

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Diary

News

Architects' Commonplace Book

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted | and Vacant

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society, 66, Portland Place, W.1.	Welbeck 5721
ABT	Association of Building Technicians, 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain, 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association, 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction, 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association, School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15.	Ardwick 3480
ARCUK	Architects' Registration Council, 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects, 66, Portland Place, W.1.	Welbeck 5721
ASeW	Association of Scientific Workers, 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education, 66, Portland Place, W.1.	Welbeck 5721
BATC	Building Apprenticeship and Training Council, Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre, 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council, 28, Sackville Street, W.1.	Regent 3613
BCCF	British Cast Concrete Federation, 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association, Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association, 25, Victoria Street, S.W.1.	Abbey 5422-3
BEDA	British Electrical Development Association, 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGC	British Gas Council, 1, Grosvenor Place, S.W.1.	Sloane 4554
BGF	British Gas Federation, 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association, 5, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education, 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors, 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council, 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade, Millbank, S.W.1.	Whitehall 5140
BRs	Building Research Station, Bucknalls Lane, Watford	Garston 2246
BSA	Building Societies Association, 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution, 28, Victoria Street, S.W.1.	Abbey 3333
CAS	County Architects Society, C/o A. Guy Chant, F.R.I.B.A., Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association, 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association, Kendals Hall, Radlett Herts.	Radlett 5616
CIAD	Central Institute of Art and Design, 41, 42, Dover Street, W.1.	Regent 3074
CIAM	Congrès Internationaux d'Architecture Moderne, Dolderal, 7, Zurich, Switzerland	
CID	Council of Industrial Design, Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee, MOW, 42, Onslow Gardens, S.W.7.	Kensington 8161
CPRE	Council for the Preservation of Rural England, 4, Hobart Place, S.W.	Sloane 4280
CUJC	Coal Utilization Joint Council, 13, Grosvenor Gardens, London, S.W.1.	Victoria 1534
DIA	Design and Industries Association, 9, Conduit Street, W.1.	Mayfair 5432
DOT	Department of Overseas Trade, 35, Old Queen Street, S.W.1.	Victoria 9040
EC	Electricity Commission, Savoy Court, Strand, W.C.2.	Temple Bar 7565
EJMA	English Joinery Manufacturers Association (Incorporated), Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society, 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors, 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub Contractors, 21, Tothill Street, S.W.1.	Whitehall 9606
FBI	Federation of British Industries, 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission, 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries, 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association, Stapleford Road, Trowell, Nottingham.	Ilkeston 623/4/5
FLD	Friends of the Lake District, Pennington House, Nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders, 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FRHB	Federation of Registered House Builders, 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England, 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group, 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre, 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors, 75, Eaton Place, S.W.1.	Sloane 3158
ICE	Institution of Civil Engineers, Great George Street, S.W.1.	Whitehall 4577
ICW	Institute of Clayworkers, 4, Vernon Place, W.C.1.	Chancery 6258

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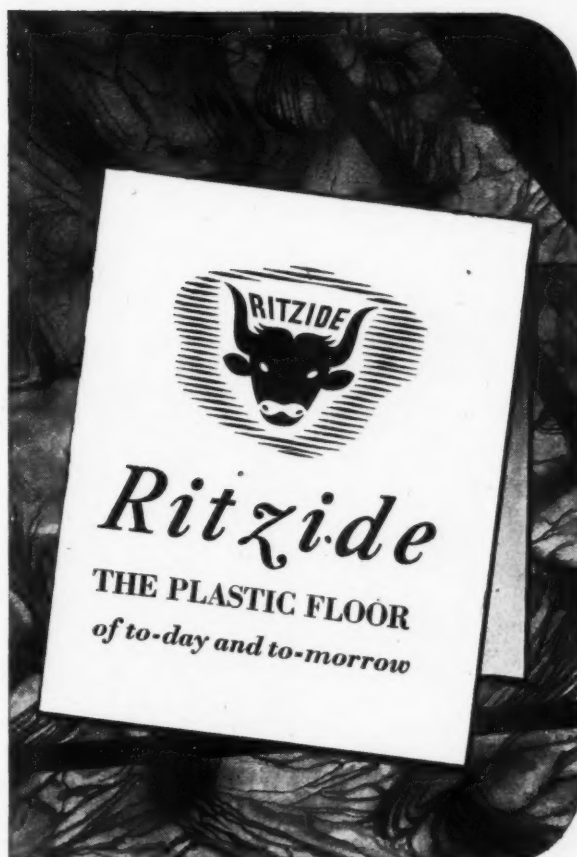
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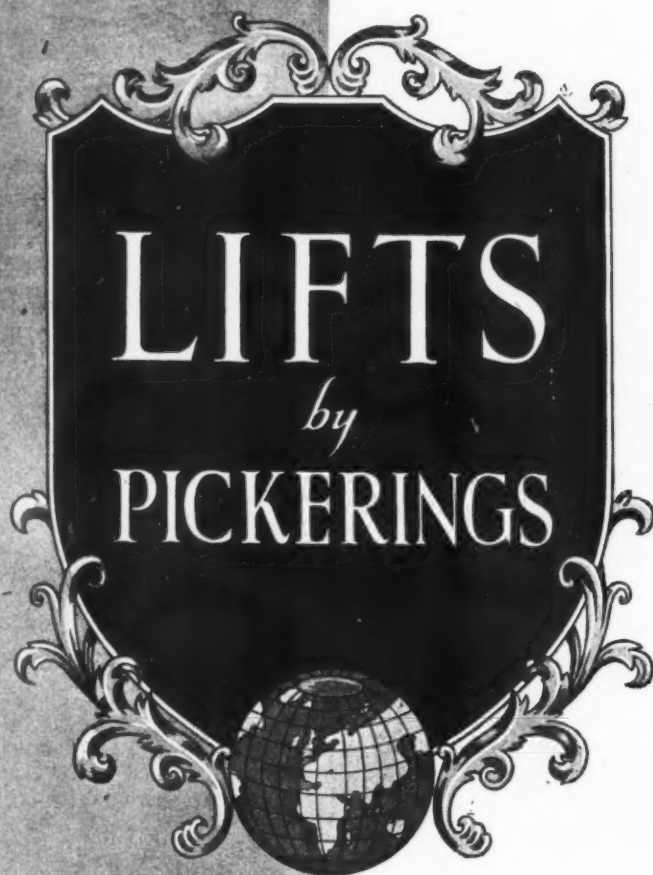
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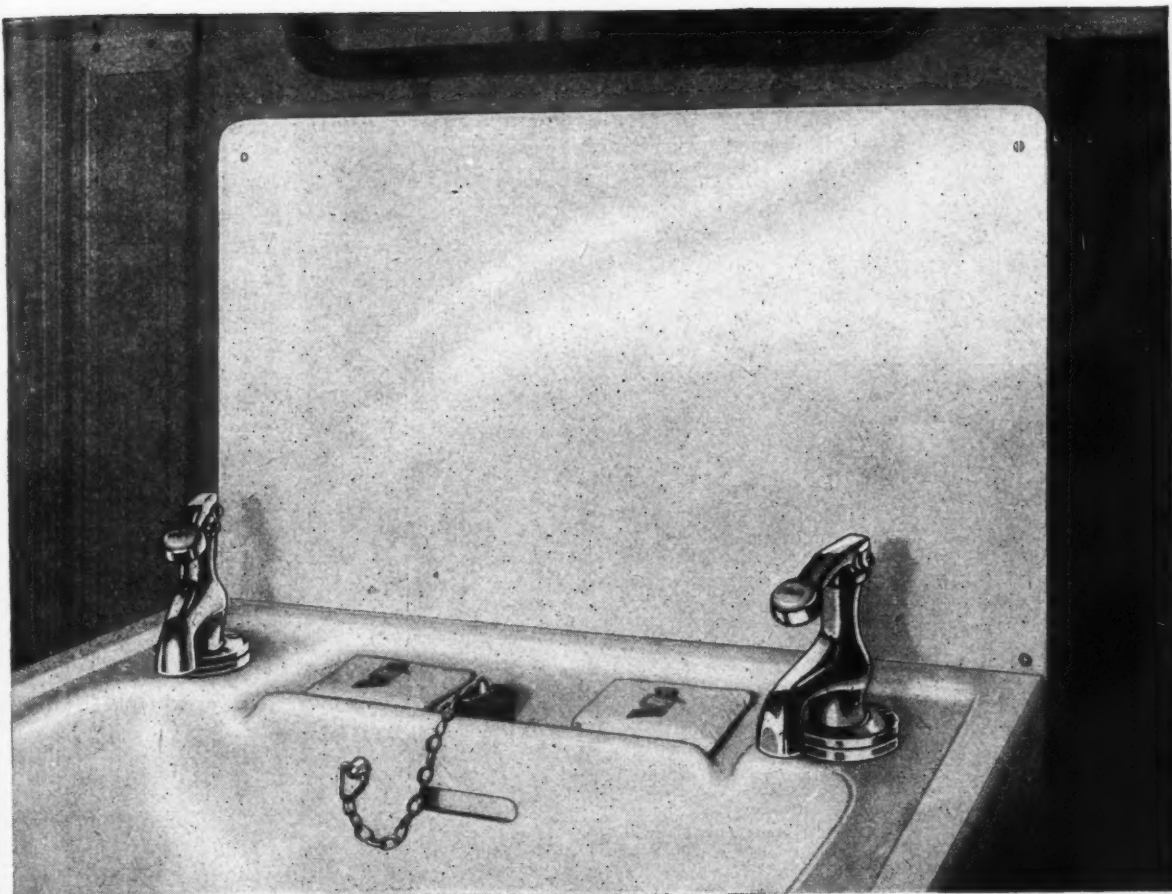
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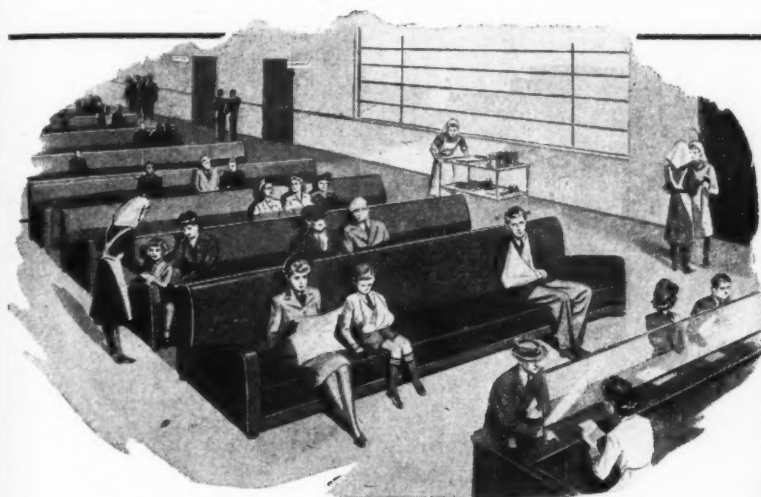
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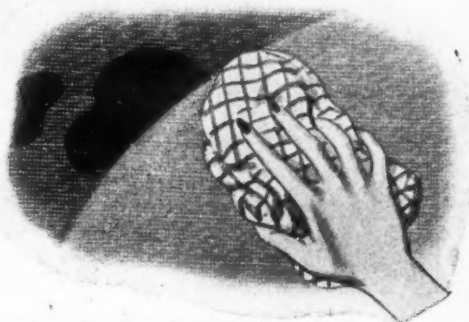


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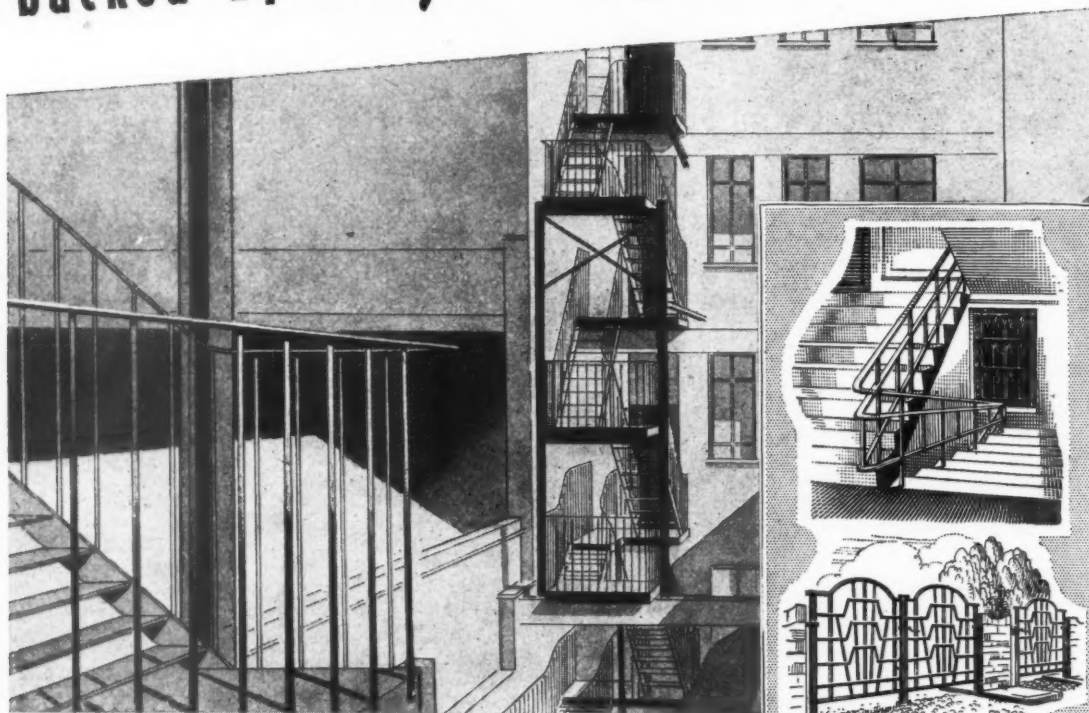
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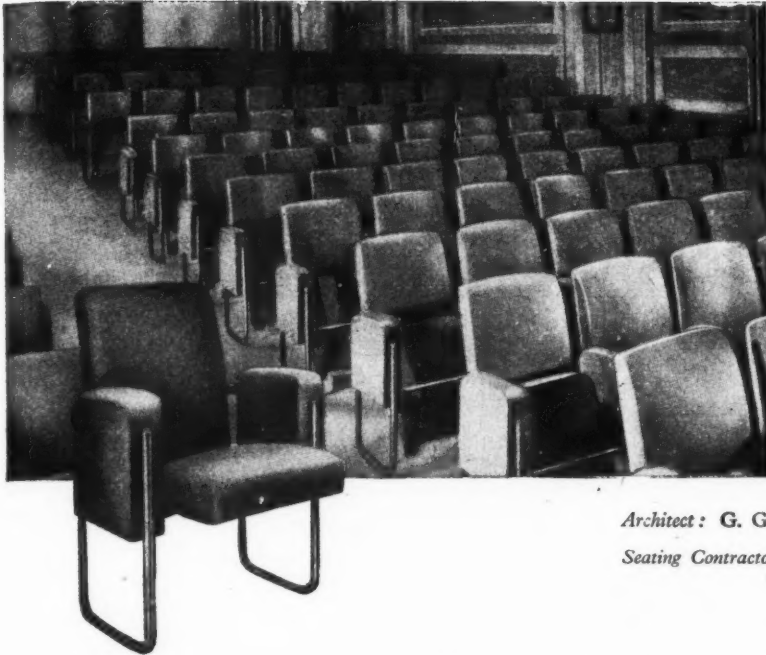
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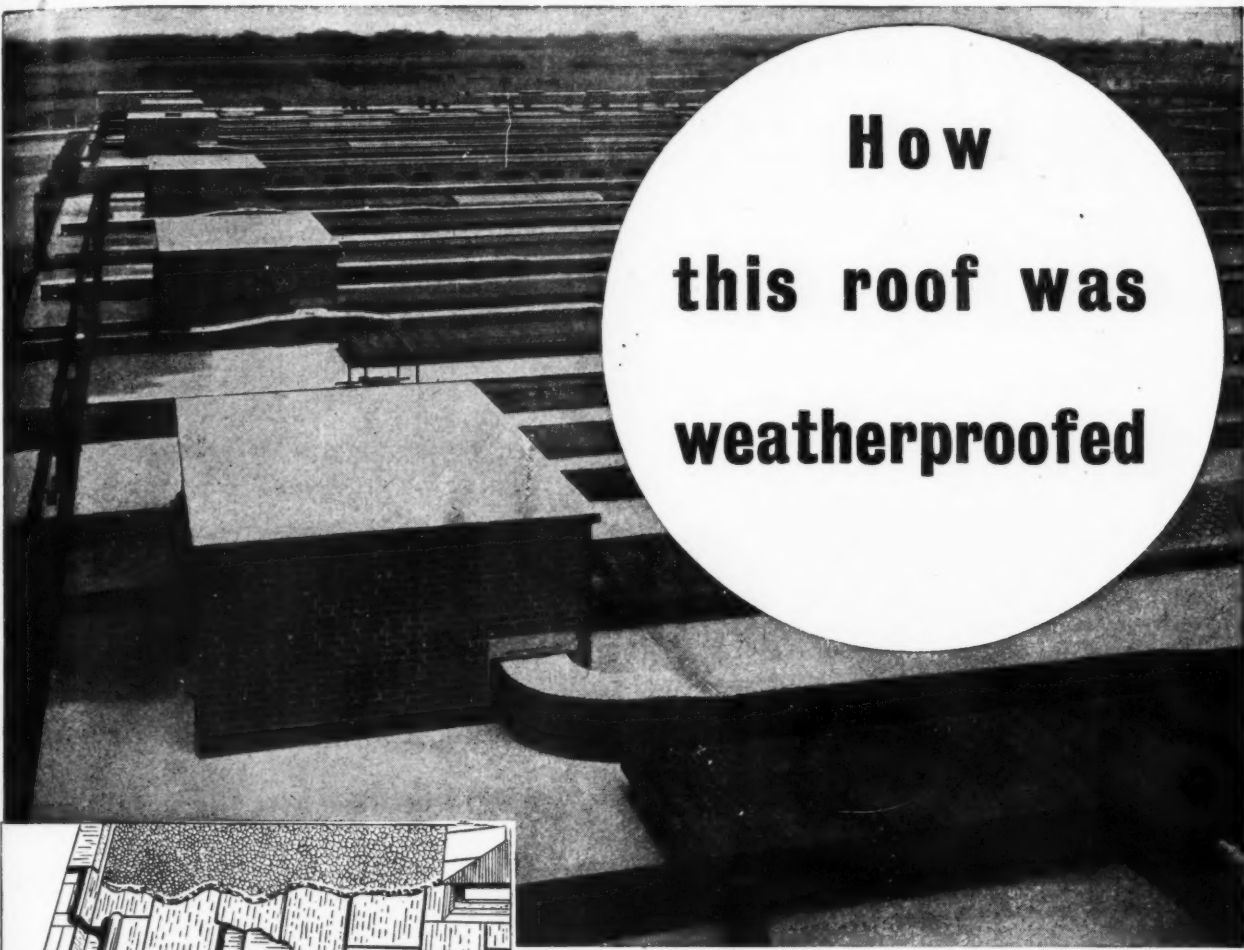
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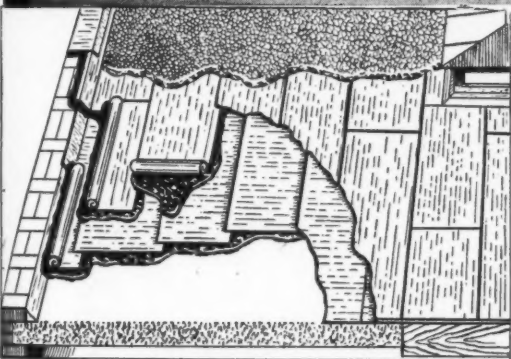
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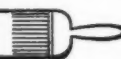
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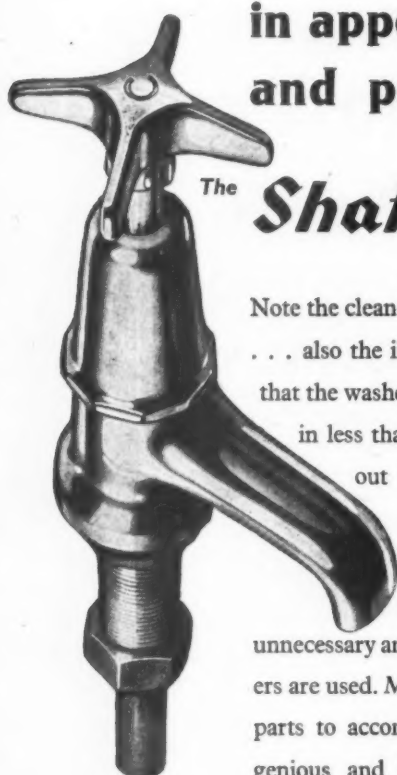
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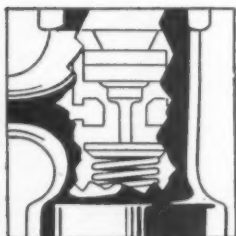
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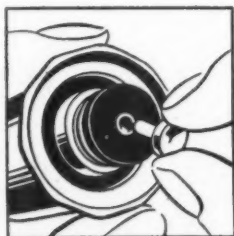
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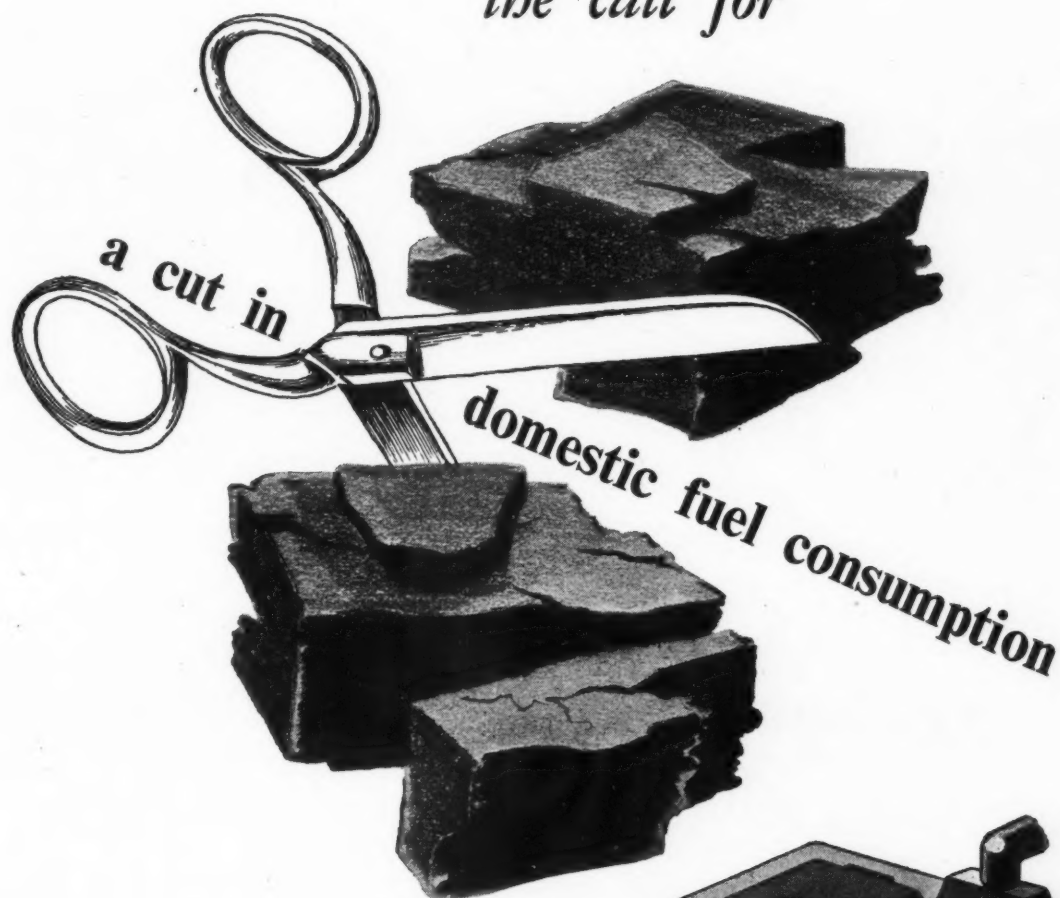
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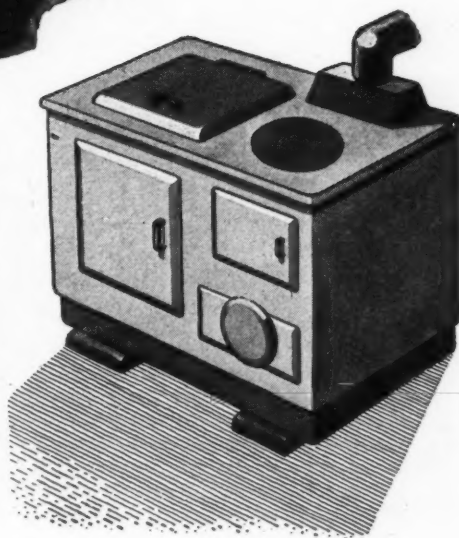
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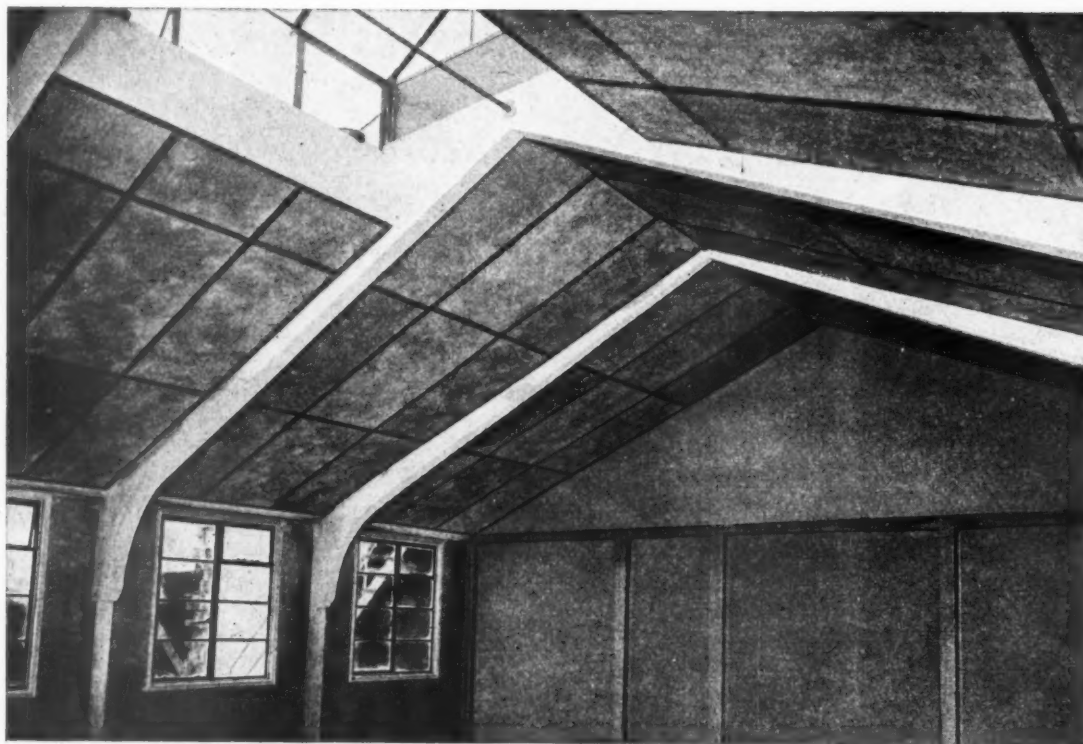
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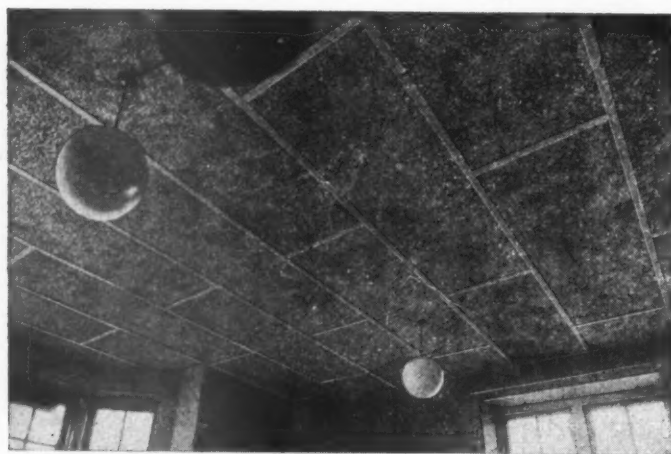
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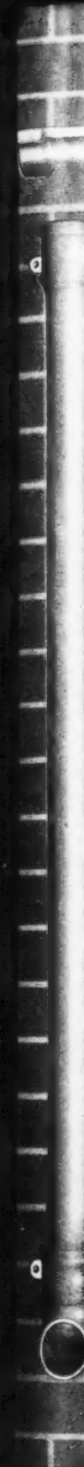
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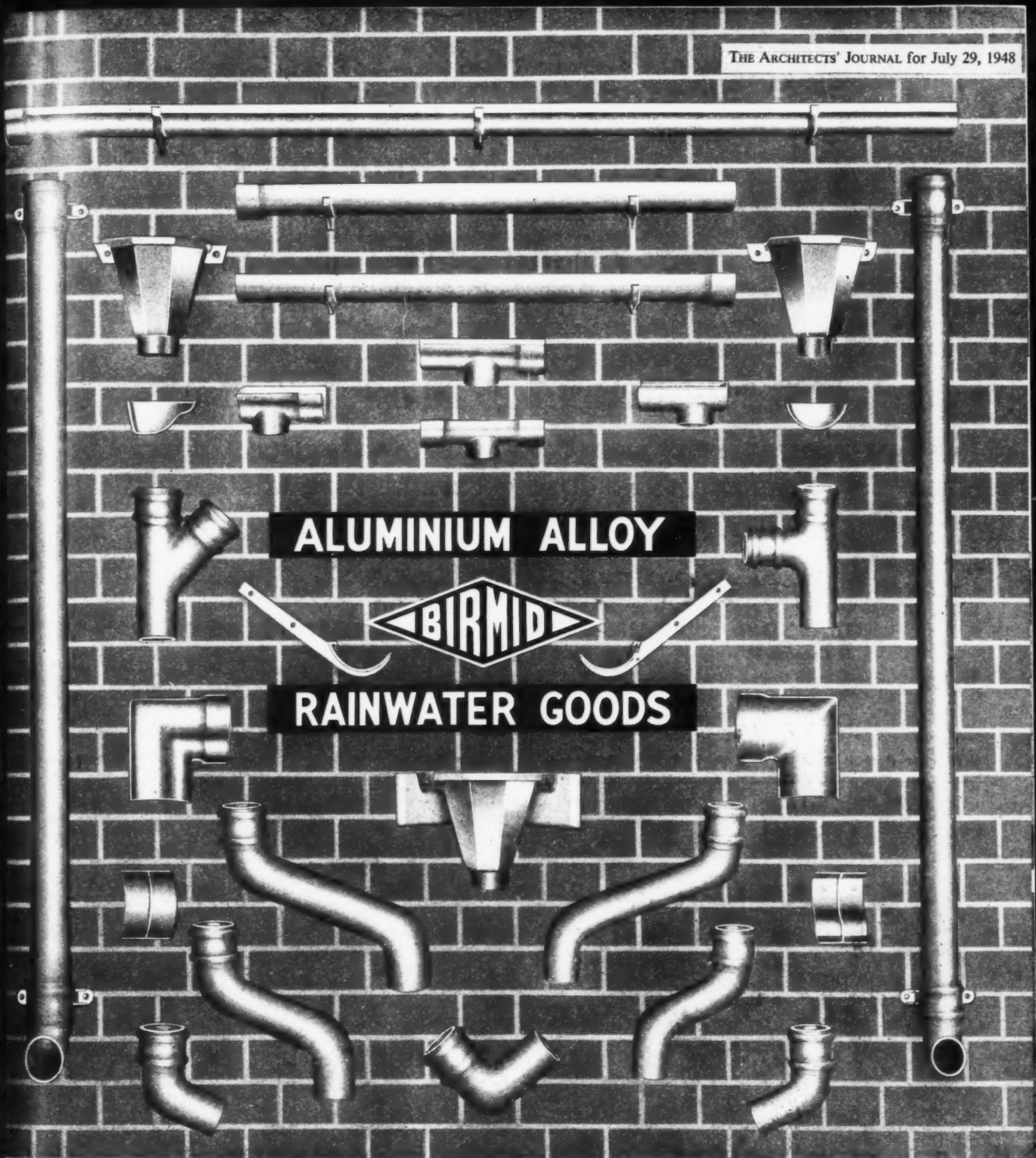


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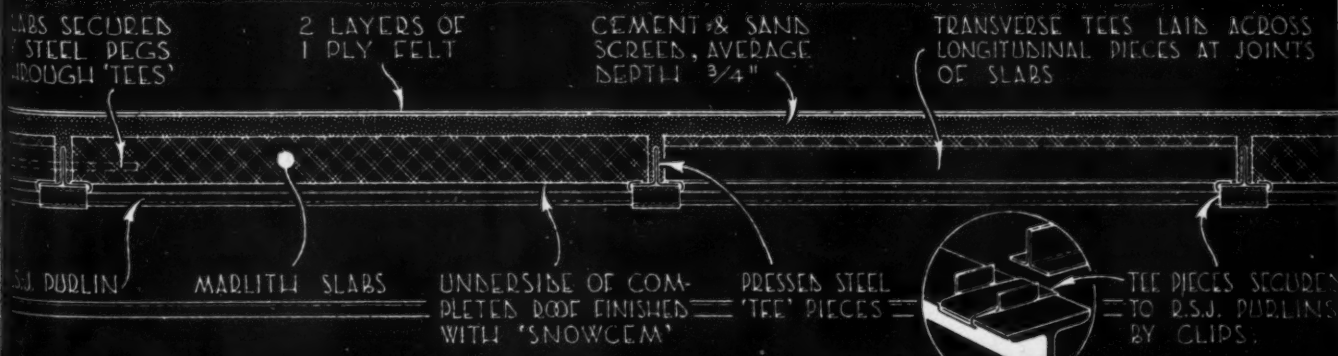
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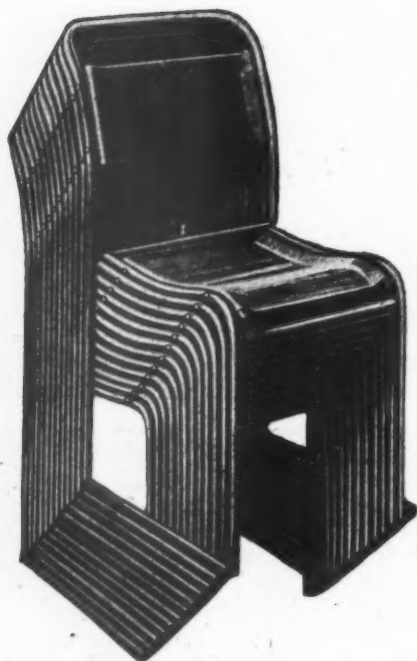
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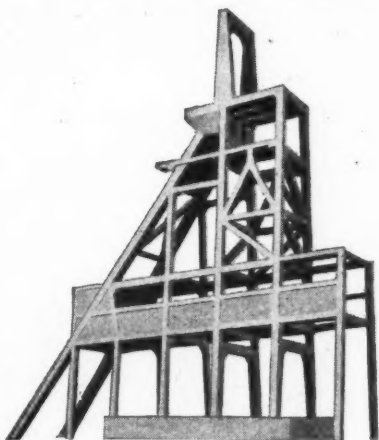
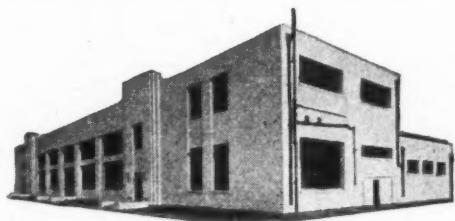
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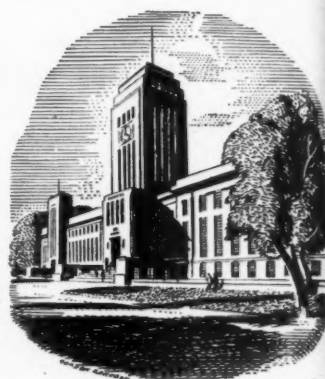


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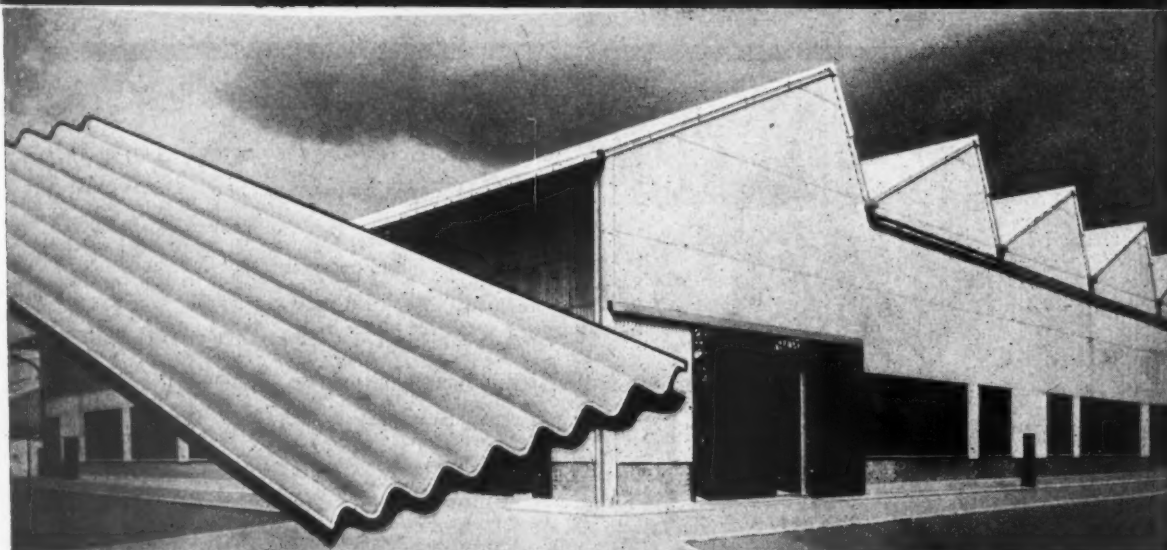


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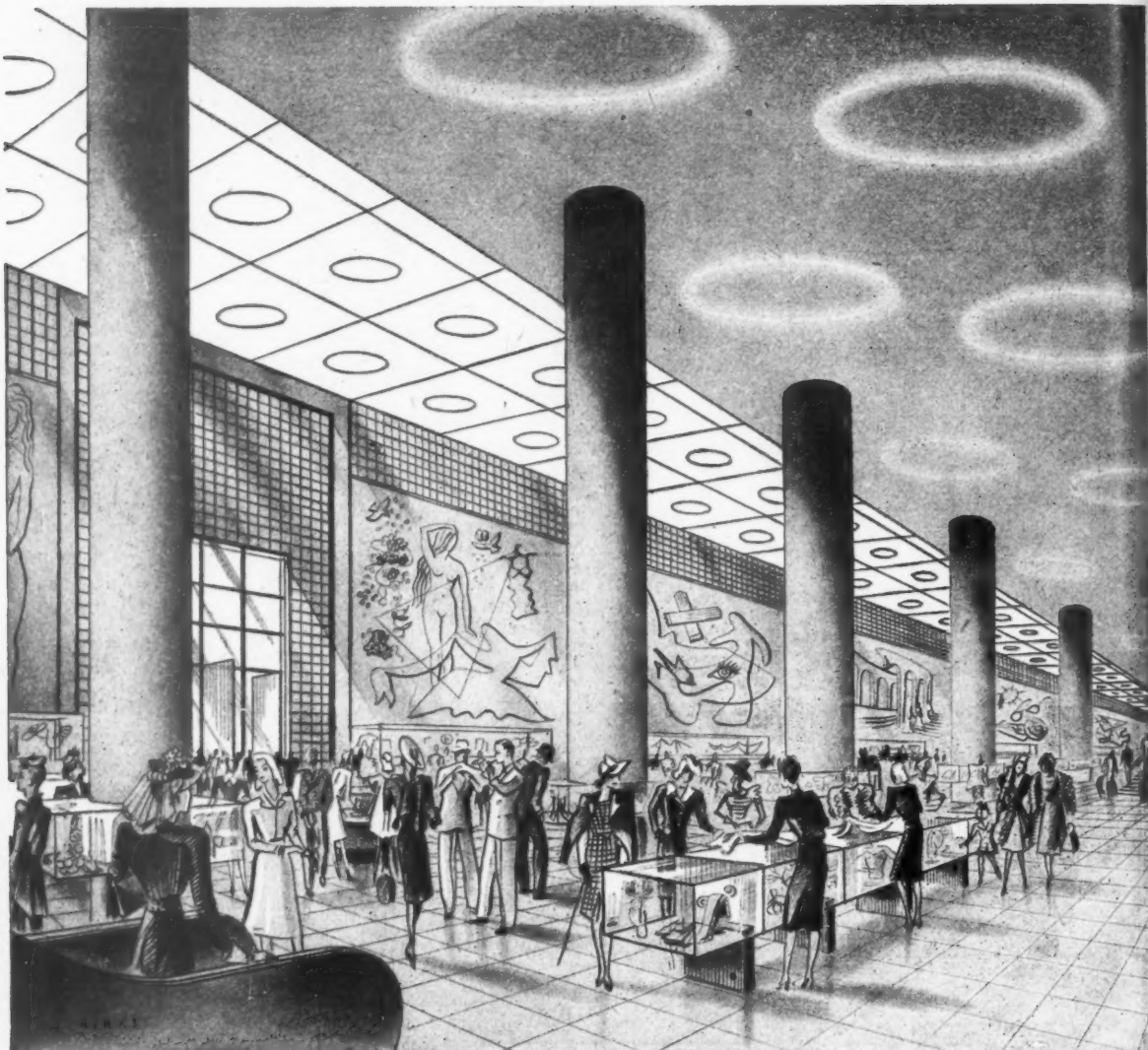


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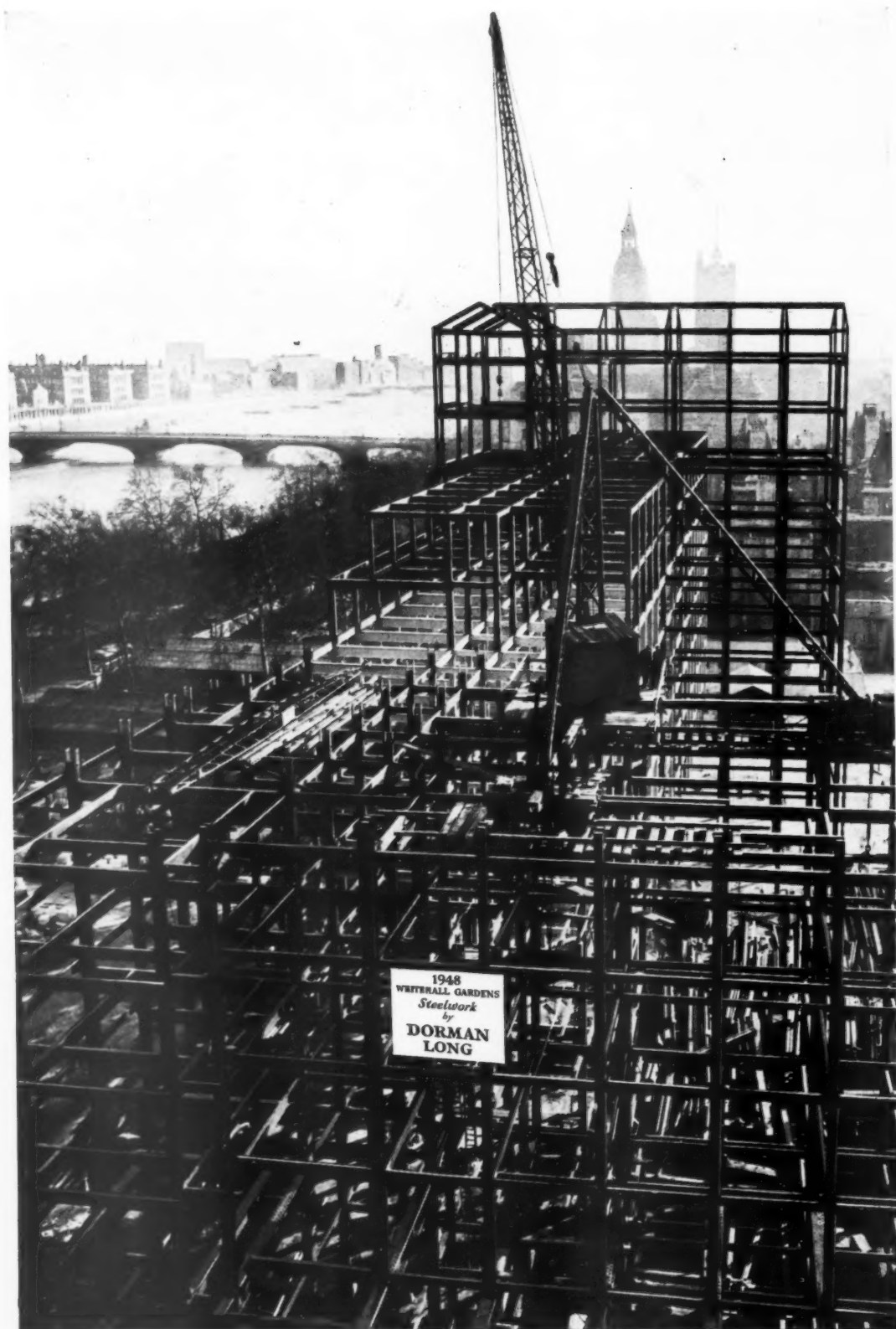
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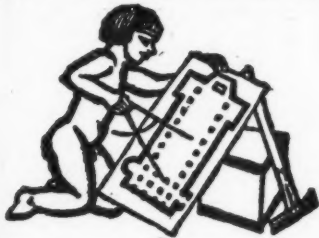
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In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their 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 JULY AUGUST AND SEPTEMBER

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 given in the glossary of abbreviations on the front cover.

BIRMINGHAM. *Design Week.* (Sponsor, CID.) OCT. 11-16

BRIGHTON. *A Regency Exhibition.* In the Royal Pavilion, Brighton. (Sponsor, County Borough of Brighton.) UNTIL AUG. 14

CAMBRIDGE. *Town and Country Planning Summer School.* (Sponsor, TPI.) AUG. 23-28

LONDON. *Darkness into Daylight Exhibition.* At the Science Museum, South Kensington. (Sponsor, Science Museum.) UNTIL SEPTEMBER 30

Display of Domestic Solid Fuel Burning Appliances. At the Building Centre, 9, Conduit Street, W.1. (Sponsor, CUJC.) This display is changed at approximately 4-monthly intervals.

PERMANENT EXHIBITION

Gas in the Design for Living. Exhibition of gas cookers, space and water heaters, laundry equipment and portable cooking and heating appliances. At the Building Centre, 9, Conduit Street, W.1. (Sponsor, BGC.)

PERMANENT EXHIBITION

Rome Scholarship in Architecture Exhibition. Designs submitted in competition for the award of the Scholarship in 1948. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) UNTIL JULY 30

Photography in Design Exhibition. At the Royal Photographic Society's House, 16, Princes Gate, S.W.7. (Sponsors, Royal Photographic Society and DIA.) 9.30 a.m. to 5 p.m. UNTIL JULY 30

Exhibition of Photographs and Models of Windmills. At the Victoria and Albert Museum, South Kensington. (Sponsor, Victoria and Albert Museum.) UNTIL AUG. 1

Sport in Art Exhibition. At the Victoria and Albert Museum. (Sponsor, Olympic Games Exhibition Committee.) UNTIL AUG. 14

International Exhibition and Conference on Landscape Architecture. At County Hall, S.E.1. (Sponsor, ILA.) AUG. 9-12

Machine Tool and Engineering Exhibition. At Olympia. (Sponsor, Machine Tool Trades Association.) AUG. 26-SEPT. 11

TCPA Dutch Tour. (Sponsor, TCPA.) FROM SEPTEMBER 11

Biology and Civil Engineering Conference. September 21. Morning: *Causes, Effect and Prevention of Soil Erosion.* Afternoon: *The Effect of Vegetation on Drainage and Floods.* September 22. Morning: *The Effect of Vegetation in Stabilizing Artificial Slopes.* Afternoon: *The Use of Vegetation to Stabilize Sand Dunes.* September 23. Morning: *The Effect of Vegetation on the Settlement of Roads and The Effect of Vegetation on The Settlement of Structures.* Afternoon: *Algal Growth and Engineering Design.* At the ICE, Great George Street, Westminster, S.W.1. (Sponsor, ICE.) SEPT. 21-23

MAIDSTONE. *Schools in Kent Exhibition.* Drawings and models of schools in Kent being erected under the Education Programme. At County Hall, Maidstone. (Sponsor, Kent County Council.) UNTIL JULY 30

Discussion. Architects, Builders and Operatives. At the Maidstone Technical Institute, Tonbridge Road, Maidstone. (Sponsor, S.E. Society of Architects, Maidstone Group.) 7 p.m. OCT. 19

W. Scrivens. The Town Planning Act. At the Maidstone Technical Institute, Tonbridge Road, Maidstone. (Sponsor, S.E. Society of Architects, Maidstone Group.) 7 p.m. NOV. 30

PRESTON. *Design Fair.* At the Harris Museum and Art Gallery, Preston. (Sponsor, CID.) UNTIL AUG. 14

COMPETITIONS

RIBA Prizes for Public and Secondary Schools: A total of 10 guineas in prizes is offered for: 1, The best original illustrated essay dealing with a building or group of buildings with which the competitor is personally acquainted; 2, the best sketches or scale drawings of a building or part of a building in pencil, ink or colour, maximum size 30 in. by 22 in. Assessors: H. T. Cadbury Brown, Hugh Casson, E. R. Jarrett. Further information from the Secretary, RIBA, 66, Portland Place, London, W.1. Entries by October 7.

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.

NEWS

THURSDAY, July 29, 1948
No. 2790 VOL. 108

News	105
Design at the Olympic Games ..	106
This Week's Leading Article ..	107
Astragal's Notes and Topics ..	108
Letters from Readers	109
New Works for the Olympic Games	110
In Parliament	110
Factory Unit at Birmingham. By Clifford, Tee and Gale ..	111
Canteen and Offices at Marylebone, London	116

Information Sheets :

1.B11 Geometrical Construction: Dihedral Angle and Plane Figures	To face page 118
33.C3 Lead Plumbing: Soil and Waste Pipes for Small Houses .. .	

Societies and Institutions ..	119
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Technical Section :

Information Centre	120
The Industry	123

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.

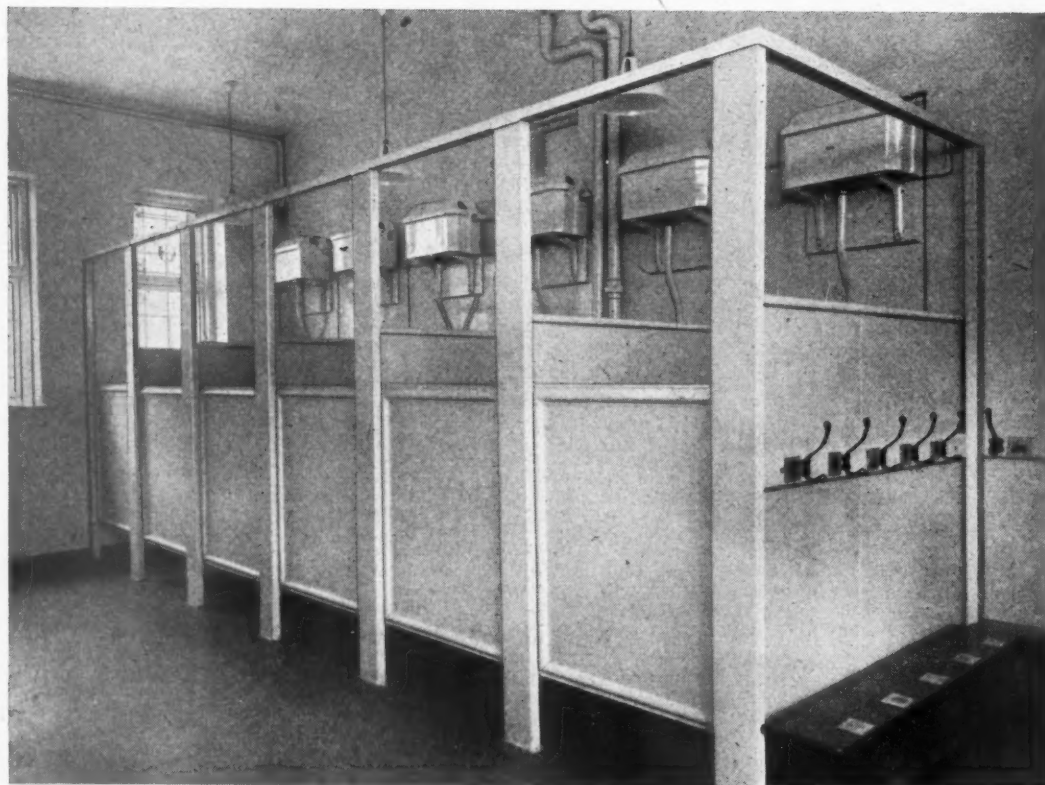
★★ means important news, for reasons which may or may not be obvious.

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

★ A CHAIR OF ARCHITECTURE has been established at Edinburgh.

This was announced at the annual presentation of diplomas and certificates gained in the Edinburgh College of Art during the 1947-8 session. In making the announcement, Dr. William Maxwell, F.R.S.E., vice-chairman of the college, stated that an ordinance had come from London appointing a Professorship in the university, and the Professor of Architecture in the college would also be the Professor in the university. An honours degree course in architecture has been simultaneously established.

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From AN ARCHITECT'S Commonplace Book

FRANCE: ROCOCO AND NATURE. [From *Mechanization Takes Command*, by S. Giedion (Oxford University Press, New York).] A quarter millennium elapses between the wane of the late Gothic and the full development of the Rococo in the fourth decade of the eighteenth century. Yet our leap is not an arbitrary one. The next truly inventive impulses in the sphere of comfort came only in the late Baroque, of which the Rococo is a phase. Late periods sometimes have a privileged rôle. While standing distinct from earlier time, they possess a heritage of slowly gathered experience. They play with confident mastery upon the expression of their age. The idiom has become second nature, and tasks at which their forerunners had stopped they can now perform with ease. The late Gothic of the fifteenth century and the late Baroque of the eighteenth are such periods. In the late Gothic, the atmosphere and values of monasticism were drawing to their end; in the late Baroque, worldliness of the Renaissance yielded its full consequences. These periods were enabled both to summarize the experience of many generations and to initiate a new development.

★

The CONTROL OF PUBLIC ADVERTISEMENTS will come into force on August 1.

The regulations governing advertisements are part of the Town and Country Planning Act, 1947. After August 1 no new advertisement may be displayed in public without the consent of the local planning authorities. The control imposes no censorship on the subject-matter of advertisements, but only on their position and size.

All advertisements, whether in existence before the regulations were made or whether displayed afterwards, will be subject to a code of standard conditions which provides that they must be maintained in a clean, tidy and safe manner. Subject to these conditions, all existing advertisements will be allowed to continue during a period of grace. For those which were being displayed on January 7, 1947—the date of the introduction of the Town and Country Planning Bill into Parliament—this will extend for three years; for those exhibited for the first time after that date it will be one year. At the end of these periods these advertisements may continue to be displayed, but they may become the subject of challenge by the planning authorities.

The main exceptions to the regulations are advertisements displayed on enclosed land and not readily visible from outside, those within buildings, on delivery vans and similar vehicles, and those on railway land which can be seen only from railway stations.

★

Sir Harry Selley, President of the Federation of Master Builders has questioned Mr. Aneurin Bevan's HOUSING FIGURES.

Sir Harry was referring to Mr. Bevan's statements in the recent housing debate in the Commons (reported in last week's JOURNAL). Sir Harry maintained that Mr. Bevan was "ballyhoo about percentages."

Mr. Bevan said that prices had risen since 1945 by only 13 per cent. compared with an increase of 30 per cent. over the range of the wholesale index. "The output of the building industry in the last two years before the war was 325,000 houses a year," Sir Harry said. "It also carried on the ordinary work of industrial, public works, commercial, luxury and cinema building. The cost of the standard target three-bedroomed house in 1939 was £500. Today's target of 180,000 houses a year for England and Wales is just about half the 1939 output, to say nothing of the slowing down of the other building work. The figure of 13 per cent. increase in the cost mentioned by Mr. Bevan does not convey anything. The acid test of costs is the cost of the three-bedroomed house. Mr. Walter

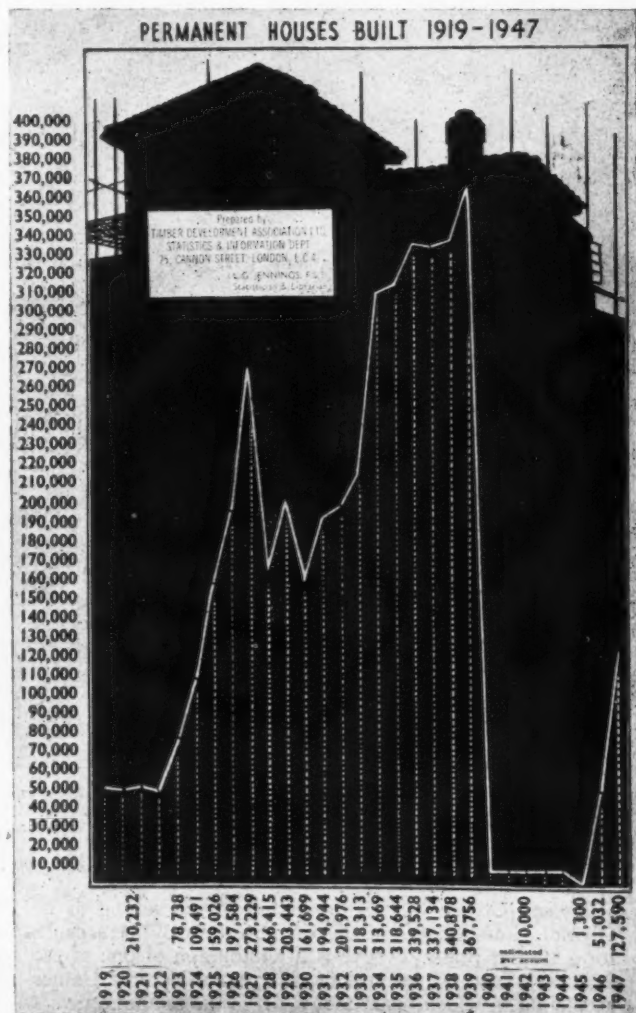
Elliot (former Minister of Health) quotes this figure to range from £1,400 to £1,600 without the site. That is three times the cost of the same house in 1939."

The Architects' Registration Council has secured a conviction for UNREGISTERED PRACTICE.

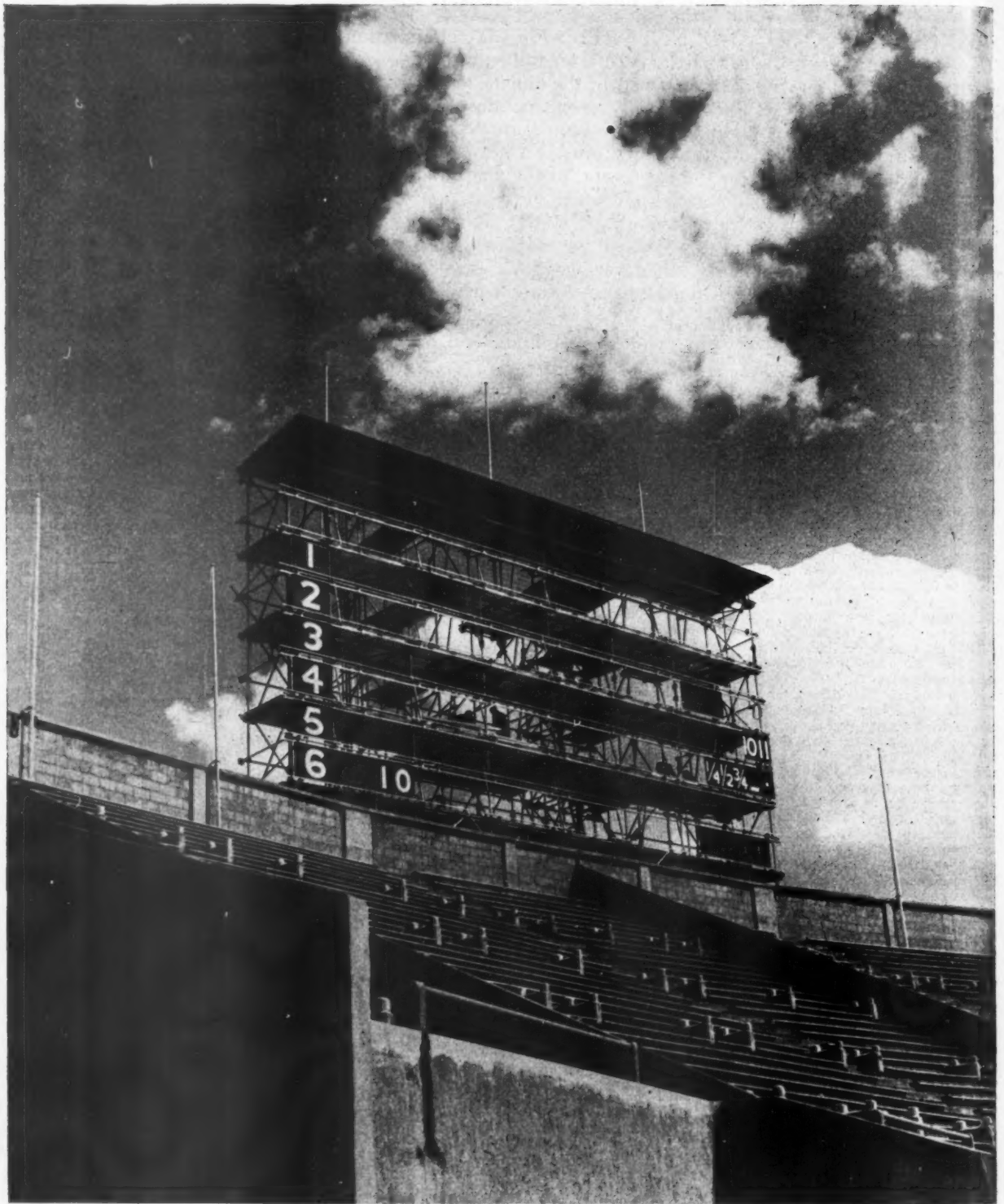
William Henderson—partner in the firm of P. H. Edwards (Kenton) & Co., of Railway Approach, 153, Kenton Road, Kenton, Middlesex, was convicted at Wealdstone

Police Court on July 20, on an information laid by the Architects' Registration Council and fined £25 with £3 3s. costs for practising and carrying on business under the title of Architect, not being registered as an architect under the Architects' Registration Acts. The defendant pleaded guilty. The solicitor for the prosecution stated that the word architect appeared as part of the style of the firm, both on their letter paper and on the window of the premises and that the defendant at an interview with a prospective client on March 25, had held himself out as an architect and had undertaken to do architectural work.

The graph, right, prepared by the Timber Development Association, shows the figures for permanent houses built between 1919 and 1947. The rate of building indicates that there was a 150 per cent. increase in the number of houses built in 1947, [127,590] as compared with 1946. The TDA states that the permanent houses built in England and Wales last year will have consumed 204,000 standards of softwood timber based on the Government regulation of 1.6 standards per house. This compares with a pre-war consumption of about 825,000 standards [1934-38] when an average of 330,000 houses were constructed annually, using about 2.5 standards per house.



* Figures relate to period October 1, 1938 to March 31, 1940.



Design at the Olympic Games

Classical Greece was rightly proud of the setting of its Olympic Games. We in this country scarcely have cause for a similar pride. Above is a photograph of one of the main architectural features of this year's Olympic Games at Wembley, which begin today. It is the announcements board, upon which notices of events and their winners will

be posted—a temporary structure of tubular scaffolding and unpainted wood whose untidiness reveals a lack of care and imagination which is most unhappy for this great occasion. The photograph was taken only a week before the opening of the Games. Other pictures are on pages 109 and 110.

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A BUILDING TEACHERS CONFERENCE is to be established.

It is an attempt to provide for the Greater London Region an organization similar to the North West Educational Association for the Building Industry and the Yorkshire EABI, both of which have been in existence for the last twenty-five years. The proposals were first made at a preliminary meeting last May at the Northern Polytechnic. The Conference is intended to enable building teachers to meet regularly in the London area to discuss questions of common interest.

It is proposed that membership of the Conference shall be restricted to full-time and part-time teachers of building subjects in technical colleges, but, for each meeting arranged, invitations to attend shall be sent to organizations connected with the building industry and to others interested in building education. It is intended that the Conference shall not usurp the functions of any existing organization and shall not become a negotiating body. The Inaugural Conference will be held at the Northern Polytechnic on Saturday, November 27. The second meeting of the Conference has been provisionally arranged to be held at Willesden Technical College on Saturday, March 19, 1949. The Convener is Mr. D. A. G. Reid, LCC Brixton School of Building, Ferndale Road, S.W.4.

★

Dr. Ronald Bradbury F.R.I.B.A., has been recommended for appointment as LIVERPOOL CITY ARCHITECT AND HOUSING DIRECTOR.

The appointment will be in succession to Sir Lancelot Keay, P.-P.R.I.B.A. Dr. Bradbury, who is 40, has been director of housing to Glasgow Corporation since 1944. He took first-class honours in architecture at Manchester University. He spent three years at Columbia University, New York, and graduated in architecture and town planning as M.Sc. and Ph.D. He has been senior lecturer in architecture and building construction at Durham University. In 1931 he was a Rome finalist in architecture, and received a Commonwealth Fund Fellowship. In 1948 the R.I.B.A. elected him Athens Bursar. In 1943 he was in charge of the technical planning for the Government Scheme to train 200,000 men as craftsmen for the building industry.

★

Mr. Harry Adams, President of the Amalgamated Union of Building Trade Workers, has criticised the GOVERNMENT'S BUILDING PROGRAMME.

Mr. Adams was addressing the union at Eastbourne. He said that it was tragic that the building programme planned was smaller than could be carried out. "Without impairing its capacity in regard to industrial, commercial, and other essential building, the industry could produce 500,000 houses annually," he stated. The Government had appointed a Working Party to inquire into the organisation and efficiency of the industry. Much depended on the standpoint from which it was conducted. "Only under public ownership," he added, "will the resources be made available to modernise the plant and technique of the industry, so that full advantage can be taken of the means and methods to attain maximum production."

THE WORKING PARTY

THE task of investigating or controlling an industry is always invidious. From the moment in October, 1940, when the Ministry of Works was set up, the self-styled voices of the industry have exhausted their lung power in protests against control and interference. Few representative builders, whether employers or operatives, have spoken in favour of the application of science or research, nor have they welcomed plans to change their accustomed modes of incentive payments, methods of construction or industrial organization. The new Working Party on Building Operations will have to tread a path littered with the traces of previous attempts to improve building productivity. If they have not failed completely, most of these have come to an end with relatively little accomplished. Measures to introduce prefabrication are still of course being implemented, but the original drive in the direction of reducing house building costs has been deflected into different channels. The Working Party will have to select carefully from all these previous investigations in order to present a coherent report of what the next steps should be. A great deal of the organization set up under the Chief Scientific Adviser of the Ministry of Works has for instance been changed in form, or abolished, over the last six months, leaving behind it a mass of semi-digested information. All these results will have to be sifted.

The Working Party can hardly dissociate itself from some review of housing, although its terms of reference will be largely technical. The best organization for the building industry depends partly on the Government's housing policy. Construction is the result of a joint enterprise between public and private authorities, and policy questions will intrude upon any investigation of costs. It will also have on its agenda the problem of the vast number of small firms that have entered the industry since the end of the war. This, too, has its political aspect. No government will find it easy to prevent the small man starting up in business, yet there can be few observers inside or outside the industry who think that this method of recruitment yields an optimum result in terms of productivity.

The Working Party will have to consider not only new methods of technique but of personnel organization. The results of the incentive schemes will have to be studied and methods of improving amenities for the workmen considered. There is no doubt that conditions on sites are still unfavourable in many respects, and this fact is too often overlooked in the diatribes that appear against the willingness to work of the ordinary operative. It is to be hoped that the Working Party in tackling these problems will aim at complete information from builders and from Government Departments. Unless from the outset they insist on a full disclosure of costs and methods, little can be expected from any of their endeavours. Especially important among the terms of reference of the Working Party is the clause relating to "the

position of the professions." This has to be studied in relation to the organization and efficiency of building operations.

The last few years have shown that sudden changes in plans for building are unwise; that plans made for a long period ahead are the only plans that have some degree of success. If the Working Party can secure the outlines of a building plan for the next five years—a plan that will be adjustable upwards or downwards, by slight acceleration or deceleration, but *not* subject to sudden cuts or additions—it will start with a firm foundation. From such a building plan it would be possible to work out a man-power plan, and proposals for reorganizing the industry. To secure greater efficiency, more firms in the industry need continuous employment, and incentives to reduce their costs. The Working Party will need not only to encourage "education" in the industry, but to review current methods of letting contracts. That immense improvements are practicable, few can really be in doubt. Unless the Working Party succeeds in its historical function of stimulation at this moment of time, the building industry is in danger of an uninspired relapse into the apathy that has handicapped some other major industries of this country.



The Architects' Journal

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1

Phone: Whitehall 0611

N O T E S & T O P I C S

A LONG WAY FROM OLYMPUS

A visit to Wembley Stadium last week, escorted by one of their laconic engineers, did little to allay my fear, repeatedly expressed in these columns, that the art of XIVth Olympic Games is confined to the V & A. Wembley Station, brightened by the usual cream

and green colour scheme, is not an encouraging start, neither is the drab concrete subway to the Olympic Way. This is the new axial road to the stadium and is flanked, behind a thin row of trees, by the dilapidated industrial buildings which once housed the Wembley Exhibition. Of the interior of the stadium, the rough boarded partitions of the changing rooms (six coat pegs each) sets the standard. A coat of paint, coconut matting on a creaking floor, and some stolid armchairs smarten up the Press rooms. "Some flags on existing masts," said the engineer, "with further flags provided by the Olympic Committee, some flower boxes for the Press Club, a coat of paint to camouflage those huts at the entrance, a general clear up and all will be ready."

I hope so. But, without making any odious comparisons with the pre-war ostentation of Berlin, is this the standard to show our foreign visitors? The cleanliness, comfort and good taste shown in all the elements that make up any public display in Sweden or Switzerland, to take two obvious examples, make unfavourable comparisons unavoidable. At any rate, those of us who see the Games will be comforted by the knowledge that we can hardly be called a nation of shop keepers:

there are no goods worth buying displayed in this shop window.

SHARP PRACTICE WINS REWARD

Congratulations to Thomas Sharp upon his Durham Doctorate of Letters, awarded—so goes the citation—"in consideration of work of high distinction, constituting a substantial and original contribution to knowledge and scholarship." This is the first degree to be awarded to a town planner by King's College, which, you may remember, recently initiated a degree course in town planning.

Since leaving Durham, where, for some time he held the Readership for town planning, Dr. Sharp has been one of the busiest planning consultants in the country—Durham, Exeter, Oxford, King's Lynn, Salisbury, Taunton and Chichester being among the problems he has been called upon to solve.

Unlike some planners, who regard towns either as tiresome impediments to traffic or as opportunities for putting over those patterns and theories they picked up from whatever school they went to, Sharp has always shown himself to be aware of the *visual* aspects of planning and—even rarer virtue among planners—to be capable of putting over his ideas clearly and imaginatively so that they can be widely understood. North-country doctors have lately been severely criticized, but here is one at least for whose skill in diagnosis and sensitivity in treatment many of us have cause to be very thankful.

INTRODUCING WALTER GROPIUS

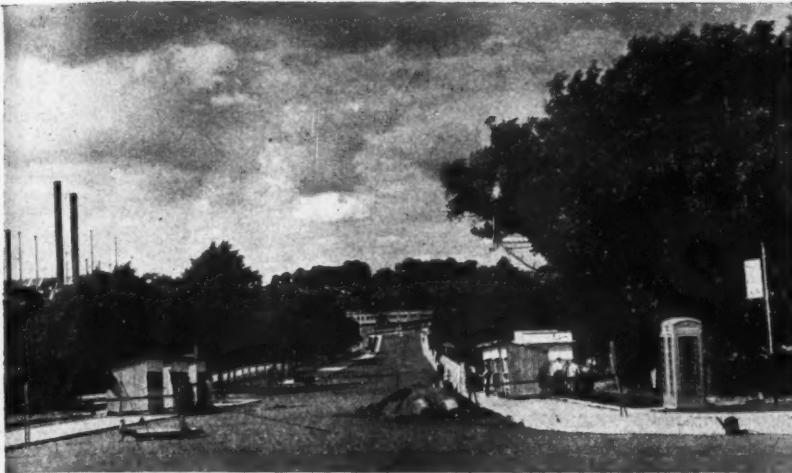
In Europe and the United States Gropius and the Bauhaus are two such well-known associated land marks in architectural education that it is easy to forget that in Germany there must be many young architects today who have never heard of either. It is nearly fifteen years since Walter Gropius left Germany, and he re-visited it for the first time last year—on behalf of the U.S. Military Government. His reports have not been published, I believe, but it seems clear that he found not only that his own name was largely unknown to the younger generation, but

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Olympic Way, Wembley, photographed from the stadium a few days before the opening of the Games. See Astragal's note

that his teaching and ideas had been so successfully strangled that no trace of them remained. He must, I think, be moved as well as pleased to see that the German architectural journal, *Bau Rundschau*, devotes a large portion of its latest issue to the study and appreciation of his life's work, both in architecture and teaching.

The prophet, we are always told, is not honoured in his own country, and many have shared with Gropius the experience of seeing their teaching ignored. There are those even here who think that the truths he once propounded are so self-evident that they hardly need re-statement. Let these people remember what Lethaby said of Ruskin—"If a prophet is successful and his teaching is absorbed, it may afterwards hardly be understood how anyone might ever have believed otherwise. The flashing inspiration becomes a commonplace. It is the prophet's aim thus to be absorbed."

SYON, THE NOBLE HOUSE

A colleague lucky enough to be included in the Members-Only visit to Syon House organised last week by the Georgian Group, reports that the interiors, so far as the main rooms are concerned, fulfil their reputation and are in admirable condition. Visitors were allowed to inspect the entrance hall—poorish this, I am told, despite Mr. Lees-Milne's recent panegyrics—to pass through the green-pillared ante-room and red-damasked dining room

to the famous Long Gallery (described as the finest of all Adam interiors) in the midst of which, like sentries in an alien land, could be seen the valiant attempts made by the owners to achieve contemporary comforts—family photographs, apple-green painted portable gas fires, a radiogram with "None but the Lonely Heart" upon the turntable.

Our spy reports, however, that for him the main architectural excitement of the afternoon was the domed glass-house in the garden, designed, it is said, by Charles Fowler, the early-Victorian market specialist in whose office Sir Gilbert Scott served part of his apprenticeship. Its tremendous structure with its glittering, oriental silhouette and brilliantly contrasted surfaces of masonry and glass is now filled with tomatoes, but it is still a worthy companion piece to Decimus Burton's Palmhouse in Kew Gardens, which can be seen sparkling across the river.

AA NONNY NO THIS TIME

Those of you who are interested may like to know that the prizewinners in the TUC competition (see AJ last week) are the products of: (1) The Bartlett School of Architecture; (2) The Regent Street Polytechnic; (3) The Articled Pupil System.

GRAND HOTEL

From Moscow comes news that the State Council for Architecture has approved designs for the tallest building in Europe—a 32-storey hotel contain-

ing one thousand rooms "each decorated" (like the famous Russian smile) "in white and gold." Two other skyscrapers are to be built at the same time to the designs of Moscow's chief architect Dmitri Chechulin, but all three buildings will be situated "at a considerable distance from each other." Let us hope that all the lifts won't simultaneously be stopped "for repair and maintenance."

ASTRAGAL

LETTERS

F. A. C. Maunder,
F.R.I.B.A., A.M.P.T.I.

Henry G. Goddard, F.R.I.B.A.

Round The Table

SIR.—The discussion recorded in your issue of July 13 under the title of "Round the Table" contains a series of attacks by a Mr. Eric Janes on the County Architect's Department of the Bucks County Council, which I can only characterize as being entirely unjustified and based upon plain misstatements of fact. I realize that the essence of an article of this kind is that it should be the vehicle of opposing views, expressed perhaps with some extravagance (though in this case put into their proper perspective by your editorial comment), but when one of the disputants supports his arguments by references to a particular body which are both damaging and untrue, I hope that I, as the officer principally concerned of the body in question, may be permitted to traverse the statements made.

The passages in Mr. Janes' remarks with which I am particularly concerned are:—

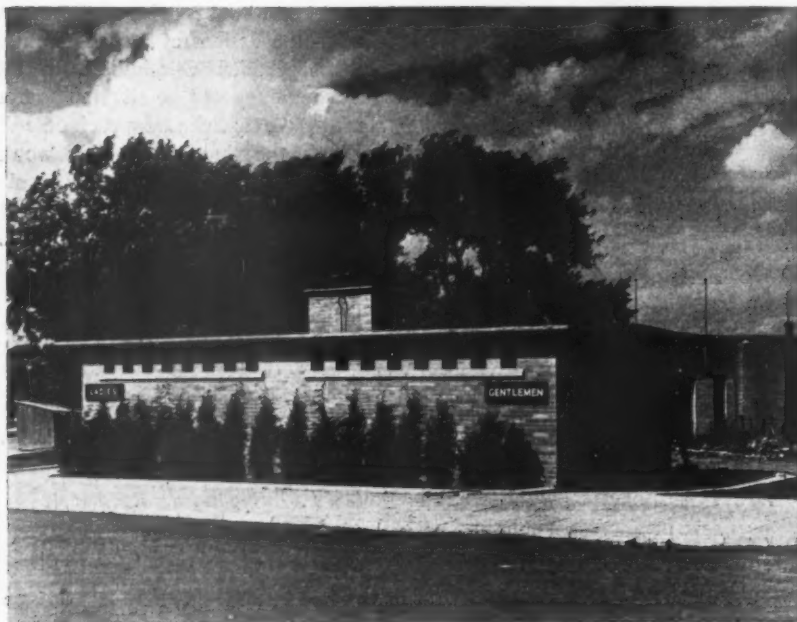
"... I am very worried indeed by the policy of the Bucks County Council. The private architect has lost schools and is losing everything. And I understand that the County Architect's staff has risen since 1939, when it was sixteen, to forty-seven, which is just about equal to the rest of the architectural profession in the County. ... The official architect's staff has been built up, to my mind, on completely uneconomical lines. ..."

"... In normal times could any council department substantiate a staff in 1948 which is three times as big as it was in 1938-39?"

I have no wish to enter into the general argument, and will, therefore, confine myself to a bare statement of the facts, which are as follows:—

1. The Bucks County Council have commissioned no private architect to build a school for at least thirty years.
2. The numbers of my staff given by Mr. Janes are wrong. My staff has nearly doubled since 1939 (not trebled, as Mr. Janes suggests), but additions include quantity surveyors who do work which was formerly put out, additional maintenance staff to look after a greatly increased number of buildings and war-time arrears, and additional clerks to deal with the paper work resulting from controls. The increase in the number of registered architects since 1939 is less than one-third. Against this the value of the work in hand has increased from nearly £100,000 in 1939 (approximately £250,000 at current prices) to over £500,000 at the present time.
3. An examination of the RIBA Kalendar

NEW WORKS FOR THE OLYMPIC GAMES DESIGNED BY SIR OWEN WILLIAMS



In spite of the need for the utmost economy certain alterations and requirements were essential before Wembley could be used as the principal arena for the 1948 Olympic Games beginning today. For the last two years Sir Owen Williams has been concerned with work in this connection, which includes the provision of dressing rooms, lavatories and press facilities. Above, one of the standard self-contained lavatory blocks in the Stadium grounds. Left, the Press canteen. Below, the baths and plunge bath in the North Dressing Room, part of a two-storey building which flanks each side of the Pageant Tunnel. The floor, bath surround and walls to dado level are of terrazzo, with a sand plaster finish above.

shows that the suggestion that my staff comprises half the architects in Bucks is ludicrous.

4. The overall cost to the Council of the architectural work carried out in my department is approximately half of what it would cost them in architect's fees if the work were put out.

This is a long letter, but in view of the serious nature of Mr. Janes' attacks on the Bucks County Council and myself, I hope that you will do us the justice of publishing it in full.

F. A. C. MAUNDER,
County Architect of Bucks.

Aylesbury.

Chromium Plate

SIR.—I write as author of the article referred to by Mr. J. H. Gifford in his letter published in your issue of July 8, 1948.

Although I did not myself write the note for the illustration of the Swedish trap, I hasten to defend it: for, surely, "luxuriously chromium plated" does not imply "thickly chromium plated," but rather "chromium plated to give an appearance of luxury." I am sure that this was the writer's intention.

I agree that the degree of luxury of many items may be measured by their thickness: I instance carpets and blotting paper. But, I find it less easy to apply the measure of "luxury" to a thin deposit of metal: that of "durability" seems more correct.

Finally, to complete the picture, Mr. Gifford might have told us that had the article in question been of ferrous metal, a luxurious deposit of copper would have been necessary before that of nickel.

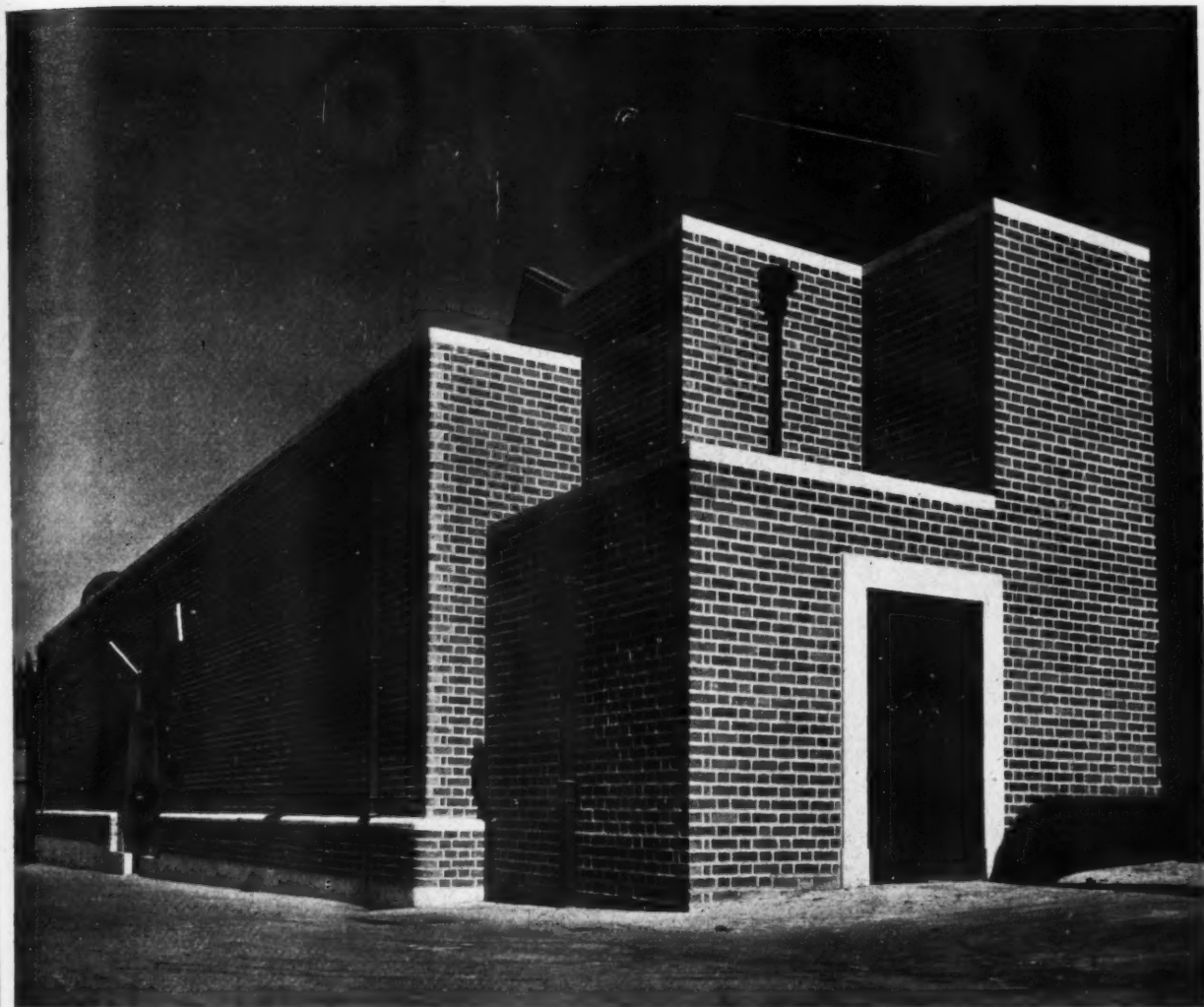
London.

HENRY G. GODDARD

In Parliament

At question-time in the House of Commons last week, Mr. E. H. Keeling (Con.—Twickenham) asked the Minister of Town and Country Planning whether he intended to use the powers given to him under the Town and Country Planning Act, 1947, to require local planning authorities to take architectural advice before approving the elevations and materials of houses to be erected by private persons. The Parliamentary Secretary to the Ministry of Town and Country Planning, Mr. E. M. King, who replied, said that the Minister had no reason to suppose that the new planning authorities would not avail themselves of proper architectural advice wherever necessary, and, unless experience showed this view to be wrong, he would prefer to leave this matter to their discretion and good sense. Mr. Keeling pointed out that although the clause dealing with the question could not be debated in the Committee stage of the Bill, because of the guillotine procedure, definite assurances were given both by the Minister and by his Parliamentary Secretary, who had said that all kinds of monstrosities would be perpetrated unless there was compulsory architectural advice. Mr. King: "Very many, if not all, local authorities do employ architectural advice, and I have no doubt they will deal with the monstrosities to which the member refers."

Mr. Keeling, still dissatisfied, demanded: "What about those who do not?" Mr. Skeffington-Lodge (Lab.—Bedford) urged the Minister to at least "give some fatherly advice in this matter," because, he said, the situation between the two wars was very serious from an architectural point of view when new buildings were erected in country districts. Mr. King: "The situation between the two wars was entirely different. We have now a new Act and also new authorities, and, in so many cases, the matters administered by His Majesty's present administration differ widely from what happened between the two wars."



The air filter house ; below, the south elevation of the test house.

FACTORY UNIT

AT BIRMINGHAM

BY CLIFFORD, TEE & GALE

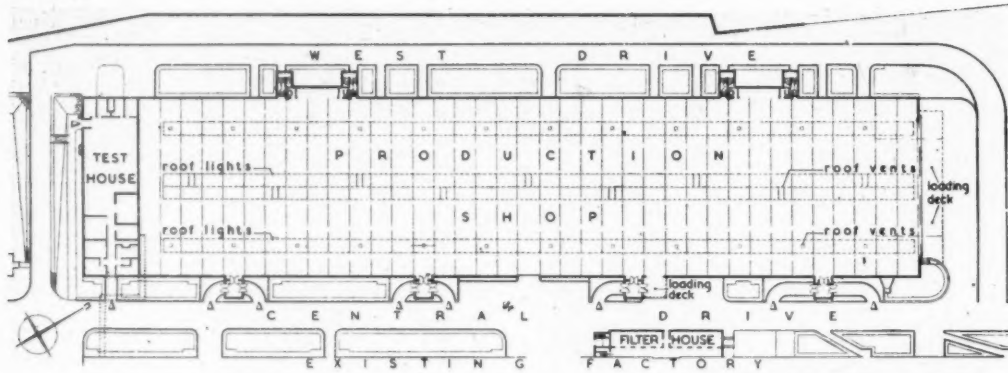


GENERAL.—These buildings were required by Joseph Lucas, Ltd., Birmingham, to house the production and testing of fuel pumps for jet engines.

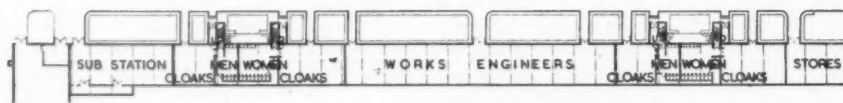
The set of conditions included :—
Test House. The dispersal of air saturated with paraffin vapour ; the entire elimination of dust ; the dissipation of heat generated in testing process.

Production Shop. Floor space to be kept clear of stanchions to give flexible layouts and maximum space utilization.

Air Filter House to house a special filter plant with complicated under-floor duct system.

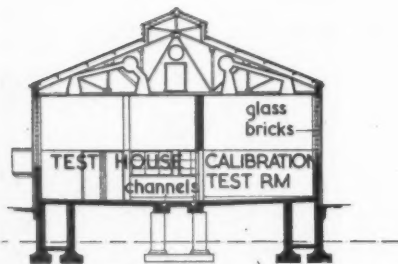


GROUND FLOOR PLAN



LOWER GROUND FLOOR PLAN

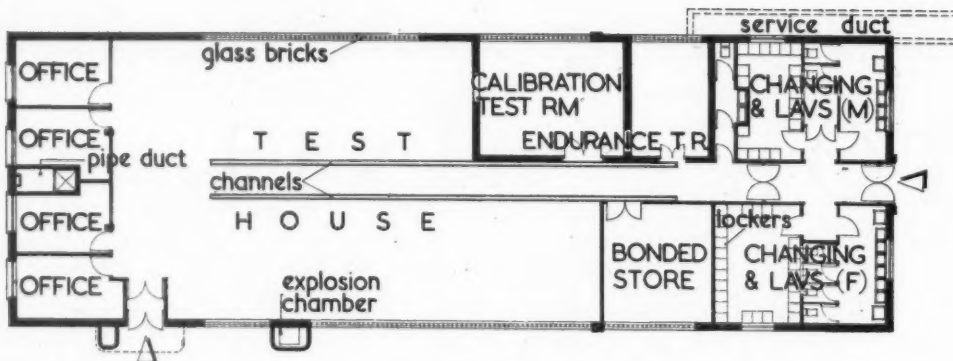
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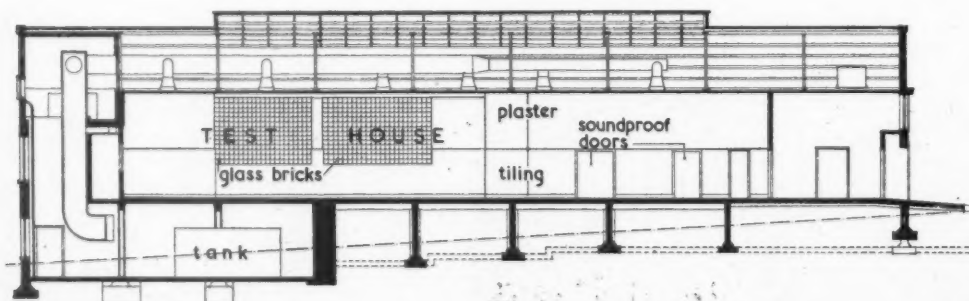
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SECTION



GROUND FLOOR PLAN OF TEST HOUSE



SECTION OF TEST HOUSE

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Right, the south entrance of the test house; below, the interior.



SITE.—The Test House and Production Shop, forming a block 595 ft. long by 127 ft. wide, is sited to the east of a service road which separates it from the original factory buildings.

The ground, on which considerable tipping had taken place, necessitating a suspended floor, falls 10 ft. towards the east, thus allowing the provision of accommodation under the main floor on the east side.

The air filter plant house is built on

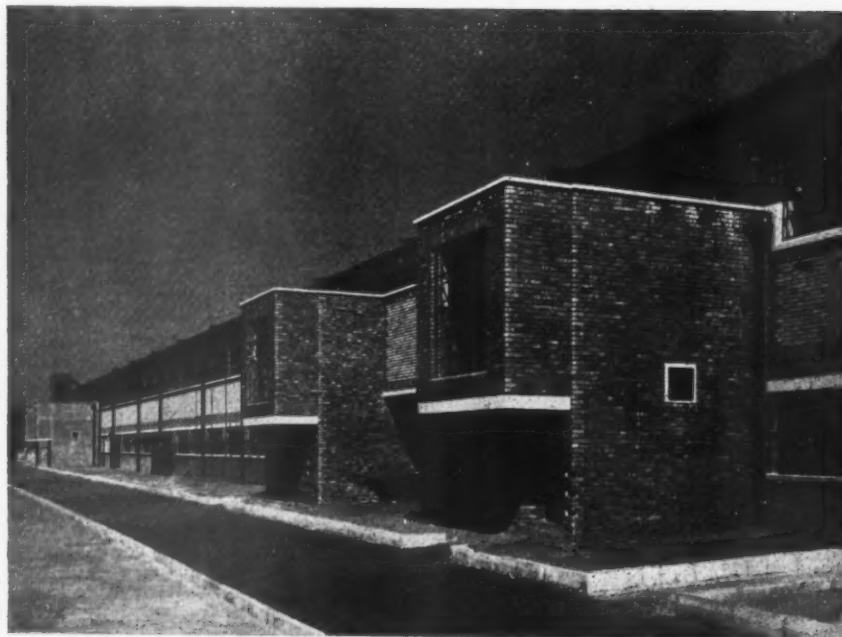
the side of the existing lamp shop, and is conveniently sited to give duct access to machines requiring air extraction.

PLAN.—The Test House is a laboratory with the following controlling factors :—

- (a) Paraffin is in continual use and the air is saturated with vapour.
- (b) Direct sunlight must not be admitted.
- (c) Frequent washing down is to be expected.



Above, the interior of the production shop, showing the 127 ft. roof truss. Below, the west elevation of the shop with projecting lavatory blocks and staircases.



(d) Condensation of paraffin vapour must be prevented as much as possible.

(e) Services to plant, and a sprinkler system, to be accommodated and concealed for the sake of cleanliness.

To suit the above conditions, the walls (cavity for insulation) and ceiling were finished in tiles and vitrolite, the windows are composed of large panels of glass bricks giving insulation, diffused light and suitability for washing down. The services, which consisted of six separate pipe systems, electric cables, ventilation trunking and plant, considerably influenced the design of the building. A plant room is provided in the basement, large easily-accessible ducts are under floors and in the roof space which is well lit and provided with access gangways.

Two sound-proof rooms were required for noisy tests and a small fireproof ignition test chamber projects out from the south elevation.

Production Shop. The clients desired that they should have the greatest width of production space,

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clear of stanchions, that was possible on the site, so that the 127 ft. width is spanned with one truss. All lavatories and other accommodation are placed under the floor where the fall in the ground permits a basement.

Air Filter House. This building houses a special layout of extractor and filter plant designed by the clients' works engineers department. The plant cleans air extracted by under-floor ducts from the polishing machines. By means of glazed apertures and mirrors in the entrance hall, it is possible to inspect the filter bags which are installed in air-tight compartments. Fan chambers are located behind filter compartments with a control panel also in the entrance hall.

CONSTRUCTION.—Test House and Production Shop. This is steel framed, with 11 in. brick cavity walls, and reinforced concrete floors. The Test House roof is asbestos tile, the Production Shop roof is of asphalt, laid on steel decking with insulation board and felt,

The floors are all suspended, due to the made-up ground, and the Production Shop floor is designed to take a point load from a mobile crane of 12 tons. The 127 ft. roof trusses will each take a load of 5 tons, 1 ton per panel point. The Filter House has solid brick walls and reinforced concrete floor and roof.

INTERNAL FINISHES.—The Test House. This has areas of glass bricks with tiled walls, a patent sheet glass ceiling and granolithic floor. Production Shop and Air Filter House. Brickwork is painted, floors granolithic. Plastered walls for air-tight compartments.

SERVICES.—Test House. Well water and main water, compressed air, sprinkler main, heating main and electric supply are fed into the building under the road by a duct, and distributed by ducts under the floor and through the ceiling space.

Paraffin is also laid on as a service, a tank situated in the roof supplies

the mains by gravity. Used, dirty paraffin is collected into a tank in the basement and from there pumped through a filter and back up to the tank in the roof space for re-use. A paraffin vapour extractor is installed in the basement. A sprinkler system has been installed.

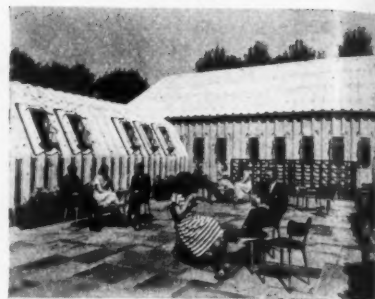
HEATING AND VENTILATION.

An intake fan and heating battery situated in the basement draws air over filters, heats and forces it through ducts into the roof space where it is again heated and blown into rooms through ceiling grilles. Extract fans are situated in the roof space also. The heating batteries to fans and radiators in offices are fed by the high pressure hot water system from the main factory. The main test area has an input of 25 air changes per house, and extraction 20 air changes. The smaller test rooms have 50 air changes input with plenum relief. Gas, water and air are supplied by ring mains above tie beam level of the truss, with tees every 15 ft. for connections to plant.

The east elevation of the production shop.



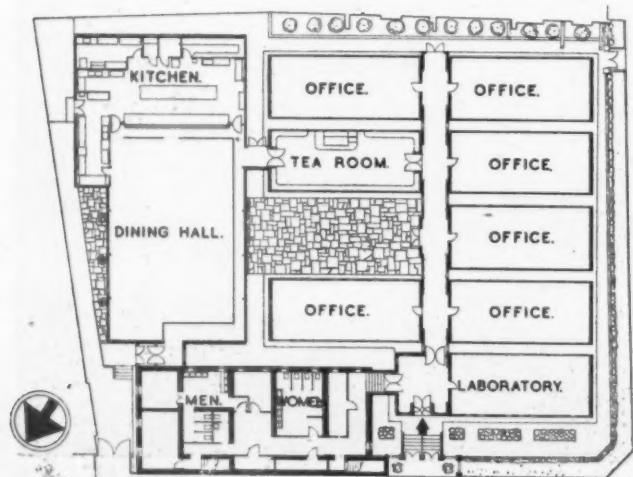
BY CLIFFORD : TEE & GALE



Left, the canteen. The wall below dado level is covered with dark blue coir matting, above dado level walls are lime green. Above, the terrace.

CANTEEN AND OFFICES AT MARYLEBONE

BY LEWIS & HICKEY



PLAN (Scale: $\frac{1}{8}'' = 1'0''$)

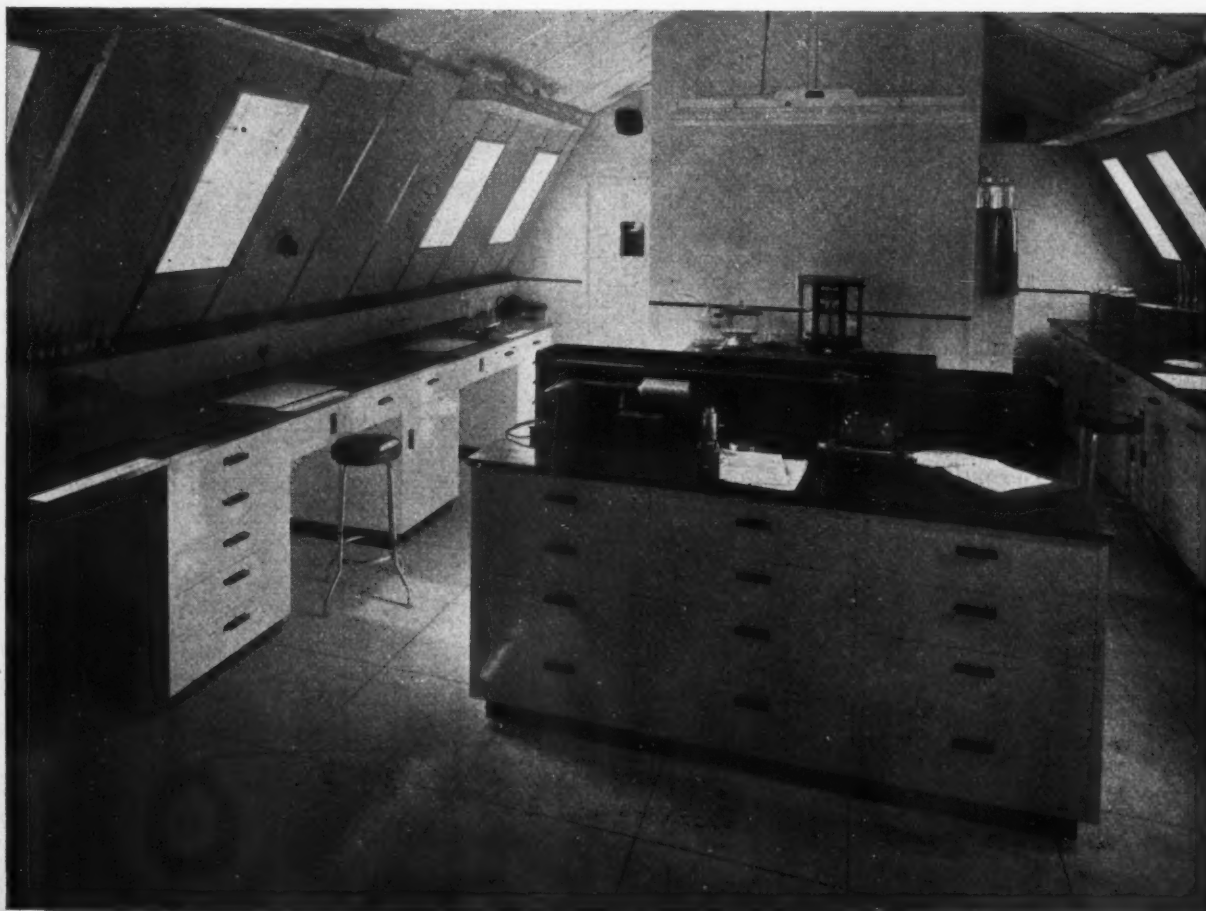
GENERAL.—These buildings have been erected since the end of the war, to replace requisitioned Head Office accommodation of Messrs. Marks & Spencer Ltd. They have been designed with the minimum use of materials in short supply.

SITE.—The empty site required a large amount of filling and levelling. The site concrete throughout the job takes the form of an R.C. raft with expansion joints approximating to the outline of each building unit.

PLAN.—The client's requirements were the provision of maximum office space and of space for meals and relaxation for the Head Office staff. The existing air raid shelter has been adapted for use as a lavatory block and contains



Above, the canteen and service hatch. The glazed enamel surround to the service hatch, doors and ceiling are white and pale blue. End walls are coloured a brick red. Below, the research department.





Above and below, the tea lounge.

the electrical intake room and switch room. One of the hut units has been utilised as a Research and Testing Laboratory for the use of the clients' textile department and its main function is to check the standards of textiles. The hut is divided into two sections, in the first of which all analytical work, wet processes and

laundering tests are carried out, and in the second, which is completely air conditioned and separated from the first by an air lock, are carried out tests which require the maintenance of specified conditions of temperature and humidity.

CONSTRUCTION.—The units are designed in huts built of

reinforced asbestos-cement cranked sheets with incorporated windows and lined with flat asbestos cement sheets. The end walls are built of 9-in. concrete blocks and rendered externally. The canteen building comprising the dining hall (to seat two hundred), kitchen, wash-up and stores, is clad in asbestos-cement sheets on a light steel frame and is equipped with mechanical ventilation. The interior is lined with fibre board sheeting down to dado level. The dado, which is 4 ft. 0 in. high, is constructed in 3-in. cellular blocks. The research hut is completely lined with fibreboard sheeting to provide thermal insulation.

INTERNAL FINISHES.—The floors to the offices and dining hall are finished throughout in cork tile, the analytical laboratory in terrazzo, and the air-conditioned laboratory in Empire teak block. The interior decoration was by James Gardner.

SERVICES.—Lighting throughout is by fluorescent tube, heating is by electrical tubular heaters and radiators in the offices and corridors, and by electric unit heaters in the dining hall and laboratories. The system throughout is thermostatically controlled. The general contractors were Messrs. Bovis Ltd. For list of sub-contractors see page 124.

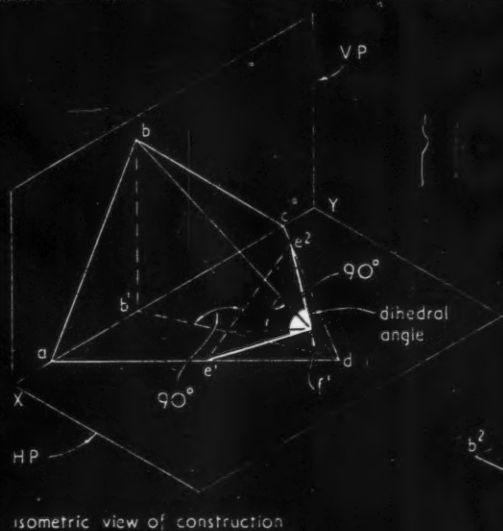


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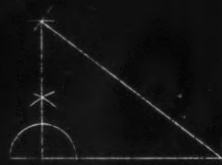
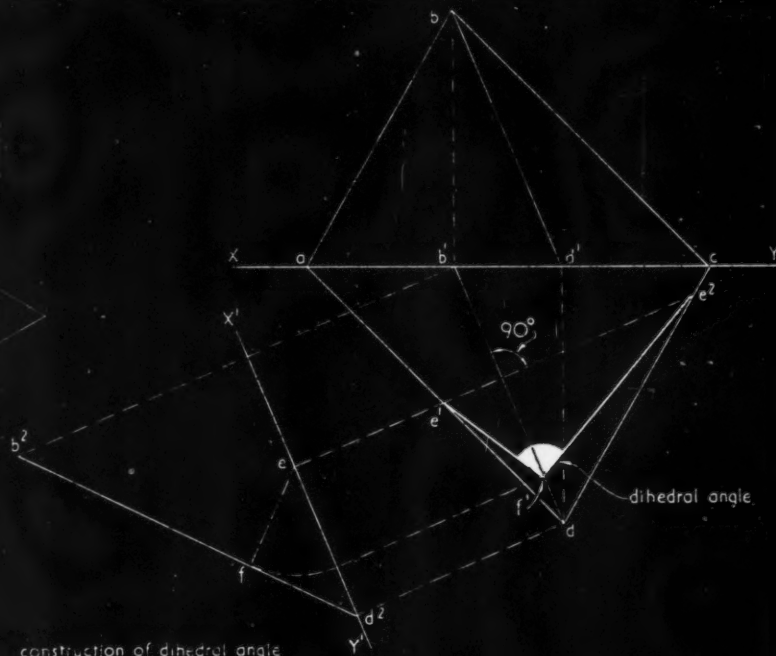
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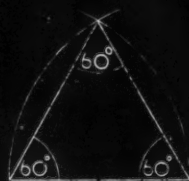
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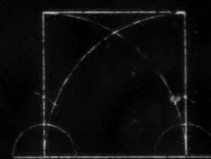
DIHEDRAL ANGLE.



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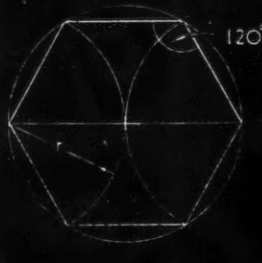


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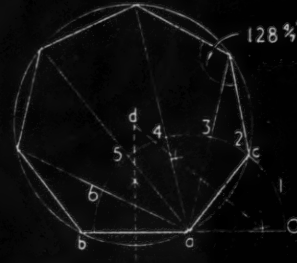
TRIANGLES AND SQUARE.



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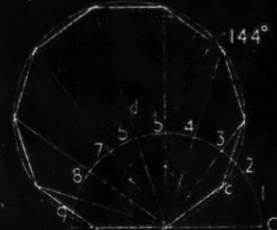
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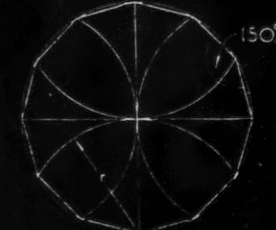
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decagon



dodecagon

POLYGONS.

CONSTRUCTION OF DIHEDRAL ANGLE AND PLANE FIGURES.

Compiled by Leslie A. Lee, LIOB and H.N. Hoskings, A.R.I.B.A. for Eagle Pencil Company—Chem-Suited Turquoise pencils.

1.B11 GEOMETRICAL CONSTRUCTION: DIHEDRAL ANGLE AND PLANE FIGURES

This Sheet gives the geometrical construction of the dihedral angle, right-angled and equilateral triangles, square and various polygons.

Dihedral Angle

Definition: The angle between two intersecting planes, its inclination being perpendicular to the line connecting the planes. A typical example of its use in practice is in connection with roof construction where the backing of a hip rafter is needed for the purpose of forming a flat surface for fixing the roof boards. It is also used for determining the bevels of handrail wreaths.

The top right-hand diagram shows the method of construction.

The top left-hand diagram is an isometric view of the construction and is primarily intended as a graphic definition of the dihedral angle.

Construction: Draw a new elevation $d'b'$ of the line joining the planes. Draw a line ef at right angles to $d'b'$. Project a line from e at right angles to $X'Y'$ cutting ad and de at e' and e'' . With centre e and radius ef describe an arc to cut $X'Y'$. From this point draw a line at right angles to $X'Y'$ to cut db' in f' . The angle $e'f'e''$ is the dihedral angle.

For full particulars of the three-dimensional geometry involved see subsequent Sheet.

Triangles and Square

Right-angled triangle: On any straight line as base erect a perpendicular as shown. Measure off the length of any two sides and complete the figure.

Equilateral triangle: On any straight line mark off length of one side. With radius equal to this length and centres at alternate ends of original line describe arcs to cut each other at the apex. Complete the figure.

Square: Construction is as shown. Perpendiculars are erected in the same manner as for the right-angled triangle.

Polygons

There are many methods of constructing polygons; those shown may be considered to be the simplest.

Pentagon: Draw a semicircle (centre a in diagram) of any radius and divide it into five equal parts. From a draw radials through points 1, 2, 3 and 4. Measure the length of side required ab and ac . Bisect each in d and describe the circle ad . Join the points where the radials cut this circle to complete the figure.

Heptagon and decagon: The constructions shown are similar to that for the pentagon.

Hexagon: Describe a circle of radius equal to the length of one side and draw a diameter. With centres at alternate ends of diameter and with the same radius as before describe arcs to cut the circle. Draw chords through these points to complete the figure.

Duodecagon: The construction shown is similar to that for the hexagon.

Octagon: Construct a square and draw its diagonals. With radius equal to half a diagonal describe arcs from the four corners of the square. Join the points where these arcs cut the square to complete the figure.

This Series of Sheets covers geometrical drawing, orthographic, isometric and axonometric projections, perspective, rendering, lettering and draughtsmanship generally.

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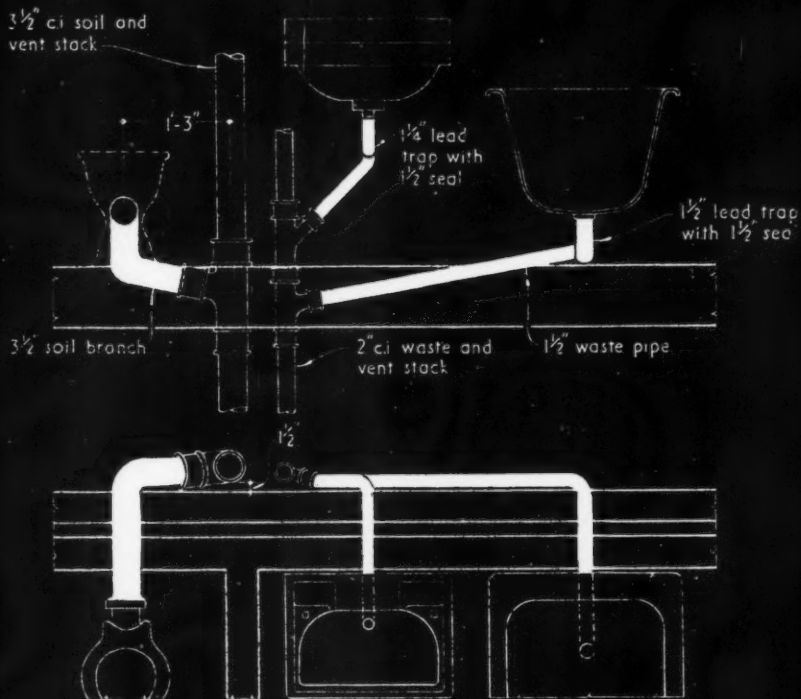
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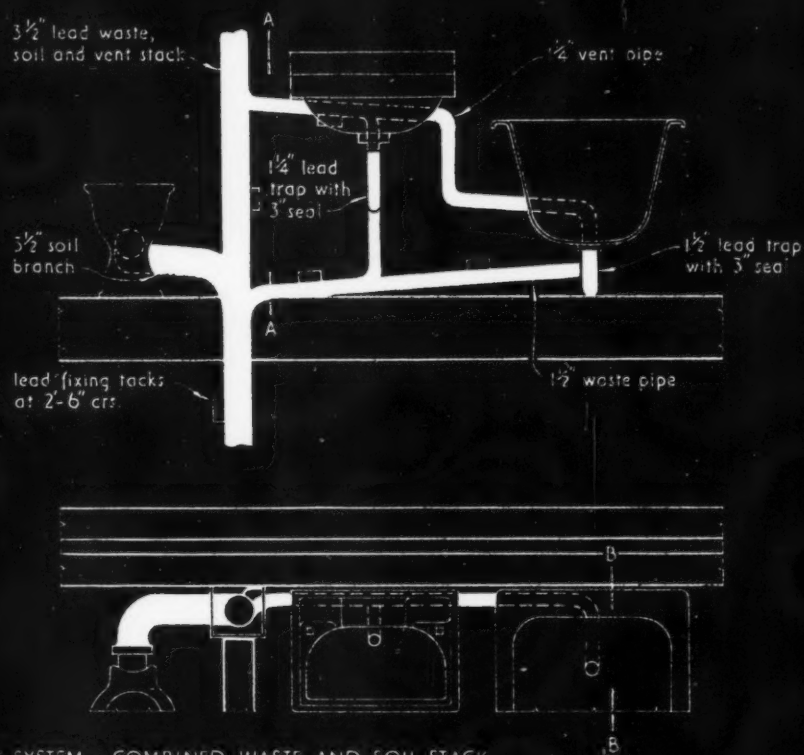
SANITATION | DETAILS | LEAD

33.C3

The Architects' Journal Library of Information Sheets 88. Editor: Cotterell Butler, A.R.I.B.A.



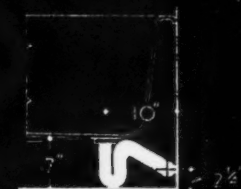
TWO-PIPE SYSTEM - SEPARATE WASTE AND SOIL STACKS.



ONE-PIPE SYSTEM - COMBINED WASTE AND SOIL STACK.



section A-A



section B-B

LEAD PLUMBING: SOIL AND WASTE PIPES FOR SMALL HOUSES.

Compiled from information supplied by The Lead Industries Development Council.

33.C3 LEAD PLUMBING: SOIL AND WASTE PIPES FOR SMALL HOUSES

This Sheet sets out the general principles of soil and waste disposal plumbing for small houses. The two examples illustrated show arrangements where a two-pipe system is employed, *i.e.*, separate waste and soil stacks, and a one-pipe system, *i.e.*, combined waste and soil stack. Both examples are based on a typical grouping of appliances; for all normal groupings the same general arrangement of pipework will be suitable.

Two-Pipe System—Separate Waste and Soil Stacks

The two-pipe system, with the stacks and branch pipes fixed externally, has been the most usual arrangement adopted for small house disposal plumbing.

Waste and soil stack: The waste stack to which the bath, basin and possibly sink are attached, is connected to a back inlet gully on the drain. The soil stack is connected direct to the drain. The stacks should be carried up to a point 2 ft. above the level of the top of any window within a distance of 15 ft. from their open ends.

Branches: These should be kept as short as possible. The lengths needed for the usual close grouping of appliances in small house work should not be excessive for unventilated waste branches.

Traps: Traps for bath, basin and sink branches have a 1½ in. seal where the waste stack is separate from the soil stack. The waste branch from the sink may be connected to the waste stack if the sink is conveniently sited, but may otherwise be connected direct to a back inlet gully on the drain.

Open hopper heads: The widely used practice of discharging the wastes from sink and bath into a hopper head is not considered good, as with this arrangement lengths of fouled pipe are exposed to the open air, almost inevitably near window openings.

One-Pipe System—Combined Waste and Soil Stack

The example shown arranges all pipework internally. The single stack takes up little room and can be fitted within the thickness of the bathroom/w.c. partition. Investigations are being carried out on one-pipe arrangements for small houses, in which all branches are unventilated. As yet no generally accepted recommendations on suitable design principles have been made, but such one-pipe arrangements may be accepted by some local authorities.

Traps: When the one-pipe system is used the best current practice is to ventilate the waste pipe branches and use 3 in. seal traps, instead of the usual 1½ in. seal.

Vents: Where the w.c. soil branch is short in length and connects to the stack above the waste pipe connection, it is generally considered that a vent pipe to it is unnecessary. The level of the vent pipe loop should be above the level of the lavatory basin outlet.

Sink waste: This is not connected to the stack but direct to a back inlet gully on the drain.

Soil and vent stack: This is connected direct to the drain and carried up as described above.

Pipe Sizes

The recommended sizes for small house soil and waste pipes are as follows:

Two-pipe system: Lavatory basin branch 1½ in. i.d. 7 lb. per yd.; bath 1½ in. i.d. 9 lb. per yd.; sink 1½ in. i.d. 9 lb. per yd.; w.c. 3½ in. i.d. 20 lb. per yd.

One pipe system: Primary waste branches as above; main waste branch 1½ in. i.d. 9 lb. per yd.; vent pipes 1½ in. i.d. 7 lb. per yd. The weights of lead pipe given are in each case those recommended in B.S. 602: 1939—Ordinary lead pipe.

Off Site Plumbing

Plumbing for small houses will frequently be repetition work; this can be most economically and expeditiously carried out by preparing elements of pipework in the workshop ready for straightforward site fixing. Difficulties involved in meeting the inevitable dimensional variations of both sanitary appliances and building work are readily overcome with lead pipe, because of its flexibility.

Further Information

The Lead Industries Development Council maintains a Technical Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

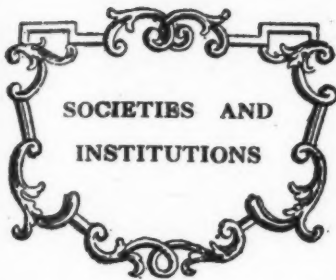
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Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their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

RIBA

C. Woodward and S. Redfern

June 22. At the RIBA, 66, Portland Place, W.1. QUESTIONS AND ANSWERS IN PRACTICE. A discussion of legal problems in practice by Charles Woodward and Sydney Redfern.

Mr. Woodward: The first question concerns the position when a contractor goes bankrupt, when the materials on the site have been paid for, and therefore pass into the possession of the building owner. It was a case of a local authority employing a builder under the RIBA contract. The materials had been certified by an architect and paid for by the council, and those materials consisted of some on the site and some in the builder's yard. The trustee in bankruptcy claimed possession of those materials under a provision of the Bankruptcy Act, and the local council then instituted legal proceedings in the County Court challenging that decision. The County Court Judge upheld the trustee, and he said that the materials on the site and in the builder's yard were the property of the trustee in bankruptcy. The council then appealed to the High Court, a Divisional Court in the Chancery Division, and the Chancery Judges confirmed the decision so far as it related to the materials in the builder's yard. That court said that the materials belonged to the trustee in bankruptcy, but as regards the materials on the site of the works, they said those belonged to the local council, and at the moment that is the position. If an architect has included in his certificate materials on the site of the works and if the builder unfortunately goes bankrupt, those materials still belong to the local council.

Having read the Judgment in that case, I thought it might be as well to mention the clause under which this decision was given. Shortly that clause is as follows: "Where in any certificate for which the contractor has

received payment the architect has in accordance with Clause 24 B of these conditions included the value of any unfixed materials and goods intended for and placed on or adjacent to the works, then such materials shall be the property of the employer." When I was reading that clause I was struck by the word "adjacent," and I decided to try to find some legal interpretation of that word. I was successful. This was the interpretation of the court—"Adjacent is not a word to which a precise and uniform meaning is usually attached. It is not confined to places adjoining and it includes places close to or near, its application being entirely a question of circumstances."

Mr. Redfern: I have nothing to add to that masterly definition of the word "adjacent," but I would certainly advise an architect never to include in his certificate the cost of materials which are not actually on the site.

Mr. Woodward: The second question concerns quite a different subject. An evergreen tree growing on the site of one owner, in the course of some seventy-five years, grows to such a size that the amount of light reaching windows of a building on an adjoining site is appreciably reduced, but the owner has never complained to the adjoining owner on whose site the tree is growing. The question is: first of all, does the obstruction of light by the tree extinguish the injured owner's right of light and, if so, is the extinction of light a continually increasing one due to the constantly increasing size of the tree? For instance, would the injured owner be entitled at any time to ask for the tree to be lopped back to its dimensions of 19 years and one day previous? Has the injured owner any remedy if the removal of the tree in whole or in part is prevented by statute—for example, the Town and Country Planning Act?

As a purely lay opinion and subject to correction, as no doubt I shall be by Mr. Redfern, I should have thought that the tree must be lopped back sufficiently far to allow sufficient light for the ordinary purposes of that particular building. I do not know what would happen if the owner of the tree refused to allow any lopping.

Mr. Redfern: An injunction might be obtained or damages. Courts lean to damages rather than injunctions, but I think probably they would grant an injunction if damages would not really compensate the dominant owner. The question as to the Town and Country Planning Act might be a little different, although I do not think the regulations about trees have yet been published.

Mr. Woodward: The next question is an entirely different subject again and it concerns P.C. and provisional sums in the contract. Where the general conditions of the specification or bill of quantities does not make any special provision for the treatment of P.C. or provisional sums in the specification or bill of quantities does are ordered and paid for direct by the employers, is the contractor entitled to be paid his profit as shown in his pricing on such P.C., or provisional sum, in the settlement of accounts when such sum has been paid direct?

That, of course, really concerns what is meant by the word "omission" or power to omit which is provided for in the contract. There again it struck me that I might get a definition from some decided case of the word "omission," and I found a case where a building contract gave power to the owner to order omissions without in any way affecting or making void the contract, but that there should be a deduction

from the amount of the contract by a fair and reasonable valuation. It was here that the word "omission" contemplated things he left out of the contract, but not such as were taken out of the contract and given to another contractor.

Therefore, the answer to this question is, I think, that if the building owner deals with provisional sums direct on his own account, he must then pay the loss of profit to the contractor on the footing that the contractor is entitled to carry out the whole of the work in the contract, if it is in fact carried out. It is quite another thing when you omit work which has never been executed, and I think that is the meaning of that particular judgment. I have said that I thought he was entitled to lose all profit, but of course there is the cash discount on P. C. items and provisional sums, and there I shall have to leave Mr. Redfern to explain what the position might be.

So far as loss of profit is concerned, I think when the building owner deals direct with these sums, he must pay the loss of profit to the contractor.

Mr. Redfern: I agree with what Mr. Woodward has said about the job, but the cash discount, in my opinion, is not a part of the loss of profit. The builder, possibly in order to advance the job, has to borrow money from his bank, and the cash discounts which he gets reimburse him to some extent for that. They minimise his loss. From the legal point of view, my view is that cash discount is not part of a builder's profit.

Mr. Woodward: The next question is as follows: "An architect acting on proper written instructions from his client, prepared drawings, instructed a quantity surveyor to prepare a bill of quantities, and obtained estimates for carrying out the work concerned. Again, acting on written instructions, he arranged for the builder who had submitted the lowest estimate to carry out certain preliminary work prior to the signing of the contract."

The builder carried out these instructions, but before the arrangements for signing the contract were complete, the employer sold his interest in the property concerned, and the new owner appointed another architect and quantity surveyor, and engaged another builder. The original architect forwarded the contractor's certified account for the work done to his client, who repudiated payment. The parties are not disposed to go to arbitration. The contractor asked us to advise him whether there was an implied contract between him and the original building owner, or whether he should look for payment to the architect who gave him his instructions, leaving it to the architect to recover the expense from his client."

On the facts stated, the architect, as agent for his client, had authority to order this particular work, and I think the answer is that the architect should tell the builder to look to his client for payment of that particular work. What the architect did in that case he had authority to do, and he was acting as an agent, which seems to be the answer. He would not, in those circumstances be held liable for what the builder has done.

Mr. Redfern: I would only add that any architect who gives legal advice to a contractor or anybody else is just as foolish as a lawyer who gives architectural advice to a client!

Following on the first series of the Journal's Round the Table discussions which ended last week, the report of this very interesting RIBA meeting demonstrates once again how valuable the open exchange of expert opinion can be on topics that are the direct concern of architects. Ed. A.J.

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

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2.43 planning: general SURVEY FOR DEVELOPMENT PLANS

Town and Country Planning Act, 1947: Survey for Development Plans: Circular No. 40, April 16, 1948. Min. of Town and Country Planning. (HMSO, 1948. 3d.)

Important official guidance on survey requirements for local planning authorities' development plans under Town and Country Planning Act, 1947.

The circular contains notes on the survey work needed to ensure that local planning authorities' development plans are soundly based. They have been issued in order to help authorities to decide what survey staff they will need to employ, what information they may obtain from Government Departments, and what information needs to be collected locally.

It is suggested that much of the survey information required could be obtained by making one comprehensive field survey and by using simple methods of approximation, which will give sufficiently accurate answers.

Information to be obtained from Government Departments includes guidance on national policy and factual data.

Actual survey requirements are set out under 13 headings accompanied by explanatory notes on each section. They cover the following aspects:—

(1) *Physical Conditions*, including existing land use, age and condition of buildings, quantities of building uses, residential density, and land unsuitable for building purposes owing to its present physical condition.

(2) *Ancient Monuments and Buildings of Architectural or Historic Interest*, lists of which are being prepared by the Ministry of Works and the Ministry of Town and Country Planning.

(3) *Rural Community Structure*, including existing pattern of rural communities, their

social and economic function in relation to the surrounding area, the location of existing social facilities and the extent of rural housing needs.

(4) *Population*, being concerned with tentative estimates of the size and composition of the future population, taking into account certain population movements.

(5) *Industry and Employment*, in relation to distribution of industry policy.

(6) *Minerals*, dealing with information on mineral deposits, their economic value, the extent of working by mineral undertakers, estimated future output and relative importance of deposits in relation to other existing or potential land uses.

(7) *Agriculture and Forestry*, covering information on the agricultural quality and use of the land, and forestry matters such as Forestry Commission policy.

(8) *Communications*, including existing information and future proposals with regard to roads, railways, docks, harbours and canals, airports and airfields.

(9) *Development by Government Departments*, dealing with the permanent retention of land or buildings already held under requisition, with new projects, the extension or alteration of existing developments, and with the reservation of sites proposed to be designated under Section 5 of the Town and Country Planning Act, 1947.

(10) *Public Utilities*, including information on water supply and sewerage, electricity and gas supply, and land drainage.

(11) *Social Services*, covering educational and health services.

(12) *National Parks, Conservation and Amenity Areas*, dealing with their effect on planning areas.

(13) *Holiday Development*, being concerned with the trend of demand for different types of holiday accommodation.

2.44 planning: general LAND, DEPRECIATION OF VALUES

Town and Country Planning, England: Central Land Board: The Claims for Depreciation of Land Values Regulations, 1948: Statutory Instruments 1948 No. 902, April 29, 1948. Min. of Town and Country Planning. (HMSO, 1948. 3d.)

Regulations prescribing manner and period in which claims for payments in respect of interests in land depreciated in value by virtue of Town and Country Planning Act, 1947, shall be made to Central Land Board.

An explanatory note appended to these regulations draws attention to the various provisions made. These include the ascertainment of development values of interests in land in respect of which claims are submitted; the designation of the Central Land Board as the authority which shall determine development values and prescribe the manner in which they shall be determined; the settlement of disputes arising in relation to such determinations by an arbitrator; the procedure to be followed in connection with the making of determinations and the settlement of disputes arising in relation thereto; the conditions attached to the right to a payment; and the manner and period in which notice of any assignment of a right to receive payment shall be given to the Central Land Board in order to be effective.

10.32 design: building types SCHOOL BUILDING

Structural Problems in School Building. D. Clarke Hall and L. W. Elliott. (The Architects' Journal, June 10, 1948, pp. 524-7.)

Principles of structural design. Advantages of rigid framed structures. Foundations designed for subsidence. Comparative analysis of frames in steel and concrete. New forms of structure.

12.19 materials: metals ZINC COATINGS

Exposure Tests Show Heavier Zinc Coatings Give Longer Life to Steel. Zinc Development Association. (Zinc Bulletin No. 4, Spring, 1948, pp. 8 & 9.)

Account of tests showing protection to be proportional to coating thickness. Behaviour of zinc on exposure, comparison of various zinc coatings and recommendations as to thickness, discussed. Of considerable interest in view of present use of light-weight steel structures.

Experience shows that galvanised sheets made 50 years ago seem to have a longer life than those produced today. This is thought to be due to the greater thickness of coating then used. This thickness (about 2 oz. per ft. of surface) is impracticable when bending or corrugating is introduced, but recommendations based on this experience, and subsequently confirmed by tests, suggest that an average coating of 2 oz. per sq. ft. (including both sides) or 1 oz. per sq. ft. of surface is the minimum cover that should be used on steel requiring long-term protection. This conforms to the B.S., but it is pointed out in the article that heavier coatings would be possible if advances were made in the technique of continuous strip galvanising.

Other points of particular interest in the article are:—

(a) that there is little significant difference in protection as far as is known between the first four of the five methods of application:

hot dip, electroplating, sherardizing, metal spraying and painting with metallic zinc paint.

(b) that zinc may be distinguished from tin, nickel, copper and other coating metals, owing to its property of dissolving on exposure to contaminated atmosphere to form a new protective layer should the steel become exposed. This action is reversed with the other metals.

(c) that the importance of uniform coating is reduced when heavier coatings are used, and also because of the "sacrificial protection" given by zinc and mentioned in (b) above.

13.23 materials: timber GLOSSARY

Glossary of Wood. T. Corkhill. (Nema Press, Ltd., London, 1948. 21s.)

Approximately 10,000 terms connected with timber, carpentry and joinery defined. 1,000 line illustrations. A useful reference.

15.27 materials: applied finishes and treatments CLEANING NON-FERROUS METALS

Cleaning Non-Ferrous Metalwork. T. P. Briggs. (Irish Builder & Engineer, May 29, 1948, pp. 416-418.)

Helpful notes on metal cleaning with particular reference to bronze.

The author discusses the merits of cleaning bronzework instead of allowing a patina to form—he refers especially to bronzework in sulphurous atmospheres. It is

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WOOD CASEMENT WINDOWS

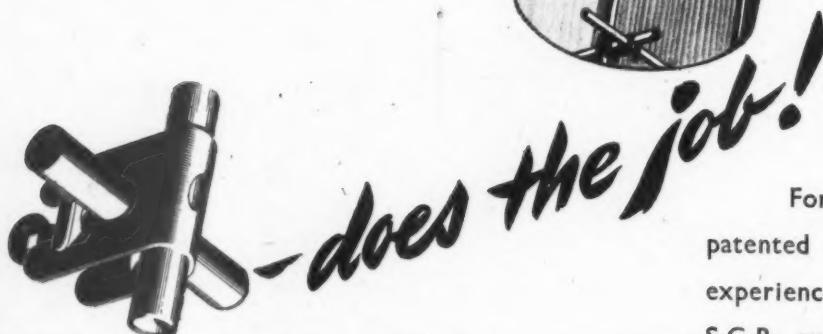
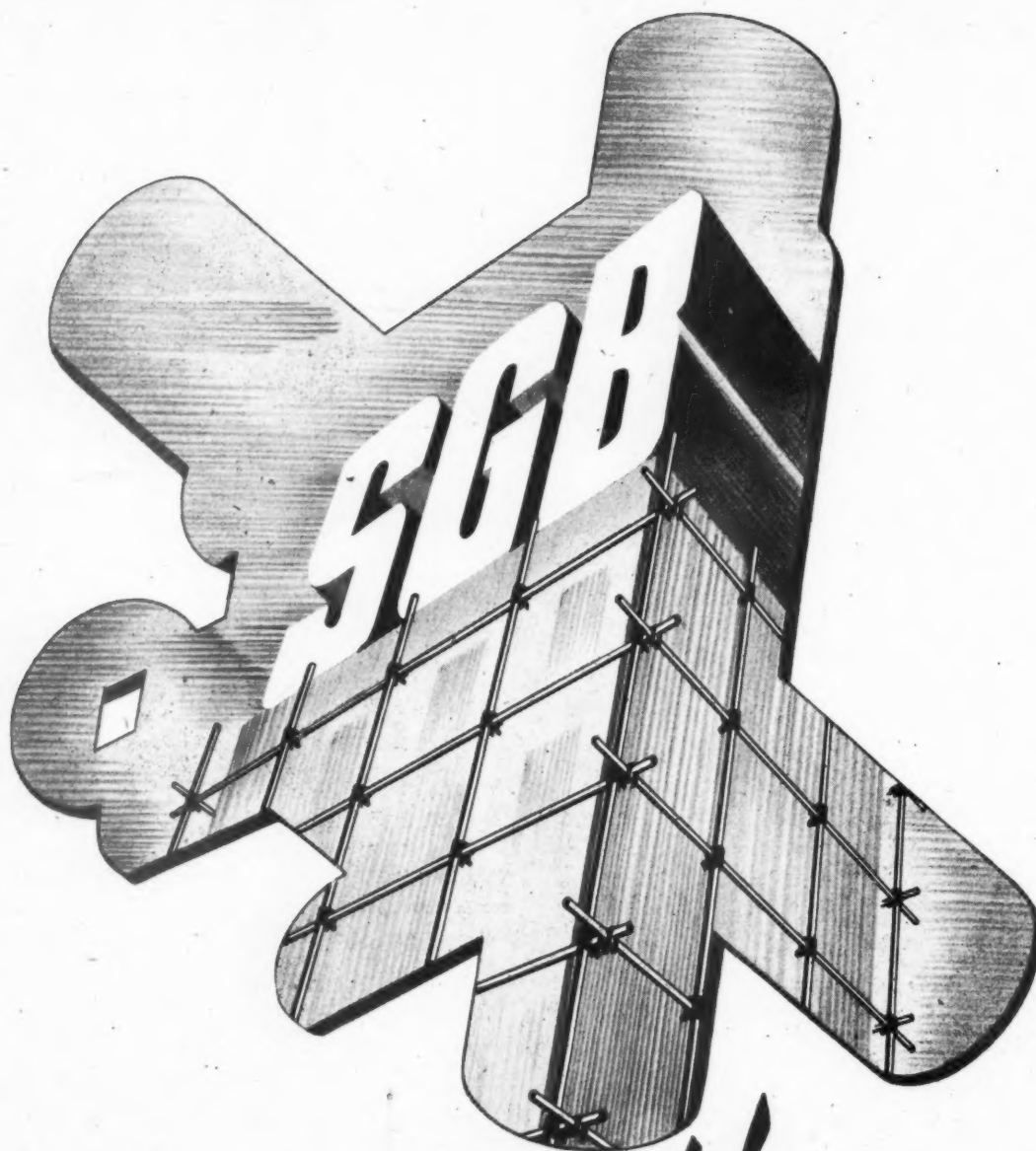


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suggested that the grimy deposit which is attached direct to the oxides formed on the bronze should not be removed more often than once in three years to avoid undue injury to the underlying bronze. However, if a transparent wax or varnish protection is applied directly after first cleaning, the metal may subsequently be cleaned annually without damage.

Paraffin and metal polishes tend to corrode bronzework. Clean cold water and a scrubbing brush are sufficient to remove the effects of a moderately polluted atmosphere. The bronze can also be scrubbed with a concentrated solution of carbonate of ammonia followed by spraying with plain cold water—and a final polish may be given with petrol and a wax impregnated cloth.

The formation of a patina layer can be hastened by the application of 1 part anhydrous vinegar to 5 parts bone oil. Three coats of this mixture are brushed on, allowing an interval of about ten days to elapse between the application of each coat.

Wax varnish or lacquer prevents corrosion by the atmosphere and the formation of patina, and thus adjacent stonework is protected from becoming stained by rain and condensation which has passed over the bronze before reaching the stone. Lacquer can be used only for small objects as the surfaces must be warmed before the lacquer is applied. Larger objects should be wax polished or should be given one or two coats of varnish.

The author states that household bleaching liquid is much easier to use than liquid polish for metals, because it does not clog the more delicate parts, and suggests that it ought also to be used for regenerating Ormolu, the mountings of imitation gold often used as decorative motifs planted upon the surfaces of ironwork and furniture.

16.27 materials: miscellaneous

PLASTIC SHEET FOR ROOF LIGHTS

Corrugated "Perspex" Acrylic Sheet for Roof Lighting. (Building Industries & Scottish Architect, May, 1948, pp. 38-40.)

Advantages of corrugated transparent plastic polymethyl methacrylate sheet used for roof lighting.

Figures are given in the article for the weight of the sheet, which is extremely light, for the low thermal conductivity value and for the weathering properties. When used with other corrugated roofing materials no glazing bars and flashings are necessary and there can be therefore a greater freedom in the placing of roof lights. Maintenance costs are low because repairs can be made by patching on pieces of the same material and by filling cracks with "perspex" cement.

Details of standard profiles which are manufactured in corrugated "perspex" are given in an advertisement in the same journal.

19.44 construction

TIMBER ROOF TRUSSES

Roof Trusses Recommended for the Small House. (Arch. Record (U.S.A.), May, 1948, pp. 176-7.)

Details of timber roof trusses of 26 ft. span, arranged at 24 in. centres, developed by the Federal Public Housing Authority. Claimed to save 28 per cent. in materials and 36 per cent. in labour, as compared with conventional rafters spaced at 16 in.

19.45 construction: details

UMBRELLA TRUSSES

"Umbrella Trusses" Form Low-Weight Roof. (Eng. News-Rec., (U.S.A.), May 27, 1948, pp. 774-5.)

New type of truss composed of rafters and a knee brace.

Structural steel for the roof of a New Orleans factory weighs only 5 lb./sq. ft., as compared with 7 to 10 lb./sq. ft. ordinarily used. This is attributed to the new type of trusses called "Umbrella trusses" by the designer, composed of three members: An inverted V (A) with the crotch straddling a supporting Warren truss, a V (B) suspended from the ends of A, and a strut (C) extending from the lower chord of the Warren truss to the juncture of A and B. These struts reduce the unsupported span of the truss from 43 to 19 ft.

The article describes details of a one-storey warehouse, 150 ft. by 259 ft., in which the V-trusses are used. There are six 43 ft. wide bays, the span of the Warren trusses is 50 ft.

23.67 heating and ventilation

RADIANT HEATING

Copper Tubing for Radiant Heating. J. M. Reid. (Sanitary Engineer, Plumber & Steamfitter (Toronto), June 15, 1948.)

Copper tubing used for radiant heating panels in small homes. Some description of design method. Claims for a cost comparative with other heating methods. Four photographs and diagrams.

This article describes the design methods used by one firm of Canadian heating engineers who specialize in panel heating. It is claimed that costs are about the same as for normal forced warm water radiator systems. If this is so, and the running costs are lower—a point not claimed in this article but frequently made elsewhere—then the panel heating system comes well

up into the forefront for consideration. The author states the difference between costs of copper and iron or steel piping is, in Canada, about 5 to 15 per cent. As the copper is the more expensive the reason for writing the article under the title given is somewhat obscure. The facts, however, are interesting. Apparently this one firm is putting in about 90 installations a year of this kind. British firms who habitually claim that we invented panel heating and therefore know all about it will need to reconsider their ideas soon, as all this experience must surely be leading to improvements in both design and installation.

A detail point is that this article refers, as several other recent publications have done, to the need for an insulation strip between the solid ground floor slab with its embedded pipes and the exterior wall. This not only prevents waste of heat, but also allows for thermal movements in the slab.

25.55 water supply and sanitation

GARCHHEY REFUSE DISPOSAL

Garchey—1948. The Arch. and Building News, June 18, pp. 535-9.

Description of most recent type of fittings now in production for this system. Illustrated photographs and drawings.

This article is based on a lecture by Mr. A. F. W. Moon at the Bartlett School, and in addition to re-stating the well-known general principles of the Garchey System, it gives details of a modified type of sink and refuse receiver now being made by Messrs. Matthew Hall and Co. Ltd. which conforms with current British sanitary practice and embodies refinements based on experience at Leeds.

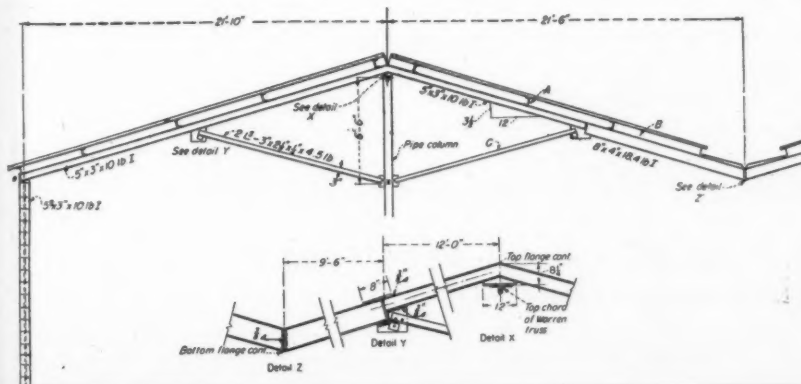
This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS

2952 WAR DAMAGE: CLAIMS

Q A client of mine recently bought a house for conversion into flats. During the course of the building work, it was revealed that the underground drainage system was defective, and as this house and the property next door had suffered some damage from blast during the war it was not unreasonable to suppose that the drainage system was damaged at the same time. The case was put to the War Damage Commission quoting the file number of a claim for damage registered by a previous owner in 1942. As this claim has since been closed, the Commission has informed me that it cannot be re-opened to admit the latent damage now disclosed. Could you please inform me if this decision must be regarded as final, or is there any procedure for re-opening claims already settled?

A In reply to a question in the House of Commons on June 1, it was stated that the War Damage Commission consider each case on its merits, and in the case of notification of latent damage they do not feel justified in admitting a claim unless convincing evidence is produced that the damage has been caused by bombs. The matter is one for the discretion of the Commission and we do not think there is any appeal from their decision.



Low weight roof using umbrella truss. See 19.45.

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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

MECHANICAL HANDLING

The Mechanical Handling Exhibition at Olympia was, rather naturally, of greater immediate interest to the contractor than to the architect, but, none the less, there was a good deal to be seen which was useful, if only as background information. Most manufacturers have ideas of their own, and the architect is therefore not likely to have to choose between the relative merits of belt, bucket, *en masse*, worm or chain type conveyors, but it is certainly a help to him to have some idea of the basic types, the maximum vertical angles at which they will convey goods, and the minimum radius of horizontal bends. All these details have their influence on the planning of industrial buildings, and Messrs. Iliffe, the proprietors of the journal *Mechanical Handling*, are to be congratulated on having organized the first specialized exhibition of this kind to be held in this country.

A major development in factory procedure during the last few years has been the widespread use of stacking trucks, also known as fork trucks, for internal transport and storage. This combined transport and stacking technique has been given the more than unfortunate name of "palletization," pallets being also known as stillages, platforms or trays. They are in fact short-legged tables on which goods are stacked, the legs giving enough clearance for the platform or fork of a small power truck to be driven underneath, so that the table and its load can be lifted clear of the floor for transport. Trucks of this kind have been made for a number of years by firms like Greenwood & Batley, Douglas, and Lister, and are generally powered by small air-cooled petrol motors, or electric accumulators. Many types of product, however, especially when in a semi-finished state, do not stack very well, and the height of the load is therefore limited, as it tends to fall off during transport. Hence the floor space occupied by loaded stillages can be quite considerable.

In an attempt to reduce floor areas it is obvious that the ability to stack loaded stillages one on top of the other would show a considerable saving, and a whole range of fork trucks has been evolved. These will lift loads of three or four tons to a height of 10 feet or more, and this will often show a very considerable saving in factory processes, and even more so in storage, as stock piles can be built up to the underside of low trusses in a way impossible with a mobile crane. The fork truck, too, is operated by one man, whereas a crane needs a driver and slinger.

It is worth pointing out here that every time any material is moved from one place to another something is added to its cost, but nothing to its value. It is interesting, therefore, to find that experiments are in hand to see whether these trucks can be of use to the building industry. Having

smallish wheels and needing fairly accurate control, they are unsuitable for work on an open site, but it is thought that they should be satisfactory for the typical factory job, for as soon as the floor is laid these trucks would be quite suitable and could transport stillages of bricks or other materials to any part of the building. Many of the standard trucks can be modified to take shovel attachments for shifting loose materials; one of them is illustrated here, while there are a number of other specialized units for handling awkward loads such as barrels and drums.

Mobile trucks of this kind will not, of course, replace the usual overhead conveyors and hoists, many of which were shown in the exhibition, as well as a number of mobile cranes.

A NEW WALL PANNELLING

A new type of panelling material is now being marketed in this country, and because of its low cost may well be of interest. Its basis is an asbestos board which is specially treated to give a glossy surface in a variety of colours, both plain and mottled. The surface is strongly resistant to abrasion and scratching, and is easy to wash down, and the board is, of course, damp-proof. Fixing is simple and the appearance is good. It is marketed under the name Asbestocrat. (*J. & M. Cobb, Ltd., 4, Marine Street, Swansea.*)

FLUORESCENT LIGHTING

The Micramatic Electrical Instrument Company has during the last few years been carrying out a considerable amount of research into fluorescent lighting, and has produced a large range of lamps and fittings which are made from a number of standard straight and curved tubes which can be made up into a variety of shapes. Single, double, and triple straight arrangements are made for industrial and commercial purposes, and these may be combined with circular and polygonal shapes for decorative or display work. Standard fittings are made for most purposes, but specials can easily be manufactured. The makers guarantee their lamps for a life of 5,000

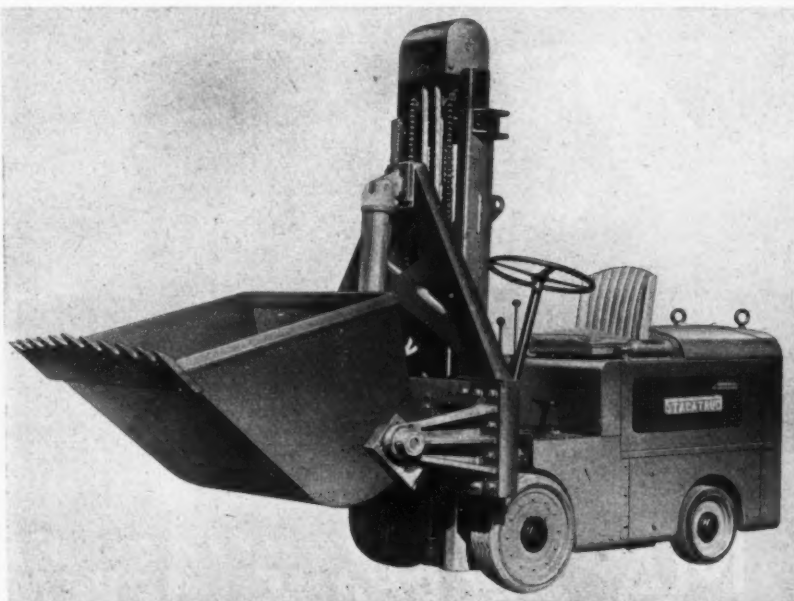
hours, but say that a life of 10,000 hours is by no means uncommon. They also claim that as a result of careful electrode design and the low current density of the arc, the colour and efficiency of the lamps is well maintained throughout their life. (*The Micramatic Electrical Instrument Co., Ltd., Meico Works, Congleton, Cheshire.*)

TIMBER FROM WOOD WASTE

Messrs. Jicwood of Weybridge, Surrey, are going into production with "Weyroc," a "man-made timber" produced from wood chips and sawdust and bonded with a synthetic resin. Timber waste, which incidentally may be about 45 per cent. of the cubic volume of the tree, can also be broken down to suitable sizes for reconstitution. When the wood waste is a suitable size it is mixed with resin. Urea resin is generally used, but phenol and cresol resins are also suitable. The mixture is cured under heat and pressure.

While it is possible to use various types of timber waste or wood chips, the process of manufacture may have to be modified to deal with the various species. The process is at present confined to the pine family, but laboratory work has shown that successful material can be obtained as long as there is no considerable mixing of timber families. Hardwoods such as the beech, mahogany, willow and birch families can be used satisfactorily. The process also has the advantage that if additional treatment is needed for resistance to fire, fungus or termites, the necessary steps can be taken during manufacture.

The general impression seems to be that only wall board or insulating board can be made from wood waste, but with Weyroc the idea has been to consolidate the material until it resembles the natural product. It is not possible to produce the same strength as the natural timber, but it can be made to specified characteristics and strengths, and should be suitable for many industries. It can be sawn, drilled, jointed and glued, and will hold nails and screws, while it can be machined like ordinary timber. Moreover, the large sheet sizes in which it is made should reduce manufacturing costs.



Stacking truck adapted for use as a mobile loading shovel. [*I.T.D. Ltd.*]

Announcements

The BBC have set up a complete Broadcasting Centre at Wembley which will distribute commentaries on the main events at Wembley Stadium. To ensure perfect synchronization of programmes, this Broadcasting centre, which includes studios, recording rooms, reproducing rooms and offices, will be equipped with a controlled clock system comprising 55 clocks and a master clock made by Gent & Co. Ltd., Leicester.

Mr. D. C. G. Lees, Editor of *Metal Treatment* and a member of the editorial staff of *The Iron and Coal Trades Review*, has been appointed Metallurgist to the Aluminium Development Association, and will take up his new duties in September. A graduate of Cambridge University, Mr. Lees was for six years on the staff of the British Non-Ferrous Metals Research Association, becoming Associate Editor of *Metal Treatment* in 1946 and Editor last year.

Buildings Illustrated

Offices and canteen at Marylebone (pages 116-118). Architects, Lewis & Hickey, F. & A.R.I.B.A. Canteen decorations, Messrs. Carlton Artists, Ltd. General Contractors, Messrs. Bovis, Ltd. Sub-contractors, Asbestos Cement Huts, R. J. Symons, Ltd.; Heating, Ventilation & Hot Water Installation, C. B. Jackson & Co. Ltd.; Engineer, R. A. Salaman, B.A.; Electrical Installation & Equipment, H. Cripps & Co. Ltd.; Staff Illumination Engineer, J. N. Harrison-Watson, B.ENG. A.M.I.E.E.; Architectural

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Factory Unit at Birmingham. (Pages 111-115). Contracts, New Production Shop, Test House, Air Filter House. Architects, Clifford Tee & Gale; General Contractors: W. J. Whittall & Son, Ltd.; Consulting Engineer; T. Bedford, A.M.I.C.E., A.M.I.MECH.E., A.M.I.STRUCT.E.; Quantity Surveyors: Reynolds & Young; Sub-contractors: Production Shop:—Asphalt, Val De Travers Paving Co.; Reinforced Concrete, Twisteel, Ltd.; Bricks, Aldridge Brick, Tile & Coal Co. and Burbury Brick Co.; Artificial Stone, Stuart's Granolithic Co.; Structural Steelwork, Redpath Brown & Co. Ltd.; Special Roofings, The Ruberoid Co. Ltd.; W.C. Partitions and Casements, Henry Hope & Sons; Steel Mesh Partition, Fire-Resisting Doors, Gridway Flooring, Fisher & Ludlow, Granolithic Flooring, Precast Concrete Stair, Empire Stone; Waterproofing Mats, Colmanoid; Central Heating and Ventilation, Carrier Engineering; Electric Light Fixtures, Revo Electric Co.; Sanitary Fittings, W. E. Farrer, Ltd.; Door Furniture, Cloakroom Fittings and Metal Work, James Gibbons, Ltd.; Casements and Window Furniture, James Gibbons and John Gibbs, Ltd.; Horticulture, W. Harshorne, Bakers, Ltd.; Patent Glazing, Haywards, Ltd. Test House:—Reinforced Concrete, B.R.C. Engineering Co. Ltd.; Special Roofings, Turners Asbestos Cement Co.; Granolithic Flooring, Plastona, Ltd.; Electric Wiring, Lee Beesley & Co., City Electric Co.; Sanitary Fittings, Bolding & Sons; Tiling, Carter & Co. Air Filter House:—Filtering Equipment, Industrial Fan & Heater Co.; Electric Hoists, Evans Lifts, Ltd.

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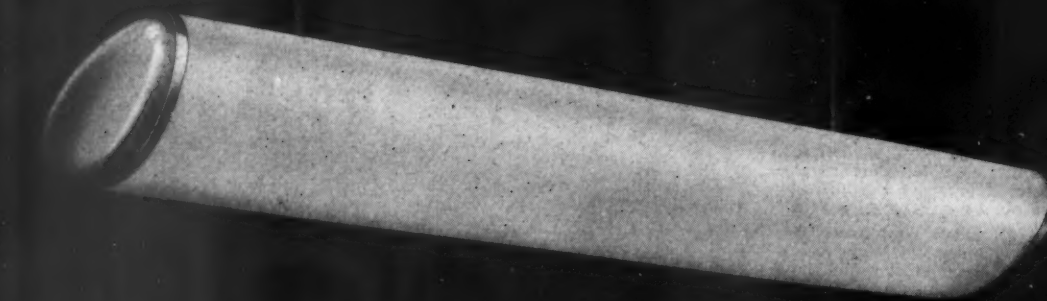
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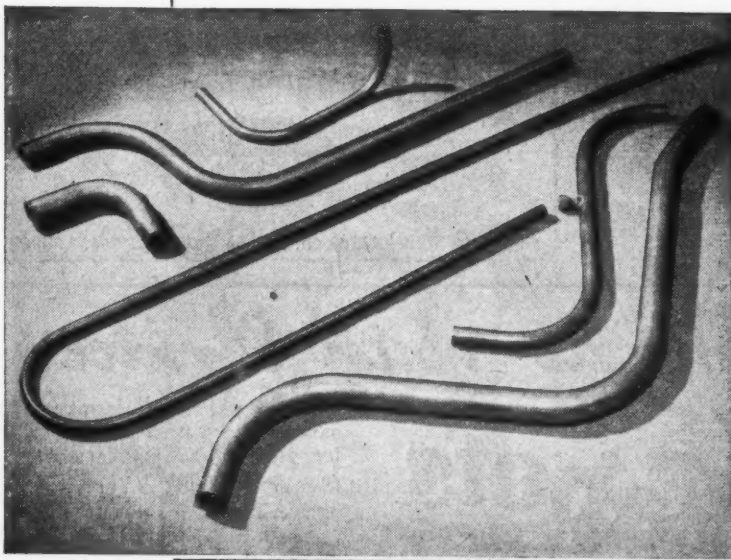
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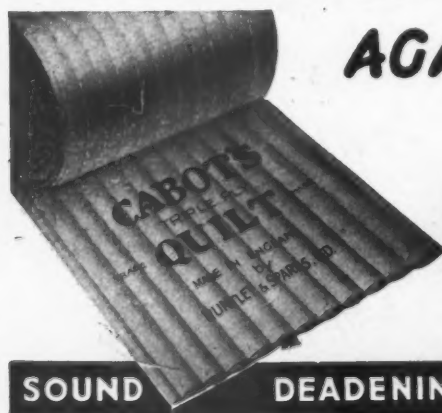
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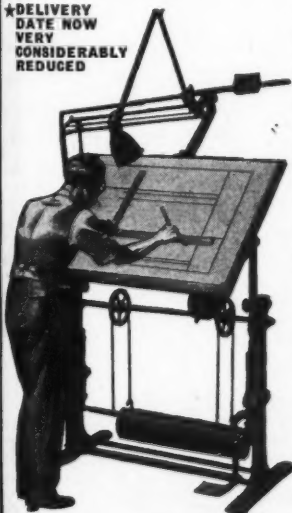


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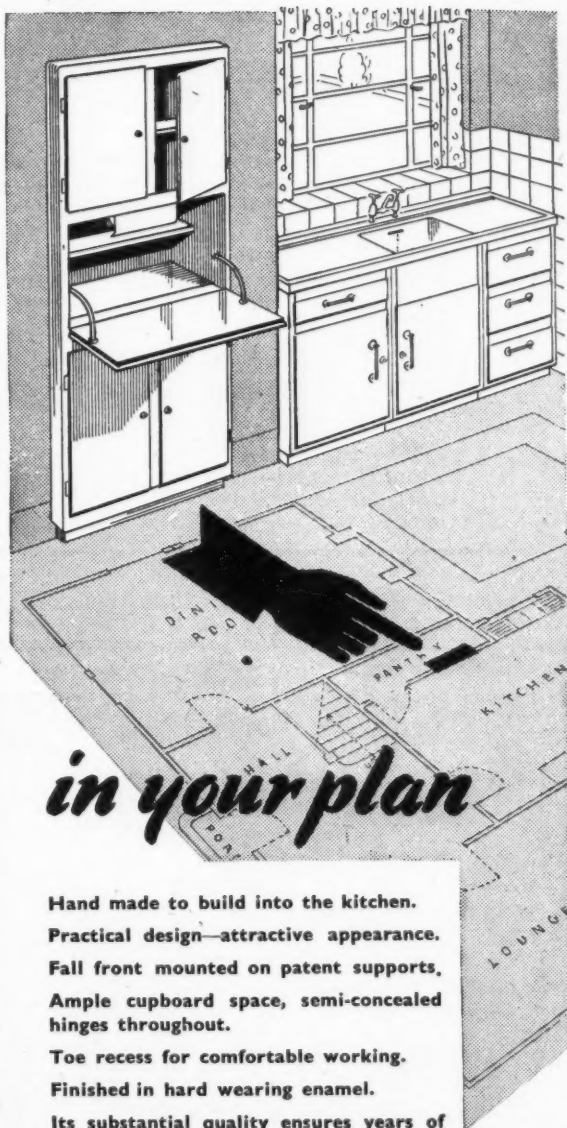


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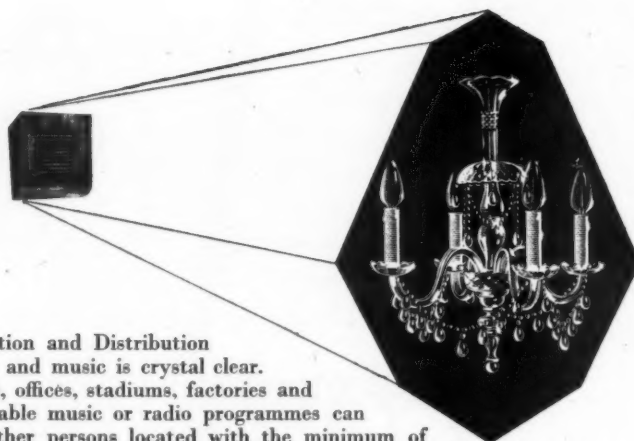
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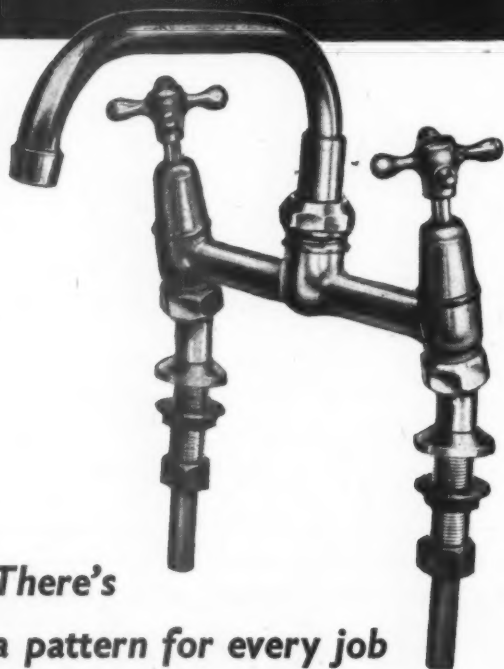
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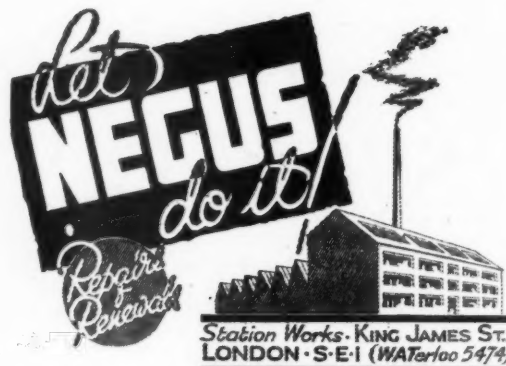
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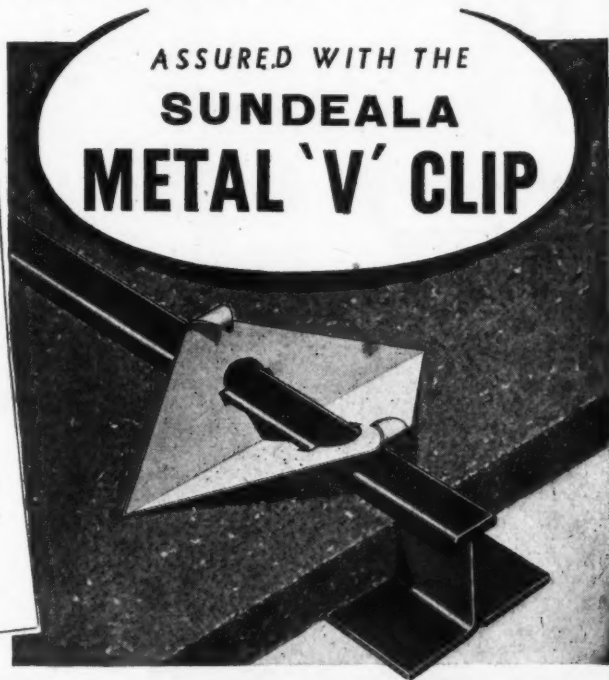
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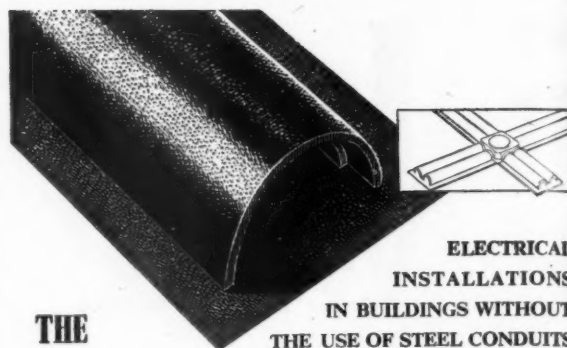
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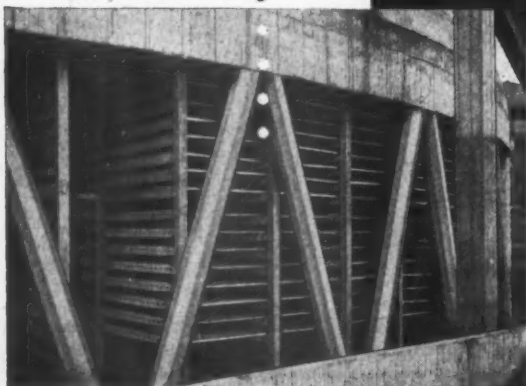
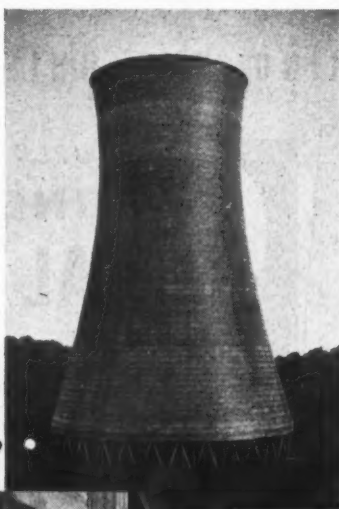
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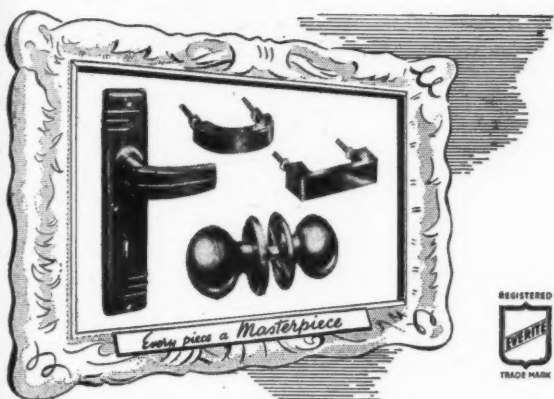
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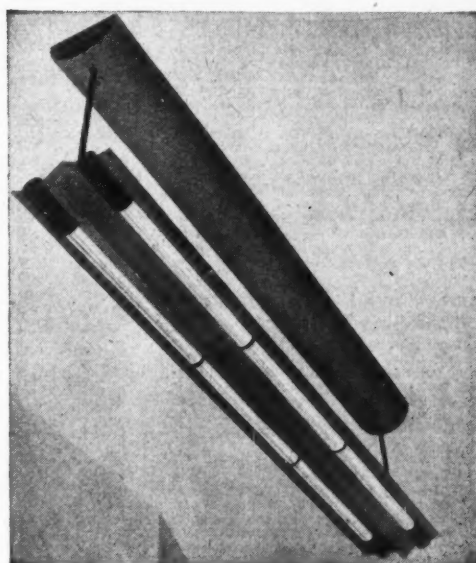
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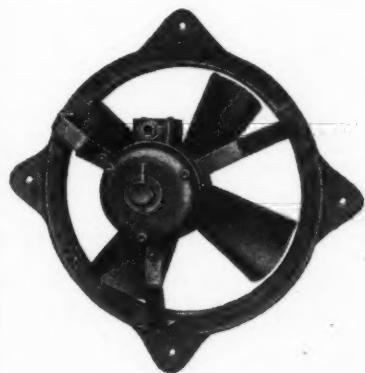
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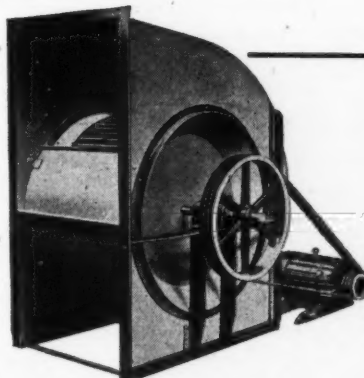
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

None of the vacancies in these columns relate 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.

Public and Official Announcements

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

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTERS, WARM PARK, WHITELEAF. Tel: Uplands 0935. 991

LONDON COUNTY COUNCIL.
HOUSING AND VALUATION DEPARTMENT.
ARCHITECTURAL ASSISTANTS. Applications are invited for positions of Architectural Assistant, at salaries of up to £380 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.

Successful candidates will be required to undertake the design, layout, and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's division.

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

BOROUGH OF WIDNES.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in the Borough Architect's Department, at a salary on A.P.T. Grades III, IV or V, of the National Scale of Salaries. The salary grade will be determined by the qualifications of the candidate, viz., Associate R.I.B.A., on Grade V (£520-£570), Student R.I.B.A. or Registered Architect on Grade IV (£480-£525), otherwise on Grade III (£450-£495), all salaries consolidated.

The successful candidate will be engaged on general Municipal work, and previous experience on schools or housing work will be an advantage. The appointment will be subject to the provisions of the Local Government Officers' Superannuation Act, 1937, and to the candidate passing a medical examination.

Housing accommodation available if required. Applications, stating age, married or single, education, technical training, qualifications, present and previous posts (with dates), and details of experience, together with the names of two referees, should be sent to F. Mellor, F.R.I.B.A., Borough Architect, Brendan House, Widnes Road, Widnes, not later than Saturday, 7th August, 1948.

Canvassing, directly or indirectly, will disqualify.

JAMES WALLACE, Town Clerk.

Town Hall, Widnes. 1324

METROPOLITAN BOROUGH OF SHOREDITCH.

APPOINTMENT OF BOROUGH ENGINEER, SURVEYOR AND ARCHITECT.

Applications are invited for the position of Borough Engineer, Surveyor and Architect to the Council from gentlemen suitably qualified, possessing extensive Local Government experience.

Candidates should be members of the Institute of Civil Engineers (or the Institute of Municipal Engineers) and Registered Architects.

The duties of the appointment, which are more fully described in the form of application, will include the customary duties assigned to a Borough Engineer and Surveyor, together with the architectural work of the Council. The Council are at present engaged on a large and expanding programme of permanent housing. A knowledge of town planning procedure will be an advantage.

The consolidated salary for the appointment will be at the rate of £1,500 per annum, rising by increments of £50 to £1,650 per annum.

Applications must be made on forms to be obtained from the undersigned, and must be submitted not later than 28th August, 1948. The appointment will be subject to the Council's superannuation scheme and general conditions of service, and to a medical examination.

Candidates must state in writing whether they are related to any member or senior officer of the Council. Canvassing in any form will disqualify.

R. CYRIL RAY, Town Clerk.

Town Hall, Old Street, E.C.1.
July, 1948. 1347

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, £550 to £600 per annum inclusive.

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 Friday, 6th day of August, 1948.

GORDON H. TAYLOR, Town Clerk.

Southgate Town Hall, Palmers Green, London, N.13. 1326

GELLYGAER URBAN DISTRICT COUNCIL.
ENGINEER, SURVEYOR AND ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) GENERAL ENGINEERING ASSISTANT, at a salary in accordance with A.P.T. Grade V (£520 per annum to £570 per annum);

(b) ARCHITECTURAL ASSISTANT, at a salary in accordance with A.P.T. Grade IV (£480 per annum to £525 per annum).

Applicants for appointment (a) must be Associate Members of the Institute of Civil Engineers and/or hold the Testamur of the Institute of Municipal and County Engineers, and have experience of the work of the Engineer and Surveyor's Department of a Local Authority; a knowledge of procedure under the Private Street Works Act, 1892, will be an advantage. Applicants for appointment (b) must be Members of the R.I.B.A. and have experience of housing and other work of a Local Authority, including Building Quantities and Pricing; a knowledge of Town and Country Planning will be an advantage.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. Both appointments are terminable by one month's notice.

Canvassing, either directly or indirectly, will be a disqualification, and a candidate must disclose in writing whether to his knowledge he is related to any member or to the holder of any senior office under the Council.

Applications, stating all relevant details, together with names and addresses of two persons to whom reference may be made, should be received by the undersigned not later than 28th August, 1948.

D. W. C. MORGAN, Clerk.

Council Offices, Hengoed, Glam.
15th July, 1948. 1322

CITY OF PORT ELIZABETH (SOUTH AFRICA).

The City Council is invited to receive applications for the position of TOWN PLANNING OFFICER, in the City Engineer's Department, Grade III. Salary £800-£845-£1,025 per annum.

The cost-of-living allowance payable in respect of this appointment is as follows:—Single, nil; married, £88 per annum (no cost-of-living allowance payable to persons in receipt of a basic salary of over £1,000 per annum).

The commencing salary within the Grade will be determined in accordance with the qualifications and/or experience of the successful candidate.

Applicants must be Corporate Members of the Town Planning Institute or possess similar qualifications, and must have had experience in the preparation and submission of town planning schemes for approval by Government Authority and of town planning schemes in operation.

Passage out paid. Three years' agreement. The appointment will be subject to the Council's Conditions of Service and Leave Regulations, which provide for a probationary period and membership of the Municipal Pension Scheme.

Applications, stating age, and incorporating full details of education, training and experience, and accompanied by not more than three recent testimonials, must be in the hands of the undersigned not later than 3rd September, 1948. There is no special form of application.

DAVIS & SOPER, LTD., Agents of the City Council of Port Elizabeth.

52 and 54, St. Mary Axe, London, E.C.3.
7th July, 1948. 1355

ISLE OF MAN LOCAL GOVERNMENT BOARD.

Applications are invited for the following posts in the Office of the Architect and Planning Officer to the Isle of Man Local Government Board:—

(1) ARCHITECTURAL ASSISTANT, at a salary of £390 per annum, rising by annual increments of £15 to a maximum of £435 per annum.

(2) JUNIOR TECHNICAL ASSISTANT, at a salary of £200 per annum, rising by annual increments of £15 to a maximum of £265 per annum.

Candidates for (1) should have had good general Architectural experience, including working drawings, and preference will be given to a candidate who is a member of the R.I.B.A.—at least of Intermediate standard.

Candidates for (2) should have completed a period as articled pupil or have had equivalent experience.

Subject to the approval of His Excellency the Lieutenant Governor, each post will be declared pensionable (on a contributory basis) for the purposes of the Isle of Man Officers of Boards (Superannuation) Scheme, 1934.

Applications, stating age, present position and salary, qualifications and experience, and accompanied by copies of not more than three recent testimonials, should be sent to the undersigned not later than the 14th August, 1948.

W. H. KARRAN, Secretary.

6, Mount Havelock, Douglas, Isle of Man. 1348

COUNTY BOROUGH OF STOCKPORT.

Applications are invited for the following positions:—

SENIOR TOWN PLANNING ASSISTANT, A.P.T. V (£520-£570 p.a.).

TOWN PLANNING ASSISTANT, A.P.T. III (£450-£495 p.a.).

GENERAL ARCHITECTURAL ASSISTANT, A.P.T. IV (£480-£525 p.a.).

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

Applications, stating age, qualifications and experience, together with copies of two recent testimonials, must be delivered to the undersigned by Monday, 9th August, 1948. Candidates must disclose in their applications whether to their knowledge they are related to any member of the Council or to any Senior Official of the Corporation.

Canvassing, directly or indirectly, will be a disqualification.

WM. F. GARDNER, M.I.C.E., A.M.T.P.I., Borough Surveyor.

Town Hall, Stockport.
July, 1948. 1315

MOUNTAIN ASH URBAN DISTRICT COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the temporary appointment of Assistant Architect, in the Architect's Department, at an inclusive salary of £450 p.a.

Applicants must have passed the Intermediate examination of the Royal Institute of British Architects, should have good housing, general architectural experience, and a knowledge of Building Quantities.

Applications, endorsed "Assistant Architect," stating age, qualifications, experience, and accompanied by two recent testimonials, must reach the undersigned not later than the 23rd August, 1948.

BERNARD M. MURPHY, Clerk of the Council.

Town Hall, Mountain Ash.
8th July, 1948. 1326

CITY OF CARDIFF TECHNICAL COLLEGE.

Principal: DR. A. HANFORD.

Applications are invited for the post of LECTURER AND STUDIO INSTRUCTOR in the Welsh School of Architecture. Candidates should have been trained in a recognized School of Architecture and be Associates of the R.I.B.A.

Appropriate professional and/or industrial experience will be a recommendation. The salary payable will be in accordance with the Burnham (Technical) Scale, i.e., £300-£315-£355, plus appropriate allowances for training and qualifications, the maximum possible salary being £650 per annum. War service and professional experience will be counted towards teaching service in fixing the commencing salary.

Application forms, together with further particulars, may be obtained from the undersigned on receipt of a stamped addressed foolscap envelope, and should be returned as soon as possible.

W. J. WILLIAMS, Director of Education.

City Hall, Cardiff.
17th July, 1948. 1366

NORTHERN POLYTECHNIC, LONDON, N.7.

The Governing Body invite immediate applications for appointment to the Staff of the Department of Architecture, Surveying and Building in the EVENING SCHOOL. Previous teaching experience is desirable, but not essential.

Lecturers and Instructors are required in the following subjects:—

Architectural Design.
Structural Mechanics.
Building Construction.
Builder's Book-keeping.
Builder's Accountancy and Costing.
Properties of Materials.
Materials and Specifications.

Applications should be made in writing, giving brief particulars of training and experience.

R. H. CURELL, Clerk.

1363

STEVENAGE DEVELOPMENT CORPORATION.

DEPARTMENT OF ARCHITECTURE AND PLANNING.

APPOINTMENT OF A SENIOR ARCHITECT.

Applications are invited for the above post. Candidates must possess good academic and professional qualifications, and have had several years' practical building experience. The post will be on the range of £1,000 to £1,200 p.a. The selected candidate will be required to contribute towards a Local Government Superannuation Fund or an Insurance Scheme. Small house may become available. Relationship to any member of the Corporation must be disclosed by the applicant. Candidates should apply by letter not later than 6th September, 1948, to the Chief Administrative Officer, Aston House near Stevenage Herts, giving age, qualifications, present and previous appointments held, list of buildings on which experience has been obtained, and the names of three persons to whom reference may be made. 1391

ORPINGTON URBAN DISTRICT COUNCIL. APPOINTMENT OF ARCHITECTURAL ASSISTANT (GRADE II).

The above-named Council invite applications for the established appointment of Architectural Assistant (Grade II), in the Engineer and Surveyor's Department.

Applicants should have had architectural experience in connection with Municipal housing schemes. Salary in accordance with Grade II of the A.P.T. Division of the National Salary Scales (consolidated £240 per annum, rising, subject to satisfactory service, by three annual increments of £15 each, to a maximum of £465 per annum), plus London area weighting (at present £20 per annum).

The appointment is superannuable, and the successful candidate will be required to pass a medical examination.

Applications, which must be completed by reference to the particulars and conditions of appointment to be obtained from me, should be received by me not later than 14th August, 1948.

By the Council's direction, canvassing will be a disqualification.

STEPHEN KING,

Clerk and Solicitor.

Council Offices, Orpington, Kent.

29th July, 1948. 1389

CITY OF PETERBOROUGH.

CITY ENGINEER AND SURVEYOR'S DEPT.

Applications are invited for the appointment of TWO ARCHITECTURAL ASSISTANTS, on the staff of the City Engineer and Surveyor, at a salary in accordance with Grade III, A.P.T. i.e., £460, rising by annual increments to £495 per annum.

Applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings under supervision.

The City Council have adopted the National Scheme of Conditions of Service. The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and successful applicants will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials and suitably endorsed, must be delivered to the undersigned not later than 20th August, 1948.

Applicants must disclose whether they are related to any Senior Official or Member of the Authority.

ARTHUR J. REEVES,

Town Clerk.

Town Hall, Peterborough.

July, 1948. 1388

THE UNIVERSITY OF LIVERPOOL. LEVERHULME RESEARCH FELLOWSHIP IN CIVIC DESIGN.

The University invites applications for this Fellowship, which will be tenable for three years in the first instance, at a salary to be fixed according to qualifications and experience within the range £600-£900 per annum.

Applications, which should include particulars as to age, academic career, qualifications and experience, together with the names of three referees, should be received not later than 18th August, 1948, by the undersigned, from whom further particulars of the Fellowship may be obtained.

STANLEY DUMBELL,

Registrar.

July, 1948. 1390

COUNTY BOROUGH OF BURNLEY: EDUCATION COMMITTEE.

MUNICIPAL COLLEGE.

Applications are invited for the position of SENIOR ASSISTANT FOR BUILDING AND ARCHITECTURE. Applicants should be Associates of the Royal Institute of British Architects, and be able to take charge of classes in Advanced Building Construction, Architectural History, Drawing and Design. Good professional experience is essential and some teaching experience desirable.

Burnham Technical Scale for Senior Assistants £700-£800, plus recognized allowances. Application forms can be obtained from the Director of Education, Education Offices, Burnley, by whom completed applications must be received not later than 14 days after the publication of this advertisement. Canvassing prohibited.

C. V. THORNLEY,

Town Clerk.

20th July, 1948. 1385

COUNTY BOROUGH OF WOLVERHAMPTON. Applications are invited from suitably qualified persons for the following permanent appointments, in the Architectural Section of the Borough Engineer's Department:—

(a) SENIOR ARCHITECTURAL ASSISTANT (Class II), Grade V, A.P. and T. Division. Salary £520-£570 per annum.

(b) GENERAL ARCHITECTURAL ASSISTANT, Grade III, A.P. and T. Division. Salary £450-£495 per annum.

The appointments, terminable by one month's notice on either side, are subject to the provisions of the Local Government Officers' Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. The Conditions of Service will be those of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

Applications, stating age, qualifications and full details of experience, together with copies of three recent testimonials, should be delivered to the undersigned not later than Wednesday, 11th August, in a sealed envelope, which must be endorsed with the vacancy for which the application is made.

J. BROCK ALTON,

Town Clerk.

Town Hall, Wolverhampton.

16th July, 1948. 1356

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

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

(a) CHIEF ARCHITECTURAL ASSISTANT, A.P.T., Grade VII of the National Consolidated Scales (£635-£235-£710), plus London weighting.

Applicants must be Associates of the Royal Institute of British Architects, and have sound experience in the design, construction and specification of housing and public buildings, and have had administrative experience with a Local Authority. A car allowance on National Scale rates will be payable.

(b) ARCHITECTURAL ASSISTANT, A.P.T., Grade IV (£480-£15-£525), plus London weighting.

Applicants must hold the Intermediate examination certificate of the R.I.B.A., and have had sound training and good general experience in the architectural work of a Local Authority.

(c) ARCHITECTURAL ASSISTANT, A.P.T., Grade II (£420-£15-£465), plus London weighting.

Applicants must be engaged on a course of study leading to a recognized architectural qualification. They must be good draughtsmen and have had a sound training in architectural work.

The appointments will be subject to (i) the provisions of the National Scheme of Conditions of Service; (ii) the passing successfully of a medical examination for Superannuation purposes, and (iii) one month's notice on either side.

No special action will be taken to provide the successful applicant with housing accommodation. Applications on forms obtainable from the undersigned must be returned, together with the names of three referees, not later than the 24th August, 1948. Canvassing in any form will be a disqualification.

J. W. WRIGHT,

Clerk of the Council.

District Council Offices, The Grove,

Carshalton, Surrey. 1357

DERBYSHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the under-mentioned appointments to the staff of the County Planning Department:—

(a) SENIOR PLANNING ASSISTANT, A.P.T., Grade V (£520-£570 p.a.).

(b) JUNIOR PLANNING ASSISTANTS (FOUR), A.P.T., Grade II (£420-£465 p.a.).

(c) DRAUGHTSMAN OR DRAUGHTSWOMAN (TWO), Miscellaneous Division, Grade I (£315-£360 p.a.).

Applications must be made on forms which will be supplied, together with further particulars of the appointments, on request to the undersigned, and must be returned so as to be delivered to the undersigned not later than the 9th August, 1948.

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

H. WILFRID SKINNER,

Clerk of the County Council.

County Offices, St. Mary's Gate, Derby. 1359

BRECONSHIRE COUNTY COUNCIL.

Applications are invited for the appointment of ASSISTANT ARCHITECT (Male or Female) on the staff of the County Architect's Department.

The salary payable will be £480-£525 per annum, in accordance with Grade IV of the A.P. and T. Division of the National Scale of Salaries.

The appointment will be subject to the Local Government Superannuation Act, 1937, terminable by one month's written notice on either side, and subject also to the successful candidate passing satisfactorily a medical examination.

Applications, giving full details of age, training and experience, and accompanied by the names and addresses of two referees, must reach the undersigned not later than 7th August, 1948.

Canvassing, directly or indirectly, will definitely disqualify the candidate for the appointment.

C. M. S. WELLS,

Clerk of the County Council.

County Hall, Brecon. 1360

NORTHERN POLYTECHNIC, LONDON, N.7.

The Governing Body invite immediate applications for appointment to the full-time staff of the School of Architecture in the following posts:—

(a) SENIOR LECTURER ON TOWN PLANNING. Preference will be given to one who has some teaching experience and is also able to lecture on other aspects of architecture, such as Theory of Design or History of Architecture.

(b) LECTURER ON ELEMENTARY STRUCTURAL MECHANICS, Properties of Materials, etc.

(c) STUDIO DESIGN MASTERS, who should preferably have been trained in a recognized school.

Some teaching experience will be an advantage, but it is not essential. Duties will commence as soon as an appointment is made. The salary will be in accordance with the Burnham (Technical) Scale. Members of the staff of the School are afforded reasonable opportunities for private practice, and the hours of teaching duties may be adjusted accordingly.

Forms of application, together with full particulars, will be forwarded on receipt of a stamped, addressed foolscap envelope.

R. H. CURRELL,

Clerk. 1364

BOROUGH OF RAWTENSTALL. BOROUGH ENGINEER'S AND SURVEYOR'S DEPARTMENT.

JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the post of Junior Architectural Assistant, at a salary in accordance with Grade II, A.P.T. Division of the National Consolidated Scale, commencing at £420 per annum and rising by annual increments of £15 to a maximum of £465. Preference will be given to applicants who have passed the Intermediate examination of the Royal Institute of British Architects. The appointment is to the Council's permanent staff and is subject to the provisions of the Local Government Superannuation Act, 1937, and to the National Joint Council's Scheme of Conditions of Service. The successful candidate will be required to pass a medical examination.

Applications, endorsed "Junior Architectural Assistant" must be in writing, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, and must reach me not later than Thursday, 12th August.

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

H. ISHERWOOD,

Town Clerk.

Town Hall, Rawtenstall, Rossendale.

Lancs.

20th July, 1948. 1365

MANCHESTER MUNICIPAL COLLEGE OF TECHNOLOGY.

(FACULTY OF TECHNOLOGY IN THE UNIVERSITY OF MANCHESTER).

The Governing Body invites applications for a Lectureship or Assistant Lectureship in STRUCTURAL ENGINEERING, with similar title and status in the University of Manchester.

The present salary scales, which are under consideration for upward revision, are:—

LECTURES: £550-£725, by annual increments of £20.

ASSISTANT LECTURES: £420-£500, by annual increments of £20.

The appointment may be made anywhere within these scales, depending on the qualifications and experience of the applicant.

Conditions of appointment and form of application may be obtained from The Registrar, College of Technology, Manchester, 1. The last day for the receipt of applications is Monday, 30th August, 1948.

Canvassing, either directly or indirectly, will disqualify a candidate for appointment.

J. E. MYERS,

Principal of the College. 1367

CITY OF MANCHESTER.

HOUSING COMMITTEE.

Applications are invited from persons having a sound experience for the appointment under the Housing Committee of the following established posts:—

ASSISTANT QUANTITY SURVEYOR, Grade A.P.T., V, of the N.J.C. Consolidated Scales, £520-£570 per annum.

ASSISTANT ARCHITECT, Grade A.P.T., V, of the N.J.C. Consolidated Scales, £480-£525 per annum.

ASSISTANT ARCHITECT, Grade A.P.T., III, of the N.J.C. Consolidated Scales, £450-£495 per annum.

The successful candidate will be required to contribute to the Corporation's Superannuation Fund, and if under the age of 30 years, to the Manchester Municipal Officers' Widows and Orphans' Pension Fund.

Applications, stating age, qualifications and experience, together with copies of two testimonials, must be submitted to Mr. A. Mackenzie, L.R.I.B.A., Director of Housing, Town Hall, Manchester 2, endorsed as to the particular post applied for and be received not later than Saturday, 7th August, 1948.

Canvassing in any form, oral or written, direct or indirect, is prohibited.

PHILIP B. DINGLE,

Town Clerk. 1374

July, 1948.

**BURGH OF KILMARNOCK.
TOWN PLANNING DEPARTMENT.**

Applications are invited for the following appointments in the Town Planning Department—

(a) **SENIOR PLANNING ASSISTANT**, with surveying experience. Salary, Grade A.P.T., V (£520 × £15 × £20 to £570).

(b) **INTERMEDIATE PLANNING ASSISTANT**, with surveying experience. Grade A.P.T., III (£450 × £15 × £15 to £495).

(c) **JUNIOR PLANNING ASSISTANT**, Grade A.P.T., I (£390 × £15 × £15 to £435).

The above salary scales are inclusive of war bonus, which has now been consolidated with the salary. Applicants must not exceed 45 years of age, unless they are already contributory employees under the Local Government and Other Officers' Superannuation (Scotland) Act, 1937, but those who have been on war service may, if necessary, deduct the period of such service from their present age to satisfy the condition as to age limit.

The applicants should have had previous experience in a Planning Department and in the carrying out of basic surveys. Membership of the Town Planning Institute is desirable for posts (a) and (b).

The persons selected for appointment will require to pass a medical examination and, on satisfying this condition, will become contributory employees under the above-mentioned Act.

Applications, accompanied by one copy of each of three recent testimonials, and stating age, qualifications, experience and post for which application is being made, should be lodged with me not later than 10 a.m. on Monday, 16th August, 1948.

W. L. WALKER,
Town Clerk.

Council Chambers, Kilmarnock. 1330
19th July, 1948.

HAMPSHIRE COUNTY COUNCIL.

Applications are invited for the appointment of **ASSISTANT ARCHITECT**, on the established staff of the County Architect's Department (Grade VII). Salary £635 × £25—£710 per annum.

Candidates should be Registered Architects and Associates of the Royal Institute of British Architects, with good general experience in design and construction of public buildings.

The appointment will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination.

The appointment will be terminable by one month's notice on either side.

Application should be made on forms to be obtained from Simpson Low, A.R.I.B.A., Dipl. Arch., County Architect, The Castle, Winchester, to whom they should be returned not later than Saturday, the 14th August, 1948.

G. A. WHEATLEY,
Clerk of the County Council.

The Castle, Winchester. 1379
20th July, 1948.

CITY OF CARLISLE.

CITY ENGINEER'S DEPARTMENT.

Applications are invited for the post of **PRINCIPAL ASSISTANT ARCHITECT**, on Grade VI (£595-£660).

Applicants should be Associates of the Royal Institute of British Architects, and have good general experience in the design and construction of Public Buildings, Schools and Houses.

The Council are taking steps to make available housing accommodation for the successful applicant if desired.

Forms of application and conditions of employment may be obtained from Mr. Percy Dalton, A.M.I.C.E., A.R.I.B.A., City Engineer, 18, Fisher Street, Carlisle, to whom applications should be returned not later than Wednesday, 18th August, 1948.

H. D. A. ROBERTSON,
Town Clerk.

15, Fisher Street, Carlisle. 1378

LONDON COUNTY COUNCIL.

Required at Brixton School of Building, Fernside Road, S.W.4, as soon as possible, a **WOMAN TRACER**, to prepare technical prints and drawings. Commencing rate of pay 75s. a week, rising by annual increments of 7s. 6d. to 90s., then by 5s. to 130s. a week. Applications (no special form necessary) should reach the Principal at the School by 14th August, 1948. (1744)

CIVIL SERVICE COMMISSION.

Applications are invited for the post of **SECRETARY** of the Royal Commission on Ancient Monuments in Wales and Monmouthshire.

At present the headquarters of the Commission are in Aberystwyth and the salary (for a man) is a fixed rate of £1,000 per annum. It is proposed to move the headquarters to London, when the salary will be increased to £1,050 per annum. For a woman the salary would be somewhat lower.

Candidates should have a working knowledge of the archaeology and architecture of Wales and of England in so far as developments in the latter affect Wales. A knowledge of Welsh language and history is desirable, but not essential.

The appointment is permanent and subject to the usual Civil Service conditions.

Candidates must be under 50 years of age on 1st July, 1948, but this age limit may be modified should any exceptional candidate come forward.

Further particulars and forms of application from the Secretary, Civil Service Commission, Burlington Gardens, W.1, quoting No. 2242; completed forms must be returned by 31st August, 1948. 1371

SOUTH-WESTERN REGIONAL HOSPITAL BOARD.

Applications are invited for the whole time appointment of an **ARCHITECT** to the Board on a salary of £1,350 × £50—£1,550, subject to superannuation contributions of 5 per cent. Candidates should be members of the R.I.B.A. or have comparable qualifications, and knowledge and experience of hospital building practice would be an advantage. The appointment is terminable by three months' notice on either side. Applications, stating age, qualifications, and experience, with the names of three referees, should reach the Secretary, South-Western Regional Hospital Board, 6, Elton Road, Bristol, 8, by first post on August 16th. 1377

CITY OF YORK.

Applications are invited for the permanent appointment of **ARCHITECTURAL ASSISTANT** (Grade V—£520 to £570 per annum). Applicants must be A.R.I.B.A. Conditions of appointment, together with application form can be obtained from the undersigned. Applications, together with copies of three recent testimonials, must be delivered not later than Monday, 9th August, 1948. Housing accommodation cannot be guaranteed.

CHAS. J. MINTER,

City Engineer and Architect.

Guildhall, York. 1376
July, 1948.

HIS MAJESTY'S COLONIAL SERVICE.

Applications are invited for the post of **ARCHITECT**, to the Government of British Somaliland. The appointment is on contract for one tour of 12 to 15 months in the first instance, with the prospect of subsequent renewal. Salary is at a flat rate in the scale £450 to £840 per annum, point of entry depending on age, experience and professional qualifications. Salary scales in British Somaliland are at present under revision and are likely to be raised in the near future. A cost-of-living allowance of £72 per annum is payable in addition to the salary, and an outfit allowance of £30 is paid on first appointment. There is no income tax at present in British Somaliland.

Candidates must be Associates of the Institute of British Architects, and should possess at least three years' experience in general architectural practice. The selected officer will be required to undertake the preparation of building schemes, including houses, schools, hospitals, and public offices.

Terms of service include free medical attention, and free partly furnished quarters are provided, if available, or an allowance is paid in lieu. The selected officer may, however, be required to live in tentage until permanent accommodation is available and, if married, should not be accompanied by his wife during his first tour. Free first-class passages are provided for the officer's wife and family on subsequent tours. Home leave at the rate of seven days per month is normally granted after tours of 12 to 15 months, and a gratuity of £25 for each period of three months resident service is paid on satisfactory completion of the contract.

Applicants should write at once to the Director of Recruitment (Colonial Service), Sanctuary Buildings, Great Smith Street, London, S.W.1, stating age, experience, and professional qualifications. 1399

WELSH REGIONAL HOSPITAL BOARD.

CARDIFF.

Applications are invited from Fellows or Associates of the Royal Institute of British Architects for appointment as **ARCHITECT** to the Board, on a salary of £1,350, in the scale £1,350 × £50—£1,550. The successful applicant will be required to advise the Board on architectural matters relating to hospitals, and to carry out such other professional and administrative duties as may be assigned to him from time to time. Applicants should have had considerable experience of architectural practice, especially in relation to hospital work. The appointment will be subject to the National Health Service (Superannuation) Regulations, 1947, and will be terminable by three months' notice on either side. The successful applicant will be required to devote the whole of his time to the duties of his office. Applications, containing a brief statement of age, qualifications and experience, and accompanied by the names of three referees, should reach the Secretary, Welsh Regional Hospital Board, The Temple of Peace and Health, Cathays Park, Cardiff, not later than 16th August, 1948. 1407

NORTHERN REGIONAL HOSPITAL BOARD

(SCOTLAND).

Applications are invited for the post of **ARCHITECT** to the above Board.

Candidates, who should be not more than 45 years of age, must possess a recognized qualification in architecture.

The salary will be at the rate of £750 × £30 to £1,000 per annum. The post is a superannuated one in terms of the National Health Service (Scotland) (Superannuation) Regulations, 1948, and the successful candidate will be required to pass a medical examination.

The post will be terminable by three months' notice on either side.

Schedules of application can be obtained from the undersigned and should be submitted to him, together with the names of three referees, not later than Tuesday, 31st August, 1948.

A. M. FRASER, M.D.

Secretary and Administrative Medical Officer

Raigmore Hospital, Inverness. 1404

COUNTY COUNCIL OF THE COUNTY OF STIRLING.

**COUNTY ARCHITECT'S DEPARTMENT.
QUANTITY SURVEYOR, in the County Architect's Department.**

The scale of salary will be J.I.C. Scale for A.P.T., Grade Va, £490-£550 per annum, plus cost-of-living bonus. Applicants should be Members of the Royal Institute of Chartered Surveyors, and should have had wide experience in the preparation of estimates, specifications, and schedules of quantities, measuring up, and the adjustment of final accounts.

The appointment will be subject to the J.I.C. Scheme of Salaries and Conditions of Service, and the successful applicant will require to undergo a medical examination for admission to the Superannuation Scheme.

Applications, with copies of not more than three recent testimonials, should be sent to the County Clerk at the undersigned address within fourteen days from the date of this advertisement.

GEORGE J. SHERRIFF,

County Clerk.

County Offices, Viewforth, Stirling. 1403
23rd July, 1948.

COUNTY BOROUGH OF GATESHEAD.

(a) **ONE SENIOR ASSISTANT ARCHITECT**, A.P.T., VI (£595-£660 p.a.).

(b) **FOUR ASSISTANT ARCHITECTS**, A.P.T., IV (£480-£525 p.a.).

(c) **FIVE JUNIOR ARCHITECTURAL ASSISTANTS**, A.P.T., I (£390-£435 p.a.).

Candidates for (a) and (b) must be Registered Architects, and be Corporate Members of the Royal Institute of British Architects. They should have good experience in the design and construction of public buildings, schools and/or Municipal housing schemes.

Candidates for (c) should have had previous experience in an Architect's office, and must have passed the R.I.B.A. Intermediate examination.

(d) **ONE SENIOR ASSISTANT QUANTITY SURVEYOR**, A.P.T., VI (£595-£660 p.a.).

Candidates should be Members of the Royal Institution of Chartered Surveyors, and should be experienced in the preparation of Bills of Quantities, Specifications, Estimates, and the settlement of Final Accounts.

(e) **ONE COSTING AND ESTIMATING CLERK**, A.P.T., IV (£480-£525).

Candidates must have had a wide experience of costing and estimating for large capital and maintenance works, and be able to take control of staff engaged on this work.

(f) **ONE GENERAL CLERK**, General Division (£220 at 21 years to £385 at 39 years).

Candidates for this appointment should have had experience in a Contractor's office, and have a sound knowledge of building terms and general building routine.

The appointments will be subject to the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass medical examinations.

Applications to be made on forms obtainable from the Chief Architect, should be returned, together with copies of three recent testimonials, to H. J. Cook, Esq., A.R.I.B.A., M.I.Struct.E., Chief Architect, Municipal Buildings, Swinburn Street, Gateshead, not later than 31st August, 1948.

J. W. PORTER,

Town Clerk.

Town Hall, Gateshead, 8. 1400

DUNDEE COLLEGE OF ART SCHOOL OF ARCHITECTURE.

The Governors of the Dundee Institute of Art and Technology invite applications for the position of **SENIOR LECTURER AND STUDIO INSTRUCTOR**.

Applicants should be members of the R.I.B.A. and should preferably be holders of a degree or diploma of a recognized School of Architecture. Special experience in Constructional Subjects will be an additional qualification.

Salary scales: Men, £600 by £25 to £750; women, £480 by £20 to £600, with placing according to qualifications and experience. These scales are at present under revision, and the person appointed will benefit by any increase which may be decided upon.

Applications should be lodged as soon as possible, and should be on the prescribed form, copies of which, with full particulars, may be obtained from G. E. Hall, Clerk and Treasurer, Bell Street, Dundee. 20th July, 1948. 1375

NOTTINGHAMSHIRE COUNTY COUNCIL.

APPOINTMENT OF DEPUTY COUNTY DIRECTOR OF PLANNING.

Applications are invited for the above appointment at a consolidated salary of £960 per annum, rising by annual increments of £50 to £1,160 per annum.

Applicants must be Corporate Members of the Town Planning Institute, and preference will be given to those who also hold recognized qualifications in Engineering, Architecture or Surveying. Experience in the preparation of Planning Schemes and of general administrative work with a Local Authority is necessary.

Further details and conditions of the appointment may be obtained from my office, and completed applications should be received by me not later than 6th September, 1948.

K. TWEEDALE MEABY,

Clerk of the County Council.

Shire Hall, Nottingham. 1387

**HARROW URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S
DEPARTMENT.**

Applications are invited for the under-mentioned three appointments in the Department of the Engineer and Surveyor:—

(a) **ARCHITECTURAL ASSISTANTS (TWO).** Grade A.P.T., IV. Salary £490-£525 (plus London weighting). Applicants should have had good experience in the preparation and execution of schemes for Municipal buildings, particularly housing.

(b) **ARCHITECTURAL ASSISTANT (ONE).** Grade A.P.T., IV. Salary £490-£525 (plus London weighting). Applicants should have had sound experience in general architectural work, particularly schools and housing, but the work to be undertaken will be principally concerned with the maintenance, repair, and minor works on these and other Council properties.

Applicants should state clearly for which appointment they are applying.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

The Council is unable to offer any assistance in obtaining housing accommodation for the successful applicants.

Forms of application can be obtained from the undersigned, to whom they should be returned not later than 23rd August, 1948.

H. WELLS,

Clerk of the Council.

Council Offices, Harrow Weald Lodge,
Harrow. 1397

CITY OF OXFORD.**CITY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF DEPUTY CITY
ARCHITECT.**

Applications are invited for the above permanent appointment, at a salary on the scale £937 10s. per annum, rising by annual increments of £25 to £1,037 10s. per annum.

Applicants must be Members of the R.I.B.A. and have had considerable professional experience and also administrative experience in a Local Government Architect's Department. Travelling and subsistence allowances will be paid on the Council's scale, and housing accommodation will be made available, if necessary, by the Council.

The appointment will be subject to the National Conditions of Service and to the provisions of the Local Government Superannuation Act, 1937, to a satisfactory medical examination, and to determination by three months' notice in writing by either side.

Applications should be made on forms to be obtained from E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect, The Town Hall, Oxford, to whom they should be returned not later than Saturday, the 28th August, 1948.

HARRY FLOWMAN,

Town Clerk.

Town Hall, Oxford. 1398

**ROYAL BOROUGH OF KINGSTON-UPON-
THAMES.****BOROUGH SURVEYOR'S DEPARTMENT.
APPOINTMENT OF PLANNING ASSISTANT.**

Applications are invited for the appointment of a Planning Assistant, at a salary in accordance with Grade I of the A.P.T. Division of the National Scale of Salaries, £390, rising by annual increments of £15 to £435, plus London weighting. Candidates must be competent draughtsmen, and have general knowledge and experience of Town Planning work. Preference will be given to those with experience in the service of a Local Authority.

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

Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, to be delivered to the undersigned, endorsed "Planning Assistant," not later than 14th August, 1948.

A. W. FORSDIKE,

Town Clerk.

Guildhall, Kingston-upon-Thames. 1395

**ROYAL BOROUGH OF KINGSTON-UPON-
THAMES.****BOROUGH SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grade III of the A.P.T. Division of the National Scale of Salaries, £460, rising by annual increments of £15 to £495, plus London weighting. Preference will be given to candidates who are Members of the Royal Institute of British Architects.

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

Applications, stating age, qualifications and experience, and accompanied by copies of not more than three recent testimonials, must be sent in a sealed envelope, endorsed "Architectural Assistant," so as to reach the undersigned not later than 14th August, 1948.

A. W. FORSDIKE,

Town Clerk.

Guildhall, Kingston-upon-Thames. 1394

BUCKS COUNTY COUNCIL.

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

ASSISTANT QUANTITY SURVEYOR. Grade VII, £635-£710 p.a.

ASSISTANT ARCHITECT. Grade VII, £635-£710 p.a.

ASSISTANT ARCHITECT. Grade VI, £595-£660 p.a.

JUNIOR ARCHITECTURAL DRAUGHTSMAN. General Division, £135-£285 p.a., according to age.

Travelling and subsistence allowances will be paid on scale incorporated in the National Scheme of Conditions of Service for the time being in force. The appointments are superannuable and subject to medical examination.

Further particulars and form of application may be obtained from the County Architect, County Offices, Aylesbury, to whom applications must be delivered by 16th August, 1948.

GUY R. CROUCH,

Clerk of the County Council.

County Hall, Aylesbury. 1396

Sales by Tender

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

IN THE HEART OF OLD HAMPSTEAD, 16, CHURCH ROW.—Genuine Georgian period residence; 6 bed, 4 dressing, bath, 3 reception, and usual domestic offices; extensive panelling and oak floors; lovely old world gardens over ½ acre; garage and cottage; freehold; sale by auction 6th September. Sole agents, Goldschmidt & Howland, 15, Heath Street, Hampstead, N.W.3. Tel.: HAM. 4404 (6 lines). 1406

Partnerships and Financial

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

F. R.I.B.A., Dip. Arch. Dist. (Liverpool). Dip. T.P., requires Partnership or Purchase of Practice; any area considered, except London. Box 1381.

A. R.I.B.A., aged 30, with good experience. seeks Partnership, or position with view to this, in London area. Box 1392.

Competitions

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

IF YOU MUST PUT YOUR CARDS ON THE TABLE... design it yourself. Palatial National Furniture Design Competition. Now open. 500 gns. in prizes for Amateur and Professional Designers. Entry forms and details from Palatial, Ltd., 616, Old Ford Road, London, E.3. 1372

Architectural Appointments Vacant

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

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 1297.

ARCHITECTURAL ASSISTANTS required in Offices at Tavistock, Newton Abbott, and Plymouth; applicants should have reached at least R.I.B.A. Intermediate standard, and be capable of working with a minimum of supervision; salary according to experience and qualifications. Reply to L. F. Vanstone & Partners, Chartered Architects, Surveyors, National Provincial Bank Chambers, Tavistock. 1263

SURVEYOR'S ASSISTANT for London Company; war damage claims, dilapidations, and priced schedules of disrepair; age 25-35; state qualifications, salary and experience. Box 1276.

ASSISTANT ARCHITECT required by large industrial concern operating in the Middle East; applicants should be Associate Members of the Royal Institute of British Architects, and not more than 35 years of age; must be able to prepare sketches for major and minor works, including housing, and be able to develop these sketches to working drawings for minor works, and possibly to a lesser degree for major works; should also be capable of preparing ¼ in. details from architect's drawings, and be able to design and develop layouts for housing and other schemes; attractive salary, plus generous allowance in local currency; free passage out and home, medical attention, and kit allowance. Apply, stating age and full details of qualifications and experience (no specimens at this stage), quoting Department F.12, to Box 1319, at 191, Gresham House, E.C.2. 1291

SENIOR ASSISTANT ARCHITECT required in West End office, with at least 10 years' office experience; capable of preparing sketch plans, site surveys, details, for large scale conversions, new housing, farm buildings, etc.; state age, qualifications, experience, and training; commencing salary £700. Box 1318.

SENIOR ARCHITECT'S ASSISTANT required in busy West End office; must be a good draughtsman, have sound knowledge of construction, and used to supervision on the job; salary according to ability. Telephone WELbeck 6244, or letter stating experience and salary required, to Box 1309.

ARCHITECT'S ASSISTANT required for Architect's Department of large multiple Firm in North London; experience in alteration of existing buildings, dilapidations, and shop front design desirable. Apply, stating age, experience, and salary required, to Box 1308.

ARCHITECT'S ASSISTANT (SENIOR) required, with practical experience, first-class draughtsman, and experienced in war damage work, and able to prepare specifications for domestic and industrial work; able to commence 1st September; reply, with full particulars, salary required, etc.; W.C.2 district. Box 1339.

M.R. LAWRENCE BOND requires a young ASSISTANT, who is interested in churches, and a good draughtsman, to specialize in church work, at 11, Elmer Street, Grantham. 1354

ARCHITECTURAL ASSISTANT; capable standard; previous office experience desirable; salary according to qualifications.—HUGH ROBERTS & DAVIES, F./A.R.I.B.A., 7, Brock Street, The Circus, Bath. 1361

ARCHITECT'S ASSISTANT, capable of preparing surveys, details, and specifications, required for general Country practice; knowledge of housing procedure an advantage; give full details, training, age, experience, etc.; good opportunity for a keen young man. Apply Edwin H. Earp, L.R.I.B.A., Stratford-on-Avon. 1368

DRAUGHTSMAN.—Progressive position offered by well-known S.W. London specialists; thorough knowledge of building construction essential, and experience of reinforced concrete an advantage; five-day week; write full particulars. Box 1368.

ARCHITECT'S ASSISTANT, Intermediate standard, required immediately in rapidly developing architectural department; state training, qualifications, experience, and salary required, to Marcus Leaver & Company, 46, Brook Street, London, W.1. 1384

SENIOR ASSISTANT ARCHITECT required in the Staff Architects' Department of a large West Riding Multiple concern; salary £500 p.a. Write, stating age and experience, with copies of testimonials, to Box 1386.

ARCHITECTURAL ASSISTANT. R.I.B.A. Intermediate or higher standard, required at once; Birmingham office; hospital experience desirable; salary by arrangement. Box 1402.

SENIOR ARCHITECTURAL ASSISTANT required by Dublin City Office, Eire; must have 15 to 20 years' experience, expert knowledge of working drawings, etc., and knowledge of hospital work; salary £750 to £1,000, according to experience. Also TWO SENIORS required; expert knowledge of working drawings; salary £500 p.a. Box 1393.

JUNIOR ARCHITECTURAL DRAUGHTSMAN or ASSISTANT required; surveys, working drawings; country practice. Levitt, Biggleswade. 1401

QUALIFIED QUANTITY SURVEYING ASSISTANT required immediately in busy Architects' office; wide variety of work, including housing schemes; young man preferred. Write, stating qualifications, experience, age, and salary required. Rudd & Wilkinson, F./L.R.I.B.A., Long Causeway Chambers, Peterborough. 1405

Architectural Appointments Wanted

QUALIFIED SENIOR QUANTITY SURVEYOR desires change; good draughtsman, keen estimator, taking off, abstracting, and final bills and final accounts; would like to take up appointment where housing accommodation can be found for family; age 31 years; keen worker; please write, stating salary, etc. Box 144.

REGISTERED ARCHITECT, fully qualified (37), seeks full-time or part-time employment; London area; experienced draughtsman. Apply Box 145.

ASSISTANT, 10 years' experience in housing and industrial work, taking special final in December, requires appointment in progressive office. Box 149.

A.R.I.B.A., A.A. Diploma (38), 15 years' wide experience, offers temporary assistance; to start immediately. Sloan 7969. 148

JUNIOR ARCHITECTURAL ASSISTANT, 4 years' experience with private architects, requires position in Middlesbrough area. Box 150.

ARCHITECTURAL ASSISTANT (Female), age 21, Inter. R.I.B.A., 4 years' office experience, requires post in S.W. London; salary £300 per annum. Apply Box 151.

ARCHITECT'S SENIOR ASSISTANT requires responsible post; Exeter or South-East Devon preferred; accustomed to handling work with minimum supervision. Box 153.

SENIOR ASSISTANT (34), capable designer, experienced office administration, seeks responsible progressive appointment; preferably London or Southern England; salary £650. Box 153.

Other Appointments Vacant

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

TAKER-OFF required to take charge of branch office of London Chartered Quantity Surveyor in Dorset. Reply, stating age, experience, and salary required, to Box 1255.

SECRETARY, Book-keeper, required in Architect's office, Westminster; full or part-time. Apply, stating experience and salary required. A.L.A., 6, Buckingham Place, S.W.1. 1370

Services Offered

4 lines or under, 2s. 6d.; each additional line, 1s.

GENTLEMAN, with extensive experience in the Building Industry, and very large personal connection with Architects, Surveyors and Local Authorities, seeks appointment with progressive company desiring experienced representation. Box 54.

PERSPECTIVES—Water colour or line; professional; terms moderate. Write "New Services," 85, Heath Street, Birmingham. 18. 1079

3RD Year STUDENT will undertake Tracing Work at home during vac.; 3s. per hour; interviews in London possible. Write Box 1353.

CHARTERED ARCHITECT (age 36), at present in private practice on own account, requires responsible appointment at home or abroad; wide and varied experience, including industrial, agricultural, housing and licensed premises. Reply, stating salary offered and terms of appointment. Box 1362.

To Let

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

TWO 2nd floor Unfurnished Rooms to Let as Offices; Georgian house, Westminster; outer room 12½ ft. by 13½ ft., inner room 8½ ft. by 9 ft.; rent, £2 10s. per week. Box 1383.

For Sale

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

ARCHITECT'S Planned Information Sheets, 1 to 947, etc.; with Information Book of Burnett, Tait, and Lorne; 9 vols. in all, 5 spiral binding, 4 clip, as new; offers. Jerrett, 2, Grasmere Avenue, Middlesbrough. 1408

Miscellaneous

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

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of fencing, guard rail, factory partitions and gates. Harvest Works, 99, 107, 84, Pauls Road, N.1. Canonbury 2061.

OFFICE space wanted by Architect; West End or central area preferred; 200 to 400 sq. ft.; could share telephone. Box 1319.

SPECIFICATIONS, BILLS OF QUANTITIES, etc.—General Duplicating or Typing. Nothing too large or too small. Prompt, efficient service by experienced staff at reasonable charges. Copycraft, Ltd., 3, Broad Street Buildings, Liverpool Street, E.C.2 Bishopsgate 9100, 9199

ARCHITECTURAL Photography by PETER PITT, Specialist (and engineer). Utmost detail and pictorial presentation. I.B.P. scale of charges. 7, Inglemere Road, London, S.E.23. FOR. 8324. 1266

ARCHITECTURAL SCALE MODELS from drawings, sketches and photos; also unexpensive simplified Models for experimental purposes promptly executed. Apply 1, Colet Gardens, W.14. Tel.: RIV. 6206. 1343

FENCING FOR ALL PURPOSES—Supplied and erected; established 100 years. Parker, Winder & Achurch, Ltd., 20, Broad Street, Birmingham, 1.

HEAVY Metal Windowframes for Factories, etc., to your dimensions; ½ in. thick web, ½ in. wide flanges; prompt delivery.—Production Promotion, 94, Camden Road, N.W.1. GULLiver 1255. 1369

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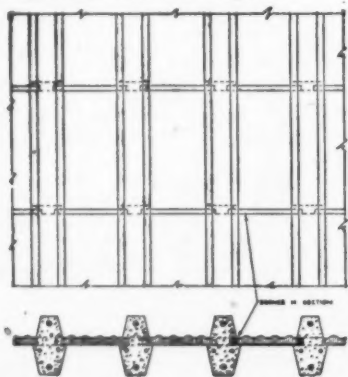
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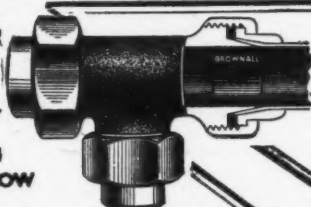
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	PAGE		PAGE		PAGE
Accrington Brick & Tile Co., Ltd.	ii	Evered & Co.	xiv	Moler Products, Ltd.	xxxviii
Allied Guild	ii	Excel Asphalt Co., Ltd.	liii	Monk Metal Windows, Ltd.	xxxvii
Anderson Construction Co., Ltd.	vi	Ferodo, Ltd.	xxix	Negus, W. & M., Ltd.	xxvi
Architects' Benevolent Society	xlvi	Finch, B. & Co., Ltd.	viii	Newalls Insulation Co., Ltd.	xlii
Austin-Hall Group of Companies, The	—	Fothergill & Harvey, Ltd.	vii	Nobles & Hoare, Ltd.	—
Automatic Telephone & Electric Co., Ltd.	xi	Franki Compressed Pile Co., Ltd.	—	North British Chemicals, Ltd.	—
Banister, Walton & Co., Ltd.	—	Frays (Engineers), Ltd.	xxxix	Paragon Glazing Co., Ltd.	—
Bath Cabinet Makers & Artcrafts, Ltd.	—	French, Thomas, & Sons, Ltd.	—	Peglers, Ltd.	xlii
Birmid Rain-Water Goods	xix	Gaskell & Chambers, Ltd.	xi	Pickerings, Ltd.	iv
Blackburn, Thomas, & Sons, Ltd.	—	Girtings Ferro-Concrete Co., Ltd.	—	Philips Amplifiers	xxxvi
Booth & Sons (Bolton), Ltd., John	—	Griffiths Bros. & Co., Ltd.	—	Pilkington Bros., Ltd.	—
Bone, Connell & Co., Ltd.	—	Gynco Products, Ltd.	xvi	Pritchett & Gold & E.P.S. Co., Ltd.	—
Boulton & Paul, Ltd.	xxxlii	Hall, J. & E., Ltd.	xlii	Prodorite, Ltd.	xliii
Howat's Building Boards, Ltd.	—	Hall, John, & Sons	liii	Pynford, Ltd.	—
Box, C. W., F.R.I.B.A.	ii	Hamnill Brick Co., Ltd., The	—	Radiation, Ltd.	—
Brathwaite & Co., Engineers, Ltd.	—	Harper, John, & Co., Ltd.	xviii	Ruberoil Co., Ltd.	xxxviii
Briggs, William, & Sons, Ltd.	xi	Harvey, G. A. & Co. (London), Ltd.	iii	Rubery, Owen & Co., Ltd.	—
Brightside Foundry & Engineering Co., Ltd., The	xxxviii	Henderson Safety Tank Co., Ltd.	—	Sadler, Thomas, Sons & Co.	—
British Gas Council	—	Hicksons Impregnation Co.	xliv	Santon, Ltd.	—
British Industries Fair	—	Holophane, Ltd.	—	Scaffolding (Great Britain), Ltd.	xxxiv
British Ironfounders' Association	xv	Hope, Henry, & Sons, Ltd.	xxxii	Sealcrete Products, Ltd.	xli
British Mouldex Rubber Co., Ltd.	—	Hopton-Wood Stone Firms, Ltd.	—	Secomastic, Ltd.	—
British National Electrics, Ltd.	—	Huntley & Sparks, Ltd.	xxxviii	Semtex, Ltd.	—
British Trane Co., Ltd.	—	Imperial Chemical Industries, Ltd.	—	Service Electric Co., Ltd.	—
Brown, Donald (Brownall), Ltd.	ii	International Correspondence Schools, Ltd.	ii	Shaffer, James, Ltd.	xiv
Bryce White & Co., Ltd.	liii	Johnson & Phillips, Ltd.	x	Sharman, R. W., Ltd.	ii
Cable Makers' Association	—	Key Engineering Co., Ltd.	xliv	Simplex Electric Co., Ltd.	—
Carlisle Electrical Manufacturing Co., Ltd.	—	King, George W., Ltd.	—	Smith & Pearson, Ltd.	—
Carlton Metal Mouldings Co., Ltd.	—	King, J. A. & Co., Ltd.	—	Southern Lime Association, The	ii
Carter & Co.	xxiv	Kingfisher, Ltd.	xxii	Southern & Midland Plastering, Ltd.	—
Cattle, R., Ltd.	xxxv	Laing, John, & Son, Ltd.	liv	Spiral Tube & Components Co., Ltd.	—
Cement Marketing Co., Ltd.	xii	Leatherford, Ltd.	iii	Spooners	xli
Central Distributing Co., Ltd.	—	Leaderflush, Ltd.	—	Stent Precast Concrete Co., Ltd.	—
Chloride Electrical Storage Co., Ltd., The	—	Lead Industries Development Council	—	Sundeala Board Co., Ltd.	xliii
Clark & Eaton, James, Ltd.	—	Legrand, Sutcliffe & Gell, Ltd.	liii	Temple Varnish Co., Ltd.	xliiv
Colt, W. H. (London), Ltd.	—	Linealux, Ltd.	xlv	Thompson Beacon Windows, Ltd., John	—
Copper Development Association	—	London Sand Blast Decorative Glass Works, Ltd., The	—	Thornborough & Sons (Manchester), Ltd.	—
Crittall Manufacturing Co., Ltd.	—	Lysaght, John, Ltd.	xx	Tilyard Tiles, Ltd.	ii
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Dorman Long	xxx	Marley Tile Co., Ltd.	xxi	True-Flue, Ltd.	—
Dunlop Rubber Co., Ltd.	ix	Matthews & Yates, Ltd.	xiv	Trussed Concrete Steel Co., Ltd., The	xxv
Durable Asphalt Co., Ltd.	xxxvii	Mavitta Drafting Machines, Ltd.	xxxix	Turners Asbestos Cement Co., Ltd.	—
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Econa Modern Products, Ltd.	xxxix	Merchant Adventurers, Ltd.	xxxvi	United Steel Companies, Ltd., The	—
Edgar, Wm., & Son, Ltd.	—	Metallic Seamless Tube Co., Ltd.	xvii	Universal Asbestos Manufacturing Co., Ltd., The	xxxvi
Efril Sales Organisation, The	—	Metropolitan-Vickers Electric Co., Ltd.	—	Wadsorth, Wm., & Sons, Ltd.	—
Etchells, Congdon & Muir, Ltd.	xv	Michelin Tyre Co., Ltd.	xxxv	Wardle Engineering Co., Ltd., The	v
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English Joinery Manufacturers' Assoc.	—	Mills Scaffold Co., Ltd.	ii	Wood Wool Building Slab Manufacturers' Association	—
		Ministry of Works	ii	Zinc Alloy Rustproofing Co., Ltd.	iii

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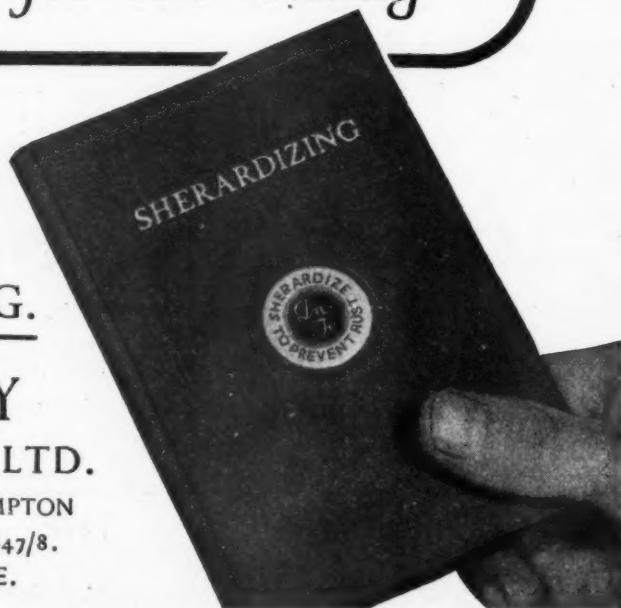
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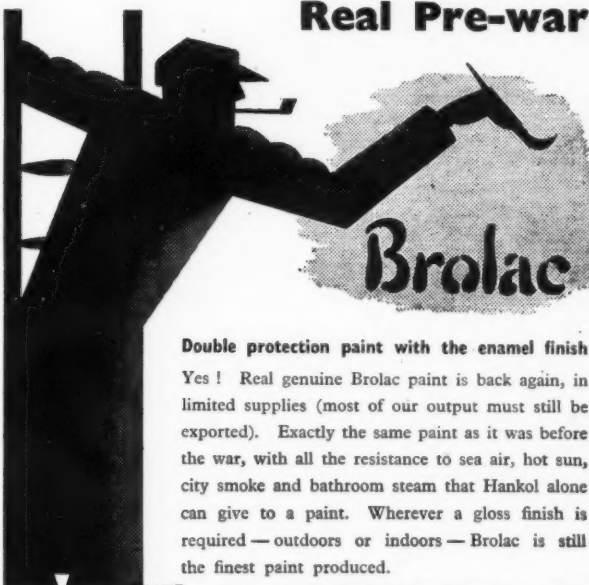
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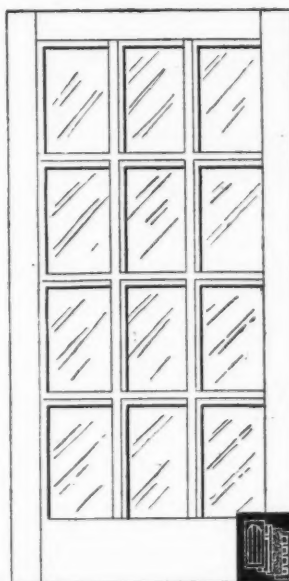
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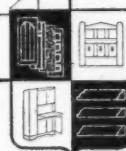
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