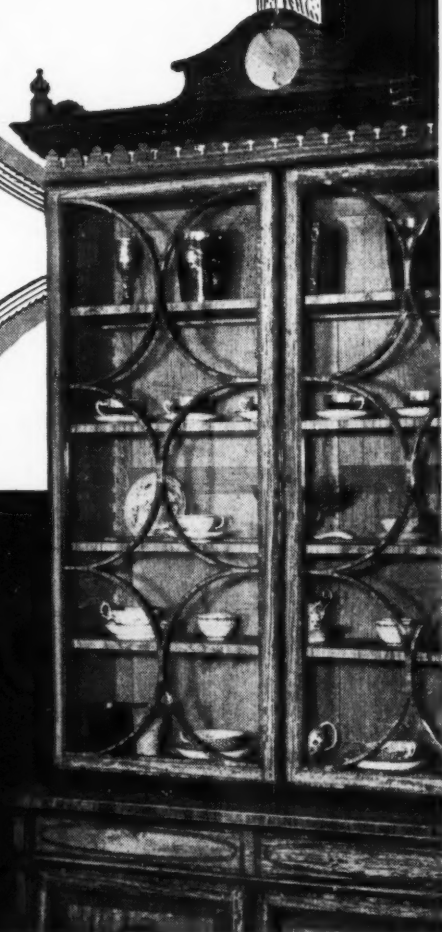
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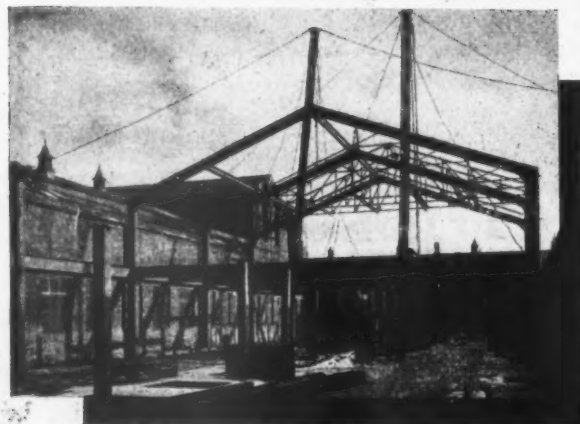
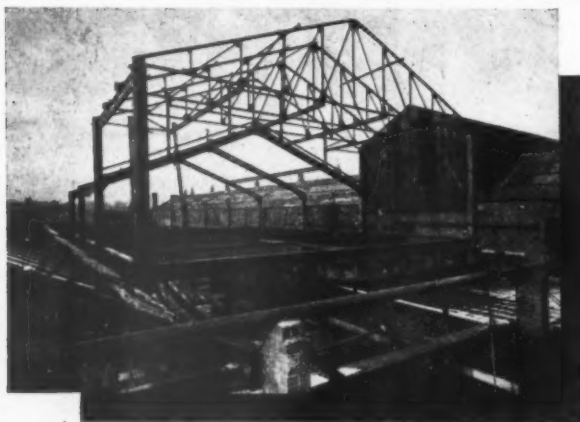
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TRADE WINDS No. 9

Many daring and courageous men answered the call of the sea when Queen Elizabeth gave forceful encouragement to voyages of discovery and adventure. The New World in the West was gradually yielding its secrets. With each new discovery came romantic stories of incredible wealth to be won by brave and enterprising seamen and traders. The languid luxury of the tropics, the exotic fertility of the soil, with gold and precious stones in an undreamed of abundance, were the rich rewards that far outweighed the unknown dangers and hazards.

In spite of all this lure of the West the quest for new routes to the East continued. After Megellan had rounded the Horn in 1520, finding a stormy passage round the south of the Americas into the Pacific, attempts were made to discover a North-West route. Again and again expeditions were equipped without success. Instead the finest fur country of the world was discovered.

First the French, and later the Dutch following the Englishman Henry Hudson, started the trade in furs. Two Frenchmen named Grosvilliers and Radisson, after having been badly treated by their own Governor, enlisted the aid of Charles II for an expedition in 1668. It was this venture that finally established the great beaver fur trade of Northern Canada for the English. A Charter was granted in 1670 empowering the "Company of

NORTH-WEST AND NORTH-EAST

Adventurers of England trading into Hudson's Bay" to have the sole trade and commerce with the entrance to the Hudson Strait.

During the long years of war with France there was as much fighting as trading in vain efforts to expand. Trading posts were converted into forts. They were stormed and burned, re-established and again destroyed by the French. The Company's men fought heroically against the regular troops of the French, but the odds became too great and led almost to bankruptcy. Following the Peace of Ryswick in 1697 the Company recovered and a steady and prosperous trade began which continues to the present day. It is indeed, the last surviving Chartered Company and, despite all its arduous activities, it was not until 1905 that the North-West passage was eventually navigated only to prove unproductive.

The story of the North-East passage is neither so romantic nor successful. Many were the fruitless attempts of the Muscovy Company of London, founded in 1553, to reach the East by a route north of Asia. Although this Company opened up trade through Archangel and developed the whale fisheries at Spitzbergen, it was not until 1878, that the North-East passage was safely made, but was found to be wholly impracticable as a trade route.



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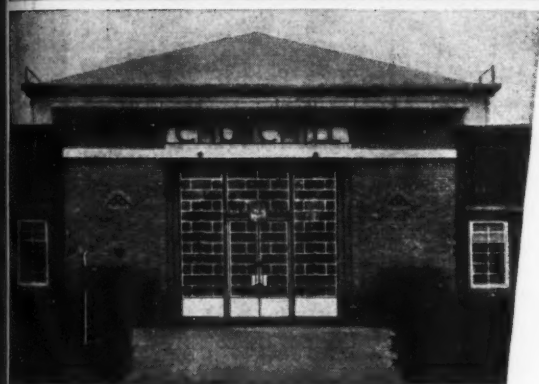
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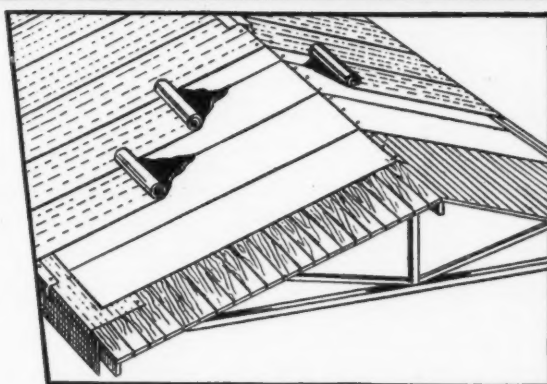
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Section of Drawing BRIGGS ROOFS No. 2R

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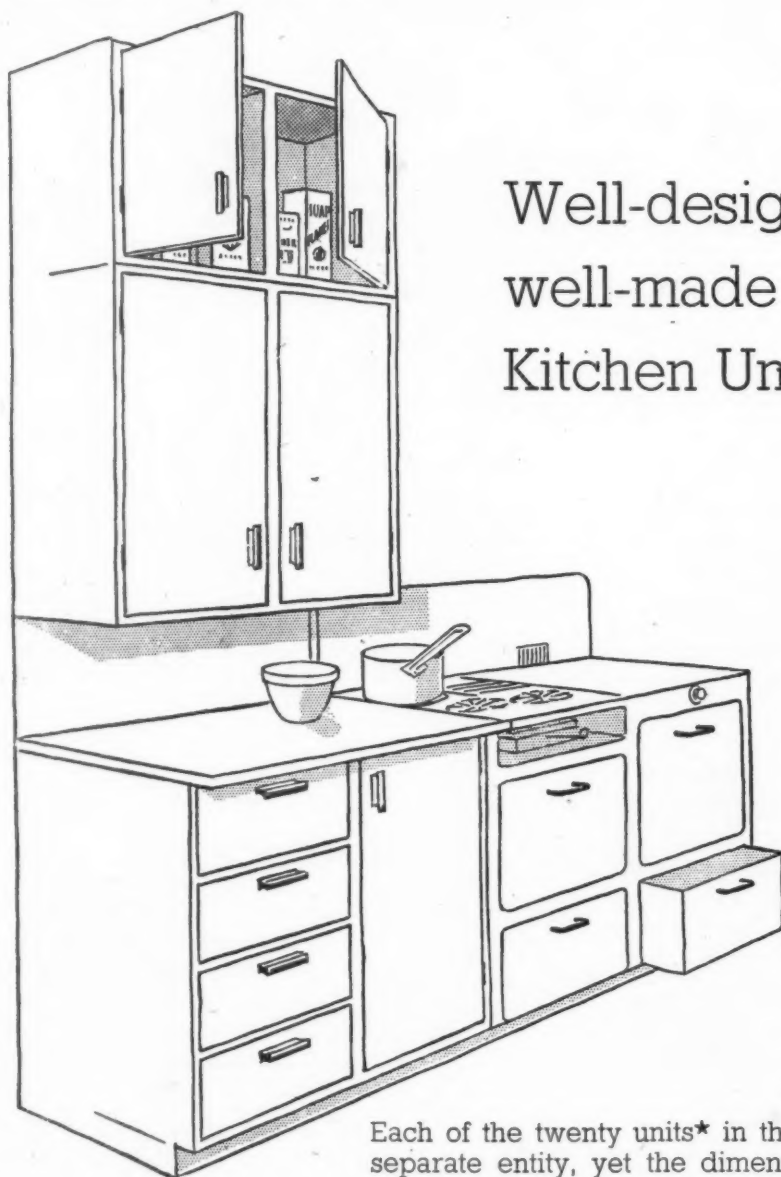
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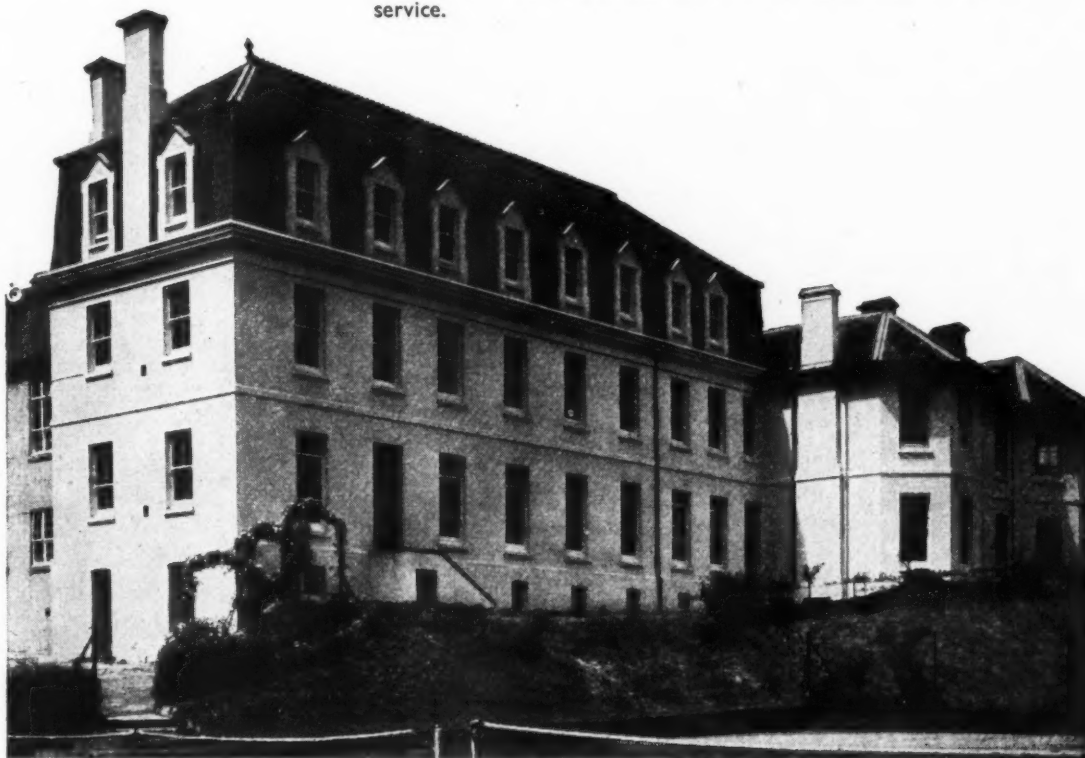
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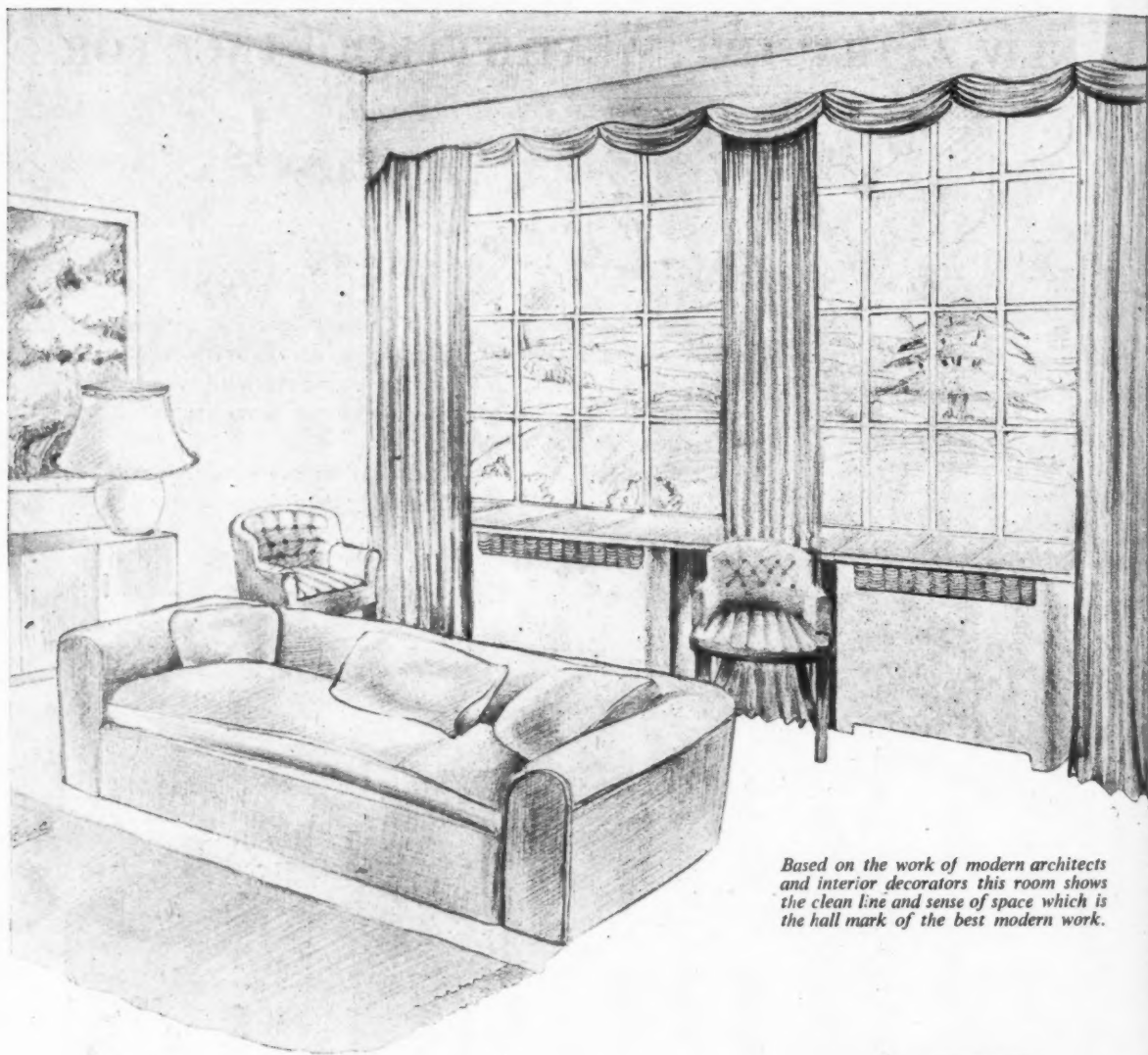


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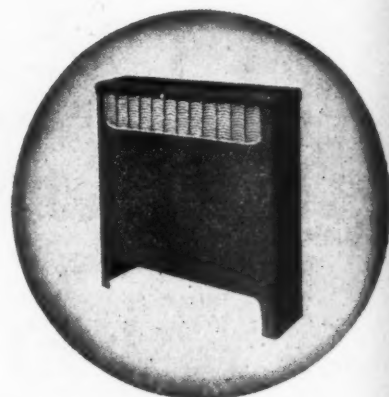
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other purpose is provided largely by a group of firms combined in

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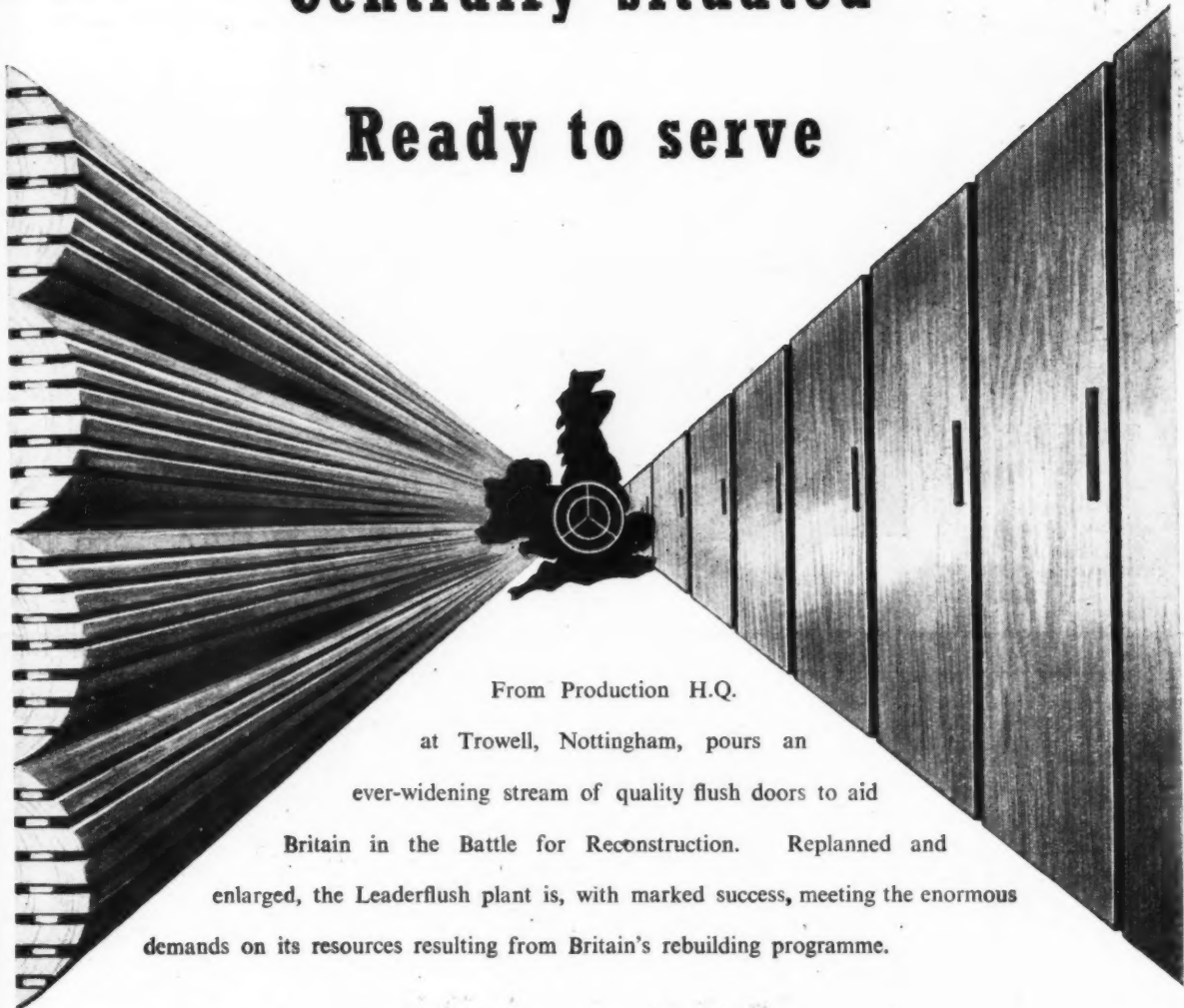
The Cookson Lead and Antimony Company Ltd.; Foster, Blackett and James Ltd.; The Librex Lead Company Ltd.; Locke, Lancaster and W. W. & R. Johnson & Sons, Ltd.; The London Lead Oxide Company Ltd.; Walkers, Parker & Company Ltd.
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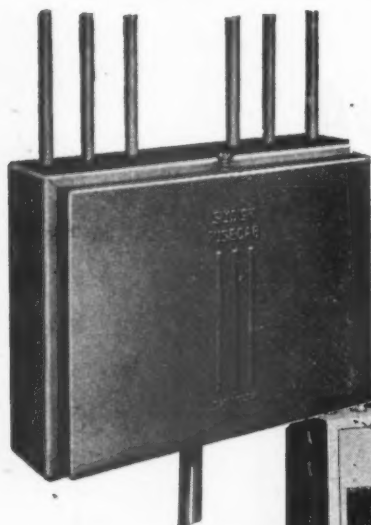


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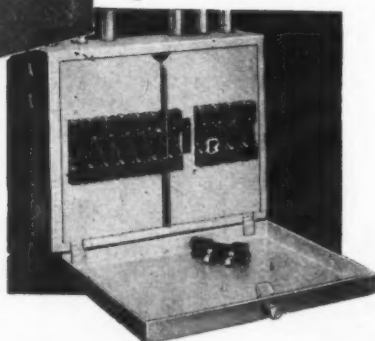
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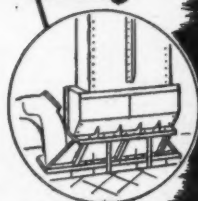
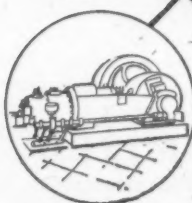
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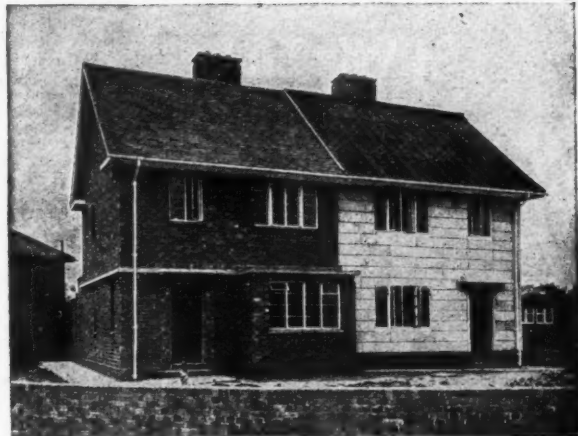
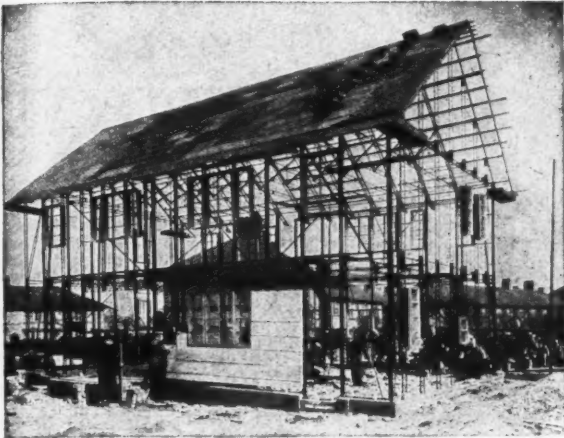


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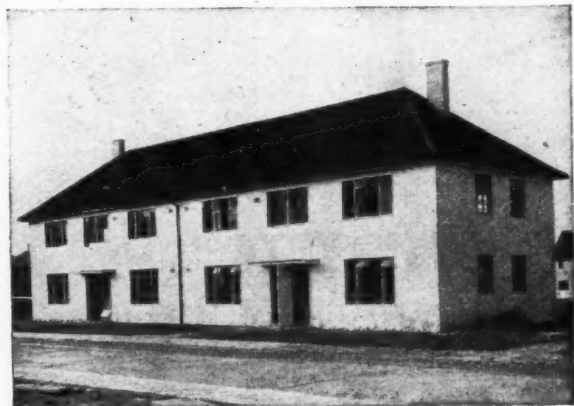
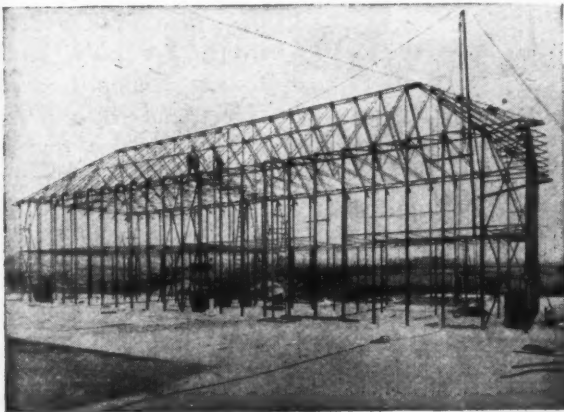
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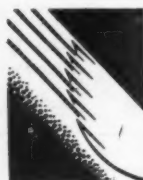
To stue SPAROVVES



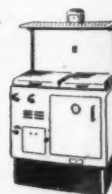
Take good Ale a pottle, or after the quantities more or less by your discretion, and set it over the fire to boyle, and put in your sparovves and scum the broth, then put therein Onions, Perceley, Time, Rosemary chopped small, Pepper and Saffron with Cloves and Mace a few. And make fippets as you do with this and lay the Sparovves upon with the said broth, and in the seething put in a piece of sweet butter and Vergious if need be.

From: 'A Booke of Cookry' 1584

It looks to be an interesting dish, but not easy in the making nowadays, when cooking sparrows are a little difficult to come by and good ale is quite impossible. Compensation comes in the ease of cooking what we have. Our Eagle Ranges serve us well and when the new ones are plentiful as sparrows on the trees, we shall forget the austerity of our dishes in the pleasure of cooking them.



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TWIN INFORMATION SERIES No. 1.

THE INSIDE STORY of the *Charlton* "TWIN"

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BULK HEATER 2,500 WATTS

BULK HEATER CONTROL SWITCH

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The *Charlton* 'Twin' is essentially two water heaters in one—one heating unit ensures 6 gallons of very hot water being always available, and a second, booster, heating unit steps up the supply when larger quantities are wanted for baths or clothes washing. By having two independent heating units, the 'Twin' provides all the hot water required at all points without the expense of keeping large quantities constantly heated.

This scientific design also enables the normal electricity load to be reduced to 500 watts—a point of vital importance in the Nation's electricity economy—the bulk heater being used primarily in "off-peak" periods.

The design of the *Charlton* 'Twin' is based on the natural tendency of hot water to rise. This enables the water above the top element to be heated to the pre-set temperature, while the water below remains practically cold. Operation of a foot switch brings in the booster heating unit to heat quickly the full contents—15 or 20 gallons according to model.

Of course the 'Twin' has all the advantages common to electric water heating systems—no dirt, no labour, no waste heat, no chimneys, etc.—and is equally suitable for houses, flats and 'conversions'. Ask for your copy of Publication HD 20—it gives all the information you require.

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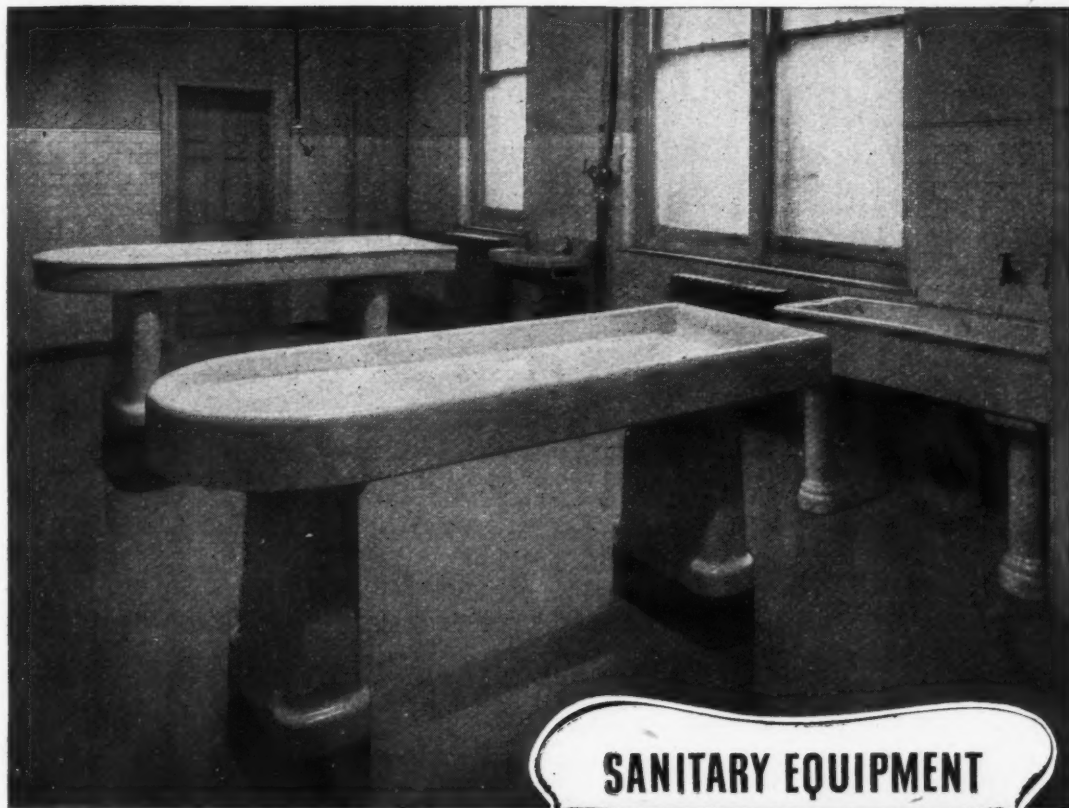
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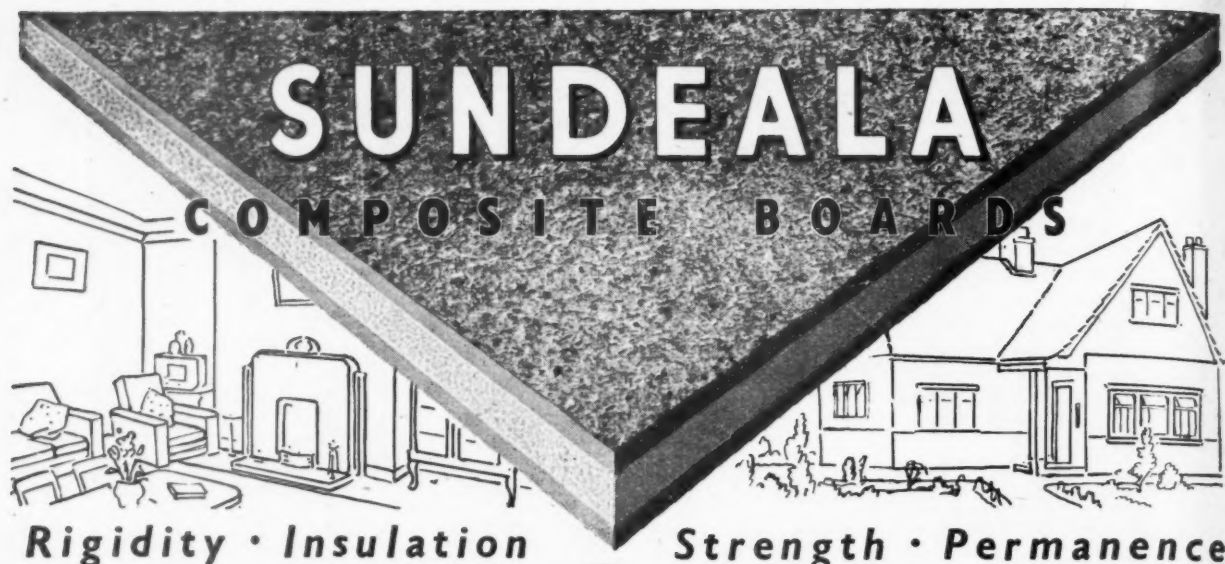
The reconstructed Medical School at Charing Cross Hospital is yet another case where the Architect has specified all new sanitary fittings by Froy. We have unrivalled experience in this specialised field, not only for Hospitals, but also for Schools, Public Buildings and Housing schemes, and our services and resources are always available to Architects who are engaged in the erection or reconstruction of such buildings.

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TELL-TALE CLOCK GUARDS THE £1,000,000 TREASURE

LAST night in Room 6 of the Victoria and Albert Museum, London. The tapestry is one of the £1,000,000 "Lady of the Unicorn." It is in a collection from Paris for exhibition on Friday. Beside it a man pushes a button. . . .

He is one of 15 ex-Service guards who patrol at night. At points in the galleries he pushes these buttons which connect with a tell-tale clock in the control room, and for each push a bell rings.

If no dot appears when and where the bell is sounded. That is safe. . . .

The Gent's Tell-Tale Clock System, as described in this "Daily Express" story, gives a positive check on the movements of night patrols in such places as hospitals, banks, public buildings, stores, warehouses and industrial establishments.

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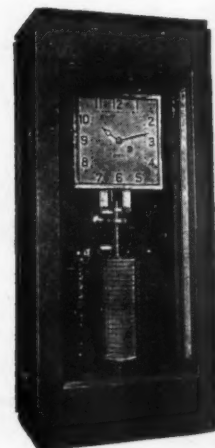




Photo by courtesy of Bowman Bros.

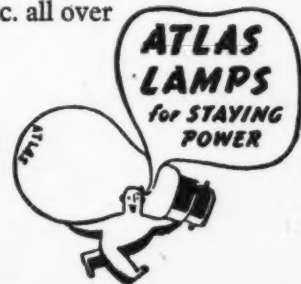
THE INTIMATE TOUCH

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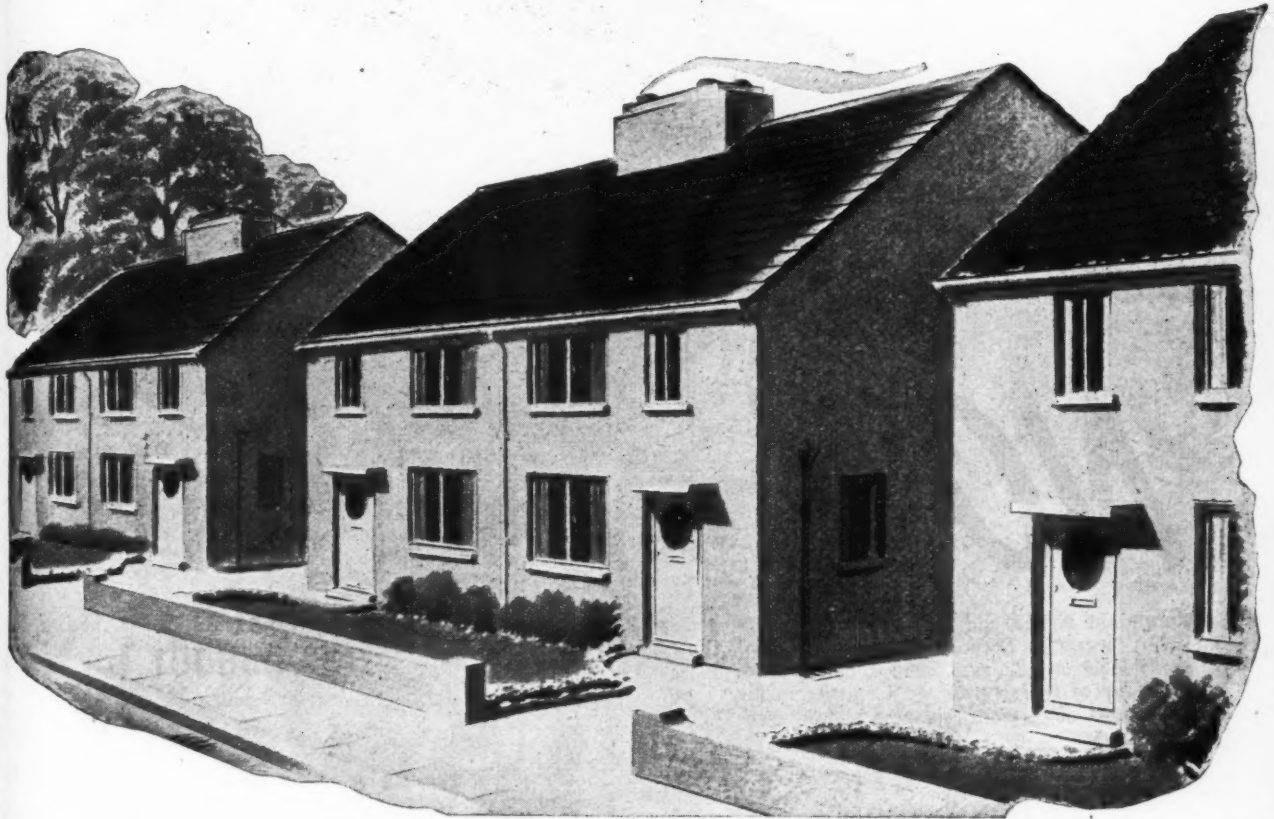


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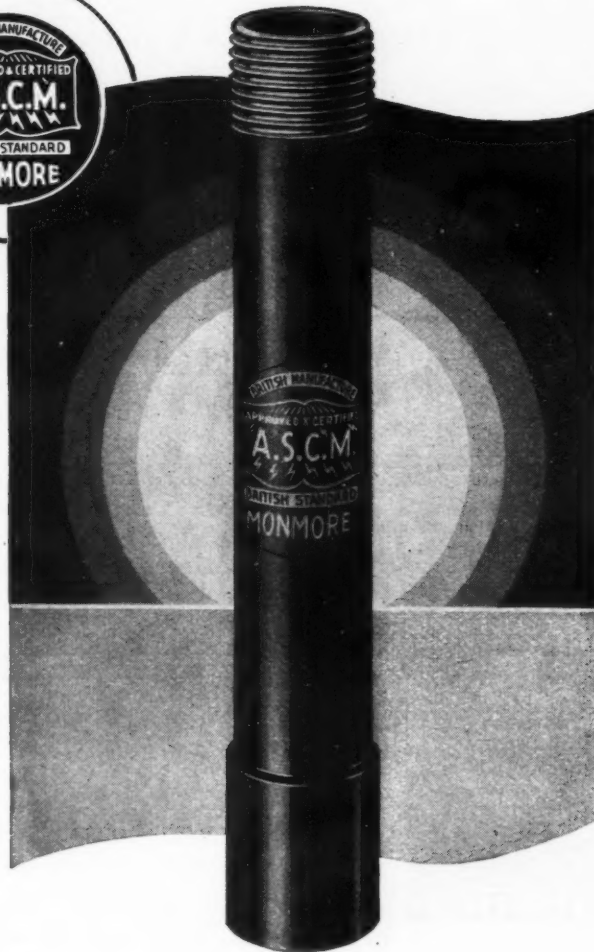
Semtex Departments of Overseas Companies of Dunlop Rubber Company Limited operate in Sweden, Denmark, Holland, Belgium, France, South Africa, India and Australia; Shipping Services A/S Oslo, represent Semtex Limited in Norway.

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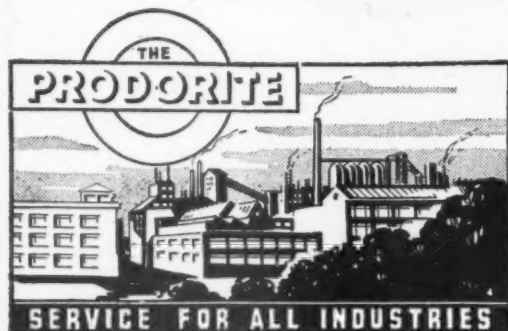
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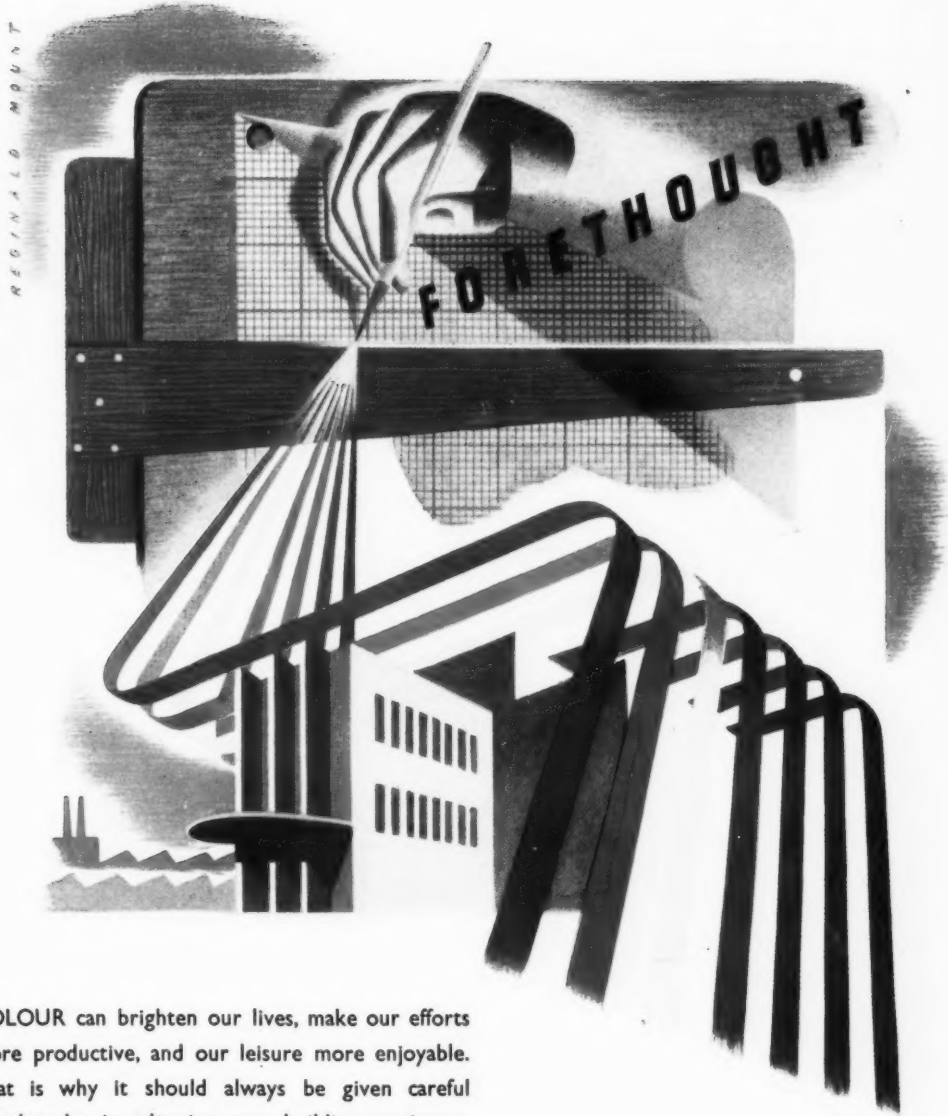
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NEWS

THURSDAY, April 22, 1948
No. 2776 Vol. 107

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

★ means spare a second for this, it will probably be worth it.

★★ means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.

A COURSE ON TOWN AND COUNTRY PLANNING, arranged at Edinburgh by the British Council in conjunction with the Department of Health for Scotland finished last week. Fifteen delegates attended from Australia, China, Colombia, Denmark, India, Poland, Sweden, and the West Indies. On April 11 they travelled to Glasgow for the last few days of the course, which ended on April 14. Lectures were arranged on the Edinburgh Plan, the Clyde Valley Plan and industrial estates in Western Scotland, rural problems in the south-east and the Highlands, the mining villages of Fife, and administrative responsibility for town and country planning in Scotland. To illustrate the lectures, visits were paid to the centres and sites in Edinburgh, Glasgow, the Border Country, Fife, and the Highlands.

In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their names will then be added to the subscription list as soon as possible. Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies 9d.; post free 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra.

DIARY FOR APRIL
MAY AND JUNE

Titles of exhibitions, lectures and papers are printed in *italics*. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials as given in the glossary of abbreviations on the front cover.

ASCOT. *Building and Allied Trades Golfing Association Spring Meeting.* On the course of the Berkshire Golf Club, Ascot. Special transport facilities have been organized. Intending players should communicate immediately with the Hon. Secretary, Hubert Hill, Monument Station Buildings, King William Street, E.C.4. (Mansion House 3714.) [Sponsor, BATGA.] **APRIL 27**

BIRMINGHAM. *British Industries Fair.* At Castle Bromwich. (Sponsor, BOT.) **MAY 3-14**

BRIDGEWATER. *Design for Living Exhibition.* At the Bridgewater Arts Centre. (Sponsor, ACGB.) **APRIL 28 TO MAY 8**

EDINBURGH. *TPI 22nd Annual Country Meeting.* (Sponsor, TPI.) **JUNE 4-6**

LEICESTER. R. T. Walters. *Designing in Timber.* At the Leicester School of Architecture. (Sponsor, TDA.) 3.45 p.m. **APRIL 26**

LONDON. T. Alwyn Lloyd. *The South Wales Outline Plan.* At the Livingstone Hall, Broadway, Westminster, S.W.1. (Sponsor, TPI.) 5.30 p.m. **APRIL 22**

Edward Maufe and others. *The Church—its Influence on the Crafts with Special Reference to Precious Metals.* At Goldsmiths' Hall, Foster Lane, E.C.2. (Sponsor, Worshipful Company of Goldsmiths.) 6.30 p.m. **APRIL 22**

Three Hundred Years of Catering Exhibition. At the Tea Centre, 22, Regent Street, S.W.1. (Sponsors, Empire Tea Bureau and National Council for Hotel and Catering Education.) **UNTIL APRIL 25**

One-Day Conference on Current Problems of Local Authority Housing. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) **APRIL 23**

Exhibition of Housing Work of Wandsworth Borough Council. At the Housing Centre, 13, Suffolk Street, S.W.1. **APRIL 23-MAY 14**

W. J. Woolgar. *Plumbing and Hygiene.* At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch, 12.45 p.m.-1.15 p.m., 2s. 6d. Talk, 1.15 p.m.-2.15 p.m., 6d. **APRIL 27**

Dr. N. Pevsner. *German Art of the Goethe Period.* At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, The Courtauld Institute.) 5.30 p.m. **APRIL 27 and MAY 4**

Inn Crafts Exhibition. Interior decoration and furniture design for licensed premises. At the RBA Galleries, 64, Suffolk Street,

S.W.1. (Sponsors, CIAD for Brewers' Society.) **APRIL 27-MAY 13**

R. W. Symonds. *Craftsmanship in Furniture—Traditional and Modern.* At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. **APRIL 28**

RIBA Annual Reception. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 8.30 p.m. **APRIL 30**

RIBA Annual General Meeting. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. **MAY 3**

British Industries Fair. At Earl's Court, Olympia, and Birmingham. (Sponsor, BOT.) **MAY 3-14**

Thomas Sharp. *Oxford Replanned.* At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch 12.45 p.m.-1.15 p.m., 2s. 6d. Talk 1.15 p.m.-2.15 p.m., 6d. **MAY 11**

J. Summerson. *Church Building in Victorian London.* At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, The Courtauld Institute.) 5.30 p.m. **MAY 11**

RSI London Sessional Meeting. A. Leslie Longworth. *Present Standards and Practice in the Field of Ventilation.* At the RSI, 90, Buckingham Palace Road, S.W.1. (Sponsor, RSI.) 2.30 p.m. **MAY 12**

Cosmo Clarke. *Craftsmanship in the Countryside.* At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. **MAY 12**

Schools Tomorrow Exhibition. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) Weekdays 10-6, Saturdays 10-5. **MAY 26-JUNE 19 (inclusive)**

Prof. A. E. Richardson. *Craftsmanship.* Peter Le Neve Foster Lecture. At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. **JUNE 2**

RIBA Council Election Results. Charles Woodward and Sydney Redfern. *Questions and Answers in Practice.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) **JUNE 22**

PLYMOUTH. *Newer Heat Exhibition.* At Barton's Motor Car Showrooms, Mutley Plain, Plymouth. (Sponsor, CUJC.) **UNTIL MAY 1**

TORONTO. *Canadian International Trade Fair.* At the Exhibition Grounds, Toronto. (Sponsor, Canadian Government Exhibition Commission.) **MAY 31-JUNE 12**

WOLVERHAMPTON. *Centenary Industrial Exhibition.* (Sponsor, Borough of Wolverhampton.) **UNTIL APRIL 24**

ARCHITECTURAL JOINERY



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From AN ARCHITECT'S Commonplace Book

OLD WORLD HANGOVER. [*From Self Training for Industrial Designers, by John Gloag (George Allen & Unwin, Ltd.).*] In looking about you, making your critical tours, and establishing your standards, you have constantly come across memories of other days, impressed inappropriately and uncertainly upon an infinity of objects. Those complicated cast-iron surrounds to the gangways for the Woodside ferry boats are typical; for they reproduce in a blurred way a medley of decorative features that were once regulated by a system of design, as though they had been sketched in ink on blotting paper by somebody with a defective memory. Indeed, we are living today with a perfect rag-bag collection of ideas that confuse and debase popular taste and help to prevent the formation of sound critical judgment—half-remembered ornamental conventions, romantic attachments to ancient prototypes, faded suggestions of the Gothic enthusiasms promulgated by John Ruskin in the last century: in short, a hangover in the form (though not in the colour) of many things from civilization that have passed away.

MOTCP has announced that further modifications have been approved in the proposals of the **ADMIRALTY AND WAR DEPARTMENT** to use land on Dartmoor for training.

Requirements have now been fixed at 32,800 acres. Part of the Ministry's statement says: The Government, in considering the report of the public inquiry on July 16-17, 1947, have had careful regard to the consideration that Dartmoor is in the first group of national park areas proposed by the Hobhouse committee. Modifications have been made which will exclude from the proposals the more accessible parts of the moor. In terms of acreage the requirements now cover a total of 32,800 acres, compared with 76,000 acres. The public would be excluded from 29,000 acres instead of from 49,000 acres, as would have been necessary originally. The Government are satisfied that the proposals will not conflict seriously with the object of making Dartmoor a national park.

J. Betjeman, Secretary of the Oxford Preservation Trust; A. W. Acworth, Honorary Acting Secretary of the Georgian Group.

★
To assist the national economic recovery, preference is now being given in Wales, so far as local resources will permit, to the provision of HOUSES FOR AGRICULTURAL WORKERS, MINERS AND CERTAIN KEY WORKERS.

A series of county meetings has recently been held at which local authorities, the Welsh Board of Health, the Ministry of Agriculture and the county agricultural executive committees have discussed the problem of houses for agricultural workers, to estimate urgent requirements, how far existing programmes can meet them, and

provision for the immediate future. The needs of miners are being met in part by a substantial number of permanent aluminium bungalows, of which about 550 have been erected in mining areas in Wales since December and, in addition, priority is being given in the future programme of orthodox house building. Following a recent public inquiry the Welsh Board of Health have authorised the early beginning of work on the Knighton Urban District Council's £15,000 scheme for the improvement of the town's marketing facilities, by the concentration at one market of two separate premises, one privately owned. The private mart is to be bought and extended whilst the present Council-owned premises will eventually be converted into a central car park. Owing to the shortage of labour and materials, only the most essential parts of the scheme are to be carried out at this stage.

The CORPORATION OF GLASGOW is publishing for sale to the public the **TWO PLANNING REPORTS** presented by Mr. Robert Bruce, the City Engineer and the local planning officer.

The reports are contained in one volume, together with maps, drawings, and photographs, priced at 10s. 6d. They are intended for immediate guidance on the planning proposals and as a reference for interests concerned in the city's development. The first plan envisages controlled progress over the next 50 years, during which, it is anticipated, the lay-out of the city will be drastically changed. The developments provided for include the building of two ring arterial roads, the electrification of railways, the concentration of main-line terminals at two large stations, the clearing of the river banks and the building on the sites of public buildings, extensive redevelopment of the old congested areas of the city, the distribution of housing in three zones with greatly modified densities, and the allocation of areas for industrial use.

The provision of NEW BRONZE DOORS, for the BASILICA OF ST. PETER'S is to be delayed.

The assessors have decided that the competition for designs, open to artists throughout the world, have not given results of a high enough standard. Twelve of the most promising competitors are to be invited to make a second attempt. Meanwhile they have been rewarded with gold medals, while another sixteen competitors have received silver medals.

★
A proposal has been made to build a home for nurses which would obscure the view of the north front of the RADCLIFFE OBSERVATORY AT OXFORD.

The following letter on the proposal has appeared in *The Times*:—

Sir,—The Radcliffe Observatory at Oxford is threatened with irreparable defacement. It was built between 1772 and 1778 from designs by Henry Keene, which were completed by James Wyatt. Whether regarded for the delicacy of its sculptural details and the nice relation of window to wall space or for its subtly arranged grouping by means of wings with the Observer's house (Osler House), it is easily the most outstanding late eighteenth-century building in Oxford and one of the most satisfying and unpretentious architectural groups in the country. The south frontage has already been built up with brick buildings out of scale and out of texture with the observatory. It is now proposed to complete the destruction by obscuring the north, the best, front with a home for nurses.

The purpose of such a building is, of course, of great importance, and we do not wish to question the necessity; but it seems difficult to believe that another site, or even one of the large houses in neighbouring north Oxford, cannot be found as an alternative. Yours, &c., A. Lane Poole, President of St. John's College; C. M. Bowra, Warden of Wadham College; A. C. Cooke, Litchfield Lecturer in Medicine; A. H. T. Robb-Smith, Nuffield Reader in Pathology;



The memorial statue of President Roosevelt in Grosvenor Square was unveiled by Mrs. Roosevelt on April 12 in the presence of the King and Queen. The statue is the work of Sir William Reid Dick, and the architect for the design and layout of the whole memorial with its stone-paved walk, its pools and fountains was Mr. B. W. L. Gallanaugh. A photograph of Grosvenor Square as it now is was published in the Journal for April 8.



Photo Album: The Harmony of Contrasts

The successful use of architectural foils requires the greatest skill and consideration, and necessarily implies a bold handling. The architects of the new Ministry of Education and Health building in Rio, shown in the photograph above, have treated the problem in the way it deserves. There could hardly be a greater contrast between

the new government building, with its elegant simplicity, and the baroque of the Spanish colonial church nearby, but, because of the dissimilarity, both buildings benefit. But it should be noted that the contrast is not only one of different styles of ornamentation but between baroque exuberance and twentieth century purity of form.

★★★

A further statement on the subject of the ARCHITECT AND THE ECONOMIC CRISIS has been issued by the RIBA under the signature of Sir Lancelot Keay, the President.

The following is a summary of the principal points made. The Institute cannot create work. Its primary function is to ensure the development of architecture. If economic conditions cause a reduction of architectural work the Institute can think of no method whereby members' practices can be safeguarded. The Council has been urged to militate against the Government's economic policy, but it is traditional for the Institute not to take part in political issues and the Council has determined not to change its policy. This may be frustrating to those in private practice. The remedy lies in accepting work of any kind as it becomes available, and for younger men to accept posts overseas, which are readily available. The President has been active in explaining the profession's position to those public authorities who can best improve it, and has urged

the importance of forward planning in anticipation of conditions allowing of a resumption of building. He has continually suggested that architects should be allowed to go forward with those schemes with which they have already been commissioned; that Government Departments should encourage local authorities to proceed with forward planning; and that the employment of architects in private practice is preferable to local authorities expanding their established staffs to cope with increased work. These representations have always been most sympathetically received by both the Central and Local Government authorities to whom they have been made, and favourable public statements by the Chancellor of the Exchequer and the Minister of Works have been published in the Press and broadcast by the BBC. The President is always ready to receive suggestions from the profession. He makes one more suggestion himself, although with considerable hesitation, viz., that the principals of busy private offices may be able to direct work that would normally come their way to those who find themselves in difficulties. In conclusion the President added that it is his sincere hope that his statement may allay

the anxiety of those who may feel they are being overlooked.

Delay in the completion of EDINBURGH'S HOUSING PROGRAMME through SHORTAGE OF CEMENT AND ELECTRICAL AND PLUMBING FITTINGS is costing the Corporation £147,000 more on one scheme than the original estimate of £423,000.

This was announced recently by Councillor George Romanes, the Housing Convener, to members of the city Housing Committee, when he announced that all the 1,790 aluminium houses allocated by the Government to Edinburgh had now been erected. The Housing Committee agreed that the Town Council should be approached to borrow the additional expenditure. A proposal that the Corporation should erect groups of temporary shops for letting at Craigmillar, South House, Moredun, and Sighthill was approved by the committee.

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★ Subject to the approval of Congress the United States Government will lend \$65 million (£16½ million) for financing the construction of the UNITED NATIONS PERMANENT HEAD-QUARTERS in New York.

An agreement to this effect was recently signed by Mr. Trygve Lie, Secretary-General of the United Nations, and Mr. Warren Austin, the United States delegate. The loan, which is free of interest, will be repayable in instalments over a period of 32 years.

A reply to a suggestion that certain FACTORIES could have been MORE SPEEDILY COMPLETED has been made by Mr. W. C. Kirkwood, general manager of Scottish Industrial Estates, Ltd.

Mr. Kirkwood was addressing delegates to the International Conference of Town Planners during a visit to the Hillington and Port Glasgow industrial estates. "In justice to the architects and contractors who have been employed by us," he said, "let me take this opportunity to stress that since the passing of the Distribution of Industry Act in 1945 we have begun building 5,750,000 square feet of new factories and have been entrusted by the Board of Trade with the reconversion of almost 3,500,000 square feet of former Government factories. In the new buildings 59 firms have been accommodated since 1945 in nearly 1,250,000 square feet of space, and in the reconverted factories 30 firms have been accommodated in 3,000,000 square feet. This, I feel, proves that something very concrete has been achieved." Mr. Kirkwood explained that before the war a factory could be built in from 8 to 10 weeks, whereas to-day 12 to 18 months were required, and he attributed the extended period to shortage of materials and shortage of labour.



Mr. R. E. Enthoven, F.R.I.B.A., A.A., Dipl., has been nominated President of the Architectural Association for the session 1948-49. He has been connected with the AA as student, member of the teaching staff, and member of the council. His term of office begins on June 1. After nearly two years as Librarian at the RIBA he is now returning to private practice.

BUILDING AND EXPORTS

THE wisdom of severe capital cuts has been challenged and will no doubt be challenged again. The building industry seems to have been selected by fate to become the classic scene of broken promises. Whatever view is taken about this, it is clear that cuts in expenditure on building will have served no useful purpose unless they are (directly or indirectly) used for the purpose of expanding the quantity of British exports. Even if the total value of construction annually were held at £800 million some resources should be released for the export drive, and a correspondingly greater amount if, as now seems possible, the figure is forced down well below the £800 million mark.

The indirect contribution of the building industry to exports is, in a sense, highly theoretical. It can only arise from the general fact that spending power is reduced and inflationary pressure relieved. In this way resources, which means men thrown out of work in the building materials industries, and machinery left standing idle or sent to be scrapped, will be available for use in export industries. It is clear that an adjustment of this kind is not likely to be very rapidly effective. Movement from industry to industry is perhaps more feasible than is often supposed, but on the most favourable assumptions, the building industry's indirect contribution to exports would hardly be felt until the end of 1949.

There remains the policy of some direct contribution to the export drive which might be more immediate in its effect, and at the same time preserve as a going concern subsidiary parts of the fabric that has been created in the last three years. It is increasingly becoming realised that Britain is far ahead of the rest of the world in its production of pre-fabricated housing. There are many countries and many colonies where necessary capital development is held up for lack of suitable accommodation. A policy of deliberate and imaginative expansion of the new forms of construction and of the factory-made house might give Britain an export trade of a substantial kind.

Apart from this possibility, there is also the question of stimulating the export of such items as plaster-board, cement, and other leading building materials. The average monthly export of the main building materials in 1947 was already over £1 million and in February, 1948, the total value of these items was £1½ millions. This shows some improvement, but a very much higher target than the Government at present seems to have in mind might well be called for. In the long run Britain will need the building materials industries if it is to compete in world markets; its capital equipment must be modernized as rapidly as possible. If the cut in expenditure on building construction is squandered on consumption goods, then the long term outlook for exports as well as for building is undoubtedly gloomy.

Sir Stafford Cripps in his Budget speech criticised "proposals

... put forward by armchair critics which would involve the movement of many hundreds of thousands of workers and their retraining in new skills." But are not the violent cuts in building concessions to just those critics whom the Chancellor appears to have had in mind? It is to be hoped that, in view of the increased availability of building materials, the present almost catastrophic cuts in commencement of new building will shortly be once again reviewed—otherwise it is difficult to see how we can hope to develop or accommodate "new inventions and processes which will give us competitive advantages in the future."



The Architects' Journal

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N O T E S

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EQUALIZING THE RATES

The profession is not directly concerned with rateable values, and few of us probably understand the principles of valuations for rating. (My own theory is that each rating surveyor keeps a little black book in which he has written his own little formula, with "Let ϕ = distance from nearest station" and so on as the ingredients.)

But the recent Local Government Bill, which puts an end to such empiricism, will affect nearly all architects indirectly. It has two purposes, the first to make a variation in the grants payable by the Central Government to local authorities and thus help to equalize the burden of rates over the whole country. In itself that is a big step forward in local government, since it has always been a paradox that the poorer a community the greater its need for communal services and the

less its financial capacity to provide them. The second purpose of the Bill is to establish a new basis of valuation for rating. The final test on the old basis was what a local tribunal considered to be the rent which a new or altered building would command in the open market. This principle has only to be stated for its defects to become apparent. The fact that it worked at all fairly over the country as a whole is due solely to the inherent capacity of the British to make any system produce a reasonably equitable result.

The new system will be better, although not perfect. First, it transfers the responsibility for making the assessment to an organ of the Central Government, but with appeals from its decisions to local bodies. That should provide a fair balance between the interests of both. Second, for the first time it sets up a mathematical formula for the calculation of assessments. The formula will not apply to all buildings, but it will to most houses. The formula starts with the cost of the building, by 1938 standards, and makes the gross assessment a specific percentage (5½ per cent.) of that figure. This system applies (with a minor variation) to all houses built since 1918 of a size which, roughly speaking, brings them within the Rent Acts. It does not apply to anything built before 1918, nor to flats and other buildings, where the assessment is to be related to the 1939 rent.

That is the new system in rough outline. It lacks uniformity, but it introduces consistency. Above all, it gives the architect and the building owner a much better chance of estimating the future assessment before they finish with the plans—and that should be an enormous boon. But the fundamental weakness

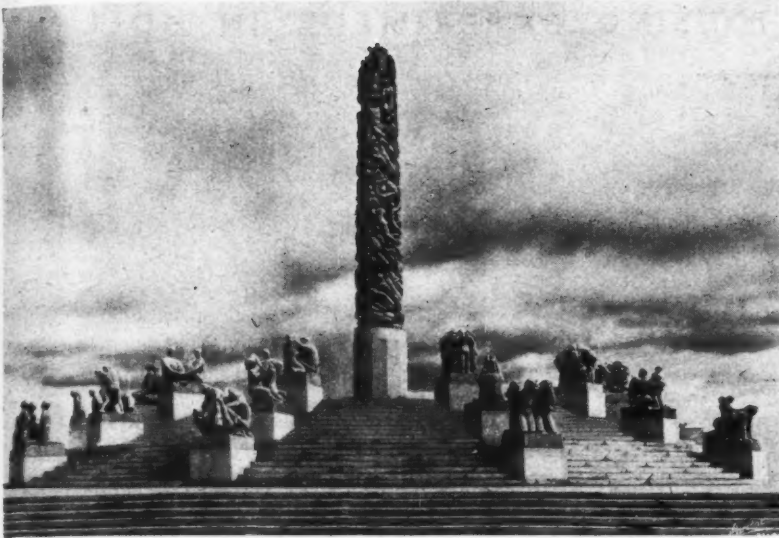
of this approach is that it is based on monetary values and, with a reverential bow towards the economists in passing, I suggest that monetary values are among the least stable in this world.

You remember the Minehead case, no doubt, where a licence was issued to build a certain house and that house was built. But, because a monetary standard of measurement was used, owner, builder and architect were forced to commit a crime when carrying out what the State had told them previously they might do. I don't think that is very satisfactory. If the State wants to spread a limited amount of labour and materials over a certain number of completed structures, the standard should be how much of each goes into each unit of housing, not how much money is spent in the process. The crime should be making two rooms where only one has been authorized, not in spending £10 more on bricks because the price of bricks goes up.

ART INSIDE . . .

One of the minor mysteries of our profession is what happens to all those brilliant draughtsmen whose work, year after year, is displayed at architectural students' exhibitions. Annually, I have often thought, the hearts of our current masters (such as Gordon Cullen and J. D. M. Harvey) must quail as they see the wave of youthful rivals about to break above them—and yet somehow it never breaks.

Perhaps the answer is that the best of them go on the films. Certainly I've seldom seen so slick, spirited and authoritative a set of drawings as some of those now being shown in the exhibition of Film Design at the V. and A. Here you can see an excellently arranged show, including not only set-designs, models, working drawings and photographs, but also many examples of that comparatively new responsibility of the art director, the "visual-continuity-strip." This consists of a series of tiny sketches prepared as a guide for the camera-man and director, to establish the scale, sequence and rhythm of the two-dimensional patterns on the screen. Hitherto ignorant of this process, which helps to explain the high visual standards of



The central point of Frogner Park, designed as a setting for the work of Gustav Vigeland, Norway's national sculptor. See Astragal's note.

many recent British films, I found the drawings fascinating, and strongly recommend a visit before the show closes in two weeks' time.

... AND OUT

Also worth seeing should be the LCC's exhibition of sculpture, which opens on May 13 in Battersea Park. The disappearance of the wealthy patron, who used sculpture to ornament his park, led to the incarceration of major works, at least in this country, in museums and art galleries or pintable saloons in Oxford Street. Forty works of sculpture are to be exhibited, including some by Epstein and Henry Moore that will be seen for the first time. Battersea Park will make a delightful setting, and a committee of sculptors has already been at work allocating the sites for the various pieces.

Chairman of the committee responsible for the exhibition is Mrs. Strauss (wife of the Minister of Supply). She is also chairman of the LCC Parks Committee. Other members are Sir Kenneth Clark, Sir Eric Maclagan and Dr. John Rothenstein, Director of the Tate Gallery. Sculpture from several nations will be represented, including work by Dobson, Gill, Lipchitz, Maillol, Mestrovic and Zadkine.

They will make a brave show, but they will still have cause to envy Norway's national sculptor Gustav Vigeland

(the Norwegian Carl Milles), who was given a whole park in which to exhibit his works in perpetuity. Not only did he decide the placing of his works, but he also designed the park as a setting for them. The centre piece of the whole scheme is a vast monolith (see illustration) composed of a mass of struggling sculptured bodies.

Vigeland's story is an interesting one. Born in 1869, he is a shining example of the boy who made good. From starving in a garret he became a national hero, and his solid, muscular granite men, women and children are an object of pilgrimage for all Norwegians. He worked on the group of sculptures destined to decorate Frogner Park from 1907 until his death in 1943. Vigeland's output was enormous; there are no less than 58 bronze groups on the bridge alone in Frogner Park. He was a firm believer in sculptural symbolism. Huge figures express the struggle of good and evil, mind over matter and the life force.

OUT OF THE FRYING PAN INTO THE FURNACE

The secretary of the Anglo-French Art Centre writes to complain that those pictures in the "What-the-Public-Likes" Show, which I had said were from the homes of artists, were, in fact, from the homes of "purely amateur painters." I gladly accept the correction, though the distinction upon

which it is based is new to me, but I still maintain that the artist—I beg your pardon, I'll write that again—the *amateur painter* is not a "common man," and his choice of pictures is unlikely to be fully representative of "common taste."

Another mild reproof, also from St. John's Wood, but this time from architect-engineer Alexander Furness, who accuses me of fostering antagonism between architects and engineers in my note (this page, 8/4/48) about Cox's paper at the AA. No fostering intended, Mr. Furness, and if you re-read carefully the crack about barbers and doctors—which is not mine, anyway, but Mr. Marshall's—you will find that the architect is its victim, not the engineer.

ASTRAGAL.

In Parliament

The decision to postpone the oak panelling for certain rooms in the new House of Commons, cutting expenditure on the project by some £137,000, means that members may be installed in their fresh quarters a little earlier than was anticipated. The matter was raised in the Commons last week by Earl Winterton (Con.—Horsham) who asked the Minister of Works why he had decided to depart from the Report of the Select Committee on the rebuilding of the House in the provision of panelling of certain rooms and in other respects. Earl Winterton called for a White Paper explaining in detail the deviation from the original scheme which the Minister proposed to effect.

Mr. C. W. Key replied that the plans for rebuilding the Chamber, the Lobby and the main approaches followed substantially the Report of the Select Committee. As regards the ancillary accommodation, in the process of developing the plans it was found possible to effect certain improvements, and these had been incorporated in the working drawings. Having regard to the rising cost of the scheme, and to the general need for making economies in money, labour and materials, it was decided to omit the oak panelling proposed for certain rooms. The panelling could, of course, be provided at some future date should this be found desirable. "I see no occasion for a White Paper to explain minor alterations and improvements which invariably occur to architects in the process of developing plans," the Minister added. "But I will willingly exhibit the final drawings."

Earl Winterton suggested that the alterations were a serious departure from constitutional precedent, as the Select Committee's Report had been approved by the Commons. The House should have been consulted about the matter. Mr. Key disagreed. Postponement of the panelling did not mean their final omission from the rooms concerned, therefore he saw no reason for thinking that there had been a serious departure from the opinions of the Select Committee. Mr. Churchill then asked: "Does leaving out the panelling mean that the House can be got ready quicker, or will it be slower?" Mr. Key's reply was: "I should say that it would help to get the job done more quickly, but I

cannot give the exact time that will be involved."

Facts and figures about the progress of industrial building were given by the President of the Board of Trade, Mr. Harold Wilson, in the course of the debate on the Budget. He disclosed that since the end of the war 2,300 new factories and extensions have been completed, are under construction or about to be started. The Development Areas, with only one-seventh of the country's working population, are accounting for nearly two-thirds of the total volume of new factory building going on in Britain. In all, a thousand new factories and extensions are in hand for the Development Areas, costing £69,000,000, and scheduled to provide employment for nearly 200,000 people. Three hundred and thirty factories have already been completed and another 600 are in course of construction.

During the same debate the Chancellor of the Exchequer, Sir Stafford Cripps, referred to the pressing problem of the brick yards, where stocks for which there is no immediate use are piling up, with the consequent threat of unemployment for the workers. Sir Stafford pointed out that the capital expenditure programme had had to be cut, and said that it was hoped the steps the Government were now taking would carry the industry over its difficult period until the time when bricks were again needed in large quantities. He emphasised that even now there was no actual unemployment in the industry. Meanwhile, bricks are still being imported into Britain. Mr. Key, the Works Minister, told members during question time in the House. They were, however, supplies due under private contracts of long standing, and no applications for import licences had been made in recent months.

HOUSING EXPERIMENT IN HOLLAND



Among the housing schemes that are now under construction in Dutch cities, to meet the post-war housing shortage which is quite as severe in Holland as in England, is one that serves as a unique experiment in field research. On the outskirts of Rotterdam, in the residential district of Carnisse-buurt, 3,000 flats are being built in three-storey blocks, arranged in parallel rows. In one of the blocks different finishing materials and types of equipment are being used in adjoining flats in order to try them out under actual living conditions. External and internal wall finishes, insulating materials, heating and ventilating systems, types of standard windows, floor surfaces and hot-water systems are all the subject of this experiment. Recording instruments are being installed where necessary and the flats will be inhabited in the ordinary way. Periodic inspection will allow the durability of finish, the comfort provided, the economy of fuel consumption and of the various materials and equipment to be tested in exactly comparable situations. The experiments are being conducted by the Technical University of Delft. Above, workmen applying a tiled external wall surface and an internal rendering. Below, the partially completed block showing different wall finishes on adjoining flats.



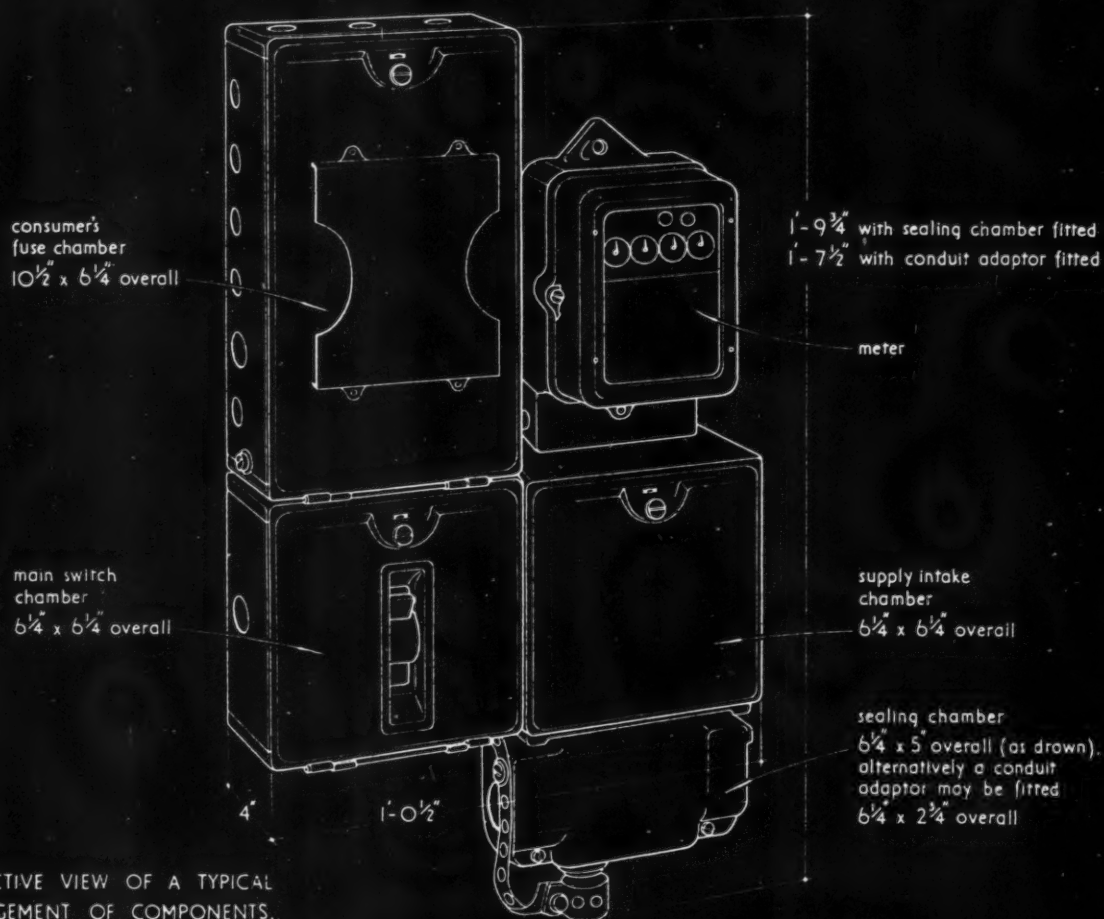
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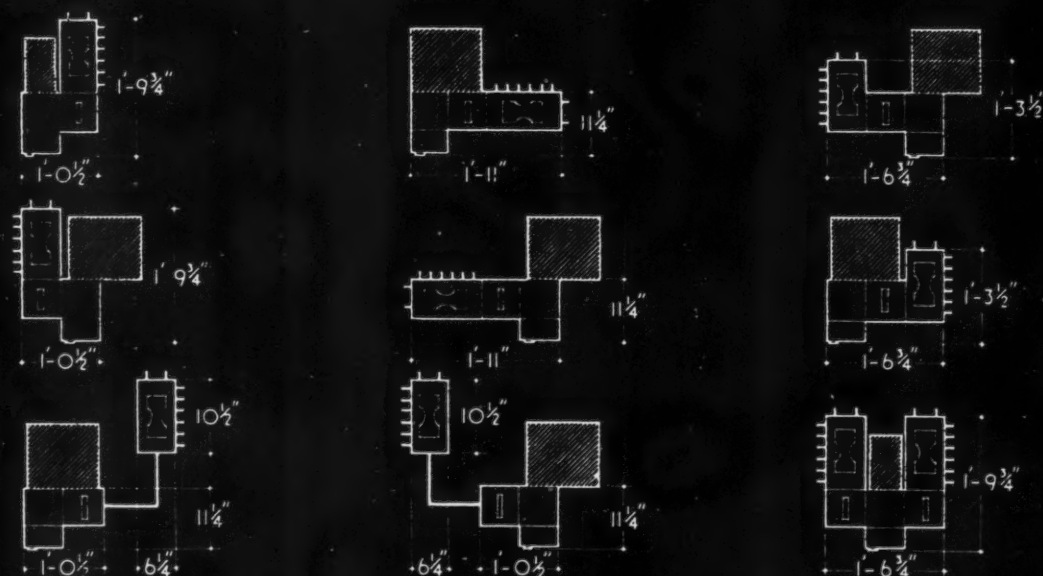
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37.C1

The Architects' Journal Library of Information Sheets 59. Editor: Cotterell Butler, A.R.I.B.A.



PERSPECTIVE VIEW OF A TYPICAL
ARRANGEMENT OF COMPONENTS.



DIAGRAMS SHOWING ALTERNATIVE ARRANGEMENTS (meters shown hatched).

CONSUMER'S SERVICE UNIT.

Manufacturer: British Insulated Callender's Cables Limited.

37.C1 CONSUMER'S SERVICE UNIT

This Sheet describes an electric service unit which combines in one compact assembly the service intake equipment and the sub-circuit control gear for domestic electrical installations. The unit is designed for use on 250 volt A.C. circuits up to 60 amperes. The perspective view illustrates the three main components—the supply intake chamber, main switch chamber and consumer's fuse chamber—and indicates the overall dimensions. The meter illustrated is a standard quarterly type, but the unit is designed to take any type of quarterly or prepayment meter.

The lower diagrams give nine alternative arrangements for assembling the components; the meters are indicated by hatching—the large ones are of the prepayment type and the small of the quarterly type. An arrangement is also available to accommodate two meters; the out-going circuits are controlled by two four-way consumer's fuse chambers of smaller size.

Components

Supply intake chamber: This contains the high rupturing capacity main fuse and neutral connector, sealing chamber or conduit adaptor and connections to meter.

Main switch chamber: This contains the main switch and on/off indicator.

Consumer's fuse chamber: This contains up to eight sub-circuit fuses, 5, 15 and 30 amperes of the high rupturing capacity type, together with spare cartridges. The design is such that fuses can be renewed readily and with complete safety to the householder.

Special adaptors: Adaptors are available to render the units suitable for use with conduits laid under the surface and for rising mains in blocks of flats.

Construction

The chambers and lids are of rustproofed sheet metal and are so proportioned as to line up satisfactorily in a wide variety of positions. Ventilation is provided for and the covers and shields are arranged to prevent the entry of dust. Each chamber can be sealed if desired. Spare ports and outlets are blanked off by spring plates (removable from the inside only) and connections between chambers are fully insulated, the ports being bushed.

Finish

The standard finishes are cream or black stove enamel.

Compiled from information supplied by:

British Insulated Callender's Cables Limited.

Address: Norfolk House, Norfolk Street, London, W.C.2.

Telephone: Temple Bar 7722.

Telegrams: Bicalbest, Estrand, London.

Works: Erith, Helsby, Leigh (Lancs.) and Prescott.

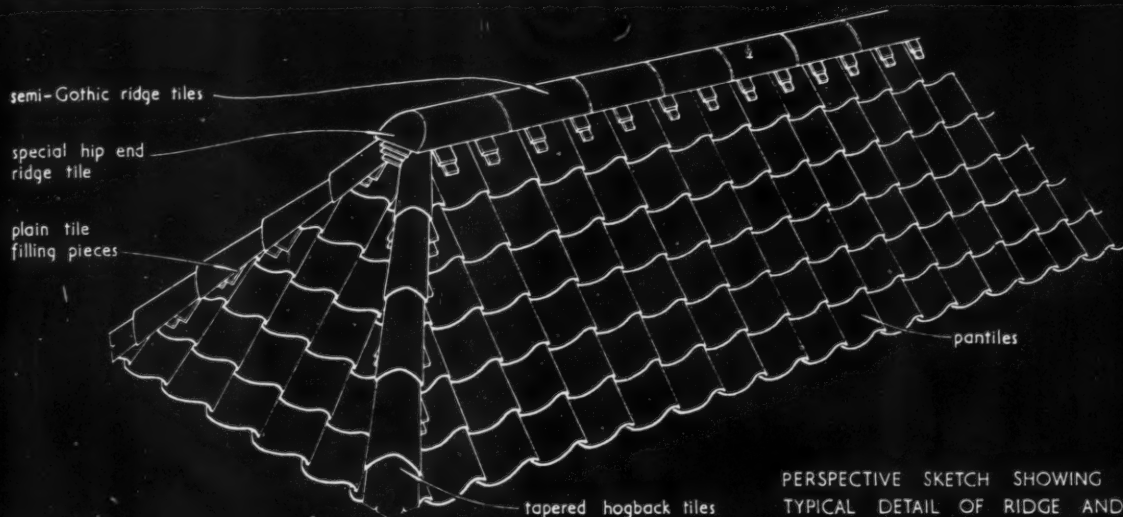
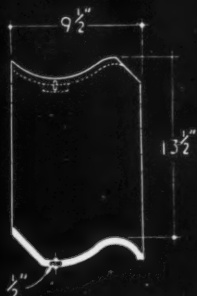
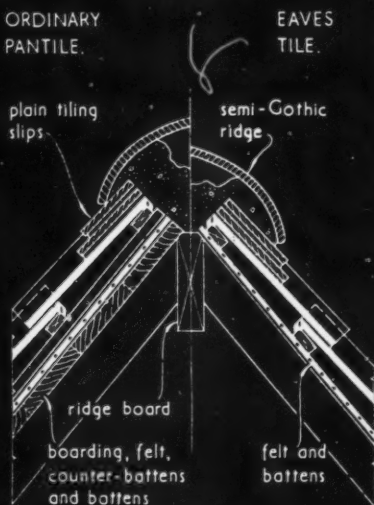
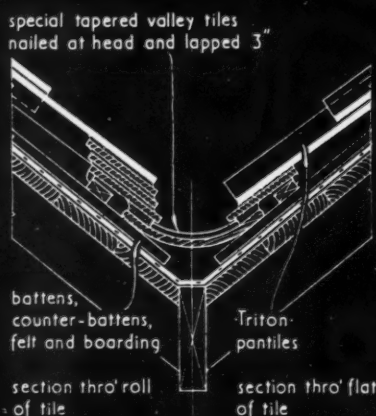
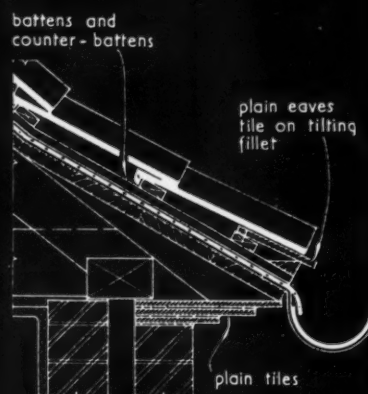
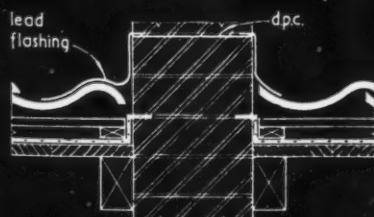
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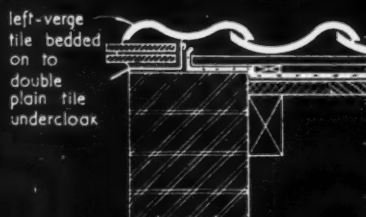
PITCHED ROOF TILES | CLAY | GENERAL DATA

17.B2

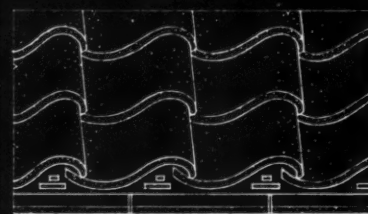
The Architects' Journal Library of Information Sheets 60. Editor: Cotterell Butler, A.R.I.B.A.

PERSPECTIVE SKETCH SHOWING
TYPICAL DETAIL OF RIDGE AND HIP.ORDINARY
PANTILE.EAVES
TILE.LEFT-VERGE
TILE.TOP COURSE OR
RIGHT-VERGE TILE.CORNER
TILE.SECTION THRO' RIDGE SHOWING
ALTERNATIVE FINISHES.TYPICAL DETAIL OF VALLEY
CONSTRUCTION.TYPICAL DETAIL OF FINISH
AT EAVES.

TYPICAL DETAIL AT ABUTMENTS.



TYPICAL DETAIL AT VERGE.



ELEVATION SHOWING FINISH AT EAVES.

17.B2 · TRITON · CLAY PANTILES

This Sheet describes Triton hand-made sand-faced clay pantiles. The drawings and text matter on this Sheet have been prepared in accordance with the draft British Standard Code of Practice, CP (B) 586 : 1946. The tiles measure $13\frac{1}{2}$ in. by $9\frac{1}{2}$ in. overall. The minimum pitch recommended is 35° , the gauge is $10\frac{1}{2}$ in. and the lap 3 in.

Colour : Tiles are supplied in natural fired colours—light, medium and dark brindled, blue and grey—and in stained colours—red, green, variegated lichen, black, brown and dun.

Covering capacity : The covering capacity is approximately 165 tiles per square (100 sq. ft.) which equals approximately 15 tiles per square yard.

Weight : The weight per square is approximately $9\frac{1}{4}$ cwt. and the weight per 1,000 tiles approximately 2 tons 16 cwt.

Roof Construction

Pantiles should be fixed on battens not less than $1\frac{1}{2}$ in. wide by $\frac{3}{4}$ in. thick. The battens should not be set out until the tiles have been delivered to the site and have been checked for size. The normal type of roof construction is to lay untearable felt directly over the rafters and fix the battens through it. The pantiles are then laid dry. In better class work the roof may be boarded, felted, battened and counter-battened in the usual way.

Nailing

Except where specified below, the tiles should normally be nailed with one nail to each tile in every alternate course, and on more exposed sites, in every course. On roofs at pitches of 45° or over, each tile should be nailed. At pitches of 55° and over, additional precautions should be taken to secure the lower edge of the tile. At verges, at each side of valleys and hips and where a roof meets an abutment along an inclined line, each end tile in every course should be nailed. At eaves and top edges, two courses of tiles should be nailed. Nails should be of the larger and heavier variety, should have substantial heads, and be of yellow metal, copper, zinc, galvanised iron or steel. It is important to ensure that the nails used are durable under the proposed conditions of exposure, e.g., in chemical factories it has often been necessary to use lead nails. To avoid the risk of percolation of water the nail hole in Triton pantiles is placed at the top end of the tile, through the nib.

Bedding Mortar

It is recommended that a cement gauged lime mortar be used in preference to cement mortar, a suitable mix (all by volume) being :—

- 1 part Portland cement.
- 1 part slaked lime or lime putty.
- 5-6 parts clean sand.

Such a mix has adequate strength and adhesion for the work and is less likely to develop shrinkage cracks than the denser cement mixtures.

Details

Ridge : A semi-Gothic ridge tile suitable for roofs pitched between 60° and 35° is made for use with Triton pantiles, the hollows in the top course being filled with purpose made slips of plain tile, sizes 7 in. by $4\frac{1}{2}$ in. and $10\frac{1}{2}$ in. by 3 in., bedded in cement gauged lime mortar. Special hip-end ridge tiles are made for the junction between ridges and hips as shown on the face of this Sheet.

Hips : A tapered hog-back tile, 18 in. long, tapering from 11 in. to $9\frac{1}{2}$ in. is used for the hips, head nailed, with a lap of 3 in. and the hollows between the rolls of the roof tiles are filled as for the ridge.

Valleys : The valleys are formed with tapered hog-back valley tiles, lapped 3 in., and laid on the counter-battens or on the roofing felt and nailed, two nails to each tile. A strip of stout waterproof felt, not less than 2 ft. wide should be laid down the full length of the valley and turned into the gutter in order to carry off any water that may percolate through with this form of valley construction. The voids formed by the cut ends of the pantiles may be filled with slips of plain tile as shown on the face of this Sheet.

Eaves : The eaves are formed by bedding the last course of pantiles (which are specially made without the bottom cuts) on a course of plain creasing tiles $10\frac{1}{2}$ in. by $6\frac{1}{2}$ in. laid sideways and fixed through two nail holes drilled in the long side. The eaves tile should have a slight tilting fillet and the voids in the ends of the pantiles should be filled solid with mortar and slips of plain tile.

The roofing felt should lap over the roof gutter. An alternative finish at the eaves is obtained by stopping the main roof some distance up the slope and continuing to the eaves with three or four courses of plain tiles. In addition to altering the appearance of the roof, this method also helps to spread the water from the hollows of the tiles more evenly during heavy rain.

Abutments : The details illustrated on the face of this Sheet give the method of flashing the joint between the roof and a wall or the side of a chimney. Metal flashings are recommended in every case.

Verges : The detail of the finish at a verge shows a metal flashing bedded under the tile creasing.

Contractor

The information given on this Sheet fully covers the fixing practice recommended for Triton pantiles. It is strongly recommended, however, that experienced roofing contractors should be employed for this work wherever possible.

Compiled from information supplied by :

Wheatly & Co. Ltd.

Address : Springfield Tileries, Trent Vale, Stoke-on-Trent.

Telephone : 66251 Newcastle, Staffs.



SHOP AT BOURNEMOUTH

DESIGNED BY PAKINGTON, ENTHOVEN & HIGHET

Top, the uninterrupted view from outside the shop window; bottom, the entrance lobby and display.

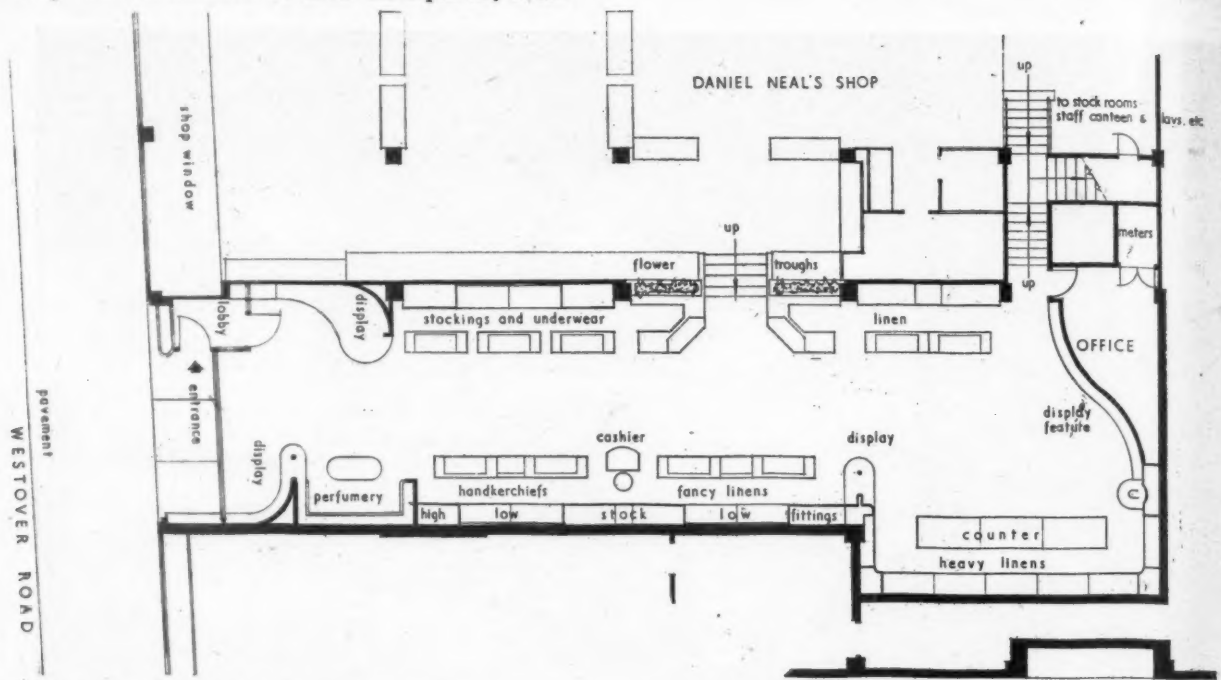


GENERAL.—Messrs. Robinson & Cleaver and Messrs. Daniel Neat have together rented the ground and first floor front portion of an existing building in Westover Road, Bournemouth; of this Messrs. Robinson & Cleaver's area is about a quarter of the whole. The rear of the building is occupied by a ramped garage, with entrance at approximately first floor level. The loading bay and service entrance for the two shops as well as services and stockrooms are therefore planned at first floor level. The ground floor of the premises is used for the two show-rooms, which are kept separate on slightly different levels but connect through an ample lateral opening. Loading bay, canteen and certain services are shared by the two firms.

PLAN.—The shop [window] is designed as one large sheet of glass. There is no window back,

so that an uninterrupted view is obtained right into the shop. The window is set back from the building line so as to contrast with the windows of the adjoining shop, which are flush with the building line, to give protection from the sun, and to permit people inspecting goods to stand clear of the pavement traffic. The entrance is so planned to obtain maximum shelter from the south-west gales. On either side are external show-cases whose horizontal lines are followed by those of the internal displays, and lead the eye into the interior. Near the entrance there is a display stand with illuminated ceiling designed as a perfumery, but at present used for general merchandise.

CONSTRUCTION.—In view of the shortage of timber, the shop fittings are constructed of steel and laminated plastic panels. These materials cannot be adjusted



GROUND FLOOR PLAN [Scale: $\frac{1}{8}" = 1' 0"$]

Bottom, the stairs to the adjoining shop.



S H O P A T B O U R N E M O U T H :



Top, the showroom looking from the entrance; bottom, the perfumery.

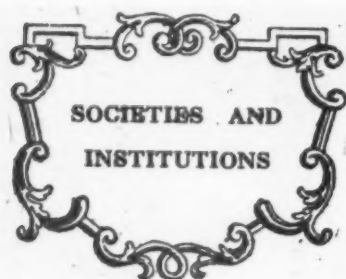
on the job and the construction details therefore have to be carefully worked out so that assembly can all be done at the factory. The shop window is in $\frac{3}{4}$ in. polished plate glass, the frame and other external members being sheathed in bronze. The jambs and ceiling of the recess outside the shop window are faced with travertine, the latter being pierced for three port-hole type lighting fittings.

SERVICES.—The showroom is heated by ceiling heating panels connected to the existing low pressure hot water system. As under present restricted conditions no false ceiling could be built, the panels are applied to the surface of the existing ceiling.

The lighting is by means of nine-foot triple fluorescent cold cathode type fittings which give good even illumination for general display. The intermediate white colour gives the minimum amount of colour distortion. Wall sockets have been provided at fairly frequent intervals over the fittings so that future flood lighting can be added if required.

For list of contractors see page 382.





Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.

HC

B. Agard Evans

March 16. At the Housing Centre, 13, Suffolk Street, S.W.1. HOUSING AND BUILDING BOOKS. Mr. Colin Penn was in the chair.

B. Agard Evans: The principal thing about housing and building books is that there are far, far too many of them. My shelves are cluttered up with thousands of books that never ought to have been written—or, having been written, ought never to have been published. Building is not a process of thought, like philosophy; philosophy exists in thought and is transmissible only through discussion or dissertation. Neither is building a subject depending primarily on theory for its development, like mathematics or economics. It is not really an abstruse subject like art, wherein you need to study very hard to understand what the artist "means"—though there is a tendency at times towards artiness in architecture. Basically, building is a craft to which art and science can and should contribute in their turn. It requires a literature, but the literature should rightly be prosaic and factual.

Building, and particularly housing, is a matter of interest, if not concern, to a large public. It is a subject which is open to understanding by very many people and a matter of practical importance to a wide range of people outside the million or so in this country engaged in doing it. House design and its equipment is a matter of daily preoccupation with 13 million or so housewives. Councillors and welfare workers are right in the thick of the housing problem.

This enormous potential market has made it easy for the launching of the most awful rubbish. A type of technical journalist has got on to a good thing and can find a ready sale for half-baked, ill-considered pot-pourris; architects without clients fill in the time either by putting together odds and ends or try to create reputations by putting forward ill-digested and indigestible theories or ideas. If many modern books had still

to be copied individually on to vellum, many a transcribing monk would, in the words of the poet, "leap from his cell with a hell of a yell" and perpetrate one of the more terrible of the mortal sins.

Apart however from the diligent search for facts, the careful conception and execution of the work as a whole, the checking, cross-checking and rewriting which should go to the making of a book, and which is conspicuously absent from 80 per cent. of modern books, apart from this, I am profoundly convinced that the traditional book form, with its 300-600 pages and its stiff cover, is, in general, an unsuitable medium for conveying information on building matters.

A technical work cannot well be undertaken by a professional writer, as novels are done; least of all should they be written by journalists, either ex, present, or potential journalists. They will, in the main, be put together as a part-time occupation; they cannot ordinarily be written in less than a year, and they will be fortunate if they appear in the bookshops in less than another year. Hence, although the most modern developments may be hurriedly squeezed in at the last moment, they will basically be two years old on publication.

If, therefore, the object of publication is to convey new ideas, the book-form fails. Added to this, very few ideas really need 100,000 words to describe. In general, the pamphlet form is the most appropriate for monographs, for conveying news, expressing a theory or presenting an analysis. This form is being adopted to-day more and more for technical literature, and I estimate that 50 per cent. of the inquiries with answers in the printed field with which we deal are answered by reference to pamphlets, as against less than 20 per cent. from books. The remaining 30 per cent. are answered from articles in periodicals, which are a very important medium for early publication.

THE BOOK NUISANCE

One of the prime causes of the persistence of the book nuisance is uninformed public opinion. We use books at school, read textbooks at the Universities, and we find in the public and older libraries virtually no provision for pamphlet material, which is rather scornfully referred to as "ephemera." Booksellers, too, are conservative, dealing almost wholly with the older form, so that the normal channel between the author and a large section of the public is practically restricted to the book form. The position is changing, however, and the activity of HM Stationery Office, extending into broader fields, is helping to influence the issue. The most pernicious form of book is the "Symposium"; a number of experts each contributes a few thousand words on his subject, and these unrelated monographs of very unequal value are strung uneasily together between covers and are linked by a platitudinous editorial by an editor who makes no attempt and would not dare to edit the contributions. I recently started to perpetrate one of these monstrosities, and received the contribution of an eminent gentleman, with whom I do not always see eye to eye, accompanied by the stricture that "it must be printed in full and without amendment."

Heating, lighting, and a host of other subjects are all mixed up together, and a man really wanting to get the latest information on plenum systems is expected to plough through piles of books covering brickwork, architecture, linoleum, and garden lay-out.

DOCUMENTATION

I should like to turn for a few minutes to the consideration of the various bibliographic tools available to the student of building or architecture. In round figures there are about 250 periodicals published in this country on building. These contain four thousand articles of fair technical or statistical interest. There are four thousand books and pamphlets published annually on

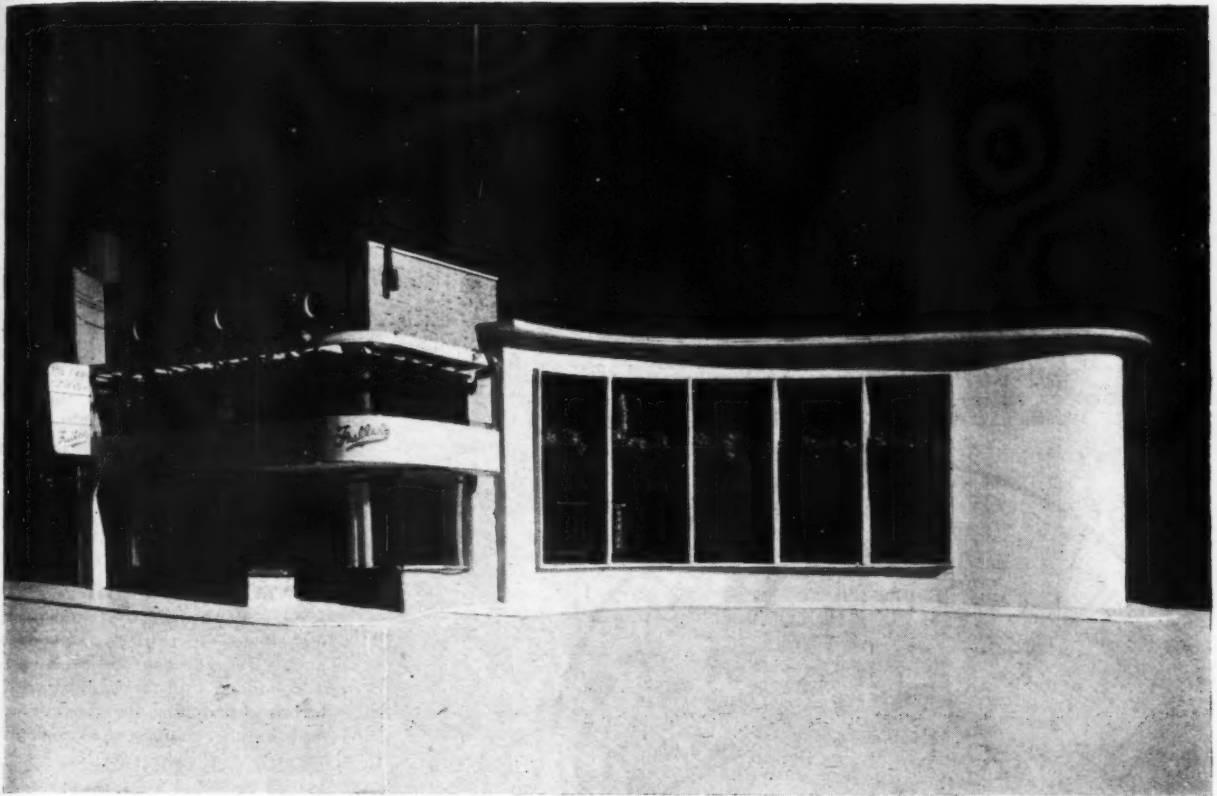
this subject in this country, excluding patents and trade catalogues. The man who wishes to be fully informed on building matters must be prepared to read 25 books, pamphlets, or periodical articles every day; if his interest is mondial he must read 100 a day. Naturally such a performance is impossible, but there are organizations capable of assisting readers from the casual to the professional.

For the casual though serious student, the man who wants to have a good idea of what is going on in the field of building, it would suffice to read two or three periodicals weekly or monthly. The first choice of periodical will be *The Builder*, which gives a wide conspectus of the subject and a great deal of the news. For the architecturally inclined there is a wide range from the *RIBA Journal*, *The Architects' Journal*, and *The Architectural Review*, onward; the leading American papers are *Architects Forum* and *Architectural Record*. The municipal journals naturally devote to building and housing space roughly comparable to the place of the subject in municipal affairs. For the choice of books and pamphlets the casual student will find a large number of the more interesting reviewed in *The Builder*.

Before I go on to the various sources of information I must draw your attention to the really excellent survey made by our chairman, Mr. Colin Penn, to the Architectural Science Board last year; a full account appeared in the *RIBA Journal* for November, 1947. Members of the Housing Centre in search of books and pamphlets on housing have a very discerning selection offered to them by the Centre, with the additional advantage of being able to buy them on the spot. An excellent selected list is to be found in *Aslib Book List*, published by Aslib (Association of Special Libraries and Information Bureaux) monthly; it has long been a quarterly and has only this year changed over to monthly. The analysis of the literature is carried out in three centres in this country, namely, RIBA Library, BRS Library, MOW Library. In each case the point of view is different, so though overlap is inevitable, the lists are in fact complementary. The RIBA select books and pamphlets on architecture and articles from 220 periodicals of world provenance. These are published in the *Library Bulletin*, price 10s. (free to members). BRS also select material from world sources and include them in BSA. MOW also select material from world sources, with the practical and administrative aspects of building to the fore. The range is rather wider than RIBA or BRS, and the *Library Bulletin* includes matter relating to the Civil Service, ceremonial and other interests of the Ministry.

All these "analytical bulletins" are to be found in the Housing Centre and in many of the more progressive public libraries. If they are not to be found in your library, a hint to the librarian would probably result in the deficiency being amended. Cumulative records are available in the complete volumes of *Building Science Abstracts*, with their detailed subject indexes. The Ministry of Works also produces six-monthly consolidated lists of books and pamphlets and an annual consolidated list of references to the periodical literature. Examples of these are here for your inspection. The above four organizations also prepare bibliographies on special subjects, which can be bought for small sums. A useful bibliography is also to be found each year in F. J. Osborn's *Planning and Construction Year Book*.

Finally, you should make a point of consulting *Government Publications*. The monthly list, which appears a few weeks after the month covered, is a convenient one to consult and is furnished with an index. The official publications contain most of the new statistical material, give the full accounts of new research, or assemble the views of authoritative committees or working parties.



From north-west.

RESTAURANT AT TORQUAY

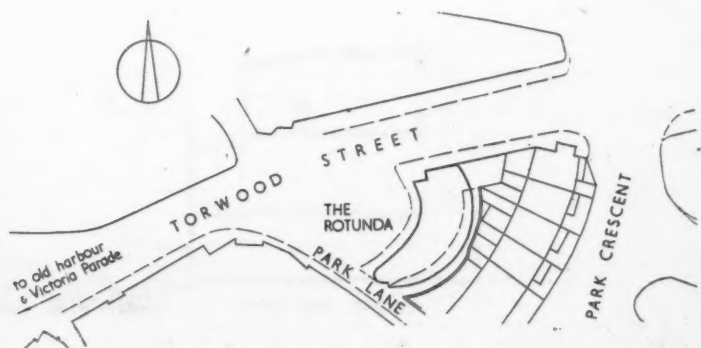
DESIGNED BY
E. C. KENT

GENERAL.—Restaurant to seat approximately 240 on three floors, basement smoke room (55), ground floor (82) and first floor (100). Main access from street through the confectionery shop, but separate access is provided to first floor, which can be let off to private parties. Separation can be effected by two sets of sliding partitions. Service rooms were required at all three restaurant levels and are connected to kitchen in basement by electrically-operated service lifts. The height of the building was re-

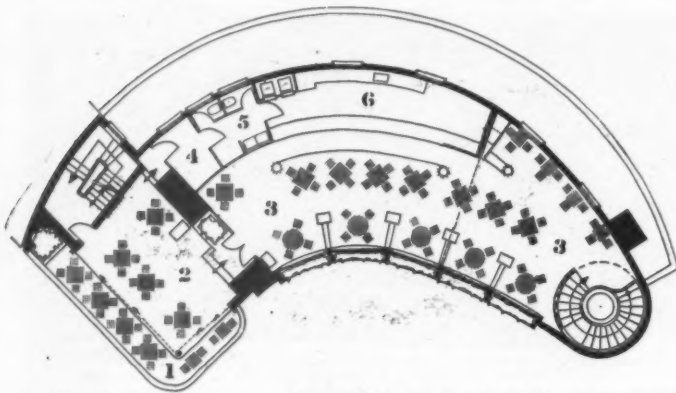
stricted to two storeys with a stepped profile at the rear to minimise light obscuration for the adjoining owners. Only against the north boundary was it possible to build slightly higher, up to the parapet height of the adjoining property.

SITE.—The site is that of the old Rotunda building which originally was a ring-shaped structure open to an inner court, most of which was demolished early in the 19th century, except for a short length adjoining the then newly

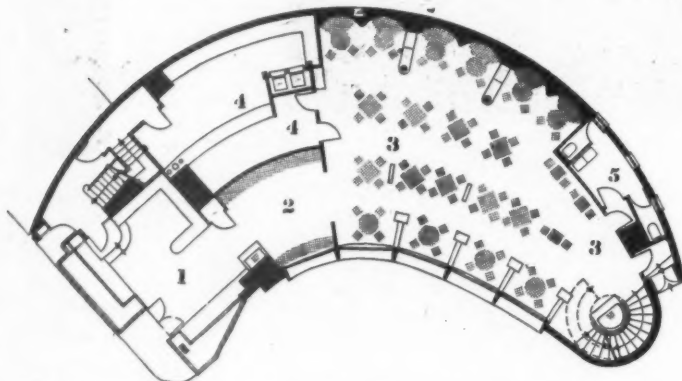
Below, the existing bombed shop.



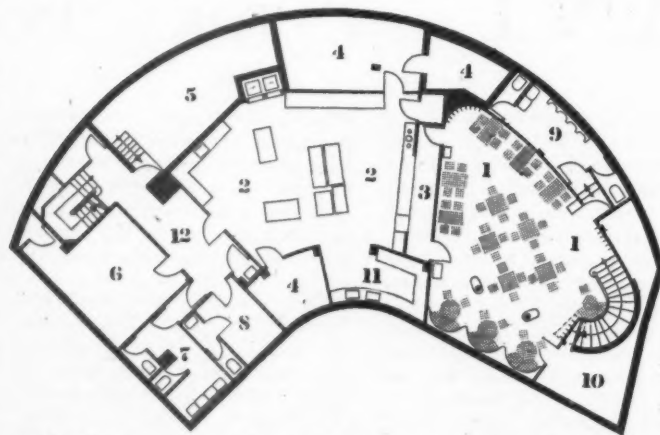
SITE PLAN



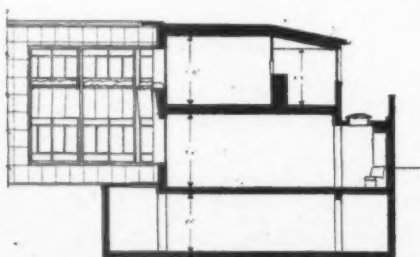
FIRST FLOOR—1, Balcony; 2, Crush Hall; 3, Tea Room; 4, Women's Cloaks; 5, Women's Lavatory; 6, Servery.



GROUND FLOOR—1, Shop; 2, Lounge; 3, Restaurant; 4, Servery; 5, Women's Lavatory.



BASEMENT—1, Smoke Room; 2, Kitchen; 3, Servery; 4, Kitchen Store; 5, Boiler House; 6, Staff Room; 7, Staff Lavatory; 8, Manageress; 9, Men's Lavatory; 10, Ventilation Plant; 11, Wash-up; 12, Kitchen Lobby.



CROSS SECTION

[Scale: $\frac{1}{8}'' = 1'0''$]

RESTAURANT AT TORQUAY

laid out Torwood Street. This remnant was faced up with a Victorian mask and served as a china shop which received a direct hit during the war.

CONSTRUCTION.—As the site has a comparatively high sub-soil water level, the basement is completely tanked. The construction is in reinforced concrete; raft and retaining walls in basement reinforced concrete; upper storeys, reinforced concrete frame and large span hollow tile floor slabs with no projecting beams. External cladding: natural stone in the three storey section (re-using the actual material from the old Rotunda building); light-cream artificial stone slabs on the concave front and rounded corner. Roof construction: 3-ply bituminous felt with grit finish on reinforced-concrete slab. Metal windows throughout.

VENTILATION AND HEATING.—The heating system consists of low-temperature embedded panels served from oil-fired cast-iron boilers. Full mechanical ventilation is provided for the kitchen and smoking room in the basement.

INTERNAL FINISHES.—These are so designed that they can be improved upon as high-class finishing materials become more easily available. Floor finishes: terrazzo in shop and on public staircases, screed for carpet in tea-rooms except for a section of the first floor which is to be parquet. Lavatories, kitchen and service rooms tiling or Vitrolite throughout. Walls in restaurant throughout to be plastered and distempered to begin with, but designed for later panelling.

Below, two views from Torwood Street.



CURRENT MARKET PRICES OF MATERIALS

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

Rates of Wages last rose on November 16, 1947, and are now as follows:—

LONDON DISTRICT				Craftsmen.	Labourers.
Within 12 miles radius	..	..	..	2s. 10½d.	2s. 3½d.
From 12-15 „ „	..	..	..	2s. 10d.	2s. 3½d.
LIVERPOOL and DISTRICT				2s. 10½d.	2s. 3½d.
GRADE CLASSIFICATIONS				A	A ¹
				A ²	A ³
Craftsmen..	2s. 9d.	2s. 8½d.	2s. 8d.	2s. 7½d.	
Labourers..	2s. 2½d.	2s. 2d.	2s. 1½d.	2s. 1½d.	

T. Davis

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

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

* In non-returnable paper bags charged at 11/- net per ton or 7d. each net per bag in lots of less than 1 ton.

* In non-returnable jute sacks charged at 11/- net per ton or 7d. each net per sack in lots of less than 1 ton.

* In returnable jute sacks charged at the rate of 35/6 net per ton of cement or 1/9½ net per sack in lots of less than 1 ton. Credit on return at 1/6 net per sack.

* In returnable cotton sacks charged at the rate of 66/8 net per ton or 3/4 each sack in lots of less than 1 ton. Credit on return at 3/- net per sack.

† Supplied in paper bags and/or non-returnable jute sacks—9/- per ton extra in 1-ton lots or more, 6d. net each bag or sack in lots of less than 1 ton.

		6 tons and over	In 80-ton freights F.A.S. Safe Wharf in River Thames London Area.
* Portland to B.S. 12	per ton	60/6	58/-
* Rapid hardening to B.S. 12	„	66/6	64/-
† Aquacrete water repellent	„	92/-	
† "417" cement (quick setting, extra rapid hardening)	„	82/-	
† Colorcrete, red, buff and khaki	„	102/-	
Colorcrete, other shades.	„	183/- to 407/- (paper bags free)	
Snowcrete....	„	(Minimum 1-ton lots) 234/- (paper bags free)	
		1-9	10-19 1 ton and upwards
Ciment Fondu to B.S. 915 delivered London area	per cwt.	16/9	15/- per ton 244/-

Aggregate and Sands (Full Loads)

† Unscreened ballast to B.S. 882, Table 5	per yard cube	14/5
† (Down) Washed, crushed and graded shingle to B.S. 882, Table 2	per yard cube	14/5
† (Down) Ditto	per yard cube	15/5
† Broken brick	per yard cube	14/6
† Ditto	per yard cube	16/-
Washed pan breeze	per yard cube	10/6
† Sharp washed sand to B.S. 882, Table 3	per yard cube	16/4
White Silver Sand for white cement (one ton lots)—		
Fine	per yard cube	66/-
Coarse	per yard cube	48/9
(For Sands for Bricklaying and Plastering, see respective trades)		

Pavings

Brick hardcore	per yard cube	6/6
Concrete ditto	per yard cube	6/6
Clean furnace clinker and boiler ashes	per yard cube	3/6
2" coarse gravel for paths	per yard cube	17/6
† fine ditto	per yard cube	20/-
Clean granite chippings to B.S. 1201, Table 4 (in 5-ton loads)	per ton	42/6
Ditto (in 5-ton loads) (Immediate delivery)	per ton	45/6

Reinforcement

Home trade maximum basis price for mild steel rods to B.S. 785, ½" diameter and upwards, ex mills delivered to station or siding	per ton	£19 12 6
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CONCRETOR—(continued)

Reinforcement—continued

Extras for:—				
Under ½" to ¾" diameter	per ton	15 0		
Ditto ¾" and over ¾" diameter	per ton	£1 2 6		
¾" and over ¾" diameter	per ton	£1 10 0		
¾" and over ¾" diameter	per ton	£1 17 6		
¾" and over ¾" diameter	per ton	£2 5 0		
¾" and over ¾" diameter	per ton	£2 12 6		
¾" diameter	per ton	£3 0 0		
Under ½" to ¾" diameter	per ton	£4 10 0		
Lengths over 40 ft. to 45 ft.	per ton	15 0		
„ „ 45 ft. to 50 ft.	per ton	£1 2 6		
„ „ 50 ft. (as 50 ft. plus per ft.)	per ton	2 6		

Fabric Reinforcement

16.35 lb. 9.32 lb. 5.67 lb. 1.83 lb.				
Steel wire mesh fabric to B.S. 1221, Part A per yd. super.	5/7½	3/2½	1/11½	1/0½
10.76 lb. 7.32 lb. 5.17 lb. 1.58 lb.				
Steel wire mesh fabric to B.S. 1221, Part B per yd. super.	3/0½	2/6½	1/10	-1/11½

Sundries

Retarding liquid, in 5-gallon drums (for exposing aggregate)	per gallon	25/-	Ex Warehouse, Southwark Bridge. Drums chargeable and credited, if returned.
Ditto (for obtaining a bond)	per gallon	15/7½	

BRICKLAYER

Common Bricks

Common stocks	per 1,000	109/6
Rough stocks	per 1,000	119/6
Mild stocks	per 1,000	161/6
Sand limes	per 1,000	78/9
† Phorpres pressed Flettons	per 1,000	73/-
† Phorpres keyed Flettons	per 1,000	75/-

Facing Bricks

Best white sand limes	per 1,000	120/-
Ditto in red, blue, grey, ivory and buff	per 1,000	140/-
† Phorpres rustic Flettons	per 1,000	93/-
Stocks, firsts	per 1,000	206/6
Stocks, seconds	per 1,000	191/6
Sandfaced, hand made reds	per 1,000	241/6
Red rubbers (9½")	per 100	55/-
† White facings	per 1,000	100/-
Coloured facings (creams, buffs, browns and terra-cotta)	per 1,000	120/6
† Dunbriks (concrete), greystone facings	per 1,000	132/6
† Dunbriks (concrete) various colours	per 1,000	152/6
† Southwater pressed sandfaced reds	per 1,000	184/6
† Dorking pressed sandfaced multicoloured facings	per 1,000	163/-

Engineering Bricks

† Lingfield engineering wirecuts	per 1,000	126/-
† Southwater or Lunsford engineering No. 1 (first quality red pressed)	per 1,000	209/6
† Southwater or Lunsford engineering No. 2 (second quality red pressed)	per 1,000	182/-
2½" White Engineering bricks to B.S. 187	per 1,000	120/-
* Blue pressed bricks to B.S. 1301	per 1,000	160/-
* Plus 1½% plusage, 5 per cent. builders cash discount, 6d. per 1,000 levy.		
† At Kings Cross (Maiden Lane) Stn. For delivery in W.C. district add 15/- per 1,000.		
† Plus 6d. per 1,000 levy—prices ex works—Haulage extra.		

Firebricks

Firebricks, best Stourbridge, 2½"	per 1,000	55/3
Ditto, 3"	per 1,000	66/6

BRICKLAYER—(continued)

Glazed Bricks		Best quality			Seconds		
		£ s. d.			£ s. d.		
White, Ivory or Brown, 9" × 2½" × 4½" :—							
Headers	per 1,000	39	10	0	37	10	0
Stretchers	per 1,000	40	0	0	38	0	0
Buff or Cream ditto :—							
Headers	per 1,000	41	10	0	39	10	0
Stretchers	per 1,000	42	0	0	40	0	0
All prices for glazed bricks + 22½%.							

Limes and Sands

		1 ton lots.		
		£ s. d.		
Lime, greystone, to B.S. 890	per ton	84	9	
Lime, chalk, ditto	per ton	84	9	
*Lime, hydrated, ditto	per ton	89	6	
*Lime, blue lias	per cwt.	7	6	(small quantities)

Washed pit sand to B.S. 1200 per yard cube 16/4
(For cements, see "Concrete.")
* 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	84/-
12 s.w. gauge ditto	per 1,000	71/6
Wall ties, self coloured, 8" × ½" × ½", to B.S. 1243	per cwt.	58/9
Wall ties, galvanized, 8" × ½" × ½", to B.S. 1243	per cwt.	78/9
Damp proof course slates :	Welsh	
Size 14" × 9"	per 100	48/9
" 14" × 4½"	per 100	24/-
Hessian based bitumen damp course to B.S. 743	per yard super	4/3
Airbricks :	9" × 3" 9" × 6" 9" × 9" 14" × 9"	
Red and buff terra-cotta each	1/1 2/4 5/9 15/5	
Black cast-iron School Board	9" × 3" 9" × 6" 9" × 9" 12" × 9"	
pattern airbricks each	1/8 2/11 4/3 5/3	
Galvanized ditto each	2/6 4/6 6/3 8/-	
Black hit-and-miss cast-iron ventilators	each 3/- 4/3 7/3 —	
Galvanized ditto each	4/6 6/3 10/9 —	
Buff terra-cotta chimney pots	1' 0" 1' 6" 2' 0" 2' 6" 3' 6" 5' 0"	
each	5/7 6/8 9/8 12/10 29/5 50/2	
Fireclay (loose) per ton	115/6	
Wall reinforcement supplied in standard rolls containing 25 yards lineal		
2½" wide black japanned	per roll	2/11
2½" wide black japanned	per roll	3/7½
† Greater widths pro rata 2½" price, carriage paid on orders of £7.		
Discount for quantities.		

Partitions, etc.

		2"	2½"	3"	4"
Clinker	per yard super	3	6	4	—
Hollow block to B.S. 1190	per yard super	3	1	3	4
Plaster	per yard super	6	6	7	3
Moler	per yard super	8	3	8	6
†1" Wood Wool slabs	per yard super	from 4	2	to 4	10
†2" Wood Wool slabs	per yard super	from 6	7	to 7	6
†3" Wood Wool slabs	per yard super	from 8	6	to 9	8
† Prices according to quantity ordered. 2½% cash discount.					

PAVING

Red quarry tiles, 6" × 6" × ½", to B.S. 1286	per yard super	10	9
Ditto 6" × 6" × ½", to B.S. 1286	per yard super	9	6
Buff quarry tiles 6" × 6" × ½", to B.S. 1286	per yard super	12	—
Ditto 6" × 6" × ½", to B.S. 1286	per yard super	10	9
Hard red paving bricks, 2"	per 1,000	316	3
Ditto 1½"	per 1,000	298	—

DRAINLAYER

Clay Land Drain Pipes to B.S. 1196

		2"	3"	4"	6"
Pipes in 12" lengths	per 1,000	90	6	138	6
(Delivered in full loads Central London Area.)					

Salt Glazed Stoneware Pipes and Fittings

		Standard List +		Orders under		Orders under	
		2 tons and over		2 tons 100 pieces upwards		2 tons less than 100 pieces	
Seconds Quality	35% less	15%	55% less	15%	65% less	15%	
Best Quality	35%		55%		65%		
British Standard Quality	42½%		62½%		72½%		
Tested Quality	60%		80%		90%		
British Standard Tested	67½%		87½%		97½%		

Cast Iron Drain Pipes and Fittings

Socket and spigot pipes to B.S. 437 :—									
Weight per 9 ft.			Size		9 ft.	6 ft.	4 ft. ea.	3 ft. ea.	
1	1	8	4"	per yard	12/7	14/-	22/6	17/-	
1	1	17	4"	per yard	13/-	14/4	23/-	17/7	
2	0	1	6"	per yard	19/6	23/1	37/2	29/8	
3	3	21	9"	per yard	35/3	46/2	80/-	61/-	

DRAINLAYER—(continued)

Cast-Iron Drain Pipes and Fittings—continued

			2 ft. ea.	18 ins. ea.	12 ins. ea.	9 ins. ea.
1	1	8	4" per yard	14/-	—	—
1	1	17	4" per yard	14/3	—	—
2	0	1	6" per yard	22/5	—	—
3	3	21	9" per yard	—	—	—

Tonnage Allowances :—

Orders up to 2 tons nett.

*Bends (short radius) as Fig. No. 4	each	6	3	13	—	40	—
*Single junctions as Fig. No. 18	each	11	—	21	3	09	—
*Intercepting traps as Fig. No. 33	each	30	—	50	—	123	—
*Gullies ordinary trapped "P"	each	14	6	—	—	—	—
*Extra for vertical back inlet 4"	each	4	3	—	—	—	—
*Grease gully trap	each	115	6	—	—	—	—
*H.M.O.W. large socket gully trap with 9" gully top and heavy grating and one back inlet	each	37	6	—	—	—	—
* These prices are subject to 82% plusage.							

Channels in Brown Glazed Ware.

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

White Glazed Channels

Orders under 20 pieces. Standard list + 37½%.

		Concrete Pipes, etc.		
		12"	24"	48"
Concrete pipes to B.S. 556				
With O.G. joints	per foot run	3	10	38
Bends	each	11	6	33
Junctions	each	32	—	63
Double junctions	each	—	—	—
Concrete pipes to B.S. 556				
With spigot and socket joints				
Bends	per foot run	4	2	12
Junctions	each	12	6	37
Double junctions	each	32	—	63
Concrete road gully to B.S. 556				
18" diameter and 42" deep	each	62	6	—
Precast concrete manholes to B.S. 539				
27"		48	—	72
Precast concrete manhole chamber rings				
per foot run		13	6	38
6" precast concrete cover slabs		35	—	65

* Manhole covers and frames

To B.S. 497

	Size of load	Unit price	
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A	35 tons	115/-	
C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade B.	5 tons	65/-	
	Size of load	Single seal Flat type	Double seal Flat type
C.I. coated manhole cover and frame, 18" × 18" to B.S. 497, Grade C	1 ton	25/6	34/-
Ditto galvanised ditto	1 ton	36/6	49/9
Ditto coated manhole cover and frame, 24" × 18" to B.S. 497, Grade C	1 ton	30/-	38/-
Ditto galvanised ditto	1 ton	43/6	56/-
Ditto coated manhole cover and frame, 24" × 24" to B.S. 497, Grade C	1 ton	41/-	55/6
Ditto galvanised ditto	1 ton	62/-	83/6
*All prices plus 5%.			

MASON

Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.		
Blocks scrapped, random sizes	per foot cube	8
Add for blocks to dimension sizes	per foot cube	1
(each dimension)		

Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long)	per foot cube	9
Templates with sawn beds, sawn one edge, per foot cube		11
Templates with sawn beds, sawn two edges, per foot cube		13
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads)		38

Artificial Stone to B.S. 1217

6" × 3" Copings and sills	per foot run	2
6" × 6" Copings and sills	per foot run	4
9" × 3" Copings and sills	per foot run	3
9" × 6" Copings and sills	per foot run	6
12" × 3" Copings and sills	per foot run	4
12" × 6" Copings and sills	per foot run	7
Cornices according to detail, per foot cube (from)		13

MASON—(continued)

Best Stone in random blocks

Monk's Park	per foot cube	5/4
St. Aldhelms Box Ground	per foot cube	5/10
Delivered on rail at South Lambeth station.		

Portland Stone in random blocks, average 20 feet

Whitbed	per foot cube	6/1½
Delivered on rail at Nine Elms Station.		

SLATER, TILER AND ROOFER

Best Bangor Slates to B.S. 680

34" × 12"	per 1,000 actual	£ s. d.
20" × 10"	per 1,000 actual	91 0 0
Prices include for delivery to site in lots of 1,000 and upwards.		

Tiles

Basic for Hand-made sandfaced 10½" × 6½" red roofing tiles		
per 1,000 189/-		
*Machine-made sandfaced best red tiles with continuous ribs, 10½" × 6½"	per 1,000	150/-
*Delivery London area in loads of 5,000 and over	per 1,000	19/3
Berkshire hand-made red Pantiles, 14½" × 10"	per 100	70/-
Berkshire hand-made Dun coloured Pantiles, 14½" × 10"	per 100	80/6

Concrete Tiles

Plain tiles, 10½" × 6½"	per 1,000	90/- to 95/-
Interlocking tiles, 15" × 9"	per 1,000	£14 10s.
Double Roman tiles	per 1,000	£30

Asbestos-cement

*6" corrugated sheets, grey	per yard super	3/6
*Standard 3" corrugated sheets, grey	per yard super	3/2½
* Prices are for minimum two-ton loads, and are subject to 5% trade discount and 2½% cash discount.		

Up to 5,000 sq. ft.		5,000 to 15,000 sq. ft.
½" Insulating board (per 100 sq. ft.)	37/6	36/-
15,000 to 50,000 sq. ft.		Over 50,000 sq. ft.
½" Insulating board (per 100 sq. ft.)	33/9	31/6
Up to 5,000 sq. ft.		5,000 to 10,000 sq. ft.
½" Hardboard (per 100 sq. ft.)	46/6	45/-
¾" Hardboard (per 100 sq. ft.)	62/6	61/3
10,000 to 30,000 sq. ft.		Over 30,000 sq. ft.
½" Hardboard (per sq. ft.)	43/-	41/-
¾" Hardboard (per sq. ft.)	58/6	56/-

Asbestos-cement and Asbestos Products

†½" Semi compressed flat building sheets, grey,	per yard super	1/7½
†½" Ditto	per yard super	2/4
† Prices are for orders of two tons and over and are subject to 5% trade discount and 2½% cash discount.		
*½" Asbestos wall board (in sheets 8' 0" × 4' 0")	per yard super	4/-
*½" Ditto	per yard super	5/4
*½" Asbestos wood (in sheets 8' 0" × 4' 0")	per yard super	2/7
* Prices are for orders of 2 tons and over.		

		25-75 yards	150-300 yards	600 yards
½" Fireproof plaster board	per yard super	2/7½	2/3½	1/11½
½" Ditto	per yard super	2/5½	2/1½	1/9½
2" Paper Faced Linen Tape, per 100 yard roll	—	—	—	5/-
Joint filler	per lb.	—	—	-/4

Sundries

Slates or sarking felt to B.S. 747	per yard run	1/3
Roofing felt (1-ply bitumen) to B.S. 747, Part I	per yard sup.	1/8
Bituminous hair felt to B.S. 747, Part II	per roll	76/-
All rolls 25 yards long by 32" wide.		
"Sisalkraft" standard grade	per yard sup.	-/7½
"Sisalkraft" subsoil grade	per yard sup.	-/4
"Cabots" quilts (Ex Works):—		
Triple ply ½" thick	2/2 per yard super	
Double ply ¾" thick	1/11 " "	
Single ply 1" thick	1/8 " "	
All rolls 25 yds. long by 36" wide. Quantities less than complete roll 2d. extra per yard.		

SLATER, TILER AND ROOFER—(continued)

Sundries—continued

"Fibreglass" sound deadening quilt		per yard super	Up to 500 yds.	Over 500 yds.
Light grade	1/11			1/10½
Medium grade	2/4½			2/3½
In rolls 27 yards long by 36" wide.				
"Fibreglass" bitumen bonded mats		per yard super	1/4	
in standard rolls				
In rolls 10, 12½, 15 yards long by 33", 36", 42", 45", 48" wide.				
Slagwool (loose in 1" thickness)		per yard super	1/4	

CARPENTER AND JOINER

Home Grown Timber Prices. See Statutory Rules and Orders, 1947, No. 94.

Imported Softwood Prices. See Statutory Rules and Orders, 1947, No. 731.

Imported Hardwood Prices. See Statutory Rules and Orders, 1947, No. 1524.

These may be obtained on application to H.M. Stationery Office, York House, Kingsway, W.C.2.

Standard Panelled and Glazed Wood Doors

Type 4	size 2' 0" × 6' 6" × 1½"	each	36/9
	size 2' 6" × 6' 6" × 1½"	each	39/-
Type 2 × G	size 2' 6" × 6' 6" × 2"	each	43/-
	size 2' 9" × 6' 6" × 2"	each	45/9
Type 4 × G	size 2' 6" × 6' 6" × 2"	each	52/-
	size 2' 9" × 6' 6" × 2"	each	56/3
In lots of from 1 to 11 inclusive.			

Standard E.J.M.A. Wood Windows

INP 26	size 2' 6" × 1' 5½"	each	25/2
4V 36	size 3' 6" × 7' 10"	each	113/2
IV 40	size 4' 0" × 2' 2½"	each	32/10
3T 46	size 4' 6" × 5' 11½"	each	116/2
4T 50	size 5' 0" × 7' 10"	each	139/-

Standard E.J.M.A. Kitchen Units

No. 1	size 3' 0" × 3' 6" × 1' 7"	each	169/-
No. 2	size 3' 0" × 3' 6" × 1' 7"	each	126/11
No. 4	size 3' 0" × 1' 9" × 1' 7"	each	131/5
No. 5	size 3' 10" × 1' 9" × 1' 7"	each	95/2
No. 7	size 6' 6" × 1' 9" × 1' 7"	each	158/2

Corkboard

Orders under Orders over

1" thick per foot super	8½d.	8d.
Cut steel clasp nails to B.S. 1202	1" per cwt.	51/3
Cut steel floor brads to B.S. 1202	2" per cwt.	43/6
Bright oval wire nails to B.S. 1202	1" per cwt.	49/9
Galvanized wire staples with slice cut points, 1" × 12 gauge	per cwt.	63/9

STEEL AND IRONWORKER

Basis price for rolled steel joists sections, 5" × 4½" to 16" × 6" in 10-ft. to 50-ft. lengths		£ s. d.
ex mills per ton	17 13 0	
Ditto of 9" × 7" sections	ex mills per ton	17 18 0
Ditto of 4" × 3" sections	ex mills per ton	18 13 0
Ditto of 5" × 2½" sections	ex mills per ton	18 8 0
Ditto of 10" × 8" sections	ex mills per ton	18 3 0
Ditto of 12" × 8", 14" × 8", 16" and 18" × 6", 18" × 7", 18" × 8", 20" × 6½", and 20" × 7½" sections	ex mills per ton	18 3 0
Ditto 22" × 7" sections	ex mills per ton	18 8 0
Ditto 3" × 1½" sections	ex mills per ton	21 3 0
Ditto 3" × 3" sections	ex mills per ton	18 18 0
Ditto 4" × 1½" sections	ex mills per ton	20 3 0
Ditto 5" × 3" sections	ex mills per ton	18 3 0
Ditto 24" × 7½" sections	ex mills per ton	18 13 0
Ditto of solid steel columns	ex mills per ton	18 13 0
Ditto of angles	ex mills per ton	17 13 0
Ditto of tees	ex mills per ton	18 13 0

All delivered to Station or Siding.

PLASTERER

Plaster and Cement

		1-ton loads	6-ton loads
Thistle (browning) to B.S. 1191, Class B	per ton	96/3	86/3
Gypstone to B.S. 1191, Class B	per ton	70/6	
Paristone (haired) to B.S. 1191, Class B	per ton	73/-	ex Works, Kent.
Ditto (unhaired)	per ton	70/6	
Glastone to B.S. 1191, Class C	per ton	73/-	
Sirapite (coarse) to B.S. 1191, Class C	per ton	96/3	86/3
Ditto (fine) to B.S. 1191, Class C	per ton	104/3	94/3
Keene's Pink to B.S. 1191, Class D	per ton	155/6	
Keene's White to B.S. 1191, Class D	per ton	161/9	
Cullamix (Tyrolean Finish), 1-ton lots and upwards	per ton from	155/6 to 160/-	

PLASTERER—(continued)

Sundries			
Sharp washed sands to B.S. 1198	per yard cube	16/4	
Cow Hair	per cwt.	84/6	
Goat Hair	per cwt.	102/6	
Expanded metal lathing, 9' 0" × 2' 0" × 1/2"	per sheet	4/7	
mesh × 26 gauge	25-75 yards	150-300 yards	Over 600 yards
3/4" Plasterboard (plaster lath)	per yard super	2/1 1/4	1/10 1/4 1/8 1/4
1 1/2" Galvanized nails	per cwt.	80/-	
Hessian Scrim cloth in 100-yard rolls, 3 1/2" wide	per roll	7/6	

Wall Tiles

The following prices are subject to 75 per cent. addition:

Standard quality.			
White, glazed 6" × 6" × 3/8"	per yard super	8/6	
Cream "	per yard super	9/-	
Angle beads (1 1/2" wide)	per yard run	1/1	
Rounded edge tiles (white glazed)	per yard run	1/8	
" " (cream glazed)	per yard run	1/9	
Coloured enamelled bright glazed, 6" × 6" × 3/8"	per yard super	14/3	
Angle beads (1 1/2" wide)	per yard run	1/2	
Rounded edge tiles	per yard run	2/9	
Eggshell glazed tiles, 6" × 6" × 3/8"	per yard super	15/-	
Angle beads (1 1/2" wide)	per yard run	1/4	
Rounded edge tiles	per yard run	2/10	

PLUMBER

Lead

3 1/2 lb. and upwards milled sheet lead in quantities of 5 cwt. to 1 ton in sheets to B.S. 1178	per cwt.	109/6
Lead ternary alloy, No. 2 quality extra over sheet lead or lead pipe	per cwt.	16/-
Allowance for old lead delivered to merchant or manufacturer	per cwt.	81/3

Cast Iron Goods

Percentage Adjustment on List No. 3100 A.B. 1/2/40

Rainwater Goods (painted or unpainted)	Plus 70%
Soil goods (coated or uncoated)	Plus 70%

Mild Steel Rainwater Goods

	Standard List +
Gutters	83 1/2%
Pipes and Fittings	93 1/2%

Asbestos-Cement Rainwater Goods

The following prices are subject to 12 1/2% trade discount and 2 1/2% cash discount.
Orders over £30 are subject to 17 1/2% trade discount and 2 1/2% cash discount.

Rainwater Pipes.

Prices are for 6' 0" lengths, but 10' 0" lengths are available in 2", 2 1/2", 3" and 4" diameters at same prices. Short lengths up to 2' 0" are charged as 1 yard. From 2' 0" to 4' 0" charged as 1 1/2 yards. From 4' 0" to 6' 0" charged as 2 yards. Over 6' 0" charged as 10' 0".

Round Pipes.

2"	per yard run	2/4
2 1/2"	per yard run	2/7 1/2
3"	per yard run	3/2
4"	per yard run	4/4
6"	per yard run	9/1

Gutters.

Short lengths of gutter up to 2' 0" charged as 1 yard; from 2' 0" to 4' 0" as 1 1/2 yards, and over 4' 0" as 2 yards.

Half round gutters	3"	4"	4 1/2"	5"	6"	8"
per yard run	1/8	2/-	2/1	2/5 1/2	3/5	4/2 1/2
Ogee gutters per yard run	—	2/5 1/2	2/7 1/2	3/2	3/10 1/4	5/-

INTERNAL PLUMBER

Lead pipe in coils, 5 cwt. and upwards, to B.S. 602	per cwt.	108/9
Lead soil pipe	per cwt.	111/9
Add if ribbon marked	per cwt.	-/3
Plumber's solder	per cwt.	292/6
Tinman's solder	per cwt.	361/-
Drawn lead traps with brass screw eye, 6 lb., to B.S. 504	1" 1 1/2" 2"	
S. trap	each	4/7 5/- 6/7 9/7
P. trap	each	4/1 4/5 5/6 7/9
Extra for 3" deep seal "S" trap	each	1/1 1/3 1/6 1/10
Extra for 3" deep seal "P" trap	each	-/8 -/11 1/- 1/3

INTERNAL PLUMBER—(continued)

Screwed and Socketed Steel Tubes and Fittings for Gas, Water and Steam, etc.

Fittings and flanges and tubes ordered in long random lengths are subject to the following trade discounts:—

Tubes :		1" to 3"		
Class A	....	47 1/2%	Fittings :	
" B	....	41%	Lightweight	.... 24 1/2%
			Heavyweight	.... 17%
Galvanized Class A	....	28 1/2%	Flanges :	
" "	B	23%	Lightweight (Table D)	13%
			Heavyweight (Table E) Plus	3 1/4%

COPPERSMITH AND ZINC WORKER

Copper

Hot rolled copper sheeting in 5-cwt.

lots (4' × 2' sheets), to B.S. 899	16 wire gauge	per lb.	1/9 1/2
Ditto	24 wire gauge	per lb.	1/11 1/2
Copper wire, 10, 12 and 14 gauge (over 2 cwt.)		per lb.	1/10 1/2
Copper nails		per lb.	2/-

GLAZIER

Sheet Glass, cut to size (ordinary glazing quality), to B.S. 952, Section A. For quantities exceeding 500 ft. super.

24 oz.	per foot super	5 1/2d.
26 oz.	per foot super	7 1/2d.
32 oz.	per foot super	9 1/2d.

Polished Plate glass, ordinary substance, approximately 1/4" to B.S. 952, Section A.

In plates not exceeding:	Glazing quality	Selected glazing	Silvering quality
2 ft. super	2/6	2/8	3/2
3 ft. super	2/10	3/3	3/11
5 ft. super	3/1	3/9	4/6
*45 ft. super	3/9	4/1	5/7
*100 ft. super	4/5	5/7	7/2

* Extra sizes, i.e., plates exceeding 100 ft. super or 160 in. long, or 100 in. wide, at higher prices.

1/4" figured rolled and cathedral, to B.S. 952, Section B—untinted....

tinted	7 1/2d.	per foot super
1/4" rolled plate, to B.S. 952, Section B	10 1/2d.	per foot super

1/8" or 1/4" rolled plate, " "	7 1/2d.	per foot super
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1/8" or 1/4" rough cast, " "	8 1/2d.	per foot super
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Prismatic, to B.S. 952, Section D	8 1/2d.	per foot super
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1/4" wired cast, " "	1 1/2d.	per foot super
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1/4" Georgian wired cast, " "	9 1/2d.	per foot super
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1/4" polished wired, " "	10 1/2d.	per foot super
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1/4" wired arctic, " "	3/6d.	per foot super
	1/8d.	per foot super

Hollow glass blocks, to B.S. 952, Section D:—

P.B.2. 5 1/2" × 5 1/2" × 3 1/2"	2/6 each
---------------------------------	----------

P.B.3. 7 1/2" × 7 1/2" × 3 1/2"	3/6 each
---------------------------------	----------

P.B.32. 7 1/2" × 7 1/2" × 3 1/2"	3/6 each
----------------------------------	----------

Radiused corner bricks to match up with:—

P.B.2	4/6 each
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P.B.3 or 32	6/- each
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PAINTER

Snowcem paint (in free air-tight metal

containers)	per cwt.	56/-
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White ceiling distemper	per cwt.	29/-
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Washable distemper	per cwt. from	82/-
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Ready mixed white lead paint (best), semi-gloss, per 32 lb.

Aluminium paint (best quality)	per gallon	42/-
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White enamel	per gallon	32/-
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White enamel paint	per gallon	—
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Stiff white lead (genuine English stack process, 1 ton lots, 1 cwt. kegs)

Liquid driers, best Terebene	per cwt.	141/-
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Liquid driers, best Terebene	per gallon	20/-
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Linseed oil, raw (5-gallon drums)	per gallon	22/6
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" " boiled (5-gallon drums)	per gallon	22/8
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Knottling	per gallon	28/-
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Oil stain (scumble)	per lb.	4/6
---------------------	---------	-----

Varnish (outside quality), copal oak	per gallon	32/-
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" " general oak	per gallon	26/-
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" " egg shell flattening	per gallon	32/6
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Turpentine, genuine American, 5-gallon lots	per gallon	—
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" substitute	per gallon	3/6
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Crescote, 5-gallon lots	per gallon	2/-
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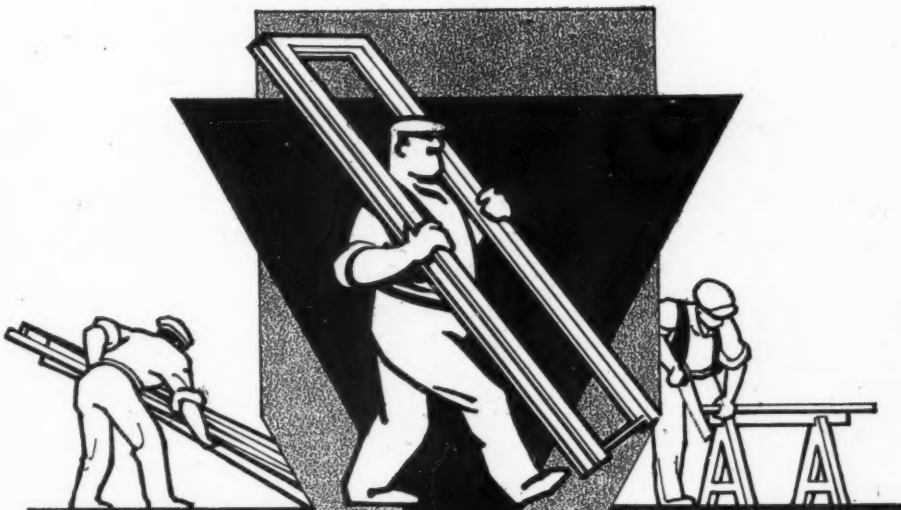
Linseed Oil Putty	per cwt.	60/9
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Ferramastic (14 lb. kegs)	per cwt.	76/9
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Size, in 1 S, best quality	per lb.	2/4
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INFORMATION CENTRE · INFORMATION SHEETS
QUESTIONS AND ANSWERS · CURRENT TECHNIQUE
THE INDUSTRY · PRICES · TECHNICAL ARTICLES

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

INFORMATION CENTRE

1 SOCIOLOGY. 2 PLANNING: General. 3 PLANNING: Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING: Public Utilities. 6 PLANNING: Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN: General. 10 DESIGN: Building Types. 11 MATERIALS: General. 12 MATERIALS: Metal. 13 MATERIALS: Timber. 14 MATERIALS: Concrete. 15 MATERIALS: Applied Finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: Theory. 19 CONSTRUCTION: Details. 20 CONSTRUCTION: Complete Structures. 21 CONSTRUCTION: Miscellaneous. 22 SOUND INSULATION, ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHTING. 25 WATER SUPPLY, SANITATION. 26 SERVICES, EQUIPMENT: Miscellaneous. 27 FURNITURE, FITTINGS. 28 MISCELLANEOUS.

231 planning: general AERIAL SURVEY

Photographic Surveying in Relation to Road Engineering in Highly Developed Countries. B. F. J. Bradbeer and C. A. Hart. (Institution of Civil Engineers, Mar., 1948.)

Valuable discussion of photographic survey methods of use to road engineers as well as planners.

Outline of scientific data in relation to photography from either air or ground. Use of air photographs for extraction of quantitative information or for quantitative survey, i.e., photogrammetry. Use of ground photographs for quantitative survey, i.e., terrestrial photogrammetry. Type of information to be derived from air photographs. Principles of photogrammetry. Influence of survey flying on photographs. Plotting of air surveys, and applications in Holland, Switzerland, and Great Britain. Use of ground photogrammetry. Cost of air photographs compared with that of full ground survey.

432 planning: urban and rural PROGRESS IN COVENTRY

Progress of Redevelopment and Development in Coventry. E. H. Ford. (J. Royal Sanitary Institute, Mar., 1948, pp. 90-97.)

Concise paper presented recently by Coventry's City Engineer and Surveyor giving clear picture of city's development during inter-war years and since.

Progress between the wars, covering construction of sewage works, execution of slum clearance schemes, road improvements, and erection of corporation houses. Some interesting figures showing increase in cost of houses. Notes on general replanning of city since first resolution to plan Coventry was approved by Ministry of Health in 1926. Revision of original planning scheme owing to war damage, bringing in replanning and

redevelopment of 2,000 acres of central area. Inquiry into Corporation's application under Town and Country Planning Act, 1944, held in 1946. Ministry's declaratory order given in August, 1947. Details of final plan for central area. Development of key plan for whole area of county borough. Housing progress since 1945. Establishment of community centres since end of war. Hospital facilities. Refuse collection. Particulars of works carried out so far under redevelopment scheme.

520 planning: public utilities MOTOR ROADS

Design and Layout of Motorways. H. E. Aldington. (Surveyor, Feb. 6., 1948, pp. 71-73.)

Valuable paper on planning and aesthetics of motor roads presented at meeting of Institution of Highway Engineers.

Problem of motor road location near built-up areas. Interesting critical examination of advantages and disadvantages inherent in siting roads well clear of towns, in very close proximity to existing sources of traffic or actually passing through built-up zone. Importance of aesthetics of road design. Lessons to be learned from motor road experience in Germany. Advantages of free-flowing curved alignment in regard to preservation of countryside amenities and to economics of earthworks manipulation. Road engineering improvements due to systematic soil surveys. Appendix of most useful list of suggested design standards for motor roads giving variety of dimensional data.

12.13 materials: metal WINDOWS

The German Metal Window Industry. British Intelligence Objectives Sub-Committee. (HMSO. 1947. 17s. 6d.)

While not of great general interest to architects, this report is worth noting as a good description of the history and development of metal windows in Germany, and particularly for the inclusion in an appendix of a translation of a report on heat losses through single and double windows, with useful data on the amount and effect of air leakage.

15.19 materials: applied finishes, treatments EXTERNAL RENDERING

External Rendering. (Cement and Concrete Association. Feb., 1948.)

Properties, background materials, ingredients, preparation, mixes and mixing, application, textured finishes, quantities of materials. Photographs of application and textures.

This is a clear statement of the properties, choice and application of external renderings. It follows closely the recent trends towards cement/lime mixes and towards textured finishes as referred to in various BRS and other Government publications. An excellent brochure for the student and a useful reference for the office.

20.67 construction: complete structures RIGID FRAMES

The Rigid Frames. (The Arch. Forum, Feb., 1948, pp. 105-118.)

Advantages of rigid frames as compared with traditional trusses. Welding versus riveting. Interesting examples in steel, concrete and timber.

23.56 heating and ventilation WARM AIR RADIANT HEATING

House at Kew Gardens, Berea, Ohio. Mellenbrook, Foley and Scott, Architects. (Prog. Architecture [USA], Feb., 1948, pp. 76-78.)

Underfloor warm air heating in good quality speculative housing, with simple method of forming air ducts. Photographs and details.

Hot air is distributed from a central furnace by overhead ducts, down the walls and then backwards and forwards through a "maze" under the floor formed by sleeper walls two courses high built on the site concrete, and carrying corrugated steel sheeting as permanent shuttering for the floor slab. This method appears to be simple and economical.

26.25 services and equipment: miscellaneous SAFETY DEVICES: ESCALATORS

Fire Safety for Moving Stairways. (Prog. Architecture [USA], Feb., 1948, pp. 70-73.)

Recent escalator installation with self-closing fire-resisting steel shutters to the well. Illustrated.

Describes the escalator installation in a department store, New Jersey, with detailed account of safety devices. These include thermostatic control and photo-electric smoke detectors to operate the roller shutters, automatic stoppage of the stairs themselves, and a safety device on the edge of each shutter which momentarily arrests its descent if touched, to prevent anyone being trapped.

26.26 services and equipment: miscellaneous BUILDING EQUIPMENT

British Building Equipment for the World. (Architect and Building News, Feb. 27, 1948.)

Special number on equipment, particularly for export. Interesting pictures of new plant, equipment and fittings, but not identified by any reference to makers' names, types or prices.

This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS

2940 INTERCEPTING TRAP

Q Is it essential to install an intercepting trap between the drainage of a house and a septic tank? I have heard some opinions expressed both for and against the inclusion of this fitting.

A An intercepting trap between house drainage and a septic tank is not considered essential by many authorities; it is often considered that it fulfils no useful function and is liable to cause stoppages. However, its inclusion is usually insisted upon where drains are connected to a cess-pool.

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This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the building industry.

THE INDUSTRY

MANCHESTER BUILDING TRADES

In the years before the war the Manchester Building Trades Exhibition was distinctly one of the brighter provincial shows, and it is good that it should have been revived. In the few months which have passed since the Olympia exhibition it is only natural that there should be little new on the market, but there was an excellent timber display by the Canadian Government, including a large laminated and casein glued structural three-pin arch, and some interesting samples of scratch brushed plywood. This gives quite a pleasing texture, and is suggested as a wall lining which might well be used if such things are again permitted. Fair-sized crowds also collected round the MOW exhibit, which was mainly concerned with pre-stressed concrete. This subject has already been dealt with in the *A.J.*, but it is interesting to find that MOW is experimenting with small-size units, mainly intended to replace timber in the small house. Out at the Thatched Barn Field Test Unit there are two stressing beds for casting experimental units, floor beams, purlins, transmission poles, scaffold boards, and hollow floor units having been so far produced. Piano wire with an ultimate tensile strength of 140 to 150 tons per square inch is used for the reinforcement, and is pre-stressed to about 85 tons per square inch before the concrete is poured. The effective stress is of the order of 70 tons, the difference being caused by the elastic shortening of the concrete, creep, and shrinkage during setting. At the moment, of course, the various units have only been produced in small quantities for test purposes, but their production on a fairly large scale should be comparatively simple, particularly if they are made on the "long line" system employed by Dowsett-Mackay for pre-stressed railway sleepers. With this method the stressing bench may be four or five hundred feet long and the sleepers can be sawn to the required length when the concrete has set; alternatively the concrete may be separated with metal plates or sand, so that after setting it is only necessary to cut the reinforcing wires.

One other point brought out with some force at Manchester is the confusion produced by the recent purchase tax increases. Kitchen cabinets, for instance, if they consist merely of cupboards or shelves, bear the increased tax, but if they have a sink and draining board on top they rank as plumbing or some such, and therefore escape.

EXTERNAL RENDERINGS

It is only necessary to look quite casually at most of the unmaintained houses built between the wars to realize that the ordinary external rendering nearly always left a great deal to be desired, for the ravages of ten years are all too obvious in the majority of examples. For many years the Cement and Concrete Association has been carrying out research into the whole question of renderings and their application, with particular reference to Continental practice,

where the usual troubles of cracking and crazing seem to occur less often than they do here. Various surveys of Continental practice have already been published, and now the Association has issued an informative 20-page booklet which covers such headings as the influence of the wall construction on the choice of the rendering, the preparation of the background, mixes, colouring of the rendering, its application, and the various methods of producing textured surfaces. The whole booklet is factual rather than propagandist, and the illustrations are clear and informative. (*The Cement and Concrete Association, 52, Grosvenor Gardens, London, S.W.1.*)

STILL MORE DOOR GEAR

The last two instalments of these notes have contained references to track for sliding and folding doors, and now a third catalogue (No. 48) from P. C. Henderson gives full details of this firm's door gear, the straight run sliding type, the Tangent combined sliding and folding type for doors, windows and partitions, and light overhead runways. Like the other lists already mentioned, this one contains fully dimensioned drawings of the various fittings and furniture, and, surprising in these days, a schedule of prices, a subject which not very many manufacturers seem to like talking about nowadays. (*P. C. Henderson, Ltd., Tangent Works, Barking, Essex.*)

A NEW UPHOLSTERY FABRIC

A firm of Manchester weavers has just announced a new plastic upholstery material under the trade name of Tygan. It is woven from a polyvinyl chloride monofilament produced by B.X. Plastics under the name of Bexan, and comes in the same group as the American material Vinyon. Any colour within the BSI range can be produced, and it will eventually be woven in almost any pattern, as well as the checks, plaids and stripes available now. It is extremely durable and weather-resistant, and should be very useful for upholstery in public service vehicles of all kinds, or for hotels and restaurants. It is resistant to acids and alkalis and to any of the chemical compounds found in the ordinary household, while grease, coffee, fruit juice, and similar

THE LIBRARY OF INFORMATION SHEETS

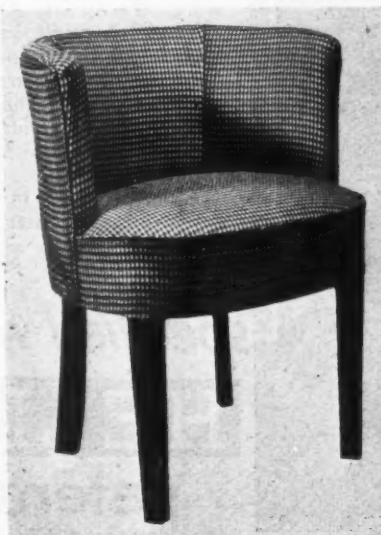
Readers are reminded that suitable spring clip binders for collecting Information Sheets are available from the Architectural Press, price 4s. post free. A contents list and copy of Instructions to Secretaries are issued with each binder.

misfortunes can be removed with soap and water. It does not mildew, and it will not burn.

For external use, its resistance to the weather would make it suitable for sunblinds and garden furniture, and an open-weave type is also made for fly netting in larger windows or for tropical work.

From the manufacturer's point of view there seem to be no difficulties, as the material can be sewn or tacked and generally manipulated like other upholstery materials. From the customer's angle the material is slightly cold to sit on, but seems less so than leather or imitation leathercloth; it is said not to make clothes shiny.

The material will be in production by August of this year, but in the meantime samples are available. At the moment, as has already been mentioned, the plastic material is p.v.c., but other types of plastic are in course of development. After seeing so many illustrations of American cars and furniture with plastic upholstery, it is pleasant to think that the job is now being done here. Price is not yet settled, but is expected to be about 15s. a yard. (*Fothergill and Harvey, Ltd., 37, Peter Street, Manchester.*)



Two chairs upholstered in Tygan, a new plastic material. Any colour within the BSI range can be produced. The material is resistant to acids and alkalis and any of the chemical compounds found in the ordinary household, while grease, coffee, fruit juice and similar misfortunes can be removed with soap and water.

The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to *The Architects' Journal*, 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal."

.....

Please ask manufacturers to send further particulars to:—

NAME.....

ADDRESS.....

..... A.J. 22.4.48

Announcements

Miss Mary Anderson, A.R.I.B.A., would be pleased to receive trade catalogues, etc., at 115, Marine Parade, Brighton.

Mr. Philip H. Knighton, A.R.I.B.A., of Aylesbury, Bucks (Chief Assistant Architect and Acting Deputy County Architect, Bucks County Council), has been appointed Architect to the Newcastle-upon-Tyne Regional Hospital Board at an inclusive salary of £1,350 a year, rising to £1,550 a year. He will act as the Board's adviser on all architectural matters connected with the hospital service, and in addition he will be allowed to undertake practical architectural work. The appointment is a whole-time one. It is anticipated that Mr. Knighton will take up duty on June 1.

Messrs. Lay and Clark, quantity surveyors, of 116, Victoria Street, London, S.W.1, have removed their Manchester offices to larger premises at 41, South King Street, Manchester 2 (Blackfriars 7210), at which address they will be pleased to receive up-to-date trade catalogues and information.

Competitions

Royal National Eisteddfod of Wales Architectural Competitions, 1948. Competition 192 for a county college. Competition 193 for a neighbourhood unit layout. Assessors: C. F. Bates and T. Alwyn Lloyd. Premiums: £50 in each case. Conditions and entry forms from Rev. W. J. Samuel, General Secretary, 38, Dunraven Place, Bridgend. Entries to be submitted between June 5 and 14. JUNE 5-14

Art Competition and Exhibition of the XIV Olympiad, London, 1948. Designs eligible: (a) Town planning, (b) Architectural designs.

Entries will be limited to designs for sports grounds and to buildings intended for use in connection with sport only, and must be received between May 1 and June 11, 1948. Full particulars from the Organising Committee for the XIV Olympiad, London, 1948, 105, Victoria Street, London, S.W.1.

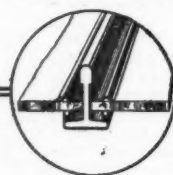
RSI Prize Competitions: John Edward Worth Prize (£40) for an essay on *Practical Improvements of Appliances or Inventions in or about Dwelling-Houses*, and John S. Owens Prize (£15) for an essay on *Atmospheric Pollution*. Apply Secretary, Royal Sanitary Institute, 90 Buckingham Palace Road, London, S.W.1, for general conditions. Entries by December 31.

Buildings Illustrated

Shop at Bournemouth, designed by Pakington, Enthoven and Highet (pages 369-371). Contractors and specialist firms: shop fitting, Frederick Sage and Co. Ltd.; builder's work, Claude A. Barnes (Bournemouth) Ltd.; heating and ventilation, Richard Crittall and Co. Ltd. and C. W. Hinchliffe; electrical work, Aish and Co. Ltd.

Correction

In "News in Brief" in our issue for April 8 we state that Mr. Burke won a first prize of £100 in respect of a Helmsley scheme in the Village Planning Competition. This is incorrect. This was a consolation prize, the first prize being won for a Godstone scheme by Messrs. Godman and Kay, as stated elsewhere in the issue.



To put a complete flawless skin of lead on a Glazing Bar of a section such as that shown above is quite a work of art.

The photograph shows the first step, the lead cover of a Helliwell Curbstone Bar being extruded through a precision die that ensures a glove-like fit and a cover of the correct thickness. In every stage the craftsman's pride in his work plus rigid inspection make certain that Helliwell Patent Glazing can always be specified with confidence.

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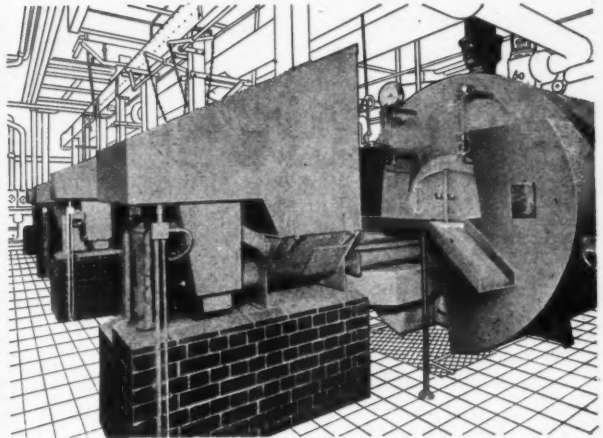
- ★ Mobile builders' hoists and elevators that can lift bricks onto scaffold at a rate of from 1,000 to 2,000 per hour.
- ★ New types of tubular scaffolding made from aluminium alloy and scaffold boards from Anderson shelter materials.
- ★ Small concrete mixers and earth-moving machines.
- ★ Powered hand tools, paint sprayers and compressors.
- ★ Machines for rough casting, preparing wallpaper and cutting plaster board.

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MAY 19 - 21	CARDIFF
MAY 25 - 27	PLYMOUTH
JUNE 1 - 3	EXETER
JUNE 9 - 11	BRISTOL
JUNE 14 - 15	SHEFFIELD
JUNE 17 - 18	DONCASTER
JUNE 21 - 22	HULL
JUNE 24 - 25	YORK
JUNE 28 - 29	LEEDS
JULY 1 - 2	HALIFAX
JULY 6 - 8	MANCHESTER
JULY 13 - 15	LIVERPOOL
JULY 20 - 22	BARROW-IN-FURNESS
JULY 27 - 29	PRESTON
AUGUST 10 - 12	STOCKTON
AUGUST 17 - 19	SUNDERLAND
AUGUST 24 - 26	NEWCASTLE
AUGUST 31 - SEPTEMBER 2	CARLISLE

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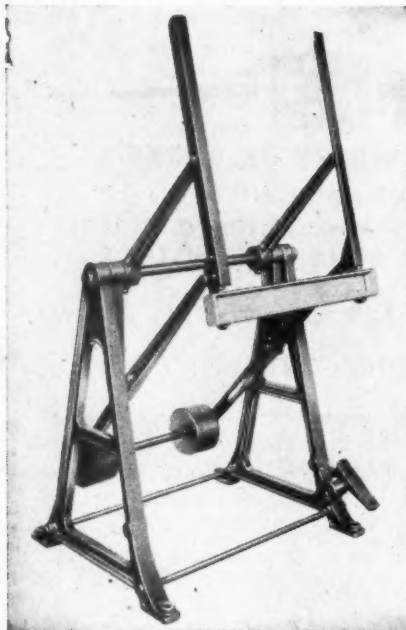
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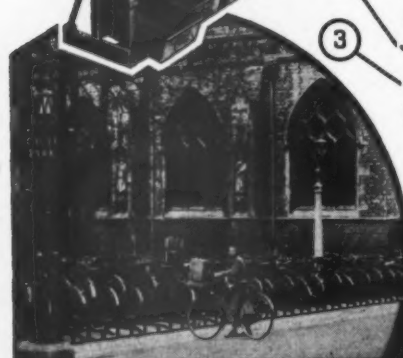
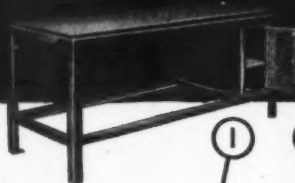
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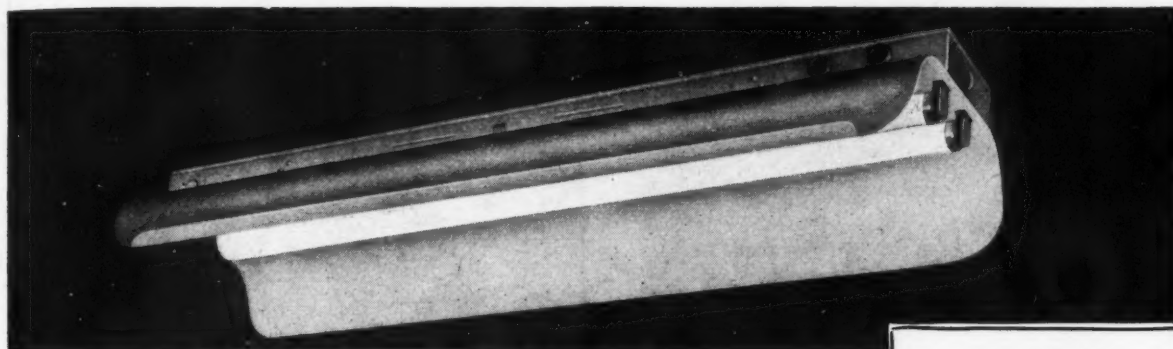


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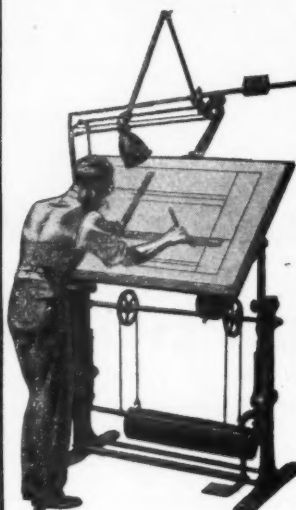
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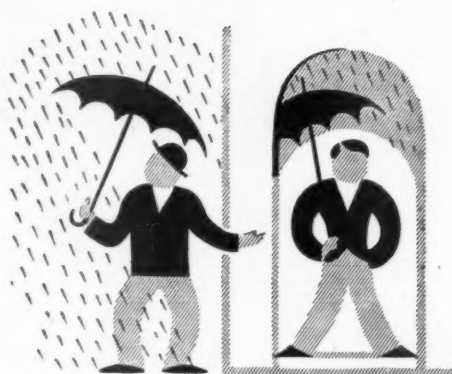
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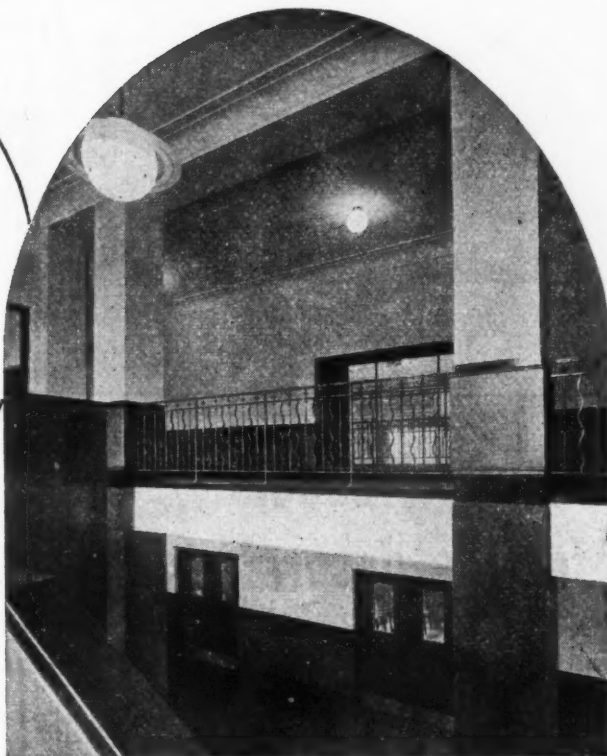
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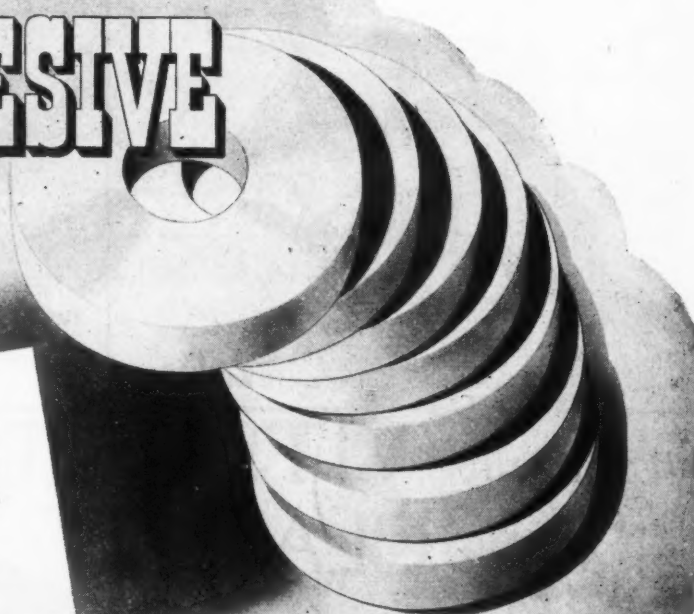


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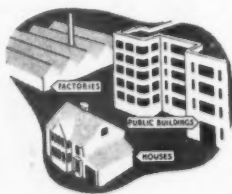
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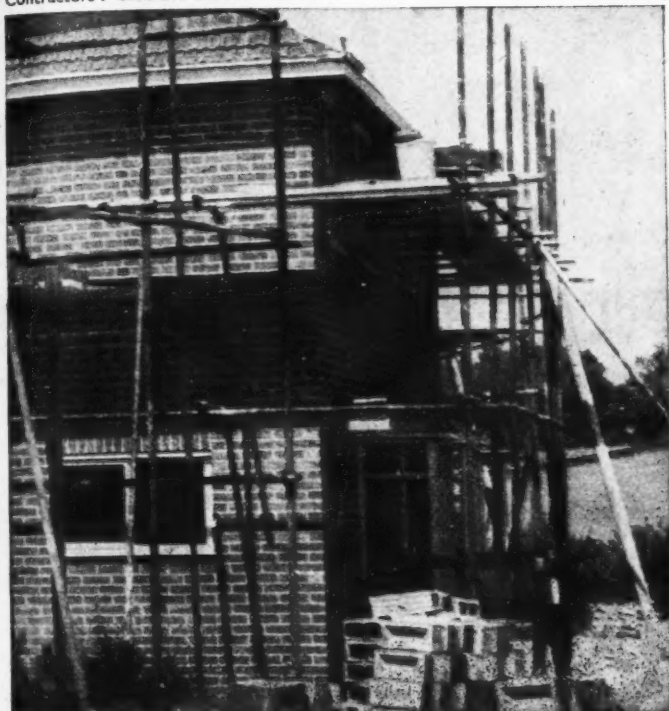
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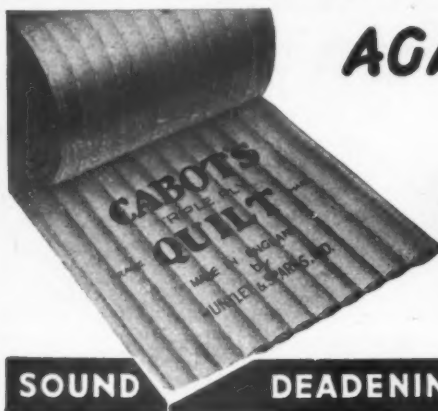
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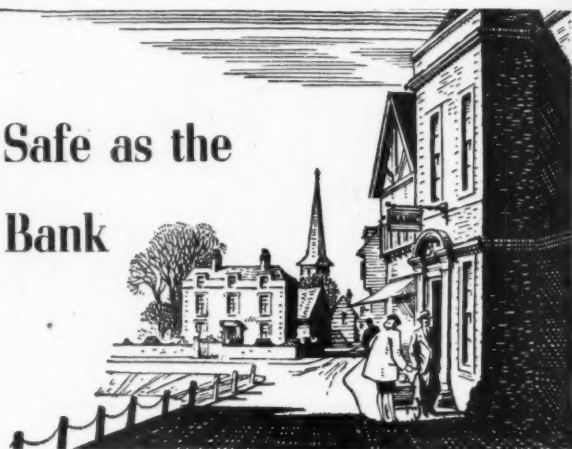
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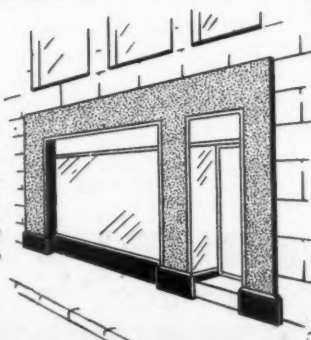
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Applications to Box Numbers should be addressed to "The Architects' Journal," at the address given above.

None of the vacancies in these columns relates to a man between the age of 18 and 50, inclusive, or a woman between the age of 18 and 40, inclusive, unless he or she is excepted from the provisions of the Control of Engagement Order, 1947, or the vacancy is for employment excepted from the provisions of that Order.

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TECHNICAL ASSISTANT. 55s. a week to £200 a year.

Commencing rate of pay will be according to qualifications and experience. There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

The planning work involved includes assistance in the detailed development of Reconstruction Area schemes and the preparation of revised zoning plans.

A knowledge of current town planning legislation is desirable in all cases, and candidates for Grade III positions should possess architectural, surveying, or town planning qualifications.

Application forms may be obtained from the Architect to the Council (P), County Hall, Westminster Bridge, S.E.1 (enclosing stamped addressed foolscap envelope). Returnable not later than ten days from this date.

Canvassing disqualifies. (540) 868

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are invited for positions of Architectural Assistant, at salaries of up to £580 a year. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the Department on the occurrence of vacancies. Engagement will involve Superannuation contributions at the rate of 6 per cent. of salary.

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Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required). Canvassing disqualifies. (870) 1032

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COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments:—

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The persons appointed will be engaged on the preparation of development plans, with particular reference to the areas of the county allotted to them, and must be competent to advise on the control of development in those areas.

Applicants must be Corporate Members of the Town Planning Institute, and previous experience with a planning authority and of Committees dealing with interim development will be considered an advantage.

(b) PLANNING ASSISTANT (ONE). A.P.T., Grade IV.

The person appointed will be required to assist a Senior Planning Assistant in the duties enumerated above. Applicants should have had previous experience in the work of a planning and interim development authority and professional qualifications by examination will be considered an advantage.

Each appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. The salary in A.P.T., Grade VI, is £595 to £660, and in Grade IV, £480 to £525.

Applications must be made on forms to be obtained from the County Planning Officer, County Buildings, Worcester, and returned to him not later than 28th April.

W. R. SCURFIELD.

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The Council have in course of preparation a large and varied programme of interesting works, which it is anticipated will not be affected by the proposed reductions in capital expenditure.

Housing accommodation is not provided, but the Council will be prepared to consider appli-

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Canvassing in any form will disqualify.

H. A. EDWARDS,

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Town Hall, East Ham, E.6.

April, 1948. 634

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Applicants should have had sound Town

Planning experience and hold the Town Planning

Diploma. It is also desirable that applicants

should have the R.I.B.A. qualification of at least

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The person appointed will be required to work

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Commencing salary according to qualifications

and experience, in scale \$1,048 a month, rising to

\$1,820 a month, including expatriation pay. In

addition a cost-of-living allowance of up to \$425

a month is payable. The Government rate of

exchange is at present \$16 to the £ sterling, but

is liable to alteration. Free passages. Candi-

dates, not over 40 years of age, must be Chartered

Quantity Surveyors, and have had at least five

years' experience dealing with large building

works. Apply at once by letter, stating age,

whether married or single, and full particulars

of qualifications and experience, and mentioning

this paper, to the Crown Agents for the Colonies,

4, Millbank, London, S.W.1, quoting M/N/17517/3D

on both letter and envelope. 695

COUNTY OF ESSEX.

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT QUANTITY

SURVEYORS.

The Essex County Council invite applications

for the following appointments in the department

of the County Architect, under the Chief Quantity

Surveyor, at salaries within the scales appropriate

to the grades indicated of the A.P.T. Division

in the Scheme of Conditions of Service of the

National Joint Council:—

(a) Sectional Assistant Quantity Surveyor.

Grade VIII, £685-£760.

(b) Three Senior Assistant Quantity Surveyors.

Grade VII, £635-£710.

Candidates should be fully qualified and ex-

perienced, and be capable of taking off and billing

quantities, measuring on site and adjusting varia-

tions, preparing statements for the issue of

interim certificates and other normal quantity

surveying work.

In fixing the commencing salary in each case

regard will be had to the experience and qualifi-

cations of the successful candidate.

Applications must be made on a form obtainable

from the County Architect, Mr. H. Connolly,

F.R.I.B.A., at the address stated below (please

state post for which form is required), and when

completed the form, accompanied by copies of

not more than three recent testimonials, should

be returned to reach the County Architect not

later than the 29th April, 1948. The envelope

must be sealed and endorsed with the name of

the post for which application is made.

Canvassing, either directly or indirectly, is

forbidden.

JOHN E. LIGHTBURN,

Clerk of the County Council.

County Hall, Chelmsford, Essex. 612

3rd April, 1948.

GOVERNMENT OF IRAQ.

Applications from qualified candidates are

invited for the following post:—

ARCHITECTURAL DRAUGHTSMAN required by

Iraqi State Railways for three years in first

instance. Salary, I.D. 60 a month, plus cost-of-

living allowance of up to I.D. 18 a month

(I.D. 1 = £1). Free passages. Provident Fund.

Candidates must have had training and experi-

ence as Architectural Draughtsmen, with prefer-

ably some knowledge also of civil engineering

draughtsmanship. Apply at once by letter,

stating age, whether married or single, and full

particulars of qualifications and experience, and

mentioning this paper, to the Crown Agents for

the Colonies, 4, Millbank, London, S.W.1, quoting

M/N/12654/3D on both letter and envelope. 696

MONMOUTHSHIRE COUNTY COUNCIL.

Applications are invited for the following posts

in the County Architect's Department:—

(a) ONE PERMANENT PRINCIPAL ARCHI-

TECTURAL ASSISTANT, at a salary in accord-

ance with Grade VIII (i.e., £685, rising by

annual increments of £25 to £760), of the Ad-

ministrative, Professional and Technical Division

of the Joint Council's Scheme.

(b) ONE PERMANENT ARCHITECTURAL

ASSISTANT, at a salary in accordance with

Grade VII (i.e., £635, rising by annual incre-

ments of £25 to £710), of the Administrative, Pro-

fessional and Technical Division of the Scheme.

(c) ONE PERMANENT ARCHITECTURAL

ASSISTANT, at a salary in accordance with

Grade VI (i.e., £595, rising by two annual in-

crements of £20 and one of £25 to £660), of the

Administrative, Professional and Technical

Division of the Scheme.

(d) ONE PERMANENT ASSISTANT QUAN-

TITY SURVEYOR, at a salary in accordance

with Grade VI (i.e., £595, rising by two annual

increments of £20 and one of £25 to £660), of

the Administrative, Professional and Technical

Division of the Scheme.

Forms of applications, particulars of the post

COUNTY OF LINCOLN—PARTS OF
LINDSEY.

COUNTY ARCHITECT'S DEPARTMENT.

Vacancies exist on the permanent staff of the above Department, at consolidated salaries for the following:—

(a) ASSISTANT ARCHITECTS. Grade V, £520 per annum, rising subject to satisfactory service to Grade VI at £660 per annum.

(b) SENIOR ASSISTANT ARCHITECTS. Grade V, £520 per annum, rising to £570.

(c) INTERMEDIATE ASSISTANTS. Grade III, £450 per annum, rising to £495.

(d) JUNIOR ASSISTANTS. Grade II, £420 per annum, rising to £465.

Preference will be given to Associates of the Royal Institute of British Architects in respect of (a) and (b), Students R.I.B.A. in respect of (c) and (d), or Registered Architects. In the case of (c) one assistant is required in connection with maintenance duties of school property, and should have a sound practical knowledge of repairs, etc.

(e) SENIOR QUANTITY SURVEYOR. Grade VI, £595, rising to £660 per annum. Preference will be given to members of the R.I.C.S.

(f) HEATING ENGINEER. Grade IV, £480 per annum, rising to £525 per annum. Preference will be given to members of the Institute of Heating and Ventilating Engineers.

Applications must clearly state which post is being applied for, and the following particulars must be given: age, qualifications, experience, past and present appointments, and not more than two testimonials.

The successful applicant will be required to pass a medical examination.

All applications should reach the undersigned not later than Tuesday, 27th April, 1948.

A. RONALD CLARK,

County Architect.

County Offices, Lincoln.

12th April, 1948.

683

CLACTON URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, in the Engineer and Surveyor's Department, at a salary in accordance with A.P. and T. Division, Grade III, of the National Joint Council's Scale, £450 per annum, rising subject to satisfactory service, by annual increments of £15 to £495 per annum.

Preference will be given to candidates who are wholly or partly qualified, and have had experience of Municipal work.

The appointment, which may be terminated by one month's written notice on either side, is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Forms of application may be obtained from Mr. W. Aiston, A.M.I.C.E., Reg. Arch. Engineer and Surveyor, Town Hall, Clacton-on-Sea, and must be delivered, duly completed and accompanied by copies of not more than three recent testimonials, in a plain sealed envelope endorsed "Architectural Assistant," to the undersigned, by not later than first post on Tuesday, the 4th May, 1948.

Canvassing, either directly or indirectly, will disqualify.

Dated this 12th day of April, 1948.

CHARLES B. HEARN,

Clerk of the Council.

Town Hall, Clacton-on-Sea.

684

BOROUGH OF SOUTHGATE.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, on the Established Staff of the Borough Engineer and Surveyor.

The salary will be in accordance with Grade V of the A.P.T. Division of the National Joint Council Scales, namely £520-£570 per annum, plus £20 London weighting.

Applicants should be Associate Members of the Royal Institute of British Architects, or hold an equivalent qualification.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass satisfactorily a medical examination. The appointment will be terminable by one month's notice on either side.

Candidates who to their knowledge are related to a member or senior officer of the Council must disclose the relationship in their application. Failure to do so will disqualify or render the candidate appointed liable to dismissal without notice.

Canvassing, either directly or indirectly, will be a disqualification.

Applications, stating (1) name and address; (2) age; (3) qualifications by examinations; (4) present position, salary and date appointed; (5) previous positions, with dates and salaries; (6) particulars of experience, accompanied by copies of three recent testimonials, should be sent to Mr. J. T. W. Peat, F.R.I.B.A., Borough Engineer and Surveyor, Southgate Town Hall, Palmers Green, London, N.13, in an envelope endorsed "Architectural Assistant," so as to reach him not later than 9 a.m. on Monday, 10th May, 1948.

GORDON H. TAYLOR,

Town Clerk.

Southgate Town Hall, Palmers Green,
London, N.13.

692

ARCHITECTURAL DRAUGHTSMEN, with full period of recognized training and fair experience, required by Ministry of Works for London. Appointments are in unestablished capacity, with prospects of permanency. Work is varied; not confined to standard schemes. Starting pay assessed on one of two scales: Draughtsmen, £300-£325 p.a.; Leading Draughtsmen, £500-£625 p.a., according to age, qualifications and experience.

Apply in writing, stating age, nationality, full details of experience, to Chief Architect, W.G.10/D, Ministry of Works, Abell House, London, S.W.1.

669

METROPOLITAN BOROUGH OF
PADDDINGTON.

HOUSING DEPARTMENT.

APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the appointment, on the permanent establishment of the Council, of Assistant Quantity Surveyor, in the Architectural Section of the Housing Department. The salary will be in accordance with Grades III and IV of the A.P.T. Division of the National Joint Council's Scheme of Conditions of Service, viz., £450 per annum, rising by annual increments of £15 to the maximum of £525 per annum, plus London "weighting" (£20 per annum). The commencing salary will be fixed within the grades, according to the experience and qualifications of the successful candidate.

Applicants must have experience in all branches of building work, and should be familiar with every aspect of a Quantity Surveyor's duties, including preparation of estimates, bills of quantities, abstracts, contract documents, and cost statistics, and be able to measure up for interim and final certificates and to settle final accounts. Preference will be given to candidates possessing an appropriate examination qualification.

The appointment will be subject to one month's notice on either side, and the successful candidate will be required to produce a certificate of birth, pass an examination by the Council's medical examiner, and devote the whole of his time to the duties of his office. The appointment will also be subject to the Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and to the provisions of the Paddington Borough Council (Superannuation and Pensions) Acts.

Applications, stating age, qualifications and experience, and present and previous appointments with salaries, should include copies of three recent testimonials, and should be delivered to the undersigned in an envelope marked "Appointment of Assistant Quantity Surveyor," not later than Monday, 10th May, 1948.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY,

Town Clerk.

Town Hall, Paddington, London, W.2.

697

BOROUGH OF DOUGLAS.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in the Borough Engineer and Surveyor's office, at a salary of £475 per annum, plus cost-of-living bonus, at present £50 per annum.

Applicants must be Associates of the R.I.B.A., and experienced in the preparation of working drawings, specifications and quantities for public buildings, housing schemes, and other Municipal buildings.

The appointment will be terminable by one month's notice on either side, and will be subject to the provisions of the Council's Superannuation Scheme, which does not provide for receipt or payment of any transfer value on entering or leaving the Council's service.

The successful candidate will be required to pass a medical examination, and to contribute towards the Superannuation Fund.

Applications, endorsed "Architectural Assistant," giving particulars of age, qualifications and experience, together with copies of not more than three recent testimonials, should be addressed to the undersigned, not later than Friday, 30th April, 1948.

Canvassing, either directly or indirectly, will be deemed to be a disqualification.

PERCY M. SHIMMIN,

Town Clerk.

Town Hall, Douglas, Isle of Man.

6th April, 1948.

637

RICKMANSWORTH URBAN DISTRICT
COUNCIL.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, in the Surveyor's Department, at a salary in accordance with A.P.T. V, £520-£570.

Applicants must have had experience in the design of housing schemes, and in the preparation of specifications, bills, and estimates in connection therewith, and should be an Associate of the Royal Institute of British Architects or have reached a similar standard.

Applications, stating age, qualifications and details of previous experience, together with the names of two persons to whom reference may be made, should reach the undersigned not later than the 5th May, 1948.

C. G. RANSOME WILLIAMS,

Clerk of the Council.

Council Offices, Rickmansworth, Herts.

672

BOROUGH OF WEMBLEY.
APPOINTMENT OF SENIOR ASSISTANT
ARCHITECT.

Applications are invited for the appointment of Senior Assistant Architect, in the Borough Engineer and Surveyor's Department. Salary, Grade A.P.T. VI, of the National Salary Scales, namely (including London "weighting"), £615 to £680 per annum.

Applicants must have passed the examinations of the R.I.B.A., and have had considerable experience of the design and construction of houses, flats, and Municipal buildings.

The appointment will be subject to the National Scheme of Conditions of Service and to the provisions of the Local Government Superannuation Acts, 1937 and 1939. The successful applicant will be required to pass a medical examination.

Applications, by letter, stating full name, address, age, qualifications, present and previous appointments, training and full details of experience, and if a relative of any member or officer of the Council, together with the names and addresses of three referees (testimonials not required), must be received by the Borough Engineer and Surveyor by 8th May, 1948.

Canvassing, directly or indirectly, of members of the Council will disqualify an applicant.

KENNETH TANSLEY,

Town Clerk.

Town Hall, Wembley.

22nd April, 1948.

694

FACULTY OF ENGINEERING.
FAROUK I UNIVERSITY, ALEXANDRIA
(EGYPT).

Applications are invited for the post of STUDIO INSTRUCTOR in Architectural Design, in the Dept. of Architecture (Lecturer A.).

Applicants should be holders of the highest Degree or Diploma of a recognized School of Architecture, and have had at least 4 years' teaching or professional experience.

Salary to be estimated according to qualifications, from £E420 to £E540 per annum. A high cost-of-living bonus equivalent to 14 per cent. of salary will be paid, as from the beginning of the fourth month of the appointment. This bonus is liable to alteration or abolition. Moreover an expatriation allowance equivalent to one-third to one-half of the salary will be paid. Total deductions for income tax, etc., do not exceed 5 per cent. of the salary and bonuses.

The contract is for two years, renewable. The University will pay travelling expenses to Egypt up to two months' salary (on presentation of official receipts) as well as the expenses of the homeward journey at the termination of the contract period.

Applications, which should include particulars of academic qualifications and experience, together with three references, should be addressed before the 15th June, 1948, to The Director, Egyptian Education Bureau, 4, Chesterfield Gardens, Park Lane, London, W.1.

686

COUNTY BOROUGH OF ROCHDALE.
BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the under-mentioned appointments:—

ARCHITECTURAL ASSISTANT. Grade A.P.T. IV. Salary scale, £480-£525 per annum. Applicants should be Registered Architects and have a thorough knowledge of architectural work, with practical experience in the design of public buildings of all types.

SENIOR HEATING AND VENTILATING ASSISTANT. Grade A.P.T. V. Salary scale, £520-£570 per annum. Applicants must be Members or Associate Members of the Institution of Heating and Ventilating Engineers, and have had considerable experience in mechanical engineering, with particular regard to the design and installation of heating and ventilating systems of all types.

The appointments will be subject to the provisions of the Local Government Superannuation Acts, and to the passing of a medical examination. Applications, stating age, qualifications and experience, together with the names of three persons to whom reference can be made, should be sent to the Borough Surveyor, Town Hall, Rochdale, not later than Saturday, the 3th May, 1948. Relationship to any member of the Council or Senior Officer of the Corporation must be disclosed, and canvassing will disqualify.

G. F. SIMMONDS,

Town Clerk.

679

CITY OF BATH.
CITY ENGINEER'S DEPARTMENT.

(1) Applications are invited for the following appointment on the permanent staff of the City Engineer:—

(2) JUNIOR ARCHITECTURAL ASSISTANT. Salary, A.P.T. I or II (£390-£435 or £420-£465), depending on qualifications and experience.

(3) The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

(4) Applications, stating age, qualifications and experience, together with copies of not more than three recent testimonials, should be sent to the City Engineer, Guildhall, Bath, not later than 8th May, 1948.

J. BASIL OGDEN,

Town Clerk.

Guildhall, Bath.

12th April, 1948.

681

**HUNTINGDONSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments in the County Architect's Department—

- (a) **SENIOR ARCHITECTURAL ASSISTANT.** Grade VI, £535, rising to £600 per annum.
(b) **ARCHITECTURAL ASSISTANT.** Grade III, £390, rising to £435 per annum.

The appropriate cost-of-living bonus, at present £59 16s. per annum, is payable in addition, and both appointments will be subject to the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

The appointments are terminable by one month's notice on either side.

Applications, stating age, qualifications, experience, and date on which duties could be commenced if appointed, together with copies of three testimonials, should be sent to Mr. T. H. Longstaff, M.Inst.C.E., F.R.I.B.A., M.T.P.I., County Architect, Walden House, Huntingdon, by not later than Monday, 10th May, 1948.

J. B. KELLY,
Clerk of the County Council.
County Buildings, Huntingdon. 709

**OXFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments—

- (a) **TWO ASSISTANT ARCHITECTS.** Grade V, £460-£510.
(b) **ASSISTANT ARCHITECT.** Grade IV, £360-£465.

A cost-of-living bonus at £59 16s. per annum is paid in addition to the above.

Candidates for (a) and (b) must be members of the R.I.B.A., and preference will be given to those with experience in the work of a County Council, e.g., Schools, Police Buildings, etc.

One candidate of (a) will be required to own and drive a car, for which an allowance on the Council's scale will apply.

The posts are subject to the provisions of the L.G. Superannuation Act, 1937, and the appointment is subject to the passing of a medical examination.

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, and endorsed "Assistant Architect," are to be sent to the County Architect, 3, Becket Street, Oxford, not later than Wednesday, 5th May, 1948.

F. G. SCOTT,
Clerk of the Council. 703

**DURHAM RURAL DISTRICT COUNCIL.
APPOINTMENT OF HOUSING ARCHITECT
(TEMPORARY).**

Applications are invited for the temporary appointment of a qualified ARCHITECT. The person appointed will be responsible for the Council's housing schemes now in progress and in contemplation.

The salary will be in accordance with Grade VIII of the A.P.T. Division of the National Scales of Salaries (£685-£725-£760). Travelling allowance will be paid in accordance with the scale of the National Joint Council for a car not exceeding 8 h.p.

The appointment will be terminable by three months' notice on either side, and subject to (a) the provisions of the Local Government Superannuation Act, 1937, (b) medical examination, and (c) National Scheme of Conditions of Service.

Canvassing, directly or indirectly, will be a disqualification.

Applicants should state whether, to their knowledge, they are related to any member or senior official of the Council.

Forms of application are obtainable from the undersigned, and must be returned with copies of not more than three recent testimonials, not later than first post on Saturday, the 22nd May, 1948.

FRANK KIRBY,
Clerk to the Council.
Council Offices, Byland Lodge, Hawthorn Terrace, Durham. 705

COUNTY BOROUGH OF SOUTHEAST-ON-SEA.

Applications are invited for the appointment of SENIOR ASSISTANT QUANTITY SURVEYOR in the Department of the Borough Engineer and Surveyor, in Grade VII (£635-£725-£710 per annum). Subject to superannuation and medical examination. The Council intend to make suitable housing accommodation available in the near future.

Candidates should be Chartered Quantity Surveyors and have considerable experience in the construction of schools, housing and public buildings generally.

Applications, stating age, education, professional training, qualifications and experience, and past and present employment, and accompanied by one copy testimonial and two professional references, to be sent to the Borough Engineer at this address by 6th May, 1948.

Canvassing will disqualify.

ARCHIBALD GIEN,
Town Clerk.
Municipal Buildings, Southend-on-Sea. 688

CIVIL ENGINEERING DRAUGHTSMEN required for duty at Middle East coastal location.

(a) DESIGNERS. (b) DETAILERS.

Reinforced concrete/steel structures; heavy plant foundations; earthwork, water/drainage systems, and general buildings.

Candidates (a) about, but desirably not older than 34; must possess extensive practical experience in works specified, of which at least 5 years in responsible capacity in D.O. on design and detail. For (b), aged 28-30, with not less than 7 years' practice, including minimum of 3 years in D.O. on detailing. All applicants must have served engineering apprenticeship; claim at least Technical School background, and qualifications to not less than H.N.C.

Salaries (incremental) from (a) £700, (b) £600; plus £324-£527, dependent on family circumstances; free furnished quarters. The service is pensionable-non-contributory. Write quoting No. 129, to Box 2193, c/o Charles Barker & Sons, Ltd., 31, Budge Row, London, E.C.4. 693

GOVERNMENT OF IRAQ.
Applications from qualified candidates are invited for the following post:—

QUANTITY SURVEYOR required by Iraqi State Railways for three years in first instance. Salary, I.D. 90 a month, plus cost-of-living allowance I.D. 24 (Iraq Dinar 1 equals £1). Free passages. Provident Fund. Candidates should be experienced Quantity Surveyors, and be competent to undertake all operations up to final preparation of Bills of Quantities. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/17612/3D on both letter and envelope. 708

**LONDON COUNTY COUNCIL.
PARKS DEPARTMENT.**

Applications are invited for a temporary position of **LANDSCAPE ARCHITECTURAL ASSISTANT.**

Applicants should have had experience in the layout and construction of public parks, and be able to make surveys, take levels and prepare designs, drawings, specifications and details, and be capable of settling out and supervising works in progress. Salary according to qualifications and experience, between £440 and £580. Applications to be accompanied by three copies of recent testimonials and specimens of work to the Chief Officer of the Parks Department, Old County Hall, Spring Gardens, S.W.1. Canvassing disqualifies. (981) 702



dust

Dust penetrates insidiously and is quick to disrupt the finest mechanism. It has a harmful effect upon the general health of your employees, and the production capacity of your machinery, thereby reducing output. Banish this costly menace with Musgrave Dust Removal Equipment.

MUSGRAVE & CO LTD. ST. ANN'S WORKS BELFAST

AND AT LONDON MANCHESTER GLASGOW BIRMINGHAM

BOROUGH OF BROMLEY, KENT.
Applications are invited for the following appointments:—

(a) **ARCHITECTURAL ASSISTANT (Grade I)**, at a salary in accordance with A.P.T. Division, Grade V (£540-£590).

(b) **ENGINEERING ASSISTANT (Grade II)**, at a salary in accordance with A.P.T. Division, Grade III (£470-£515).

Applicants for (a) must be Registered Architects, and preferably Associate Members of the Royal Institute of British Architects and/or have passed an examination of the Chartered Surveyors Institution Building Section.

Applicants for (b) should be Associate Members of the Institution of Municipal Engineers, or possess equivalent qualifications.

The successful candidates will be required to pass a medical examination and contribute to the Superannuation Fund under the Local Government Superannuation Act, 1937.

Applications, stating age, experience and qualifications, accompanied by copies of not more than three recent testimonials, should be sent to the Borough Engineer at these offices, to reach him not later than 8th May, 1948.

Canvassing, directly or indirectly, will be a disqualification.

B. CRITCHLEY AUTY,
Town Clerk.

Municipal Offices, Bromley, Kent.
16th April, 1948. 700

CITY OF CANTERBURY.

SECOND ASSISTANT ARCHITECT.
Applications are invited for the appointment of Second Assistant Architect, in the City Architect's Department, at a salary in accordance with Grade A.P.T. IV, £480 × £15 to £255.

Applicants must be A.R.I.B.A., and should have had experience of housing work. Town Planning experience is also desirable, but not essential.

The successful candidate will be required to pass a medical examination.

Applications, giving age, full particulars of experience and qualifications, and the names of not more than three persons to whom reference may be made, should be received by Mr. L. Hugh Wilson, A.R.I.B.A., A.M.P.T.I., City Architect, not later than 7th May, 1948.

J. BOYLE,
Town Clerk.

Municipal Buildings, Canterbury.
13th April, 1948. 685

Partnerships and Financial

6 lines, 10s.; each additional line, 1s. 6d.

CHARTERED ARCHITECT (F.R.I.B.A.).
Age 40, wishes to purchase partnership or practice, in South or South-West England; would consider accepting situation leading to partnership. Box 675.

PROSPECTIVE JUNIOR PARTNER
(Chartered Architect and/or Chartered Surveyor), age 30-40, required by City Firm of Architects, Surveyors and Valuers; must be experienced in Building, Surveying and Valuation of Urban Properties; commencing salary, £750 upwards, according to qualifications and experience. Write D.273, c/o Streets, 110, Old Broad Street, E.C.2. 706

Architectural Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

KEEN JUNIOR ASSISTANT required for Architect's country practice in Oxfordshire; must be capable of doing working drawings from Architect's rough sketches, surveying and leveling; must be neat and accurate. Reply, stating age, experience, and salary required, to Box 575.

COMPETENT QUALIFIED ARCHITECTURAL ASSISTANT required to work under Chief Assistant in extensive Norfolk practice; must be car driver and single for preference; also **JUNIOR ASSISTANTS**; salaries according to ability. Apply Box 608.

ARCHITECTURAL ASSISTANT required immediately in London office; must be good draughtsman, of intermediate standard; some experience of industrial buildings an advantage. Box 621.

ARCHITECT'S ASSISTANT required in Midlands Office. Must be quick and accurate draughtsman with experience in Industrial Buildings. Reply with full particulars, salary required, etc., to Box 661.

ARCHITECT wanted, Assistant, or partnership considered, old-established firm, Lancashire-Cheshire border. Age not over 40. Apply Box 658.

TWO ARCHITECTURAL ASSISTANTS required; first-class draughtsman with sound knowledge of building construction essential; salary up to £500 per annum, according to qualifications and experience. Apply in writing to George Wimpey & Co., Ltd., Tilehouse Lane, Denham, near Uxbridge, Middx. 679

SENIOR ASSISTANT required to take charge of office of Central London Architect; experience in building surveys, specifications, reports, draughtsmanship, etc.; possibility of partnership; state age, experience, salary.—Box 680.

APPLICATIONS invited for the position of **STAFF ARCHITECT**, at large modern Departmental Store in the North of England; site area 75,000 sq. ft., floor area 135,000 sq. ft., with complementary trading activities; duties comprise the further development of the existing premises, general alterations, improved departmental layouts, designs for internal fixtures and fittings; also supervision and control of staff joiners, electricians, painters and plumbers; permanent position; salary according to experience and qualifications; younger applicants preferred, with urge to make a good position; state age, qualifications, previous experience, and salary required. Box 676.

ARCON, Chartered Architects, have vacancies for a limited number of **DRAUGHTSMEN**, of R.I.B.A. Intermediate exam. standard, in addition to suitable experience; applicants having passed their Final at a recognized day school, but without experience, would be considered; salaries ranging from £250 to £350 p.a. Apply Arcon, 81, Piccadilly, W.1. 670

LONDON, W.1.—Architects invite **SENIOR** and **JUNIOR ASSISTANTS** to contact them when available, as they have vacancies for permanent posts in a rapidly expanding office, in which ability and effort would be recognized. Details of salary, age, experience, to Box 667.

CENTRAL London Architects have immediate vacancies for **ASSISTANTS** (Male or Female), to augment their existing staff; ex-R.E. or other Services are particularly invited to reply; applicants should have up-to-date knowledge of the housing requirements of Ministries and Local Authorities; there is ample opportunity for advancement; salary according to results obtained. Full details of career and commencing salary required to Box 668.

JUNIOR ASSISTANT (Inter. R.I.B.A. standard); working drawings, surveys, and specifications; salary according to experience. Watson & Johnson, 5, Victoria Square, Birmingham, 2. 689

ARCHITECTURAL ASSISTANT required (City) immediately; experience in Industrial work essential; permanency and good prospects for suitable applicant. Apply, stating full particulars and salary required, to Box 687.

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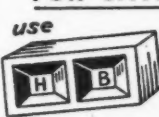
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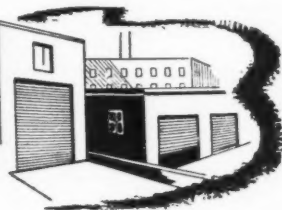
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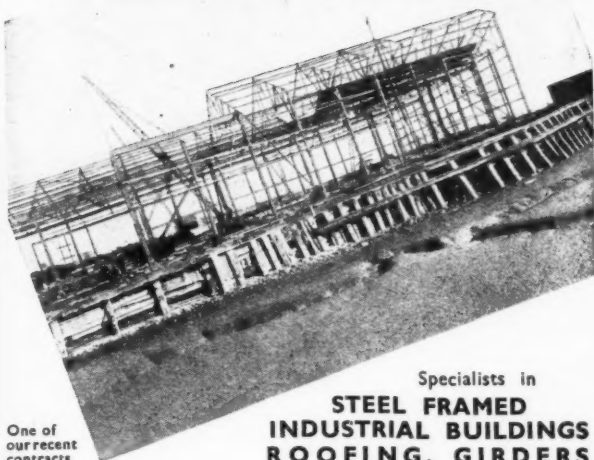
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