THE ARCHITE COST 'S'S'



standard contents

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

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

mentioned	the word Dorvidor is implicit in the address,		
AA AAI	Architectural Association, 34/6, Bedford Square, W.C.1. Association of Art Institutions. Secy.: W. Marlborough Whitehead	Museum 0974 i, "Dyneley,"	
ABS	Castle Hill Avenue, Berkhampstead, Herts. 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. 9, Belgrave Square, S.W.1.	Sloane 0421	
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8	
APRR	Association for Planning and Regional Reconstruction. 34, Gordon		
ArchSA	Architectural Students' Association. School of Architecture, Manci		
ARCUK	Municipal School of Art, All Saints, Manchester, 14 Architects' Registration Council. 68, Portland Place, W.1.	Ardwick 3480 Welbeck 9738	
ASB	Architectural Science Board of the Royal Institute of British Archite		
	66, Portland Place, W.1.		
ASW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly	y, W.1.	
BAE BATC	Board of Architectural Education. 66, Portland Place, W.1. Building Apprenticeship and Training Council. Lambeth Bridge H	Grosvenor 4761 Welbeck 5721 ouse, S.E.1.	
BC	Building Centre. 9, Conduit Street, W.1.	7611, Ext. 1706 Mayfair 2128	
BCC	British Colour Council. 28, Sackville Street, W.1.	Regent 3613	
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13		
	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.		
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	BIA British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. Glasgow Central 2891		
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.		
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	British Steelwork Association. Eggington House, Buckingham Gat		
BSA	Building Societies Association 14, Park Street, W.1.	Victoria 7301-2-3 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.	Actory 3333	
CAS	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	Copper Development Association. Kendals Hall, Radlett, Herts. Central Institute of Arts and Design. C/o National Gallery, W.C.	2.	
CIAM	Congres Internationaux d'Architectures Modernes. Doldertal, 7. Zu	wnitenali 2415	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.		
CPC			
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 7070	
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S		
CUJC	Coal Utilization Joint Council. 54, Victoria Street, S.W.1.	Victoria 9851	
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		Temple Bar 7565	
EJMA			
EJMIA	English Joinery Manufacturers Association (Incorporated). Sackvi	.1. Regent 4448	
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	ii. Itogoni Tito	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns	. S.W.1.	
		Sloane 2837	
FASSC	Federation of Association of Specialists and Sub Contractors.		
FBI	21, Tothill Street, S.W.1.		
	21, Tothill Street, S.W.1. Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 9606 Whitehall 6711	
FC	21, Tothill Street, S.W.1. Federation of British Industries. 21, Tothill Street, S.W.1. Forestry Commission. 25, Savile Row, W.1.	Whitehall 6711	
FC FCMI	21, Tothill Street, S.W.1. Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711	
	21, Tothill Street, S.W.1. Federation of British Industries. 21, Tothill Street, S.W.1. Forestry Commission. 25, Savile Row, W.1.	Whitehall 6711 W.1. Sloane 1002 I, Nottingham.	
FCMI	21, Tothill Street, S.W.1. Federation of British Industries. 21, Tothill Street, S.W.1. Forestry Commission. 25, Savile Row, W.1. Federation of Coated Macadam Industries. 37, Chester Square, S.	W.1. Sloane 1002 Il, Nottingham. Ilkeston 623/4/5 ancs.	
FCMI FDMA	21, Tothill Street, S.W.1. Federation of British Industries. 21, Tothill Street, S.W.1. Forestry Commission. 25, Savile Row, W.1. Federation of Coated Macadam Industries. 37, Chester Square, S Flush Door Manufacturers Association. Stapleford Road, Trowel	Whitehall 6711 .W.1. Sloane 1002 l, Nottingham. Ilkeston 623/4/5 .ancs. Ulverston 201 et, N.1.	
FCMI FDMA FLD	21, Tothill Street, S.W.1. Federation of British Industries. 21, Tothill Street, S.W.1. Forestry Commission. 25, Savile Row, W.1. Federation of Coated Macadam Industries. 37, Chester Square, S Flush Door Manufacturers Association. Stapleford Road, Trowel Friends of the Lake District. Pennington House, Nr. Ulverston, I	Whitehall 6711 W.1. Sloane 1002 l, Nottingham. Ilkeston 623/4/5 anes. Ulverston 201 et, N.1. Canonbury 2041	

FS (Eng.) Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.

Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.

Georgian Group. 27, Grosvenor Place, S.W.1.

Sloane 2837

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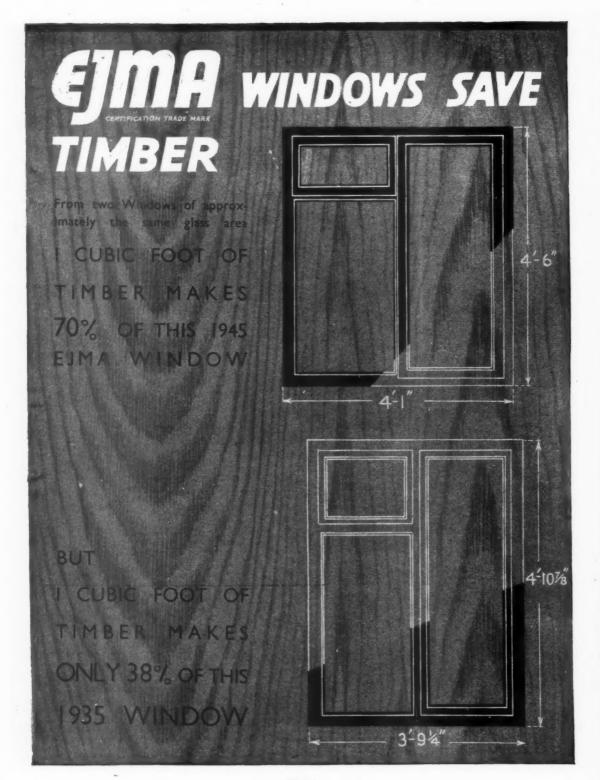
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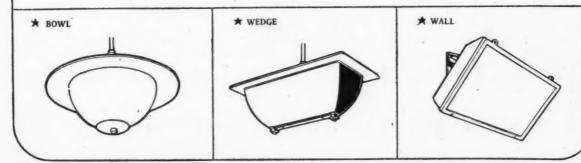
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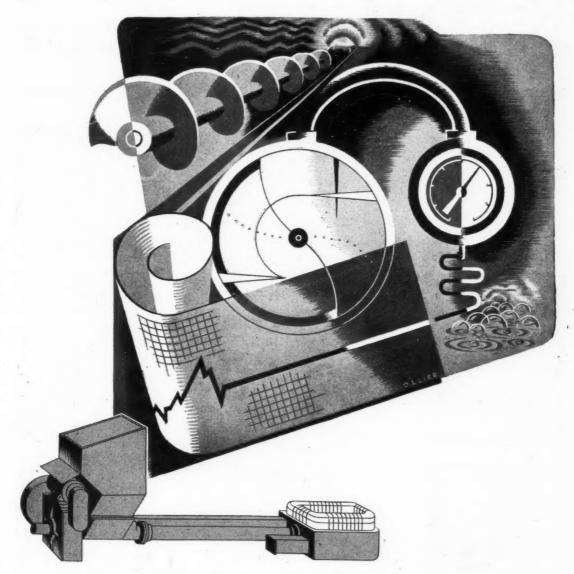
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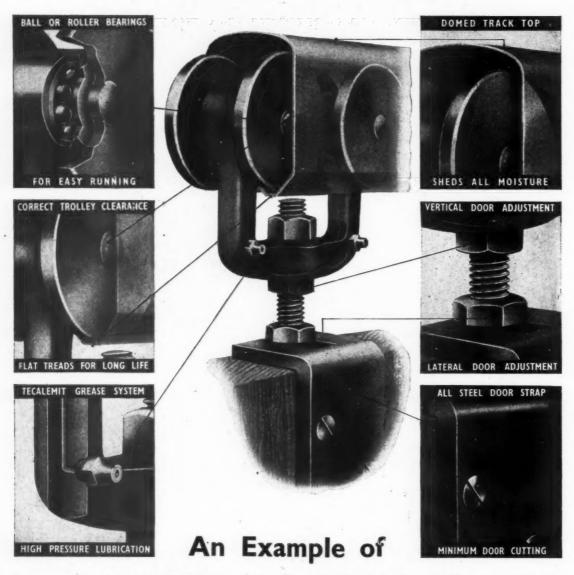
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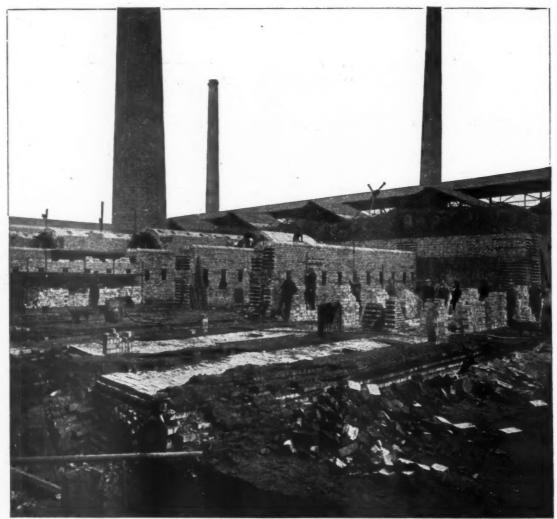


OUR DAILY BREAD

N this time of rationing prayers for our daily I bread acquire a new intensity. We are reminded more acutely than before of our dependence on a Higher Power for our loaves and cakes, our pearl barley, our breakfast porridge and cereals. We recognise more readily too the debt we owe to the farmers and farmworkers who grow the corn at home and the merchant seamen who bring it from overseas. It does not occur to us that to the chemist is due his meed of praise. Yet housewives as well as bakers can see his contribution in baking powder and bicarbonate of soda, and grain merchants in the fumigants used to protect stored flour or grain from insect pests. These are small things in comparison with what the chemist has done to enable the grower to harvest every ounce from every acre. To ensure healthy crops,

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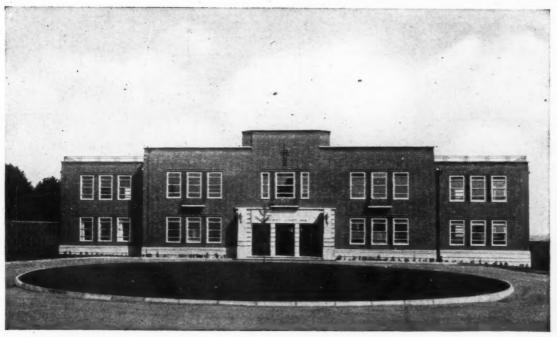
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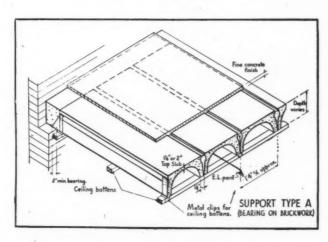
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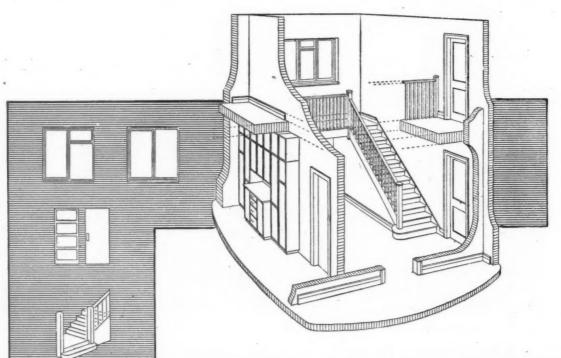
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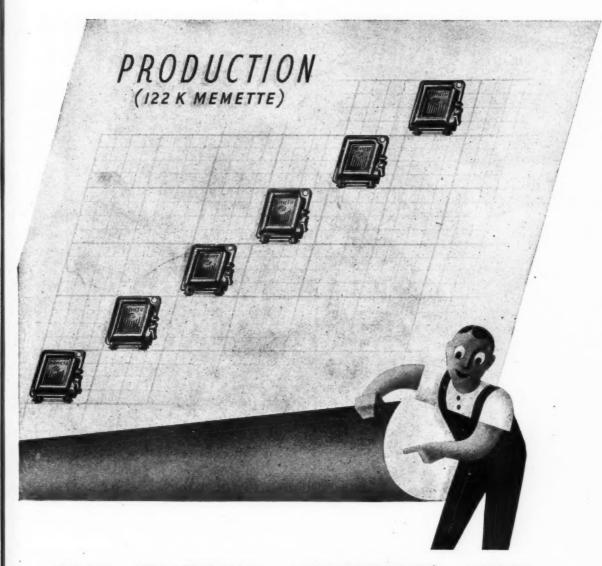
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A Counties householders are facing similar adversities at home. Pipes have frozen. They have also, of course, burst, and this further affliction will manifest itself with the thaw. In the great majority of houses the cold holds undisputed sway in every room except one, into which the family holde like Eskimos in their igloo.

like Eskimos in their igloo.

A The astounding fact about all these discomforts is that, while they are accepted as part of the natural arder by a part of the natural arder by unnecessary. In many parts of the world, notably in the United States, the temperature ranges between far greater extremes of cold and heat. Methods have consequently been evolved not only to safeguard water supplies in summer and to keep vital roads and railways clear in winter, but to maintain warm and even house temperatures throughout the year.

why modern spaceheating, in public for so long remains
a mystery. Certainly fuel
public for so long remains
a mystery. Certainly fuel
conomy is not the reason,
for a departmental report on
Domestic Heating in
America" states that houses
in Portland are heated by
about 4i tons of coal a year.
"This is not very different
from the quantity used in
Britain, but instead of heating a small part of the house
for part of the day only to a
temperature of about 65
degrees F. the houses will
almost all have been heated
to over 79 degrees F.
throughout the entire house
for 24 hours of the day."

A Mr. Bevan for the first tupe set a target of 300,000 houses in 1947. This building should not proceed on the unwarranted but hitherto inevadicable assumption that Britain enjoys an equable climate. Modern devices should be installed to make the home a place of comfort in the extremes of winter and summer alike. The ages of ice, drought and flood should assume their proper place in fas-off history.

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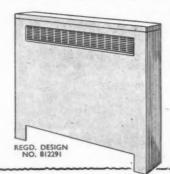
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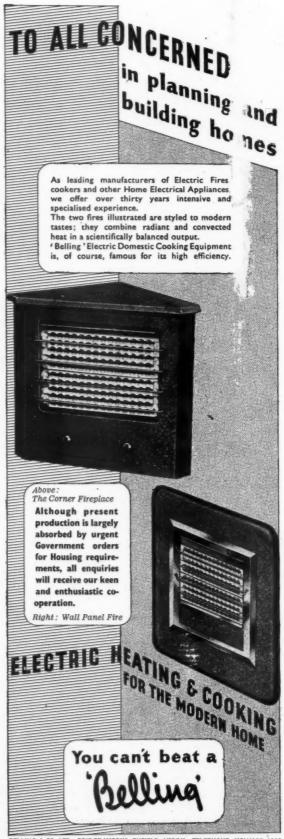
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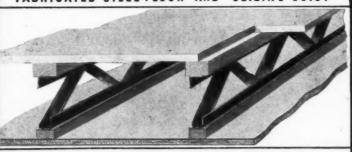


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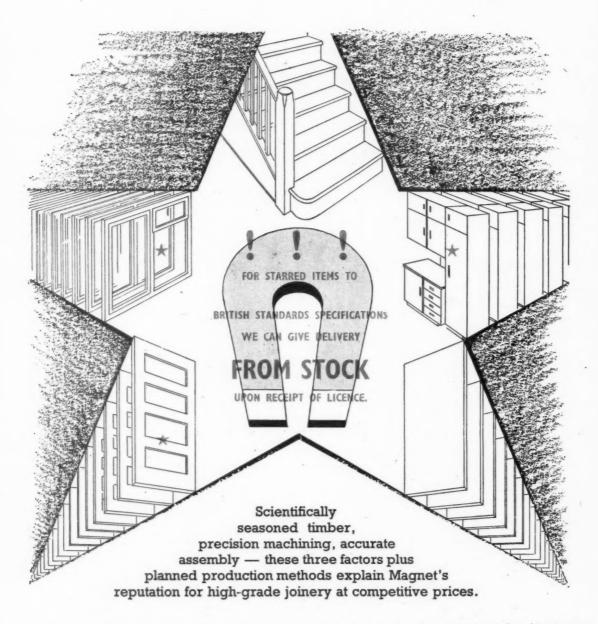


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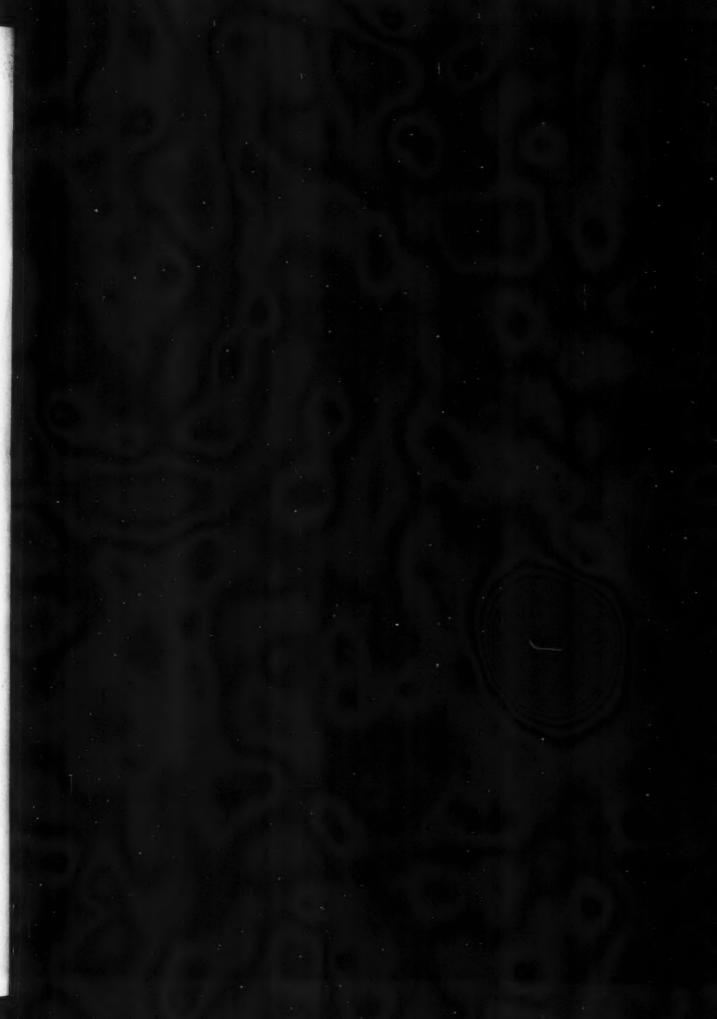
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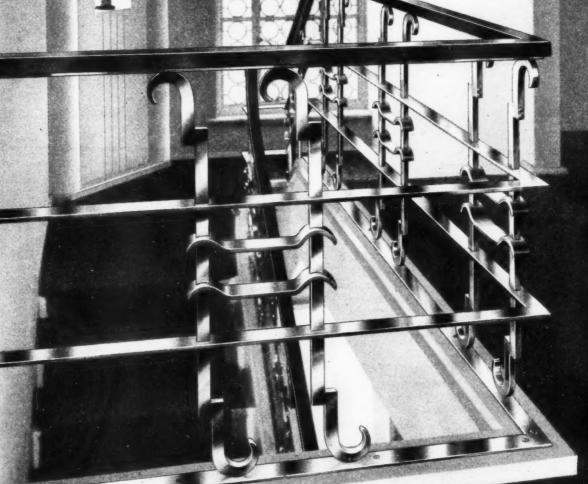
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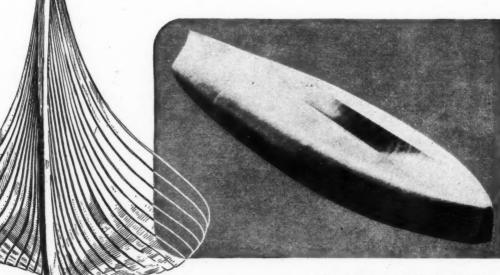
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A long journey has been travelled in the past thousand years. Solid timber in scantling, board or plank still remains the basis of all timber using, but man's mind has since evolved countless new ways of using it which were undreamt of by our forebears.



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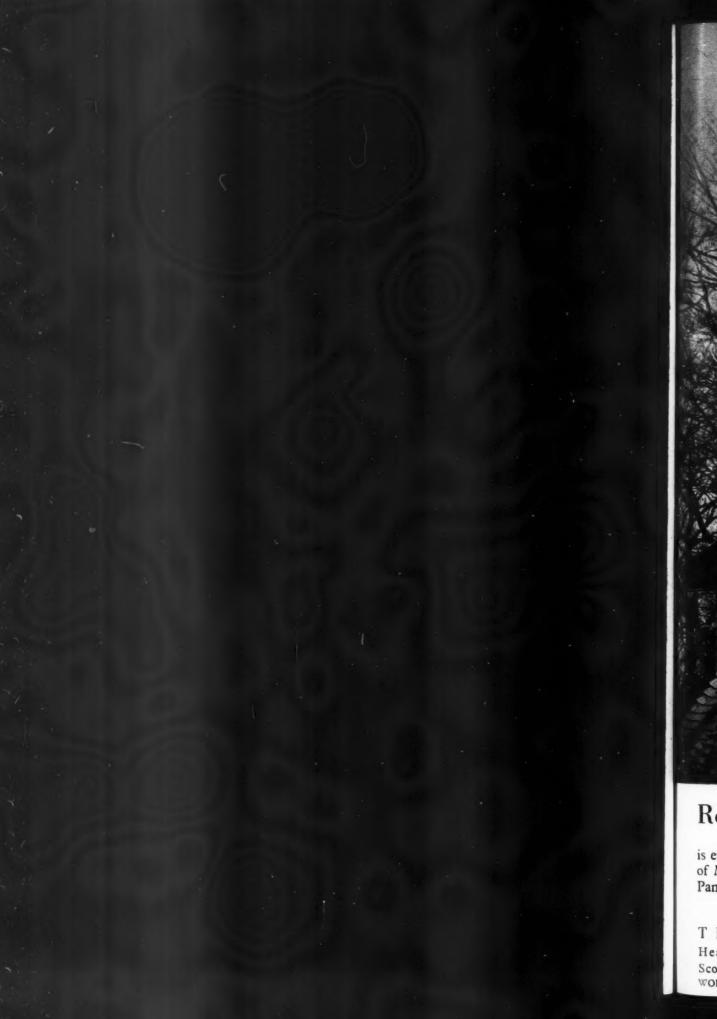
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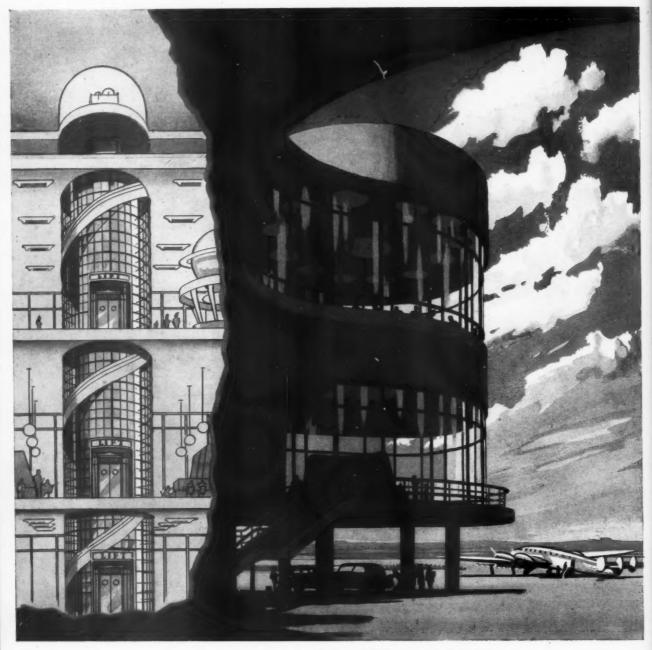


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In common with every other periodical this JOURNAL is rationed to a small part of its prewar needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order." Subscription rates: by post in the



order." Subscription rates: by post in the U.K. or abroad, £1 155. 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. Goods advertised in the Journal and made of raw material now in short supply, are not necessarily available for export.

DIARY FOR APRIL MAY AND JUNE

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

A SCOT. Building and Allied Trades Golfing Association: Spring Meeting. At the Berkshire Golf Club, on Tuesday, April 29. Singles (Medal Play) competition in the morning, which will also be the qualifying round for the Dyke Cup; Fourball Foursomes competition in the afternoon. Those wishing to attend are asked to communicate with Hubert H. Hill, Monument Station Buildings, King William Street, E.C.4, as early as possible and not later than April 17.

CUPAR. Industrial and Planning Exhibition. At the County Buildings, Cupar, Fife. The exhibition shows existing industries in Fife and samples of their manufactured products, together with evidence of the suitability of Fife for extension of industrial undertakings. Mondays to Fridays, 10 a.m. to 4.30 p.m., Saturdays, 9 a.m. to 12 noon. Until April 17

LONDON. Steel Door Frames. Exhibition at Henry Hope and Sons, Ltd., 17, Berners Street, W.1. The object of the exhibition is to overcome any practical difficulties that architects may foresee or experience in fitting steel door frames to the various types of walls and floors in use to-day. (Sponsor, Henry Hope and Sons, Ltd.)

Daily Herald Modern Homes Exhibition. At Dorland Hall, Regent Street, S.W.I. (Sponsor, Daily Herald.) Until MAY

I. J. O'Hea. Canadian Red Cedar Shingles. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) 12.45 p.m. Buffet lunch, 2s. 6d., 1.15 p.m. Talk and discussion. APRIL 22

Brawings of English Parks and Gardens by Gregorio Prieto. At the Batsford Gallery, 15, North Audley Street, W.1. (Sponsor, B. T. Batsford, Ltd.) 10 a.m. to 5.30 p.m.; Saturdays, 10 a.m. to 12.30 p.m. Until APRIL 23

Miss Caroline Haslett, Director, Electrical Association for Women. Electricity in the Home. At the Royal Society of Arts, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 5 p.m.

G. Hitchings, member of Council of the Amalgamated Engineering Union and of the recent AEU delegation to USSR. An Engineer looks at the USSR. An address to members of the SCR Architecture and Planning Group and their guests, at the RIBA 66, Portland Place, W.1. Sir Charles Reilly will preside. Admission by ticket (members of the Group free of charge, others 1s.),

obtainable from the SCR, 98, Gower Street, London, W.C.1. 7 p.m. APRIL 29

E. J. B. Lloyd. Director and Secretary, Lewis's Investment Trust, Ltd. Distribution. At the Royal Society of Arts, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 5 p.m. APRIL 30

Professor A. E. Richardson. Architectural Convention and Convenience. Bossom Gift Lecture at University College, London (The Architectural Theatre), Gower Street, W.C.1. The chair will be taken by Frederick R. Hiorns. The lecture will be divided into three parts: (a) Development of sanitation from the earliest times. (b) The influence of sanitation on architecture. (c) The introduction of continuous water supply and subsequent improvements in hygiene. The lecture will deal with the various appliances designed from time to time in England to meet the changing conditions of domestic life: (Sponsor, The Chadwick Trust.) 2.30 p.m. May 1

MANCHESTER. Conference of Local in Lancashire and Cheshire. At the Town Hall. The conference will consider: 1. Housing Group of Subjects.—The general housing situation; the administration of the Housing (Financial and Miscellaneous Provisions) Act, 1946; housing opportunities and progress in rural districts; the design, construction, and equipment of dwellings; survey of housing needs; dwellings for aged persons; the management of council housing estates; and community services on housing estates. 2. Town and Country Planning Group of Subjects.—The Town and Country Planning Bill, 1947; the New Towns Act, 1946; the redevelopment of areas of extensive war damage and areas of bad layout or obsolete development; the preservation of the countryside; and community planning in rural areas. (Sponsor, National Housing and Town Planning Council.) 12.45 p.m.

S HEFFIELD. J. S. Pickles and W. H. Wills. Rural Electrification. The Use of the Single-Phase System of Supply. At the Royal Victoria Station Hotel. (Sponsor, IEE, Sheffield Sub Centre.) 6.15 p.m. APRIL 30

THE HAGUE. Fuel Economy Conference. Particulars from the British National Committee World Power Conference, 201-2, Grand Buildings, Trafalgar Square, London, W.C.2. SEPT. 2-9

WATFORD. Housing Exhibition. At the Town Hall. (Sponsor, Watford Corporation.) Until APRIL 19

NEWS

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

* 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.

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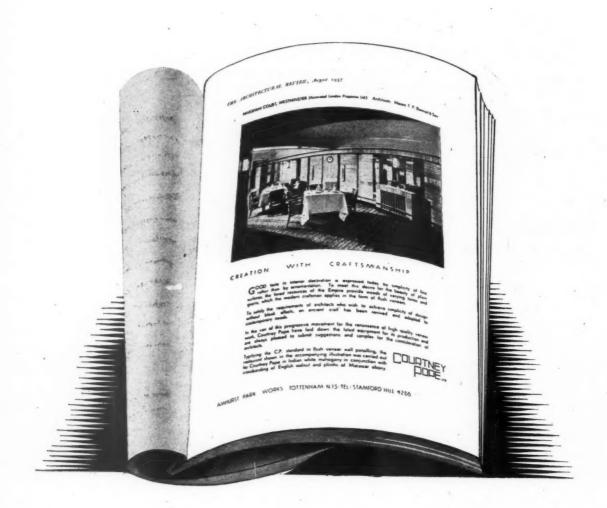
The National Housing and Town Planning Council has arranged a series of eleven REGIONAL CONFERENCES of Local Authorities in England and Wales during the next four months. The Parliamentary Secretary of the Ministry of Health (Mr. John Edwards, M.P.) will speak at the opening conference at the Town Hall, Manchester, on April 22. Other speakers from the Ministries of Health and Town and Country Planning will be at subsequent conferences. Papers by a number of local government representatives will be presented for discussion, including the housing situation, and housing needs, design of dwellings, housing management, the New Towns Act, and the Town and Country Planning Bill. Copies of the full agenda may be obtained from the Council at 41, Russell Square, London, W.C.1. The complete programme is as follows:—Manchester, April 22; Nottingham, April 30; Exeter, May 6; Swansea, May 12; Bath, May 29; Newcastle-upon-Tyne, June 5; Colwyn Bay, June 12; Bradford, June 17; Great Yarmouth, June 23; London, July 17; Birmingham, July 22.

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xxxiv

From AN ARCHITECT'S Commonplace Book

ESTHETIC. [From Towards a New Architecture by Le Corbusier (The Architectural Press).] Our diagnosis is that, to begin at the beginning, the engineer who proceeds by knowledge shows the way and holds the truth. It is that architecture, which is a matter of plastic emotion, should in its own domain BEGIN AT THE BEGINNING ALSO, AND SHOULD USE THOSE ELEMENTS WHICH ARE CAPABLE OF AFFECTING OUR SENSES, AND OF REWARDING THE DESIRE OF OUR EYES, and should dispose them in such a way THAT THE SIGHT OF THEM AFFECTS US IMMEDIATELY by their delicacy or their brutality, their riot or their serenity, their indifference or their interest; these elements are plastic elements, forms which our eyes see clearly and which our mind can measure. These forms, elementary or subtle, tractable or brutal, work physiologically upon our senses (sphere, cube, cylinder, horizontal, vertical, oblique, etc.), and excite them. Being moved, we are able to get beyond the cruder sensations; certain relationships are thus born which work upon our perceptions and put us into a state of satisfaction (in consonance with the laws of the universe which govern us and to which all our acts are subjected), in which man can employ fully his gifts of memory, of analysis, of reasoning and of creation.

Mr. R. A. Butler and Mr. J. B. Priestley are among the members of a committee appointed by Mr. George Tomlinson, the Minister of Education, to consult with him, in the widest possible terms, on all affecting UNESCO. Members of the committee, which will be known as the United Kingdom Committee known as the United Kingdom Committee for UNESCO are: Mr. Tomlinson (Chairman); General Sir Ronald Adam, Chairman, British Council; Dr. W. P. Alexander, secretary, Association of Education Committees; Professor P. M. S. Blackett, University of Manchester; Mr. R. S. Brownell, secretary, Ministry of Education, N. Ireland; Mr. R. A. Butler, M.P.; Mr. R. Gould, general secretary, National Union of Teachers; Mr. D. R. Hardman, Parliamentary Secretary to the Ministry of Education; Dr. W. A. F. Hepburn, F.R.S.E. (Scotland); Sir John P. R. Maud, secretary, Ministry of Education; Dr. H. W. Meikle (Scotland); Sir Philip Morris, Vice-Chancellor, Bristol University; Dr. Margaret Read, Head of the Colonial Department, Institute of Education, University of London; Sir Ernest Pooley, chairman, Arts Institute of Education, University of London; Sir Ernest Pooley, chairman, Arts Council of Great Britain; Mr. J. B. Priestley; Sir Robert Robinson, F.R.S., President, Royal Society; Mr. B. B. Thomas, secretary of Welsh Department, Ministry of Education; Mr. W. E. F. Ward, Colonial Office, with Mr. F. R. Cowell, assistant secretary, Ministry of Education, as secretary. Resides this committee, nine national tary. Besides this committee, nine national co-operating bodies have already been established to cover the various specialized fields of UNESCO's activities. Their main functions are to advise the United Kingdom delegates to the UNESCO conferences and to assist in making known and carrying out projects adopted by UNESCO. Six of these are committees covering education, arts, mass communications, libraries, museums, and social sciences. The remaining three are organisations which have undertaken the functions of co-operating bodies. They are: The Royal Society, for natural sciences; the British Academy, for letters and philosophy; and the RIBA for architecture and plan-

Mr. R. J. Gardner - Medwin, B. Arch., A.R.I.B.A., A.M.T.P.I., has been APPOINTED CHIEF ARCHITECT and Planning Officer to the Department of Health for Scotland.

Mr. Gardner-Medwin, who is 39 years of age, graduated at the School of Architecture, Liverpool University, and subsequently spent two years at Harvard University, USA. After several years in private practice he served with the Royal Engineers from 1940 to 1943, when he was released to become Town Planning and Housing Adviser to the British West Indian Governments. He is now returning to this country to take up his new appointment in Edinburgh. The Department of Health for Scotland also announces the appointment of Mr. John Patterson, A.R.I.B.A.. as Deputy Chief Architect.

The Principal Housing Officers of the Ministry of Health now authorise the release of TIMBER FOR ALL HOUSING WORKS, licensed by local authorities in England and Wales, where the costs exceed £100. Formerly timber licences for such work were issued by the Regional Licensing Officers of the Ministry of Works. This change of procedure follows the recent arrangement whereby local authorities were given the additional responsibility of issuing on behalf of the Ministry of Works building licences for all classes of housing work. Its effect is to make one department—the Ministry

of Health—responsible for the release of timber for all new houses and other major housing projects, whether carried out by the local authority or by private builders under licence from the local authority. The appropriate authorities for the issue of timber licences for the various classes of housing and other licensed building work will, therefore, be:—(a) Area Officer, Timber Control Licensed building work, including housing, costing £100 or less. Work carried out under annual maintenance licence, whatever the cost; (b) Regional Licensing Officer, Ministry of Works. Licensed building work, other than housing, costing over £100—except work covered by annual maintenance licence; (c) Principal Housing Officer, Ministry of Health. All housing work undertaken by local authorities. All housing work licensed by local authorities, where the cost exceeds £100. Applications for timber under (c) above should be submitted direct to the Principal Housing Officer, and should be accompanied by a copy of the relevant building licence. Applications for timber already made to the Regional Licensing Officer, Ministry of Works, will automatically be transferred to the Principal Housing Officer, unless some timber has already been issued against applications in the hands of Regional Licensing Officers on March 22. Applicants should not write to Regional Licensing Officers or Principal Housing Officers to ask whether their applications have been transferred, except where guidance is urgently required.



Good progress is being made with the GWR and London Transport joint scheme, held up during the war, to extend the Central London Railway westward from North Acton to Greenford and Ruislip. Seven new stations of the island platform type, of modern design and layout with a new style of double curved reinforced concrete roof are to be constructed. The new stations will be at Hanger Lane, Perivale—see perspective reproduced above—Greenford, Northolt, South Ruislip and Northolt Junction (to be renamed South Ruislip), Ruislip Gardens and Ruislip and Ickenham (to be renamed West Ruislip). Power will be provided by new electric sub-stations at Brentham, Greenford, Northolt, and Ruislip and extensions to the existing GWR sub-station at Old Oak Common.

Jobs in the Making: Pimlico Housing Scheme

This scheme was won in competition last year by Philip Powell and Hidalgo Moya, and will be carried out for the Westminster City Council on a 32-acre site facing the river in Grosvenor Road. It will be developed in four sections and work on Section I will proceed soon. The four 9-storey blocks in Section I, three of which can be seen in

the model above, will be the first flats to be erected. When complete the scheme will house an estimated population of 5,700, and will contain many communal amenities. The photograph shows part of the model from the northeast looking towards the river. The whole project is more fully described on pages 317-320.

The Resident having having the appearance AG.

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Mr. dent June

The committee of the Stevenage Residents' Protection Association, having taken counsel's opinion, have decided to take to the House of Lords their appeal against the STEVEN-AGE new town scheme.

As announced last week Mr. Howard Robertson has been nominated PRESIDENT FOR THE AA CENTENARY The Architectural Association has The Architectural Association has announced that Mr. Howard Robertson, F.R.I.B.A., S.A.D.G., Honorary Associate of the American Institute of Architects, has been nominated President for the Association's Centenary year, starting on June 1. Well known on the continent of Europe and in America, he has just been appointed on to the UNO Commission which will advise on the building of the new UNO headquarters the building of the new UNO headquarters in New York City, and has recently returned from America. With his partners he has been responsible for a large number of buildings and gave much of his personal energy to the British Pavilions for the International Exhibitions at Brussels and Johannesburg and the New York World Fair. He is also a well-known lecturer and broadcaster is also a well-known lecturer and broadcaster on architectural subjects, and was (Principal of the AA School of Architecture from 1920 to 1935. The AA was founded a hundred years ago by the younger members of the profession to obtain better facilities for architectural education. Today, it claims to possess the largest whole-time architectural school in the Empire, and is training nearly 500 students. Close contact training nearly 500 students. Close contact has always been maintained with architects abroad, through visits of individuals and of organized parties of members and students during summer vacations. When the Association's Centenary is formally celebrated in December, therefore, a large number of delegates is expected, not only from foreign countries but also from the British Empire: the Dominions, which have sent many students to be trained at the School, have over a hundred so qualified now practising as architects.



Mr. Howard Robertson: nominated President of the AA Centenary year starting on June 1. See News Item.

MATERIALS FAMINE IN

THE Board of Trade Journal, in a pleasantly written and disarming note on "Softwood Timber Supplies," has rendered obsolete Mr. Bevan's Housing Programme for 1947. "Experience gained during the war," says the Journal, "suggested that a breakdown of distribution might follow in the late Spring if stock at December 31 fell much below 500,000-550,000 standards. . . On December 31, 1946 [stocks stood] at the dangerously low level of 214,000 standards."

Of course, the Housing Programme, issued in January, took some cognisance of the possibility of a shortage in timber supplies. The amount of soft-wood "in a typical house" was to be reduced from 2.0 standards to 1.6 standards. Even at 1.6 standards per house, and with a substantial programme for prefabrication (say, of 30,000 houses), demands for new housing would have taken 350,000 standards in 1947.

It is now clear that these demands cannot be met. Where, then, is the alternative plan? This crisis, it should be noted, preceded the fuel crisis. What steps have been taken to meet

Added to the timber famine is the brick famine. Stocks are down to 42 per cent. of last year's, and production, after its severe setback in February, is unlikely to recover sufficiently to meet the demands of the programme. Indeed, it is difficult to see on what calculations of brick supplies it was even hoped to carry through the 1947 programme. The "Estimated Production" for 1947 of 5,300 million bricks would barely have sufficed to meet the demands of the housing and other new building planned for this year. Now even this "estimated production" will be all but impossible to attain.

In the first few months of office, Ministers were able to blame all shortages of materials on the alleged incredible lack of

foresight of their predecessors.

Those happy days are over. It is surely pertinent to ask: What has been done in the last eighteen months and what is being done now to meet the materials demands? What is the purpose of a programme if it is not related to the true facts? Just what was done by the planners in 1946? Did anybody work out how much fuel was needed in 1947 for the building materials industries? If so, what was the figure? Did the Ministry of Fuel and Power say that it would be supplied?

To keep the public in complete darkness on these points is to raise the gravest suspicions as to the competence of those who are professed purveyors of programmes and plans. It is quite appalling that as late as April no revision of the building programme has been issued, and no indication given as to how the building industry is to be kept employed when

the dearth of materials makes itself felt.

Planning at the centre needs to be less unwieldy but much more vigorous and alert. When the whole country can see that the 1947 building programme cannot be carried out, it is time that a new plan was in publication. The present building season will otherwise be lost. As things are, it is unlikely that productivity of building labour will be very high this year. Could not some of the planned increase of building labour be switched to the materials, or even fuel, industries? Furthermore, it is high time that detailed plans were published for 1948. It is not good enough to have plans issued in January of the year in which they are to be executed. By that date the planner can do little more than gear his figures to what he thinks production is going to be. If we could look a year ahead, it might be possible to take action to produce the materials to fulfil the programme, instead of having a succession of conditional promises, falsified almost as soon as the Stationery Office has succeeded in issuing them.



The Architects' journal

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

Phone: Whitehall ofir

* TOPICS

OPEN QUESTION ON CLOSED SHOP

Most people, I suspect, have their secret peculiarities as pedestrians. Some try to avoid treading on the paving-stone joints. Some like having their shoes shined on a busy sidewalk. Mr. James Agate, I have read, is often impelled by some force beyond his control-yes, there are other things besides his prejudices which are beyond his control-to touch at regular intervals the spikes of railings as he passes them. Don't call me names, as Susan Hayward would say, but I have a powerful and private addiction to cinema ad. cut-outs-those 20-foot high paint-and-plywood representations of the half-veiled illusions of Miss

Russell or the latest Boyer-Bacall stranglehold which you see lashed to the Portland stone façades of our movie-palaces. Weekly these highly-coloured displays are changed. Weekly I goggle at them, fascinated by the skill and assurance of the men who paint them.

How unerringly are placed the highlights upon Mr. Crosby's quiff or upon the dimples in Miss Grable's knees. How menacing the glitter of Miss Hayward's upturned glass, how transparent the chiffon across the shoulders of Miss Lake, how opaque the French-grey glitter in Mr. Bogart's eyes. But how staggering to read in the current issue of Art and Design - the newlynamed and greatly enlarged bulletin of CIAD—that before the war the wages of these accomplished display-painters were often no higher than £2 10s. a week. Today, thanks largely to the efforts of the Signwriters' and Display Trades Union the minimum is £6. Moral, says the secretary, join the Union-as, you may remember, so many of the artists and display specialists at Britain Can Make It were compelled to do to avoid disputes over the use of non-union labour.

With the present boom in exhibitions, the rising quality of design standards and the consequently rising quality of artists engaged in this work, the question of a "closed shop" is likely to be raised more and more often. Whether this is desirable is open to doubt. For our cinema virtuosos and others in similar circumstances the advantages are obvious enough, but it would be

difficult and not necessarily advisable to corral all these free-lance artists by whom the best commercial art and display work is done. I should be sorry to see the day when, say, Edward Bawden is asked to show his union card before being allowed to start work on a book jacket—and so, I suspect, would Mr. Bawden. It would be interesting to have the views of A.J. readers on this subject.

WALNUTS, CHESTNUTS AND FORGET-ME-NUTS

Here are a few kernels of information extracted from the assorted husks which have for weeks been mounting on my desk. First, Veneered Walnut Furniture, a short monograph by R. W. Symonds and published at 6s. net by John Tiranti, in which the author traces the development of this type of furniture throughout the period of its greatest popularity (1660-1760), and shows how Continental influences were shaped and guided by the traditional skill of the English craftsmen. The text, which is crisp and authoritative, is printed in English, French and Spanish, and there are fifty-two excellent full-page photographs of typical pieces. For export only.

The Journal of the London Society describes a visit to the GPO underground railway and reports a lecture on replanning in South-East London by Arthur Ling. Arthur Ling onward into the valley of slums and chaos!

The Thanet Advertiser records the opening of "The Regency," Ramsgate. By this admirable projectdescribed as "a dream come true" -the whole of the splendid crescent of Regency houses on the East Cliff has been transformed into a luxury hotel-the façades remaining untouched. A photograph on the front page shows Miss Tungate—a member of the hotel staff-leaning from a balcony in a royal blue plastic bathing suit and "symbolising the spirit of happy summer days to come." Looking forward to seeing you soon, Miss Tungate.

The drawing on the next page is from We Help Ourselves—a booklet of eight "beautiful little houses" de-

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signed by a German architect, Heinrich Sommer. The houses, which vary in size from one barely 200 square feet in total area (for 2 persons) to larger ones (complete with cellar) for 6.8 persons, are fully described with places, specifications and furniture designs for the use of the amateur home-builder, and though rather uninspired in appearance, form a commendable attempt to help solve Germany's housing problem.

The 4th Annual Report of the Bradford Civic Society records a busy year of lectures, conferences, and social evenings.

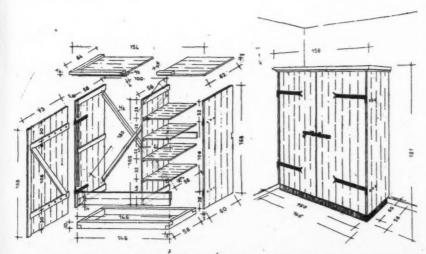
MKR's weekly reveals that New York's Museum of Modern Art now costs a million dollars a year to run, and photographs are given of the model of Mr. Goodwin's extension to the building over a site given by Rockfeller, while an earlier issue contains photographs of Henry Moore baht 'at and a mild appreciation of his work-(" there are at least five equally interesting sculptors in America")and describes an experiment at the Midtown Galleries, New York, where a silk manufacturer has undertaken to pay royalties to the painter of any pictures from which motifs or colour schemes have been borrowed for textile designs printed by his firm. "Midtown tonight luvly violets " cry the artists, and the manufacturer pays up.

From Southampton comes a second and enlarged edition of the Central

Areas Association booklet. This is a lively souvenir of the Southampton Public Inquiry, and speaks up with vigour and good humour for private enterprise (emphasis on enterprise) and freeholds (emphasis on free). Here's something for Mr. Winston's new assistant to tackle, let us hope with equal vigour and good humour. The February issue of 3 and 5 (house-journal of MOTCP's west regional office) -carries its usual quota of local activities and is not afraid to tackle the future of architecture. "The 20th century," it says, sternly, "opened with great opportunities. Have they been rightly used? Is there hope for the future? Another chapter is needed for answers." Looking forward to that chapter, 3 and 5.

Finally, the 1947 Report of those vigilant and energetic friends of the Lake District. This is a story of "rough weather," a melancholy tale of Ministerial breaches of written undertakings, and of the undignified caperings of local authorities. From Mr. Silkin the Friends had hoped for National Park legislation this session. Instead, apart from a few minor successes, they have had to fight without his help, a rearguard action against the onslaught of pylons, military training areas and reservoirs. Friends are needed, more help for the Friends already fighting if, as the secretary so acidly remarks, "we do not wish the society's name to be changed for the sake of honesty to the 'Friends of the Reservoir District.'"

ASTRAGAL



A wardrobe cupboard for the amateur home-builder, from We Help Ourselves by a German architect Heinrich Sommer, mentioned by Astragal above.



LETTERS

K. J. Campbell, A.R.I.B.A.

Kenneth Easton, A.R.I.B.A., A.M.T.P.I.

LCC Flats, Bethnal Green

SIR,—The details of the LCC Flats published in the AJ, plunge one into despair. Although the actual constructional methods appear to be efficient and successful, every defect of pre-war planning practised in municipal flats seems to have been painstakingly repeated in contradiction to all experience and to every hope for the improvements so lavishly promised during the war years.

The rigid constricted lay-out repeating the worst features of the German Siedlung of the 'twenties without the spaciousness which modified it; the four-storey blocks without lifts; the balcony access with bedrooms, w.c.s, bathrooms and kitchen opening indiscriminately on to it; the inadequate and dirty system of refuse disposal; the careful placing of kitchens and larders in alternate blocks to catch the hot summer afternoon sun; all would appear to show that no lessons have been learned.

have been learned.

The constructional system of reinforced concrete with solid shell walls and floors will give the maximum amplification to noise, and it is incredible that a large flat development in this age should be "heated" by open fires with their waste of precious fuel and resulting atmospheric pollution.

It would appear that no central or district heating scheme is contemplated. What in the name of sanity is the use of providing "roof gardens" with hundreds of stacks spouting soot around.

spouting soot around.

If the plans for the block now completed were already prepared and therefore used in the interests of economy (save the word!), can nothing be done for the sake of the future inhabitants of Bethnal Green and the reputation of the LCC to rescue the scheme as a whole and bring it at least up to minimum contemporary standards?

K. J. CAMPBELL. KENNETH EASTON.

Welwyn Garden City

Output and wages in the building industry are interlocked in current discussions and negotiations. Ian Bowen in his article below makes some suggestions.



THE BUILDING WAGES CRISIS

[by Ian Bowen]

THE WAGES CLAIM

On February 20, the National Arbitration Tribunal, under the chairmanship of Lord Terrington, made two important awards. Under the first, the Tribunal rejected the claim of building craftsmen for an increase of 6d. per hour in their standard rates of wages; under the second, it rejected the claim, made on behalf of the labourers, to change the basis of their wages from 80 per cent. of craftsmen's to an hourly fixed rate at 3d. below the rate of the craftsmen.

These matters had been referred to the Tribunal as the result of a trade dispute. This was because the Employers' Federation had already rejected these claims. In January the operatives' leaders were reported to have said that the claim must be dealt with promptly, and that there was serious danger of an upheaval in the industry if this was not done. The seriousness of the claim, publicised as the biggest demand ever made in the history of the builders' unions, and the effects of its rejection, are not yet fully apparent to the public. The wider economic crisis diverted attention from this relatively minor issue, and the bad weather damped the aggressiveness of those among the workmen who seriously contemplated a stoppage of work if their claim was not granted.

PAYMENT BY RESULTS

The next stage in the story has been the revival, at the highest level, of consideration of payment by results. Under the now famous Heads of Agreement of December 11, 1945, both sides of the industry pledged themselves to secure at the earliest possible date output at the 1938 level. A National Joint Production Committee and a Committee of Review were set up under the agreement, and a full statement on an incentives scheme was anticipated from a sub-committee. No agreed statement on the subject has appeared.

Now, however, the Cabinet by issuing the Economic Survey for 1947 has endorsed a view widely held by all independent observers of trends in the industry: it has pointedly remarked upon the low level of

output attained in the building industry among others, and it has given its general blessing to the introduction of payment by results schemes where possible. It would be difficult for anyone to argue that such a scheme was not *possible* in the building in-dustry, since one was operated, in agree-ment with the unions, very successfully during the war, Mr. Isaacs now states in the ing the war, Mr. Isaacs now states in the Commons that a payment by results scheme is "being considered" by both sides of the industry, and that it has already been discussed with the National Federation of Building Trades Operatives.

It will thus be seen that by now two separate issues have become inextricably mixed up: the first, the rejected claim of the workmen that they are entitled to very consider-

men that they are entitled to very considerably higher time-rates (the labourers' claim representing a $37\frac{1}{2}$ per cent. increase), and, secondly, the claim of the Government, the employers and the public at large that outemployers and the public at large that output must go up, and that, if necessary, the workers should be paid more in proportion to their efficiency, always provided that an incentives scheme can be fairly worked out. Common sense would suggest that in this situation there lies the possibility of a compromise.

THE OPERATIVES' INTRANSIGENCE AND ITS HISTORICAL ORIGINS

Many staunch supporters of the Labour Many staunch supporters of the Labour Party must have read their Reynolds News for March 30 with considerable dismay, for it featured Mr. Coppock's bombshell on Why Builders Oppose Payment by Results. This article, if it is to be taken as the last word on the subject, would rule out any compromise, and any scheme of bonusing or incentives payments. Most of the arguments advanced against payment by results in that article and else-

payment by results in that article and else-where, can, in fact be answered—provided that it is agreed (a) that current time-rates are fair and (b) that full employment will stay for any foreseeable future. On these say for any foreseease future. On these two assumptions there is no need to fear that payment by results would make workers "too old at forty"—apart from the fact that men old at forty "—apart from the fact that men over forty are often the most skilled; nor, on these assumptions, should PBR raise costs, by necessitating a low basic target. But the reason why trade unionists oppose PBR is much deeper than some of their arguments, to which it may be suspected that they know the answers themselves. These deeper reasons are purely historical.

That is not to say that they are trivial. On the contrary, the historical sense of the trade unionist is sound, and his true reasons for opposing piece-work must both be understood and thoroughly out-argued before any progress can be made. First is the fact that the unions for decades have had to oppose the unions for decades have had to oppose PBR or piecework proper because it led sometimes to sweating, to speeding-up and to cheating of the men. Let the employers admit that point. It is an affair of recent history, too. Second, is the trade unionist's principle: "let wages and conditions he settled at the protection." conditions be settled at the national level": any PBR system demands local variations, and this cuts across everything that the trade unionist has fought for since the earliest days of trade unionism.

These are the most serious objections to PBR—as apart from the confusing crosscurrent arising from the unions' claim for higher time-rates. These two objections higher time-rates. These two objections must be met; otherwise any scheme, however well devised, will meet bitter and probably successful opposition.

A POSSIBLE SCHEME

If the time-rates problem be left aside for the moment, the problem then resolves itself into the following: how can the position of the unions be strengthened, instead of weakened, conjointly with their conceding the PBR principle, and co-operating in its successful working? In the industrial working? world of to-day any other approach is not "real politics."

Perhaps something on proposed. First, the way lines could be read piece-work schemes, and PBR sche now practised should be again declar tive, once the illegality would become unions had a share in o a rival and officially endorsed scheme reports of infringements Secondly, there would be for gangs laid down under to carefully observed number of operations on tudy of a s. The basis tate of work would need, a rate of 70, number of operations on of the bonusing would be over a normal 60 that a ge.g., a 20 per cent. bonus for whatever it might be, would be agreed, local vavariations could be introscheme. This brings us to the need for a local "bon three for each locality (if s this basis third point: cuntry would stricts, followthree for each locality (the be divided into about 100 ing any convenient existing committee would have a worker's representative an expert. This committee wo bonusing; that would be left site. But it would act as a for any worker who conside, ing was being applied in sunder such conditions, as wo against him, or unduly hu Now comes the essent. all appeal matters the t. sentative would have a veton any agreement to a variation.

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This scheme should work to the trade unionists' satisfaction. It would create a machinery that would enhance the unions' ability, as well as the employers', to see that methods of management, as well as the efforts of labour, were improved. If bonuses were not being earned in some districts, that would be an indication of poor management or of had materials' supplies. management or of bad materials' supplies, and the scheme would provide a strong inducement for workers to demand the best management as well as for management to plan their work in the best way for the best use of labour.

TRIAL RUNS

This scheme may seem to be unduly complex. But any scheme must be complex to meet the variety of conditions met in the industry. Something of this kind should first be tested on a number of sites. The trade unions might at least be persuaded to agree to such a test, reserving their rights to contest the principle if no improvement in output can be discerned.

An incentives scheme should work, if fundamentally it is fair and reasonable. The worker usually knows whether or not his gang is doing a good week's work. He is not going to 11 d an improved pay packet in the weeks work in the output it good, nor a normal time-real packet when the work has not gone so w. What matter is that he should consider imself to be fail treated. mself to be fa ly treated. should consider

TIME-RATES

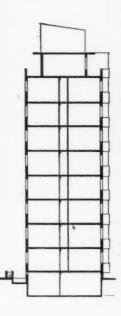
ad weeks? Are present tle? Frankly, to the at present must be activity of the industry What about the time-rates reasi observer the au affirmative. The mproving from its low the first half of 1946. is almost certain level of 1945, an In 1947 it may improve so fast. But there are many 1 for contributing to a further rise in 1948 more machinery and plant, better training of the workers back from the Forces or coming from training centres, improved planning by builders, and later on there will eventually be a more adequate flow of materials. Thus by next year a much higher output should be attained. But this cannot be guaranteed without better planning of sites, and more incentives to work. Both these objectives could be attained under a piece-work scheme, which gave guarantees to the unions. Then would be the time to reconsider the hourly rate, and to establish higher time rates on a firm foundation.

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Left, Section I looking towards the river, with the community centre in the foreground. Below, section through a 9-storey block. Bottom, East elevation of a 9-storey block.



PIMLICO

HOUSING SCHEME

ES GNED BY POWELL AND MOYA

GENEI-.-This scheme, to be t for the Westminster carried City (ncil, was the winning y Philip Powell and design Hidal Joya, in the competition held year. (See A.J., May 30, 1941 It is to be developed in ions. Work on Section I four is to oceed as soon as working dray gs have been completed and the lecessary consents have been obtained. The four 9-storey blocks on Section I will be the first flats to be erected.

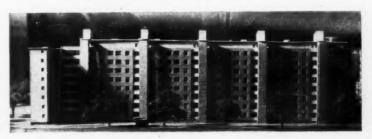
The Consulting Structural Engineers are Messrs. Scott and Wilson, and the Consulting Engineers for District Heating are Messrs. Kennedy and Donkin.

The area of the site is 32·20 acres, the net area for housing purposes is 28·95, and the number of

dwellings the scheme will contain will be 1,576, composed of 70 1-room, 124 2-room, 636 3-room, 698 4-room, and 48 5-room flats, housing in all an estimated population of 5,700.

The area accommodates a Community Centre, a Day Nursery, 3 Nursery Schools, 4 Public Houses, 18 Shops, 2 Laundries, a Mortuary, a Restaurant, Public Lavatories, and a Service Station with underground garage for 200 cars.

The aim has been to develop both low blocks (three and four storeys) and high blocks (seven and nine storeys) in intimate relationship with each other, as opposed to siting colonies of tall buildings together, with colonies of low





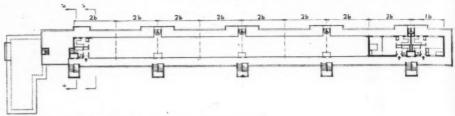
Sections I and IV from the northeast, looking towards the river.

blocks completely segregated from them. The lower blocks are either three storeys (flats) or four storeys (super-imposed maisonette dwellings) and do not require lifts.

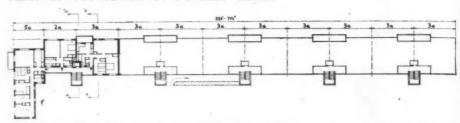
The aim is to site as many flats as possible with views, either direct or oblique, on to the river, the great majority running approximately N-S. The roads are treated purely as service and internal access roads. There are no road junctions with the riverside road, which is an important traffic route.

Open spaces between blocks are generous and are laid out as lawns, green spaces planted with shrubs

PIMLICO HOUSING SCHEME



TOP FLOOR OF 9-STOREY BLOCK



PLAN OF TYPICAL FLOOR OF 9-STOREY BLOCK

[Scale: 4" = 1'0"]

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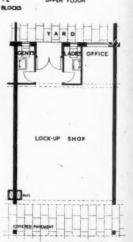
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and trees, and spaces subdivided into small enclosed public gardens. There are two fitted children's playgrounds, each with a covered play space. Toddlers' play-spaces, 13 in all, are spaced at frequent intervals.

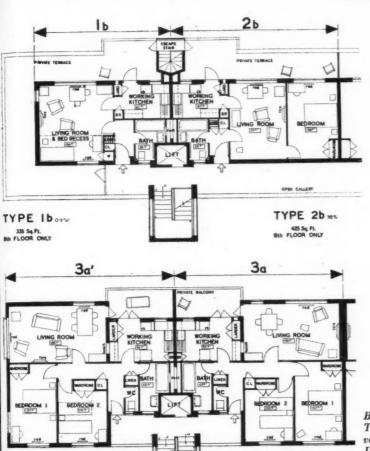
FLATS.—Two main types of access have been used to the flats: (a) direct access in pairs from an open balcony (9-storey blocks and some of the 3-storey blocks); (b) open gallery access at alternate floors (maisonette dwellings











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TYPE 3a'
674 Sq. Ft.
ROUND TO 7th FLOOR

in 7-4- and 3-storey blocks). There is also a form of access as a variant of (a) with 3 flats off one staircase. Lifts are provided in all 9- and 7-storey blocks of flats. Pram and bicycle stores, drying rooms, etc., are provided in the basements of blocks of flats, and are accessible by means of lifts, stairs and ramps.

CONSTRUCTION.—The 9-storey blocks are to be of monolithic reinforced-concrete construction with external walls and transverse spine walls 7 in. thick. Floors are solid reinforced concrete slabs 6 in. thick. External walls will be lined internally with 1½ in. wood-wool slabs, plastered. Externally, the clients have required the use of brick as a facing to the concrete wall. Great attention has been paid, in evolving this structure, to avoiding the projection of beams and columns into rooms. Floors and party walls are specially treated to minimise noise transmission from one flat to another.

HEATING.—All flats are provided with central heating and constant hot water. The heat,

Below, aerial view of the model of the whole scheme. The numbers indicate the height in storeys of the various blocks of flats. CC, community centre; DN, day nursery; HA, heat accumulator; NS, nursery school; PH, public house; S, existing school; SS, service station (with underground garage for 200 cars); PG, children's playground.



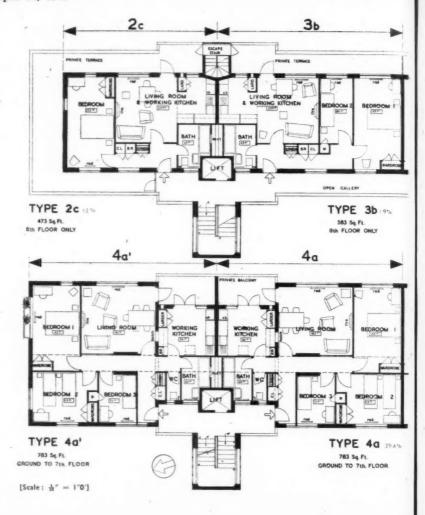
TYPE 3a HAN



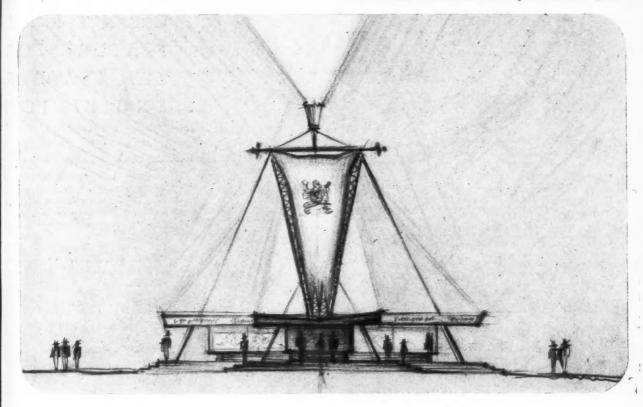
Above, Sections II and III from the river. Below, Sections I and IV from the river; the accumulator to contain the hot water piped from Battersea Power Station is shown on the left.

instead of being generated from boiler houses on the site, is piped under the river as hot water at about 95° Centigrade from the Battersea Power Station on the opposite side of the river, to a 120-ft. high hot-water accumulator on Section I of the site. From this insulated accumulator it is carried in distribution mains, the majority of which run inside the basements of the blocks to the radiators in the flats and to the calorifiers, which provide the flats with constant hot water. It is estimated that the cost of hot water and heating will be less than 5s. a week for each flat. By conventional methods it costs considerably more to provide only half the heat.

(The models of the scheme illustrated here were made by Partridges Models and photographed by J. A. Denney)







1947 BRITISH INDUSTRIES FAIR CENTRAL FEATURE FOR THE LEATHER

EXHIBITION

DESIGNEDHULME CHADWICK opens at Olympia on May 5. This



Top, preliminary sketch. Above. arms of the Company of Saddlers, one of the emblems in paper sculp-ture appearing on each of the four stretched hides which rise above the display cases and office.

E

the large Leather Section at the British Industries Fair, which section, containing 200 stands, has been designed for the Leather Industries Export Corporation.

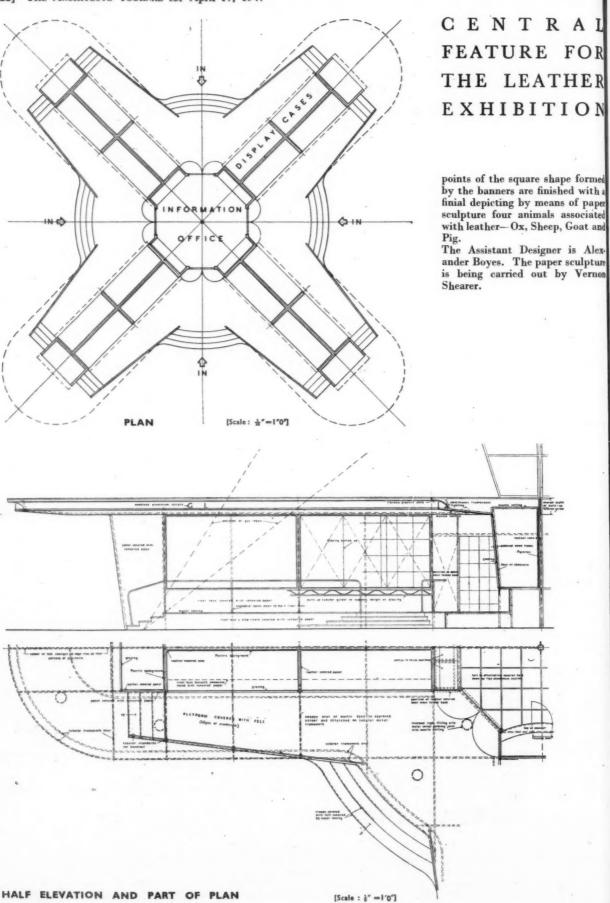
The framework of the centre feature is of welded steel tubing, prefabricated in units, with sleeved connections for rapid erection.

The twenty principal display windows have backgrounds of Acoustic Paxtiles with end panels covered in various types of leather. These twenty special display features have been designed to show the best that the leather industries can produce and are arranged to face the section of industry to which they belong.

The central information hall is of octagonal plan with decorative panels of coloured leather in each of the four recesses, and is

 $B \ \varUpsilon$ This feature will form the focus of furnished with three leather covered settees and information counter. The entrance doors and counter front are covered with small padded panels of leather with embossed designs. The ceiling is of fibrous plaster with recessed joints radiating from a central column which is sheathed in anodised aluminium and surmounted by a metal ring to which are attached a pattern of cords passing through the ceiling.

Four triangular banners facing towards the main alleyways are supported from a 50 ft. 0 in. mast laced to a light framework of welded steel tubes. Each banner bears the arms of one of four of the Leather Guilds-Cordwainers, Curriers, Leathersellers and Saddlers-and will be carried out in paper sculpture, and flood-lit from below, the whole being surmounted by a giant lantern with gores of alternating colours. The four



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TECHNICAL SECTION

The function of this feature is to supply a digest of, and commentary on, current information of interest to architects as recorded in technical publications and statements of every kind throughout the world. Items are prepared by specialists of the highest authority who are not on the permanent staff of the Journal, and views expressed are disinterested and objective. Items are printed on one side of the paper only to permit of cutting out and pasting up in classified order in readers' files. The Editors welcome information on all developments from any source.

INFORMATION CENTRE

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To enable items to be filed all information is classified under the following headings:

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

7.4 practice GENERAL DATA BOOK

Fowler's Architects' Builders' and Contrac-tors' Pocket Book. 4th Edition. (Scientific

Publishing Company, 10s.)
Fourth Edition of well-known reference 1,063 pps.; illustrated and indexed. book. It is impossible to summarise a book of 1,000 pages which is itself a summary. There is a great deal of information in this book which will make it a useful reference. But while it is enlarged and brought up to date in many respects the text does not always give the latest account of technical developments nor always a clear statement of principles. It might be suggested that as a work of reference it would be more useful if it were kept strictly as a data book and sections which attempt the impossible task of explaining technical subjects in a few pages were left out. Another comment which might be made is that now that it has grown so considerable in volume the thickness of the book makes it virtually impossible to use it as a pocket reference and a larger page size might make possible a more attractive arrangement and clearer illustrations.

16.8 materials: miscellaneous GLUES FOR WOOD

Aerolite and Aerodux Adhesives for the Wood-working Industries. Aero Research Technical Notes Bulletin No. 45. (Aero Research, Ltd., Duxford, Cambsidge, September, 1946.)

Describes properties and uses of Aerolite

(urea formaldehyde) and Aerodux (phenol formaldehyde) glues. Definition and explanations. Choice of glues. Methods of application. Plywood glues. Specification requirements. pp. 19.

This bulletin deals with the proprietary synthetic resin adhesives. Detailed information is given on the choice of a suitable glue and on the technique which should be

used in employing them.

The information is of value chiefly to the wood-working industry, but is also of interest to architects who may require to specify glue to suit special conditions.

20.17 construction: complete structures SITE WELDED STRUCTURE

Welded Frame Building Designed for Heavy Loads. Mark Falk. (Engineering News-Record [USA] November 14, 1946, pp. 640-2.)

Fully continuous three-storey welded construction at Fresno, Calif. 145 ft. by 145 ft., designed for floor loads 400 lb./sq. ft. Interesting joint details.

The steel frame was erected, plumbed and welded in approximately the same number of man-hours as would be required by a conventional riveted job of similar size.

24.15 lighting

LIGHTING OF OLD BUILDINGS

New Lighting for Old Buildings. E. H. Penwarden and S. Anderson. (Trans. Illum. Eng. Soc., December, 1946, p. 267.)

Value of improved illumination, present lighting techniques, types of buildings and methods of treatment. Illustrated.

The paper is introduced by a discussion of the usefulness of improved lighting in existing buildings (i.e., old buildings of architectural interest, or buildings which simply require modernisation).

This is followed by a review of present techniques of illumination with notes on their particular value for the purpose in mind here.

The main body of the paper concerns methods of treatment. It is pointed out that the chief problem is usually excessive contrasts, owing to the prevalence of dark surfaces in old buildings. Among the methods of treatment discussed are:—

 Adaptation of existing fittings. 2.—Design of new fittings of appropriate type.

-Direct use of modern methods. Concealed sources.

-Built-in fittings.

Several examples are described and illustrated.

Although the paper contains helpful in-formation and ideas, there is some lack of a clear statement of principles.

25.17 water supply and sanitation

BS. METAL LAVATORY BASINS

Metal Lavatory Basins. BS 1329:1946. (British Standards Institution, February, 1947, 2s.).

Standardises basins of enamelled iron, stainless steel, monel metal, enamelled cast iron, in two sizes, interchangeable with standard ceramic basins.

The standard sizes are 25 in. × 18 in. and 22 in. × 16 in., the latter for use where and 22 in. × 16 in., the latter for use where space is limited; each size is available in two types—(a) with splash-back, (b) flattopped; a sketch and table of primary dimensions is given. The height of the splash-back is to be not less than 1½ in., and it is suggested that a greater minimum height than this might appear desirable. General design is left free within the limits of the specified dimensions, and the of the specified dimensions, and the standard is so drafted as to allow reasonable variety in this direction. Qualities of metal and minimum thicknesses for each are laid down, and it is specified that welds shall be "adequately" cleaned off prior to surface finishing; the use of such wording may well have been unavoidable, but as are now coming to acquire semi-legal status, the use of more specific definitions of what is required is desirable. Those with experience of specification know only too well the difficulties of interpretation which

well the difficulties of interpretation which can arise out of wording of this character. The specification for surface finish evidently presented the same difficulty, and again the word "adequately" occurs. Reference is made to a standard Tests for Vitreous Enamels, yet to be published, which leaves the present standard somewhat the same of the present standard somewhat the present standard s what incomplete until it appears. Despite what incomplete until it appears. Despite these minor shortcomings, the appearance of this standard is to be welcomed, for the shortage of ceramic goods has concentrated attention on metal alternatives, and types unsatisfactory both in design and finish have been on the market. Aluminium basins have also been under development; presumably this metal may be added to this ctendard when production resultances. this standard when production problems are overcome.

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.I.

OUESTIONS AND ANSWERS

2890 ME TION METEOROLOGICAL INFORMA-

Q Could you suggest any books or an authority to whom I could apply for meteorological information in Great Britain? The information I require is average rainfalls, sunshine, and temperatures.

A Enquiries as to the average rainfalls, sunshine, and temperatures should be addressed to:—The Royal Meteorological Society, 49, Cromwell Road, London, S.W.7.

CURRENT MARKET PRICES OF MATERIALS

BY DAVIS, BELFIELD AND EVEREST,

Chartered Quantity Surveyors.

Rates of W	ages last	rose	on	January	Ι,	1946,	and	are	now	as	follows :-
------------	-----------	------	----	---------	----	-------	-----	-----	-----	----	------------

LONDON DISTRICT			Craf	Ismen.	Labo	urers.
Within 12 miles radius	 	• •	 2s.	7 3 d.	2s.	11d.
From 12-15 ,, ,,	 		 28.	7d.	2s.	1d.

GRADE CLASSIFICATIONS

41 10111110010					
A A ¹	A^2	A^3	B	B1	B^2

Labourers. . 2s. 0d. 1s. 114d. 1s. 114d. 1s. 104d. 1s. 10d. 1s. 94d.

Jawains

F.S.I., F.I.Art.

Prices vary according to quality and the quantity ordered.

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

CONCRETOR Coments

† All delivered in paper bags (20 to the ton) free. * Paper bags or non-returnable jute sacks charged at 7/- extra per ton or in returnable jute sacks charged at the rate of 35/6 net per ton of cement or $1/9\frac{1}{2}$ net per sack in lots of less than 1 ton credit on return at 1/6 net per sack.

		In 80-ton freights F.A.S. Safe Wharf
	6 Tons	In River Thames,
	and over	London Area.
*Portland	per ton 55/-	52/-
4417" Quick setting	1	
extra rapid hardening	per ton 76/6	_
*Rapid hardening	per ton 61/-	58/6
*Water repellent	per ton 86/6	_
Atlas White (1 barrel 376 lb.) .		per barrel —
		6 ton upwards
*Colorcrete rapid hardening, bu	ff and red per to	on $96/\hat{6}$
*Colorerete rapid hardening kha	ki per te	on 96/6
†Colorcrete	per ton fr	om 176/6 to 400/6
†Snowcrete	per to	on 226/6
		10-19 1 ton and
Ciment Fondu, delivered C	entral cwts.	cwts. upwards
London area	per cwt. 16/8	15/- per ton 238/-

Aggregate and Sands (Full Loads)

2" Unscreened ballast (Down) Washed,	crushe		gra		per yard cube	14/
shingle			* *		per yard cube	14/
(Down) Ditto					per yard cube	15/
Broken brick					per yard cube	14/
Ditto		0			per yard cube	16/
Vashed pan breeze					per yard cube	9/
Ooke breeze 1" to dust					per yard cube	01
& Sharp washed sand					per yard cube	15/
White Silver Sand for				ton	lots) per yard	40/

(For Sands for Bricklaying and Plastering see respective trades)

		Pa	vings			
Brick hardoore	• •				per yard cube	6/6
Concrete ditto	and ha	100 001			per yard cube	8/-
Coarse gravel		Her au	108	• •	per yard cube per yard cube	3/-
Fine ditto	 				per yard cube	_

CONCRETOR—(continued)

Pavings continued

Clean granite chi	ppings (in 5	ton l	oads)		per ton 40/10
Ditto (in 5 ton				ery)	per ton · 41/10
Red quarry tiles,	6" × 6" ×	7."			per yard super 9/9
Ditto	6" × 6" ×				per yard super 8/8
Buff ditto	6" × 6" ×	1"			per yard super10/11
Ditto	6" × 6" ×	4"			per yard super 9/9
Hard red paving	bricks, 2"				per 1,000 260/9
Ditto	11				per 1,000 246/6
		Reinfe	rcemen		

Ditto	14			per 1,	000 24	0/0	
		Reinfo	rcement				
Home trade	er and upwa	ards, e	x mills	delivered to		19	8
Extras for :-	" diameter	• •	••	•		10/-	•

Onder 1	10 10	u	15P LE	OW	38									her	LOIL	101	-	
Ditto 7	" and	ove	r l'	' di	an	ote	r				۰			per	ton	15/	-	
and o	ver H	" d	iam	ete	or									per	ton	20/	-	
Hand and														per	ton	25	-	
and			liar	net	er				٠.					per	ton	30		
and and				0.0		9								per	ton	35	-	
1" diam									٠.					per	ton	40	-	
Under 1													9	per	ton	60	-	
Lengths	over	40	ft.	to	45	ft.								per	ton	10		
**	99	45												per	ton	15	-	
99	22	50	ft.	(as	50	ft.	p	lus]	De	r ft.	.)			per	ton	1,	6	
							Qa.	mde	ie									

letarding	liquid, in 5-gallon drums (for exposing aggregate)		1	Ex Warehouse, Southwark Bridge.
Ditto	per gallon (for obtaining a bond)	23/-	}	Drums chargeable and credited, if
Dieco	per gallon	$14/4\frac{1}{2}$	J	returned.

Common Bricks

BRICKLAYER

Ret

			Commi	OR DIN	1 Prof. 0			
†Rough stocks							per 1,000	-
†Third stocks							per 1,000	-
†Mild stocks							per 1,000	-
Sand limes							per 1,000	-
Phorpres press	ed Fle	ttons					per 1,000	70/-
Phorpres keye	d Flet	tons					per 1,000	72/-
Blue Staffordsh	ire wi	recuts					per 1,000	-
+Lingfield engin	eering	wirecu	ts (ex	works)			per 1,000	115/-
Firebricks, best	Stour	bridge	24"				per 1,000	445/-
Firebricks, best	Stour	bridge	3″				per 1,000	532/6
	1	acing o	ind En	gineeri	na Bric	ks		*

Facing and Engineering Brick

Sand Limes, No. 1				per	1,000 -	0
Sand Limes, No. 2				per	1,000 -	
†Phorpres rustic Flettons				per	1,000 90	-
† At King's Cross (Maiden	Lane)	Stn.	For	delivery in		
add 15/- per 1,000.	,					

25" e

BR

Sand Sand Red Whit Colo

†Du †Du †Sou pr †Sou pr Blue †Sou

fact Lime

Lime Lime Was (F H

Wall
Wall
D.P.
D.P.
‡Lec
‡Lec
‡Lec
‡inclu

inch Airb R ec Blace

Galv Blac ire Galv Buff Fire

Fire Wal 2" w 2" w 21" 21"

Hol Plas †1" †2" †3"

Stra Bac Cov Ral Ral Offic Clos Stra Ter

Stra Terri Mid End Cor Gat

BRICKLAYER—(continued)

Art.

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dge.

Facing and E	ngineer	ing Br	icks-	continued.	
24" engineering bricks				per 1,000	120/-
†Hard stocks, firsts				per 1,000	
Hard stocks, seconds				per 1,000	-
Sand-faced, hand-made re				per 1,000	_
Sand-faced, machine-made	reds	* *	* *	per 1,000 from	
Red rubbers (91-in.)				· per 1,000	
White facings				per 1,000 from	100/-

Red rubl †Dunbriks (concrete), greys or Commons . . . per 1,000 from 119/†Dunbriks (concrete), various colours . . . per 1,000 125/†Southwater engineering No. 1 (first quality red
pressed) Coloured facings (creams, buffs, browns & pressed) per 1,000 192/6 †Southwater engineering No. 2 (second quality red †Southwater pressed sandfaced reds . . . per 1,000 172/6 †Dorking pressed sandfaced multi-coloured

gs per 1,000 151/-†Plus 1/6 per 1,000 levy—Prices ex works—Haulage extra.

Limes and Sand

						1.	ton lots	b-ton lo)ts
Lime,	greystone				per	ton	74/9	. —	
Lime,	chalk				per	ton	74/9	\longrightarrow	
Lime,	blue Lias	(including	paper	bags)	per	ton	-	-	
Lime,	hydrated (i	neluding p	paper b	ags)	per	ton	79/6	-	
Wash	ed pit sand					per	yard cube	14/7	
/TZ -		45 Clause	A 7	21		-	-		

For cements, see "Concretor. Hire of jute sacks charged at 1/6 and credited at 1/6. If left charged at 1/9.

Sundries

Wall ties, self coloured				per cwt.	-
Wall ties, galvanized				per cwt.	_
D.P.C. slates, size 14" ×	9"	0 0		per 100	46/6
D.P.C. slates, size 14" ×	41"			per 100	14/6
‡Ledkore D.P.C. Grade A				per foot super	10½d.
Ledkore D.P.C. Grade B				per foot super	1/2 d.
Ledkore D.P.C. Grade C				per foot super	
t Trade discount 71 ne	er cent.	and cash	dis	count 21 per cen	t. Price

include delivery on minimum of £5 orders.

Airbricks:	$9'' \times 3''$	$9'' \times 6''$	$9'' \times 9''$	$12'' \times 9''$	$14'' \times 9''$
Red and buff cotta Black cast iron, So	each 1/-	1/10 9"×6"	4/10 9"×9"	12"×6"	12/11 12"×9"
Board pattern ai					
	doz	-	-	-	-
Galvanized ditto p	per doz. —	-	-	-	

Black hit and miss cast iron ventilators

per doz. -Galvanized ditto per doz. -1'6" 2'0" Buff terra cotta chimney 1'0" 2' 6" 3' 6" 5' 0" 5/8 8/2 pots each 4/9 10/10 24/11 42/6

pots . . . each 4/9 5/8 8/2 10/10 24/11 42/6
Fireclay . . per ton 97/Wall reinforcement supplied in standard rolls containing 25 yards lin.
2" wide black japanned . . per roll 2/9
2" wide galvanized . . per roll 3/5
2\frac{1}{2}" wide galvanized . . per roll 3/5
counts for quantities.

Partitions, etc.

				2"	24"	3"	4"
Clinker	per	yard	super	3/6	4/-	4/6	5/7
Pumice	per	yard	super	7/3	-	-	
Hollow Block	per	yard	super	3/1	3/4	4/-	4/7
Plaster	per	yard	super	6/4	7/1	8/2	10/6
†1" Wood-wool	Slabs		per	.yard	super from	4/2 t	o 4/10
†2" Wood-wool	Slabs		per	yard	super from	6/7 t	0 7/64
†3" Wood-wool	Slabs		per	yard	super from	8/6 t	0 9/81

† Prices according to quantity ordered. 21% Cash Discount.

Gas Flue Blocks

		Single Flues.	Double Flues
Straight blocks	 each	2/1	3/4
Backing block	 per set of 3	4/6	8/1
Cover blocks	 each	2/11	5/2
Raking blocks 45°	 each	4/3	6/9
Raking blocks 60°	 each	3/2	4/7
Offset blocks	 each	5/1	7/3
Closer blocks	 each	2/1	3/3
Closer flashing blocks	 each	1/8	2/8
Straight flashing blocks	 each	1/8	2/8
Terminal and cap	 per set	9/1	14/11
Middle terminal and cap	per set	8/10	14/3
End termina and cap	 per set	9/1	14/10
Corbel block	 each	7/1	13/10
Gathering block	 each	-	7/4

DRAINLAYER

Land	Drain	Pines
AJUN FRUN	Theres	T a blood

							2"	3"	4"	6"
Pipes	in	12"	lengths		per	1,000	99/6	138/6	179/-	372/-
		(D	elivered in	full le	aher	Cantral	Londo	n Area	1	

Salt Glazed Stoneware Pipes and Fittings

				4"	6"	9"	
Pipe (2' lengths)			each	1/8	2/6	4/6	
Bends, ordinary			each	2/6			
Single Junction, 2' long			each		5/-	9/-	
Yard Gulley, without g	rating		each	6/3	6/101	11/3	
Ordinary round or squ	iare Gra	ting.				,	
painted			each	$-/7\frac{1}{4}$	1/3	2/6	
Ordinary round or squ	iare Gra	ting,					
galvanized				1/01	2/1	4/41	
Extra for Inlets, horizon	ntal		each	1/6	1/6	1/6	
Extra for Inlets, vertic			each	2/3	2/3	2/3	
Intercepting Trap wi							
Stopper						37/6	
Grease and mud interce							
silt and grease for 6",					on }eac	h 20/-	
grating, painted					1 .		
Ditto, with iron grating							
The above prices to	he veried	har t	he fol	owing	narcanta	man for t	he

The above prices to be varied by the following percentages for different qualities given. All subject to 2½ per cent. cash discount.

		Stan		Ste	ritish indard ested
Orders for 2 tons and over		Plus	40%	Ph	18 65%
Orders under 2 tons, 100 pieces upwards		Plus	571		as 821%
Orders under 2 tons, less than 100 pieces		Plus	671	% Ph	18 92½%
		Bes			onds
Orders for 2 tons and over	P	us 324	%	Subject	to 15%
Orders under 2 tons, 100 pieces upwards	P	us 500			price of
Orders under 2 tons, less than 100 pieces				best quall size	uality for

Cast Iron Drain Pipes and Fittings

Socket and Spigo	ot Pipes :-				
Weight (per 9 ft.)	Size	9 fts.	6 fts.	4 fts.	3 fts.
	per yard	9/9	10/10	17/5	13/2
1 . 1 . 17 4"		10/2	11/2	17/10	13/8
2.0.1 6"	per yard	15/-	17/11	28/10	23/-
3 . 3 . 21 9"		27/3	35/9	62/-	47/4
		2 fts.	18 ins.	12 ins.	9 ins.
1.1.8 4"	each	10/10	_		_
1.1.17 4"	each	11/1	_	_	_
2.0.1 6"	each	17/4		_	_
3 . 3 . 21 9"	each	-	-	_	-

Tonnage Allowances :-Orders up to 2 tons nett. Orders 2 to 4 tons less 2½%. Orders 4 tons or over less 5%.

70	4"	6"	9"
Bends (short radius) each	9/8	20/-	61/7
Single junctions Fig. No. 18 each	16/11	33/8	106/3
Intercepting traps each	46/3	77/-	189/5
Gulleys ordinary trapped "P" each	22/4	_	_
Extra for vertical back inlet 4" each	6/7	-	_
Grease Gulley trap each	195/10	_	-
H.M.O.W. large socket gulley trap			
with 9" gulley top and heavy			
grating and one back inlet each	43/5	73/10	_

Drain pipes 6' and under and all fittings plus 5% extra moulding costs.

Channels in Brown Glazed Ware

			4	0	29
Half round straight channels 24" long	(each	1/3	1/104	
Half round straight channels 30" long	(each	-	_	4/21
Ditto, short lengths		each	1/3	1/101	_
Half round ordinary channel bends			1/101	2/91	5/01
Ditto, short		each	1/101	2/91	_
Ditto, long	!	each.	3/9	5/71	10/11
Three-quarter round branch bends		each		7/6	_
			6"×4	. 9	$^{\circ}\times6^{\circ}$
Half round taper channels 24" long	!	each	3/9		6/9
Half round taper channel bends		each	4/81		8/51

The above prices are subject to the same discounts as those given for "Best" quality salt glazed stoneware pipes.

Manhole Covers, etc.

			. 4	a commone	Copera	, 640		Black Ga	lvanized	
†24"	× 18"	single	seal fo	or foot	traffic.	(V	Zeight.	Diameter Cree		
+		cwts. i						37/6	67/6	
124"		single							,	
		ght 2 or						100/-	175/-	
124"		Wood				For	road			
	traffi	· /We	ight 3	owta.)			anch	Coated	100.'-	

DRAINLAYER—(continued)

	Man	hole	Co	vera,	etc	-(c	onlinu	ed)		
								Fine	Cast	Gal
12	31"]	ong	a"	wide	9"	in	wall.			

Cast iron steps, 134" long, 6" wide, 9" in wall,		
Case from steps, 134 long, o wide, o in wan,		54/-
approximate weight 51 lb. each per dozen	-	04/-
Galvanized fresh air inlets with cast brass	4"	6"
fronts (L.C.C. pattern) each	11/-	42/6

MASON

2 07 100 20110	
	one.
	10d. (each
2244 101 0200ms to dimension since	dimension
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) per foot cube	8/3
Templates with sawn beds, sawn one edge, per foot cube	9/11
Templates with sawn beds, sawn two edges, per foot cube	11/7
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads.)	37/10
	super and not over 2' 6" long) per foot cube Templates with sawn beds, sawn one edge, per foot cube Templates with sawn beds, sawn two edges, per foot cube Price f.o.r. Yorkshire, railway rate to London Station

Artificial Stone

6" × 3" Copings and sills			per foot run	2/6
6" × 6" Copings and sills			per foot run	3/10
9" × 3" Copings and sills			per foot run	3/-
9" × 6" Copings and sills			per foot run	5/6
12" < 3" Copings and sills			per foot run	3/10
12" 6" Copings and sills			per foot run	6/7
Cornices according to detail ne	or foot	cube (f	irom)	11/10

SLATER, TILER AND ROOFER

					Best	Bangor	State	8.9				
										£	8.	d.
24"	×	12"						per	1,000	actual	_	
20"	X	10"						per	1,000	actual	_	
	P	rices	include	for de	livery	to site	in lo	ts of	1,000	and up	ward	8.
						Tile						
Bas	ic :	for l	Hand-ma	ade sar	ndface	d 101"	× 6	" rec	d roof	ing tiles		
						-			per 1,		171/	-
Mac	ehi	ne-m	ade san	dfaced	101"	× 61"	red re	ofin	g tiles	1		
					-	-		1	per 1,	000	-	
Ber	kal	nire :	rustic pa	ntiles]	per 1,	000	_	-

Asbestos-cement
*3"corrugated sheets, grey per yard super 3/5
*Standard 3" corrugated sheets, grey per yard super 3/11
Slates (Manufacture temporarily suspended):-
* 151" × 71" grey per 1.000 £7 6 0
* 151" × 151" diagonal, grey per 1,000 £14 12 0
* 15‡" × 15‡" diagonal, russet or brindled per 1,000 £23 12 6
Pantiles (Manufacture temporarily suspended).
* Turne manet became

* Large russet brown per 1,000 — * Prices are for minimum two-ton loads, and are subject to 5% trade discount and $2\frac{1}{2}\%$ cash discount.

WALLBOARDS, Etc.

Insulation Board Ditto Hardboard Ditto Ditto (medium or	Up to 5,000 sq. ft. per yard super 2/3 ft per yard super 2/9 ft Up to 5,000 sq. ft. per foot super 4 fd. per foot super 6 fd.	5,000 to 20,000 sq. ft. per yard super 2/14 per yard super 2/74 5,000 to 15,000 sq. ft. per foot super 446 per foot super 64.
Ditto (medium or semi-hard)	per foot super 5 Ad. Laminated Wallboard	per foot super 6d.

1 nickness (standard):		
1 bundle up to 2,500 sq. ft.	 per foot super	-/2 td.
2,500 sq. ft. to 5,000 sq. ft.	 per foot super	-/2 ad.
5,000 sq. ft. and over	 per foot super	-/2 td.

Asbestos-cement and Asbestos Products † A." Semi-compressed flat building sheets, grey

4 22	Service Co.	bar br	CONTRACT AND	 man P mm	coon, Pr.			
						per yard	super	-
+4"	Ditto			 		per yard	super	1/7
t D	itto			 		per yard	super	2/31

	INECO					* *		per	yard sup	er 2/	34
1Pr	ces are	for	orders	of tv	ro ton	s and	over	and are	subject	to 5%	trade
d	iscount	and	1 21%	cash	disco	unt.				,,,	
	Asbeste						" × 4	l' 0").			
				1-					foot sup	er -	/5

* 1 Ditto .				per foot		-/4
*A Asbestos	wood (in a			per yard		
* Prices ar		of 2 tons	and over	and are	subject	to 21%
cash discount						

WALLBOARDS, Etc.—(continued)

WALLBOARDS, Etc.—(commue	4)	
Asbestos-Cement and Asbestos Pr	oducts-(continued)	
* Asbestos Insulating Board		_
		Over
	25-75 150-300	600
	yards yards	yards
f" Fireproof plaster board per yard supe		1/10
2" Paper Faced Linen Tape per 100 yard ro	or 2/4 2/-	1/8
2" Paper Faced Linen Tape per 100 yard ro	b — —	5/-
Joint filler per ll	0. — —	-/4
Sundries		12.2
Slaters or sarking felt	. per yard run	
Dia	per yard sup.	60/
		00/-
All rolls 25 yards long by		
Building paper, 50" wide (B.I. 20) (K. 40) (Supplies limited	. per yard run	1/1
" (K. 40) (Supplies limited	i) per yard run	-
"Cabots" Quilts :- (Ex Works) Twenty r	roll lots delivered ca	rr. free
Double ply per roll — All rolls 28 yards long by 36" wide. Sp	per half roll	
All rolls 28 yards long by 36" wide. Sp	ecial terms for quan	tities.
"Fibreglass" sound deadening quilt	per yard super	500 mds
Light grade	1/11 1	/101
Light grade	to 500 yds. Over $1/11$ 1 $2/4\frac{1}{2}$ 2	33
In rolls 27 yards long by 36" wide.	-1-8	-4
"Fibreglass" bitumen bonded mats		
in standard on mats per	yard super 1	/4
In rolls 10, 12½, 15 yards long by 33", 36", 4	2", 45" 48" wide.	
Cut steel clasp nails	1" per cwt.	48/3
" " floor brads	1" "	40/6
Bright oval wire nails	1" "	47/9
Galvanized wire staples with slice cut	10 managa man awak	60/0
	× 12 gauge per cwt.	
Deoten Ring	per cwt	is .
STEEL AND IRONWORKER	2	

•		S	teelwork		£	8.	d.
		steel joists in 10 ft. to	sections 50 ft. lengths	ex mills	16	12	0

PLASTERER

LASIERE	1.6					
		Pla	ster and Cen	nent		
				1-ton		
				loads		
Sirapite (coarse)			per ton	91/6		
(fine)			per ton	99/6		
Victorite No. 1 (White)	4.4	per ton	_		
. No. 2 (Buff)		per ton	-		
Thistle (browning	z)		per ton	91/6		
Pink plaster			per ton	90/9		
White plaster			per ton	100/3		
Keene's pink			per ton	151/-		
Keene's white			per ton	157/3		
Gypstone			per ton	70/6		
Glastone			per ton	73/- }e	x Works,	
Paristone (haired			per ton	73/-]	Kent	
Cullamix (Tyrole	an Finis	h) 1	ton lots and	up-		
			wards p	er ton from	149/- to	182/6
			Sundries			

		Sund	ries			
Sharp washed sand						cube 15/7
Cow hair					per o	ewt. 84/6
Goat's hair			·		per c	wt. 102/6
Expanded metal lat	hing, 9' 0"	× 2' 0)" }" n	nesh	-	
× 26 gauge					per shee	
Wire Slate nails (ga		11" ×	15 gar	ige	per ew	
¶" Plaster board (pla	per yar		ys	⊢150 rds /1	150-300 yards 1/9	Over 600 yards 1/7
14" Galvanized nails Hessian Scrim cloth	in 100-ya	ard rol				
31 " wide		per roll	7	/6		

		17 C866 J	1168		
The following prices are s Standard quality.	ubjec	t to 75	per cen	t. addition:	
White, glazed 6" × 6" ×	1"			per yard super	8/6
Cream ,, ,,	-			per yard super	9/-
Angle beads (1\frac{1}{4}" wide)				per yard run	1/1
Rounded edge tiles				per yard run	1/8
Coloured enamelled brigh	t gla	zed,			
6" × 6" × 1"				per yard super	14/3
Angle beads (11 wide)				per yard run	1/2

renmmen enfla ence			 per yaru run	410
Eggshell matt enamelled,	6" X	6" X }"	 per yard super	15/-
Angle beads (11 wide)			 per yard run	1/4
Rounded edge tiles		• •	 per yard run	2/10
Special rates for quantit	ies			

Architects now have new media to give scope to their ideas; their creative impulse will combine beauty and utility in new labour-saving layouts, in heating, ventilating, and above all, in lighting. The fluorescent tube, with its high efficiency, low surface brightness, low

100

/10

14

/1

free es.

0/9

2 0

2/6

1/6 2/6

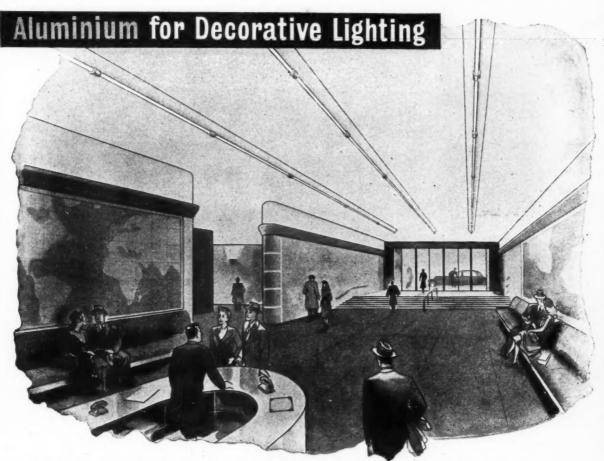
4/-8/11

er ards /7

3 2 9

/10

temperature, and colour-controlled light, is one of the greatest advances since the tungsten filament lamp was introduced. It is safe to forecast that fluorescent tubes will largely replace filament lamps in public buildings, shops, cinemas, offices and even private houses.



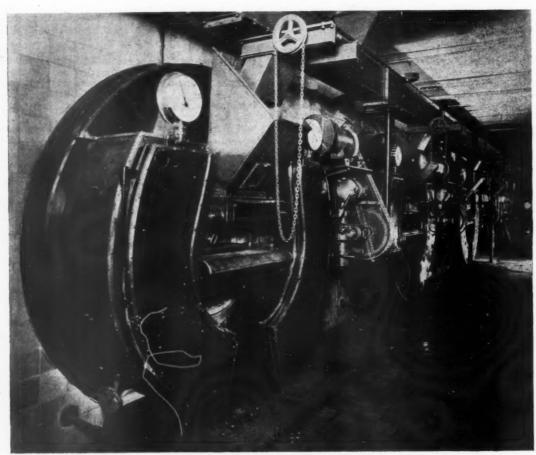
Aluminium reflectors are the ideal complement to the fluorescent tube. Aluminium offers more scope for original design than most other materials. It may be polished to give high reflectivity (up to 20% more than chromium plating) or coloured for purely decorative effect, and it has high resistance to tarnishing.

Reflectors may be extruded, or formed from sheet, and require less robust suspension.

We do not make aluminium lamp reflectors and housings; we supply sheet, extruded sections and castings to manufacturers. Owing to our heavy commitments in connection with the Government sponsored aluminium house, however, we are unable to supply sheet for some time. You are invited to write to our Technical Development Department for information and advice.

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AIR CONDITIONING HEATING
BOILER PLANT OIL FIRING
DISTRICT HEATING
ELECTRIC LIGHTING AND POWER

26-28, DORSET SQUARE, LONDON, N.W.I PADDINGTON 3488 (20 LINES)

GLASGOW . MANCHESTER . LIVERPOOL . BELFAST . BRISTOL : NEWCASTLE . CARDIFF . COVENTRY . DUBLIN

THE ARCHITECTS' JOURNAL for	or April 17, 1947 [327
PLUMBER Lead	INTERNAL PLUMBER -(continued)
3\frac{1}{2} lb. and upwards milled sheet lead in quantities of 5 owls. to 1 ton in sheets per owt. 85/-	Screwed and Socketed Steel Tubes and Fittings for Gas, Water and Steam, etc.—(continued)
Lead ternary alloy, No. 2 quality extra over	1" 1" 11" 11" 2"
sheet lead or lead pipe per cwt. 12/6 Allowance for old lead delivered to merchant or	Flanges each $1/ 1/2$ $1/4$ $1/9$ $2/ 2/9$ Cans each $-/5$ $-/6$ $-/8$ $1/ 1/3$ $2/-$
manufacturer per cwt. 63/9	Plugs each -/4 -/5 -/6 -/8 -/10 1/3
Cast Iron Goods Percentage Adjustment.	Fittings and flanges and tubes ordered in long random lengths are subject to the following trade discounts:—
on List No. 3100 A.B. 1/2/40	"Light Weight" 46½% 31% 19½%
Rainwater Goods (painted or unpainted) Plus 54%	"Light Weight" 46½% 31% 19½% "Heavy Weight" 39% 23½% 3½%
Soil goods (coated or uncoated) Plus 54%	COPPERSMITH AND ZINC WORKER
Mild Steel Rainwater Goods The following prices for Pipes and Fittings are subject to 65 per	Copper Hot rolled copper sheeting in 5-cwt.
cent. addition, and Gutters are subject to 571 per cent. addition.	lots 16 wire gauge per lb. 1/9
24 gauge rainwater slip jointed pipes. 2" 2½" 3" 3½" 4"	Ditto
Galvanized round pipes with ears per 6' 0" $2/7\frac{1}{2}$ $3/1\frac{1}{2}$ $3/9$ $4/3$ $4/9$	Copper nails
Painted round pipes with ears per 6' 0" $2/4\frac{1}{2}$ $2/9$ $3/1\frac{1}{2}$ $3/7\frac{1}{2}$ $4/-$	GLAZIER
Painted or galvanized short	Sheet Glass, cut to size (ordinary glazing quality) For quantities exceeding 500 ft. super.
lengths with ears, extra each $-/6$ $-/6$ $-/6$ $-/6$ $-/6$ $-/6$ 18 Gauge gutters. 3" $3\frac{1}{4}$ " 4 " $4\frac{1}{4}$ " 5 " 6 "	24 oz per foot super 51d. 26 oz
Galvanized half round gutters per 6' 0" 2 - 2 3 2 41 2 9 3 - 3 71	32 oz per foot super 8 d.
Painted half round gut-	Polished Plate glass, ordinary substance, approximately ‡":— Glazing Selected Silvering
ters per 6' 0' 1/6 1/9 2/- 2/3 2/6 3/- Painted or galvanized	In plates not exceeding: quality glazing quality $2 \text{ ft. super } \dots$ per foot super $2/5$ $2/7$ $3/1$
short lengths extra each $-/3$ $-/3$ $-/3$ $-/3$ $-/3$ $-/3$	3 ft. super per foot super 2/9 3/2 3/10
Asbestos-Cement Rainwater Goods	5 ft. super per foot super 3/- 3/8 4/5 *45 ft. super per foot super 3/8 4/- 5/6
The following prices are subject to $12\frac{1}{4}$ per cent. trade discount and $2\frac{1}{4}\frac{9}{6}$ cash discount.	*100 ft. super per foot super 4/5 5/7 7/2 * Extra sizes, i.e., plates exceeding 100 ft. super or 160 inches long, or
Orders over £30 are subject to 17½ per cent. trade discount and 2½%	100 inches wide, at higher prices. ** figured rolled and cathedral—untinted 71d. per foot super
cash discount, Rainwater Pipes,	tinted 10½d. per foot super
Prices are for 6' 0" lengths, but 10' 0" lengths are available in 2",	$\frac{1}{6}$ " rolled plate 6\frac{1}{6}d. per foot super $\frac{3}{16}$ " or $\frac{1}{4}$ " rolled plate 7\frac{1}{6}d. per foot super
21", 3" and 4" diameters at same prices. Short lengths up to 2' 0" are	3" or 1" rough cast 75d. per foot super
charged as 1 yard. From 2' 0" to 4' 0" charged as 1\frac{1}{2} yards. From 4' 0" to 6' 0" charged as 2 yards. Over 6' 0" charged as 10' 0".	Prismatic
Round pipes 2" per yard run 2/31	† Georgian wired cast 10¼d. per foot super †" polished wired 3/6d. per foot super
21" per yard run 2/63	# wired arctic 1/8d. per foot super
4" per yard run 4/21	Hollow glass blocks :— $P.B.2. 5\frac{\pi}{4}'' \times 5\frac{\pi}{4}'' \times 3\frac{\pi}{8}'' 2/6 \text{ each}$
5"	P.B.3. $7\frac{1}{4}'' \times 7\frac{3}{4}'' \times 3\frac{7}{4}'' = 3/6$ each P.B.32. $7\frac{7}{4}'' \times 7\frac{3}{4}'' \times 3\frac{7}{4}'' = 3/6$ each
Gutters.	Radiussed corner bricks to match up with:— P.B.2
Short lengths of gutter up to 2' 0" charged as 1 yard; from 2' 0" to 4' 0" as 1\frac{1}{2} yards, and over 4' 0" as 2 yards.	P.B.3 or 32 6/- each
Half round gutters 3" 4" $4\frac{1}{4}$ " 5" 6" 8" per yard run $1/7\frac{1}{2}$ $1/11\frac{1}{4}$ $2/-\frac{1}{2}$ $2/4\frac{1}{4}$ $3/3\frac{3}{4}$ $4/1$	PAINTER
Ogee gutters per yard run $\frac{1}{2}$ $\frac{2}{4\frac{1}{2}}$ $\frac{2}{6\frac{1}{4}}$ $\frac{2}{3}$ $\frac{2}{3}$ $\frac{2}{3}$ $\frac{2}{9}$ $\frac{2}{4}$ $\frac{1}{10\frac{1}{2}}$	Snowcem paint (in free air-tight metal
	containers) per cwt. 56/-
INTERNAL PLUMBER	White ceiling distemper per cwt. — Washable distemper per cwt. from 66/- to 82/-
Lead pipe in coils, 5 cwts. and upwards per cwt. 86/-	Ready mixed white lead paint (best), semi- gloss, per 32 lb per gallon 38/9
Lead soil pipe	Aluminium paint (best quality) per gallon 40'-
Lead ternary alloy, No. 2 quality extra over lead pipe per cwt. 12/6	White enamel per gallon 57/6 White enamel paint
Plumbor's solder per cwt. 235/-	Stiff white lead (genuine English stack process, 1 ton lots, 1 cwt. kegs) per cwt. 124/-
Tinman's solder per cwt. 284/- Drawn lead traps with brass screw eye, 6 lb.	Liquid driers per gallon 28/-
S. trap each 3/7 4/2 5/2 7/7	" " boiled (5-gallon drums) per gallon 22/8
P. trap each 3/2 3/6 4/4 6/1	French polish per gallon 25/- Knotting
Extra for 3" deep seal "S" trap each -/11 1/- 1/3 1/4 Extra for 3" deep seal "P" trap each -/7 -/8 -/9 -/11	Oil stain (scumble) per lb. 4,6
Screwed and Socketed Steel Tubes and Fittings for Gas, Water and	" " middle Brunswick green per cwt. 140,-
Steam, etc.	,, ,, dark umber per cwt. 156, –
Tubes 2 ft. long and over $\frac{1}{2}$ $\frac{2}{4}$ $\frac{2}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{2}{4}$ per ft. $-/5\frac{1}{4}$ $-/6\frac{1}{4}$ $-/9\frac{1}{4}$ $1/1$ $1/4\frac{1}{4}$ $1/10$	Varnish (outside quality) oak per gallon 42 -
Pieces 12" to 234" long	,, ,, flatting per gallon 44/-
Bends each -/11 1/5 1/11 2/8 3/4 4/9 Bends each -/11 1/2 1/7½ 2/7½ 3/2 5/2	Turpentine, genuine American 5-gallon lots per gallon — substitute per gallon 3/6
kittings. Elbows, square each 1/1 1/3 1/6 2/2 2/7 4/3	Creosote, 1-gallon lots per gallon 2/-
Elbows, round each 1/2 1/5 1/8 2/4 2/10 4/8	Utility Glazing Putty per cwt. 62/-
Tees each 1/3 1/7 1/10 2/6 3/1 5/1 Crosses each 2/9 3/3 4/1 5/6 6/7 10/6	Size in 1 S per lb. — ,, in 1 S per lb. —
Sockets, plain each -/4 -/5 -/6 -/8 -/101 1/3 Sockets, diminished	" in I S per lb. 1/10
each -/6 -/7 -/9 1/- 1/4 2/-	Best quality English gold leaf, 23 carat per book 3/8 Extra thick, ditto per book 4/8

The new factory near Coventry of the Triumph Engineering Company Ltd. Another in the series of fine, modern buildings for which Boulton and Paul have designed, manufactured and erected the steelwork.



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Craftsmen in Steelwork

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.

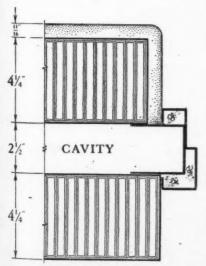
THE INDUSTRY

[by Philip Scholberg]

STEEL DOOR FRAMES

Hopes are running an exhibition of steel door frames at their London showrooms, 17, Berners Street. Both internal and external types are shown, with the appropriate walls and partitions half built, the operative words being door frames and their use "in actual building practice," a considerable improvement over the usual display of standard sections, since many country builders are by no means accustomed to steel frames, and the architect may well have to tell them what to do on the site.

Three basic sections, all made from 16 gauge steel sheet, cover all normal applications. The drawing at the foot of this page shows the standard external section applied to an 11 inch cavity wall, with a galvanised channel lining to seal the cavity. All external frames are supplied galvanised and painted one coat, and have steel angle thresholds. Internal frames are painted one coat but not galvanised, and are made in three profiles to suit different wall thicknesses. Each of these three sections is supplied in one of two types, either with fixed tie bars across the bottom so that the door frame projects below finished floor level, and the tie bars are built in with the frame, or with a removable tie bar which is fitted only to prevent distortion of the frame, and which is removed and returned after the frame is fixed, the frame being screwed to the existing floor. All types of frame are suitable for B.S. doors up to 2 inch thickness, and have adjust-



Standard shell door frame applied to 11 inch cavity wall with channel used to-seal the cavity.

able striking plates (with proper mortar guards) for mortice or rim locks. Fanlights can also be supplied, the usual method being to extend the door frame to the necessary height and fit a hollow transom. When the frames are to be used with partitions of very light construction tie bars can be provided to run from the tops of the frames to the ceiling joists. Sidelights can also be arranged by using standard steel window sub frames welded or otherwise fixed to the frames.

KITCHEN FITTINGS

Like many other firms, Midland Industries gained considerable experience in the fabrication of aluminium during their war time work on MAP contracts, and have decided to produce kitchen equipment and kindred products. Like most other firms they found that stainless steel sink units were virtually unobtainable, and changed to the cast aluminium types, which tend to become a rather bad colour, especially if used with washing soda. They have therefore evolved a plastic finish which they claim to be unscratchable and almost impossible to chip. Sink units and cabinets are made, to BS. sizes of course, and the firm also produces electric fires, convection heaters, and immersion type towel airers rated at 225 and 150 watts. The latter has



Cream stove enamelled immersion type electric towel airer manufactured by Midland Industries.

adjustable brackets for wall mounting, and sells at £7 7s. (see illustration). Finish is cream stove enamel. (Midland Industries, Ltd., Heath Town Works, Wolverhampton).

PACKAGE KITCHENS

Most readers will no doubt remember the package kitchen which was shown at Dorland Hall in the autumn of 1945. This unit is now in production and, an almost unbelievable fact these days, it is even possible to buy it without priorities, WBA forms or anything else, and deliveries are reasonable. In a width of 63 inches and a height of six foot nine these kitchens contain, from left to right, a cooker, draining board with Electrolux M.151 underneath, and a sink with a plain cupboard below it. Above are two plate racks, shelves, storage cupboard, and a small water heater. Electric and gas models are made, with

Main or GEC cookers, Ascot or Santon heaters, and the same refrigerator operated by gas or electricity. All the plumbing and gas carcasing or electric wiring has already been done, and connections are to be made only to the cold supply, waste, and gas or electricity according to the type in use. Price of the gas unit is £129 complete, with delivery in 10 or 12 weeks, the electric unit being £143, less £8 if you do not need the Santon storage heater; delivery 14 to 16 weeks.

Construction is in light alloy, with doors in extruded section frames covered and lined with sheet, the air space being filled with insulating board to give silence. (Julius Trup & Co., Ltd., Park View Road, Tottenham, London, N.17.)

SOFTWOOD SUPPLIES

Mr. Bevan has already said that the limiting factor in the housing programme is timber, yet no really adequate explanation has so far been given for an unparalleled shortage when the world remains as rich as ever in standing timber. During 1946 Timber Control could buy no more than 727 thousand standards against a pre-war average import of 2,307 thousand. They must also go cap in hand buying in small parcels in a sellers' market, with the result that they have to accept what sizes and specifications are readily available. This reacts on the joiner, who is forced to accept grades and sizes which involve wasteful conversion. Board of Trade figures for current and pre-war years are interesting, and cover sawn and planed softwood imports, excluding boxboards and railway sleepers.

Imports fro	m	Ave	erage '34-'38	1946	
Canada			427,400	324,137	
Finland			596,200	106,474	
Sweden			433,000	187,291	
Russia			434,200	11,452	
Latvia and	Esthor	nia	118,900	None	
Poland			184,400	None	
Germany			Small	55,591	
Austria			Small	None	
Czechoslova	akia		4.600	1.017	
America			44,800	28,423	
Brazil			None	2,177	
Others			64,100	1,044	

2,307,600 727,606

The above figures are in standards.

While the Canadian figure keeps pretty well up, the others mostly show severe drops. Russian rehousing limits any export surplus, and she has actually become an importer, drawing supplies from Finland, though no doubt the majority of this is against reparation payments. Sweden has been compelled to withdraw labour from the sawmills and transfer it to the preparation of wood fuel, and anyway wants us to pay her in coal: last year an acquaintance of mine saw, in the middle of a Swedish forest, a house being built of concrete blocks, which seems to show that Sweden has plenty of troubles of her own, even if she made a nice war time packet from treble payments to the ball bearing industry. Finland needs iron and steel, and her contribution is unlikely to increase.

Home grown softwood output was almost nil before the war, but rose to 179,000 standards in 1940, and reached a peak of 288,177 in 1943. Last year it had dropped to 88,000, and wide areas of fir and spruce are little more than stumps. No particular

are little more than stumps. No particular help to be expected here. In the circumstances the Board of Trade considers it unlikely that there can be any improvement in the first half of this year. Unless there are any unexpected developments it is difficult to see that supplies can possibly improve before the beginning of next year at the earliest.

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

ENQUIRY FORM

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Please as particulars		ufactur er :	to send	l further
NAME			***********	***********
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Announcements

Photographs of thirty-one signs bankers, brewers and others and specimens of the lettering cast for fascias and the inscription of public buildings are illustrated in Signs, a brochure issued by the Morris Singer Company. Among the architects un-Singer Company. Among the architects under whose supervision the firm has made signs are Sir Herbert Baker, R.A., and A. T. Scott; T. P. Bennett and Son; Campbell Jones, Sons and Smithers; S. W. Davis; L. L. Dussault; Gale, Heath and Sneath; Albert Victor Heal; J. C. F. James; Mewes and Davis, A.R.A.; F. C. Bayliss, and others.

Mr. Richard Sudell, F.I.L.A., landscape architect, has moved to 94, Jermyn Street, Westminster, London, S.W.1. Telephone: Whitehall 6461.

Mr. Thomas W. East, F.R.I.B.A., Borough Architect, The Council House, Corporation Street, Derby, would be glad to receive trade catalogues.

Mr. E. H. Paisley, B.ARCH. (McGill), F.R.I.B.A., 142, Windsor House, 46, Victoria Street, London, S.W.1, would like to receive manufacturers' catalogues.

The River Wear Commissioners of Sunderland have placed a contract with Messrs. Head Wrightson and Co., engineers, of Thornaby-on-Tees, for the supply and erec-tion of a twin leaf bascule bridge to be manufactured in aluminium alloy. manufactured in aluminium alloy. This will be the first aluminium moving bridge in the world and follows a year's development work undertaken by their subsidiary company, Head Wrightson Light Alloy Structures Ltd. When oren the bridge vill give a clear waterway of 90 feet. The engineer to the River Wear Commissioners is Mr. W. H. F. Tripp.

Mr. Henry J. Cone, P.A.S.L. A.M.T.P.I., of 160, Bath Street, Glasgow, C.2, has opened a sub-office at 34, Great King Street, Dumfries.

Mr. D. M. Pate, Registe ed Arc has removed from Rickmans orth, H . 6. Harding Street, Surrey alls, Mei Australia.

Mr. R. W. P. Holt, M.I. ECH.E., has been appointed to the board of the Widnes Foundry and Engineering Co., Ltd. He Foundry and Engineering Co., Ltd. He first joined the company on reorganisation in 1925, and saw "!. hat period of evolution which culminate in the acquisition of the business by Thos. W. Wa.d. Ltd., in 1937. The Bristol Aeroplane company (Housing), Ltd., Weston-super-h. ", and Structural and Mechanical he expense they are now collaborating in the design, development, and manufacture of prefairciated buildings and building components of all kinds. Enquiries both for home and overseas requirements, should be sent to the Bristol Aeroments, should be sent to be Bristol Aero-plane Company (Housing), Etd., Weston-super-Mare, or Structural and Mechanical Development Engineers, Limited, Bucking-ham Avenue, Trading Estatz, Slough.

Mr. J. K. Hicks, F.R.I.B.A., A.A.DIPL., has resigned his appointment as Head of the Senior School (comprising the Departments of Architecture, Building, Structural Engineering and Surveying) of the LCC Brixton School of Building, S.W.A. and device him. School of Building, S.W.4, and devoting his whole time to private practice in partner-ship with Mr. E. C. Scherrer, M.A., F.R.I.B.A., at 310, Upper Regent Street, London, W.1.

Editoriale Domus. The I lian publishers announce that 10 issues of Domus will be published during 1947. Of these, three will be devoted to architectur (the first on Schools), four to interior decoration and three to the arts. Subscrations may be placed for all 10 issues at cost of 6,000 lire, or for any of the three actions separately, the cost then being 2 200, 2,400 and 2,600 lire respectively. Order may be placed either through an English bookseller or direct with the publishers.





These illustrations show Henley Cables being laid by the Luton Electricity Uncertaking, at the Corporation's essite of Leagrave.

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been He a:ion ution f the 1937. lousstruc-Enginow ment. dings uire-Aerostonnical kinghas f the nents Engiixton g his tner-M.A., treet, shers ll be will and 6,000 eparand laced

Li e many local councils playing an active part in the Nation's housing programme, Luton are using Henley Cables to carry the current.

Luton uses

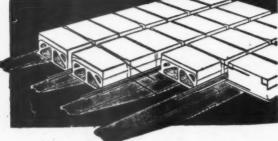
(ABLES

Famous for over a Century

W.T. HENLEY'S TELEGRAPH WORKS CO. LTD. 51-53, HATTON GARDEN, LONDON, E.C.I







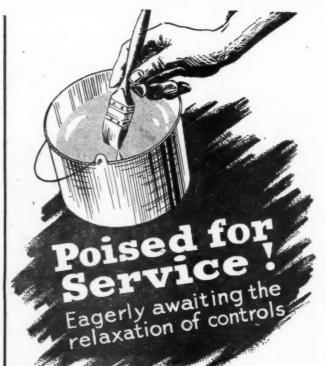
The SMITH TWO-WAY reinforced fireprooffloor can be employed immediately for any flooring or roofing requirement. It is constructed with standardised pre-cast hollow concrete blocks.

The employment of patent telescopic centers permits the immediate use of the floor with the additional advantage of their removal in the minimum of time.

Limited quantities of TRIANCO TELESCOPIC CENTERS are now available for use in connection with suspended floors of all types, writer to phone without delay.

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materials of pre-war quality. All opening sashes are double-weathered and hung on brass cup-pivots. The steel glazing bars are, of course, of the well-known "Paragon" type and standard, being of completely

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There is a series of Bulldog Solutions graded for different adhesive purposes just as there is a whole series of Bostik Compounds, and Bulldog Solutions are made by the manufacturers of Bostik Adhesives. Bulldog Solutions are extensively used in the Aircraft, Automobile and many other industries, sticking Rubber to Rubber, Fabric and Leather Cloth to Wood and for various Upholstery purposes. Bulldog Solution plus Bostik 321 gives secure adhesion of upholstery materials to METAL. Not only do Bostik adhesives provide a powerful resilient joint that lasts and lasts, but, by using the appropriate grade the joint can be made resistant to water, to petrol, or oil.

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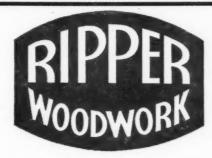
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RIPPER STANDARD CASEMENT WINDOWS

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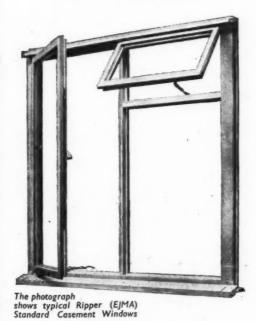
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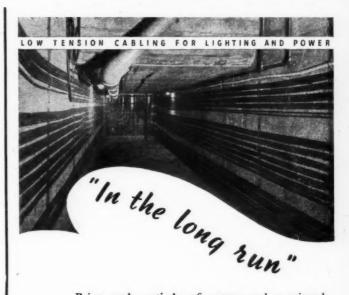


Wherever there is more than one practicable way of resolving a manufacturing problem, the House of Ripper interprets it in terms of best possible quality. That is why Ripper products—such as the Standard Casement Window pictured here—are outstanding and to B.S.I. specification

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Being made entirely of copper and a mineral insulant "Pyrotenax" M.I.C.C. cables are, for all practical purposes, indestructible and everlasting.

Once installed they require no maintenance or renewal. Installation too, is simple; any form of saddle or clamping device, widely spaced, holds them in position. Their tough copper sheath keeps their mineral insulant intact, even when subjected to the grossest ill-usage. By the same token they cannot be damaged by oil, water or condensation and being inorganic they are inherently fire resistant.

The illustration shows the "Pyrotenax" installation of Control Cables in the tunnel to the Switch House at the I.C.I. Metals Ltd., Kynoch Works. Note that no conduits are used.

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"Pyrotenax" is an exclusive trade mark name and must only be used to designate cables and other products manufactured by this Company and its associates.

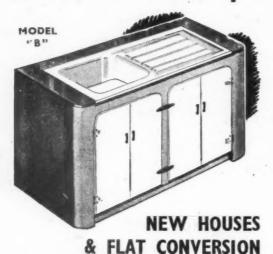
PYROTENAX LIMITED, HEBBURN, CO. DURHAM.

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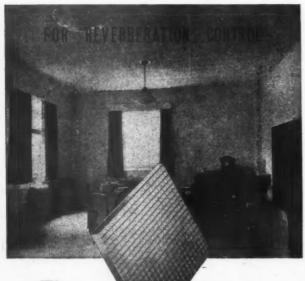
The MILBRITE range of Kitchen Cabinets can now be supplied from stock to builders for new houses or flat conversions. Model B is all aluminium, rustproof and beautifully finished in green and cream. It embodies sink, draining-board and

cupboards for buckets, cloths, etc. One cupboard can accommodate wash-boiler. Sink right or left. Size 4 9" x 3 x 2. Square corners or round end-pieces.

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This carriage building shed, recently constructed for the L.N.E.R., is a typical example of Wright, Anderson craftsmanship.

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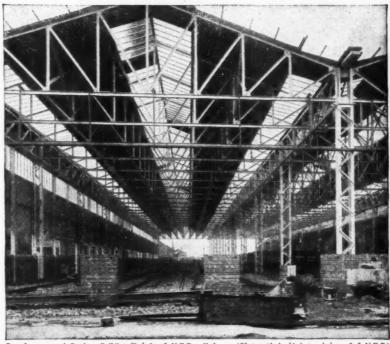


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ecently constructed Carriage Building Sied for L.N.E.R., York. (Photograph by kind permission of L.N.E.R.)

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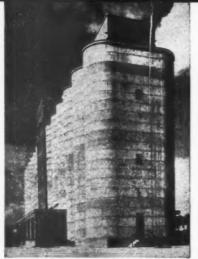
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We would like to meet the whims and fancies of your cus-

tomers. We believe it is the customer's right to have the widest possible choice ... and one day we will cater for that right. But meantime we are tooled up to achieve the greatest possible production of a small standard range of products—to serve the mass rather than the individual.

The housing situation demands this course.

Therefore, we must regretfully ask you to confine your orders to our standard products, sizes and loadings.

Behind the scenes our development engineers and designers are planning products for the individual . . . but we will tell you about them when the time arrives.

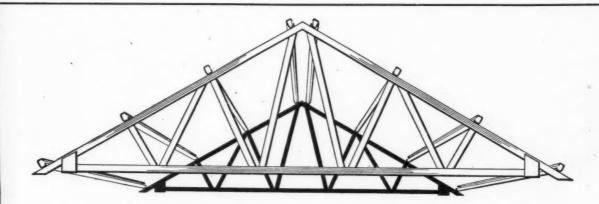
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This roof truss with a span of 20 feet and truss centres at 6' 8" has a total weight of only 108 lbs. It is a typical example of the weight-saving characteristics of metal sections in building work. Wherever great strength is called for with minimum weight and least trouble in construction, consult Metal Sections Ltd. - specialist producers and fabricators of cold metal sections

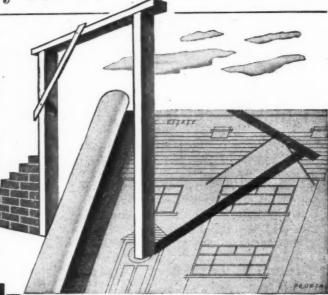
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NOW, while planning the building, is the time to take effective precautions against Dry Rot. In these days of scarcity, you can't afford to waste timber by using it unprotected. Timber should be treated with Cuprinol before building in, especially in such vulnerable places as joists, floor boards, wall plates, etc. Cuprinol treatment by brush, spray or immersion thoroughly impregnates the fibres of the wood with organo-metallic salts of zinc or copper, giving lasting protection from all attacks by Dry Rot or boring insects.

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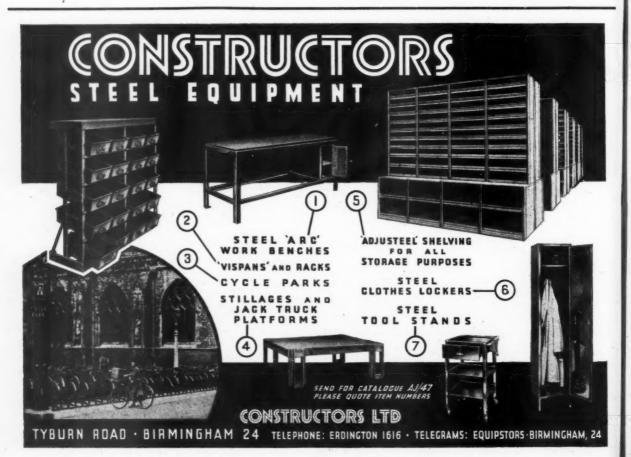
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CLASSIFIED ADVERTISEMENTS

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.

Public and Official Announcements

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

Ins. incorporated Apsociation of Architects and Surveyors Laintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners naving staff vacancies. Address: 75, Earon Plaus. London, S.W.I. The Shoams 5615. 991

VACANCIES FOR PLANNING STAFF IN THE ARCHITECT'S DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN. Applications are invited for a number of positions in the following grades:—
PLANNING OFFICER (Grade III), up to £700 a year.

PLANNING OFFICER (Grade III), up to £700 a year.
TECHNICAL ASSISTANT, up to £580 a year.
Commencing rate of pay will be according to qualifications and experience.
There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.
The planning work involved includes assistance in the detailed development of Reconstruction Area schemes, and the preparation of revised zoning plans.
A knowledge of current town planning legislation is desirable in all cases, and candidates for Grade III positions should possess architectural or surveying or town planning qualifications.
Other things being equal, preference will be given to candidates registered under the Disabled Persons (Employment) Act, 1944, and ex-Service men and women will also receive special consideration.
Application should be made to the Architect to

persons (Employmens) also receive special men and women will also receive special sideration.

Application should be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for forms of application (enclosing stamped addressed envelope), returnable not later than ten days from this date.

Canvassing disqualifies.

983

ROROUGH OF NEATH.

APPOINTMENT OF ARCHITECTURAL

Applications are invited from qualified persons for the permanent appointment of Architectural Assistant (Grade III), in the Borough Engineer and Surveyor's Department.

Candidates must be Associate Members of the Royal Institute of British Architects, or hold an equivalent qualification, and have general knowledge and experience of architectural and housing work.

e salary will be in accordance with Grade III he National Salary Scales, i.e., £390-£435 per im, and war bonus (at present £59 16s. per

annum, and war bonus (at present £59 los. per annum).

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

Applications must be delivered to the Town Clerk, together with copies of three recent testimonials, not later than Wednesday, the 30th April, 1947.

A. E. I. CURTIS,
Town Clerk.
Clerk's Office, Queen Street, Neath. April, 1947.

BOROUGH OF CHELMSFORD.

BNGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments within the scale stated,
plus cost-of-living bonus, at present £59 fds.

(a) PLANNING ASSISTANT (Grade V).

Salary £400-£456 per annum.

(b) QUANTITY SURVEYOR (Grade IV).

Salary £400-£456 per annum.

Salary £460-£510 per annum.
(b) QTANTITY \$URNEYOR (Grade IV).
Salary £420-£465 per annum.
(c) ARCHITECTURAL ASSISTANT (Grade III). Salary £390-£436 per annum.
Applicants must have the recognized qualifications and experience for the various appointments, which are subject to the provisions and conditions of service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and will be terminable by one month's notice on either side.

side.

Applications, stating age, qualifications, present and previous appointments, and general experience, together with copies of three recent testimonials, should be forwarded to reach the undersigned by not later than Monday, 21st April, 1947. Canvassing in any form will disquality.

VINCENT J. WILLIS, M. Inast. M. & Cy. E., Borough Engineer and Strveyor.

Municipal Offices, Rainsford House,
Duke Street, Chelmsford.

728

COUNTY BOROUGH OF DARLINGTON.
BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the following
ppointments:—

(i) TWO ABCHITECTURAL ASSISTANTS.

D.T.

Applications are invited for the following appointments:

(i) TWO ABCHITECTURAL ASSISTANTS. A.P.T., Grade V (2460-£510).

(ii) ONE ARCHITECTURAL ASSISTANT. A.P.T., Grade IV (£420-£450).

(iii) ONE ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade IV (£420-£465).

A cost-of-living bonus of £59 19s. 3d. per annum will be paid in addition to the above salaries. Preference will be given to candidates with experience on Housing or Education work, and for appointment (i) to candidates who have passed the Associateship Examination of the Royal Institute of British Architects.

Forms of application to be obtained from E. Tornbohm, A.R.I.B.A., A.M.T.P.I., Borough Architect, Town Hall, Darlington, and should be delivered to the Town Clerk, 11. Houndgate, Darlington, on or before Monday, 21st April. 1947. Canvassing, directly or indirectly, will diaguality.

BOROUGH OF COLCHESTER.
BOROUGH ENGINEER'S DEPARTMENT.
ARCHITECTURAL SECTION.
Applications are invited for the following temorary appointment:—

Applications are invited for the following temporary appointment:—
QUANTITY SURVEYOR. Salary, Grade VI,
£535 to £600 per annum. In addition to salary,
cost-of-living bonus £59 16s. per annum.
Applicants should hold appropriate professional
qualifications, and be accustomed to the preparation of Bills of Quantities, Specifications,
Estimates, and settlement of final measurements
in connection with housing and other building
works.
Applications

works.
Applications, stating age, qualifications, and full details of experience, together with copies of two recent testimonials, should be sent to me, the undersigned, as soon as possible.

HAROLD COLLINS, Assoc.M.Inst.C.E.,
Borough Engineer.

Town Hall, Colchester.

HAROLD COLLINS, Assoc.M.Inst.U.E.,
Borough Engineer.

Town Hall, Colchester.

Frown Hall, Colchester.

Town Hall, Colchester.

694

HAILSHAM RURAL DISTRICT COUNCIL.
Applications are invited for the following permanent appointments, in the Department of the Engineer and Surveyor:—

(a) SENIOR TECHNICAL ASSISTANT (HOUSING), at a salary on Grade IV of the A.P.T. Division of National Scale (£420-£455), plus bonus, at present £59 16s. per annum. The commencing salary will be fixed with regard to the applicant's qualifications and experience. Applicants should have passed the final examination of the Royal Institute of British Architects, the Institution of Civil Engineers, or the Institution of Municipal Engineers, or hold an equivalent qualification. In addition candidates must be thoroughly experienced in housing work, including the preparation of specifications and Bills of Quantities.

It will be an advantage if the applicant can provide a motor car for the performance of his duties, an allowance for which will be paid on the Council's scale.

(b) SENIOR TECHNICAL ASSISTANT (SEWERAGE), at a salary on Grade III of the A.P.T. Division of the National Scale (£390-£435), plus bonus, at present £59 16s, per annum. Applicants should have passed the qualifying examination of a recognized Engineering Institution, and be experienced in the design of sewers and sewage disposal works.

It will be an advantage if the applicant can provide a motor car for the performance of his duties, an allowance for which will be paid on the Council's scale.

(c) JUNIOR TECHNICAL ASSISTANT, at a salary on Grade I of the A.P.T. Division of the National Scale (£303-£375), plus bonus, at present £59 16s. per annum. Applicants should have passed the examination of a recognized Engineering Institution, and be capable draughtsmen and surveyors.

The appointments will be subject to the provisions of the Local Government Superannuation on either side.

Applications, appropriately endorsed, stating age, qualifications, appropriately endorsed, stat

on either side.

Applications, appropriately endorsed, stating age, qualifications, experience, and past and present appointments, accompanied by copies of three recent testimonials, must reach the undersigned not later than Monday, 28th April, 1947.

Canvassing, directly or indirectly, will disqualify.

A. CARR.
Clerk to the Council.

Cortlandt, Hailsham, Sussex.

COUNTY BOROUGH OF WEST HAM.

Applications are invited for the following

Applications are invited for the following posts:—

ARCHITECTURAL ASSISTANT (HOUSING),
A.P.T., Grade IV, at a salary of £420-£15-£15-£456 (plus £20 London weighting and bonus £59 16s.) per annum.

ARCHITECTURAL ASSISTANT (EDUCA-TION), A.P.T., Grade II, at a salary of £560-£15-£15-£466 (plus £20 London weighting and bonus £59 16s.) per annum.

Full particulars of duties, terms of appointment and an application, may be obtained from Thomas E. North. F.R.I.B.A., Borough Architect and Planning Officer, 100, West Ham Lane, E.15. to whom it must be returned not later than Saturday, 26th April, 1947.

E. B. KING,

Town Hall, West Ham, E.15. 730

Town Hall, West Ham, E.15.

LONDON COUNTY COUNCIL.

ARCHITECTURAL ASSISTANTS.

Applications are invited for positions of Architectural Assistants in the Housing and Valuation Department, at consolidated salaries of up to £580 a year. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the department on the occurrence of vacancies. Engagement will involve contribution to the Council's Saperannuation and Provident Fund. Successful candidates will be required to undertake work in connection with the design and development of housing schemes (cottages and multi-storey flats). Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1. (stamped addressed foolscap envelope required).

CITY OF LEEDS.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT QUANTITY SURVEYORS (Class 1). The commencing salary will be £460 per annum, rising by annual increments to a maximum of £660 per annum, applicants should be suitably qualified, and have had pre-war experience in "taking off," preferably on large contracts, i.e., Schools, Hospitals, etc.

(b) ASSISTANT QUANTITY SURVEYORS (Class 2). The commencing salary will £390 per annum, rising by annual increments to a maximum of £435 per annum. Measuring Surveyors, with extensive experience on large contracts, "workers up" with pre-war experience, preferably of Local Government contracts.

contracts.

contracts.

Applicants should be suitably qualified, and have had pre-war experience in "taking off," preferably on large contracts, i.e., Schools, Hospitals, etc.

(c) ASSISTANT ARCHITECTS. The commencing salary will be £535 per annum, rising by annual increments to a maximum of £600 per

annum.

(d) ASSISTANT ARCHITECTS. The commencing salary will be £420 per annum, rising by annual increments to a maximum of £465 per

annum.

(e) ASSISTANT ARCHITECTS. The commencing salary will be £390 per annum, rising by annual increments to a maximum of £435 per

oy annual increments to a maximum of 2435 per annum.

(f) ASSISTANT ARCHITECTS. The commencing salary will be £330 per annum, rising by annual increments to a maximum of £375 per annum.

Candidates must be Registered Architects, and have had a thorough training and experience in Architectural design and construction of Schools and School Buildings, or Public Buildings.

(g) MATERIALS CLERK. The commencing salary will be £315 per annum, rising by annual increments to a maximum of £360 per annum.

Candidates must have had a wide experience of the Building Trade and the supply of Building Materials.

the Building Trade and the supply of Bulluing Materials.

(h) DRAUGHTSMAN (Male or Female). The commencing salary will be £255 per annum. rising by annual increments to a maximum of £300 per

ainum.

(j) TRACERS (Male or Female). The commencing salary will be according to age, rising to a maximum of £240 per annum in the case of females, and a maximum of £300 in the case of

males.
(k) CLERK OF WORKS (ELECTRICAL). The commencing salary will be £330 per annum, rising by annual increments to a maximum of £375 per

annum.

(I) ASSISTANT SURVEYORS. The commencing salary will be £390 per annum, rising by annual increments to a maximum of £465 per

Candidates should have had extensive experi-nce in surveying and levelling of large sites and

Candidates should have had extensive experience in surveying and levelling of large sites and buildings.

Cost-of-living bonus, which is additional to the above scales, is at present at the rate of £59 16s, per annum in the case of adult male officers and £48 2s. in the case of adult female officers.

In each case the payment of salary increments will be subject to satisfactory service, and will be granted normally with effect from the 1st April following the completion of six months' service, except in the case of appoint (i), when birthday increments will be payable.

Sympathetic consideration will be given to married applicants regarding housing accommodation.

married applicants regarding housing accommodation.

The appointments will be subject to the Local Government Superannustion Act. 1937, and the successful applicants will be required to pase a medical examination.

Applications, on forms to be obtained from the undersigned, acompanied by copies of not more than three recent testimonials (not returnable), must be received by me in the envelope supplied therefor not later than 10 a.m. on Saturday, the 26th April, 1947.

Canvassing in any form, either directly or indirectly, will be a disqualification.

R. A. H. LIVETT, O.B.E., A.R.I.B.A.,

R. A. H. LIVETT, O.B.E., A.R.I.B.A.,

City Architect.,
April, 1947.

COUNTY BOROUGH OF BURNLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the following posi-

Applications are invited for the following positions:—

(1) SENIOR ARCHITECTURAL ASSISTANT (Grade V), £460-£510, plus bonus, at present £59 f6s. per annum. Applicants should have had experience in the design of Educational Buildings, and preference will be given to Associates of the Royal Institute of British Architects.

(2) SENIOR ENGINEERING ASSISTANT (Grade V), £460-£510, plus bonus, at present £59 f6s. per annum. Applicants should have had considerable experience in structural design of all types, and preference will be given to Associate Members of the Institution of Civil Engineers or holders of the Testamur of the Institute of Municipal Engineers.

(3) ENGINEERING ASSISTANT (Grade I), £330-£375, plus bonus, at present £59 f6s. per annum.

annum.

Applicants should have had experience in a municipal engineer's office, and have completed articled pupilage or a recognized engineering course at a University or other approved establishment.

course at a University of other approved establishment.

The commencing salary for the successful applicants for appointments (1) and (2) will be fixed according to experience and qualifications.
Conditions of service are those formulated by the National Joint Council, and all appointments are on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination.
Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Burnley, to whom applications should be returned in the envelope provided, not later than noon on Wednesday, 30th April, 1947.

Town Hall, Burnley.

Town Hall, Burnley. 3rd April, 1947.

SALOP COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments, to established posts in the (1) Architectural, (2) Quantity Surveying, and (3) Engineering Sections of the Department:—
(1) ARCHITECTURAL:
CHIEF ASSISTANT ARCHITECT. Salary \$2700 \times 225 \times 2800 \text{ per annum.}

2700 × 225 - 2800 per annum. SENIOR SECTION HEADS. Grade A.P.T., VII-VIII, 2575 × 225 - 2700 per annum. SECTION HEADS. Grade A.P.T., VI-VII,

VII-VIII. £575 × £25—£700 per annum.

SECTION HEADS. Grade A.P.T., VI-VII,

£535 × £20 × £25—£650 per annum.

SENIOR ASSISTANT ARCHITECTS. Grade

A.P.T., V. £460 × £15 × £20—£510 per annum.

(2) QUANTITY SURVEYING:

CHIEF QUANTITY SURVEYOR. Salary

£700 × £25—£800 per annum.

SENIOR ASSISTANT QUANTITY SUR
VEYORS. Grade A.P.T., IV-V. £420 × £15 × £20—

£510 per annum.

ASSISTANT QUANTITY SUR
LIIII. £360 × £15—£435 per annum.

(3) £NGINEERING:

ENGINEERING ASSISTANT. Grade A.P.T.,

III-IV. £390 × £15—£450 per annum.

A cost-of-living bonus, at present £59 16s. per annum. will be parable in addition to all salary scales above.

The appointments will he subject to one month's

annum, will be pasable in addition to all salary scales above.

The appointments will be subject to one month's notice in writing on either side: to the terms of the National Joint Council's Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937.

Successful applicants will be required to pass a medical examination.

Applications should be accompanied by copies of not more than three recent testimonials, and must state age, educational and professional qualifications, previous experience fitting candidates for the appropriate appointments for which they are applying, with details of any knowledge of Local Government administration or procedure in the case of senior appointments. These applications must be received by Mr. A. G. Chant, F.R.I.B.A., County Architect, 5, Belmont, Shrewsbury, not later than Thursday, 1st May, 1947.

G. C. GODBER.

Clerk of the Council.

Shirehall, Shrewsbury.

Shirehall, Shrewsbury. April, 1947.

COUNTY BOROUGH OF EAST HAM EDUCATION COMMITTEE.

EAST HAM TECHNICAL COLLEGE.

Principal: A. J. JINKINOS, B.Sc., Ph.D. A.R.I.C.

Applications are invited for the post of Fulltime LECTURER in Building Construction and
allied subjects for Senior Full-time Day and Parttime Day and Evening Courses, in the Department of Building.

Applicants should hold a professional qualification (e.g., A.R.I.B.A., P.A.S.I., I.I.O.B.,
A.M.Inst.M. & Cy. Eng.), and have had suitable
industrial experience.

Salary in accordance with the Burnham
(Technical) Scale, London area.

Further particulars, and form of application,
which should be returned not later than 10th
May, 1947, can be obtained from the undersigned.

(Sgd.) L. JOHN DYER,

(Sgd.) L. JOHN DYER,
Barking Road, East Ham, E.5.

718

WOKING URBAN DISTRICT COUNCIL. APPOINTMENT OF FIRST ARCHITECTURAL ASSISTANT.

ASSISTANT.

Applications are invited for the above permanent appointment, in the Engineer and Surveyor's Department, at a salary in accordance with A.P.T. Division, Grade III or IV, of the National Joint Scales, according to qualifications and experience.

The appointment, which may be terminated by one month's written notice on either side is

one month's written notice on either side, is subject to the provisions of the Local Govern-ment Superannuation Act, 1937, and the successful candidate will be required to pass a medical

candidate will be required to assume that the control of application may be obtained from Mr. H. P. Tame, A.M.I.C.E., M.T.P.I., Registered Architect, Engineer and Surveyor, Council Offices, Woking, and must be delivered, in a plain sealed envelope, endorsed "Architectural Assistant," to the undersigned not later than 25th April, 1947.

F. H. SMITH,

Clerk to the Council.

Council Offices, Woking. 27th March, 1947.

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:
ASSISTANT QUANTITY SURVEYOR (Grade

VI), at a commencing salary of £535, rising by annual increments of £25-£25 to a maximum of

annual increments of £25-£25 to a maximum of £600 per anum.

Preference will be given to applicants who are members of the Surveyors' Institution (Quantities Sub-Division), and who have an adequate experience in the preparation of Bills of Quantities, and in measuring up and in settlement of final accounts. accounts.

accounts.

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

GENERAL ARCHITECTURAL ASSISTANT, at a salary of £260 per annum, plus bonus, at present at the rate of £59 18s, per annum.

Applicants should be of good general training and experience.

Applicants should be of good general training of experience.
Applications, stating age, qualifications and exercince, and accompanied by copies of three ecent testimonials, should be sent to the County rechitect, Surrey County Council, County Hall, lingston-upon-Thames, not later than the 26th areil 1447.

April. 1947.
Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

DUDLEY AUKLAND,
Clerk of the Council.
County Hall, Kingston-upon-Thames. 712

THE COUNCIL OF INDUSTRIAL DESIGN requires an ASSISTANT ADMINISTRATIVE OFFICER, with experience in placing contracts and controlling permanent and temporary staff. Knowledge of dealing with Architects, Building Contractors, Interior Decorators, etc., desirable. Salary £750-£950, according to experience. Applications, giving full particulars, including posts held, should be sent in verifing to The Establishment Officer, The Council of Industrial Design, Tilbury House, Petty France, S.W.1. 711



SOMERSET COUNTY COUNCIL.
APPOINTMENT OF DEPUTY COUNTY
ARCHITECT.
Applications are invited for the appointment of
Deputy County Architect, at a salary of £800
per annum, rising by annual increments of £50 to
£1,000 per annum, plus cost-of-living bonus, at
present £59 19s, per annum.
Candidates must have passed the qualifying examination for A.R.I.B.A., must be competent
Architects proficient in design, and with experience of the work of a Public Architect's Department. Only candidates with experience in the
control of staff and Committee procedure need
apply. The duties will include deputising for
the County Architect at Committees, Conferences,
etc., as occasion demands.

etc., as occasion demands.

The appointment will be subject to the rules and regulations of the County Council from time to time in force, the provisions of the Local Government Superannuation Acts, 1937 and 1939, and to the passing satisfactorily of a medical examination by the Council's Medical Officer of Health

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Health.

Canvassing of any form will be a disqualification, and every candidate should disclose whetherto his knowledge he is related to any Member'
of the Authority or to a holder of any senior
office under the Authority.

Applications, stating age, training, experience
and qualifications, together with copies of three
recent testimonials, should be sent to the undersigned not later than the 28th April, 1947.

R. O. HARRIS, F.R.I.B.A.,

County Architect.

Park Street, Taunton, Somerset.

Park Street, Taunton, Somerset. 8th April, 1947.

8th April, 1947.

ST. ALBANS CITY COUNCIL.

CITY ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following appointments in the above Department:—

(a) TOWN PLANNING ASSISTANT (Permanent). Salary, Grade IV, A.P.T. Division, £420×£15—£465, plus current cost-of-living bonus, £59 16s. per annum. Applicants must (a) have had previous Town Planning experience with a Local Authority, and be conversant with the various Acts and Orders; (b) have passed the final examination of the Town Planning Institute. Preference will be given to those holding an Architectural or Surveying qualification in addition. additio

an Architectural or Surveying qualification in addition.

(b) ARCHITECTURAL ASSISTANT (Temporary). Salary £400, plus current cost-of-living bonus, £59 16s. per annum. Applicants must possess an Architectural qualification, and have had experience in the preparation of plans, working drawings, specifications and layouts of modern Municipal Housing Estates, including surveying and levelling. The appointment will be for a period of at least 3 years, subject to satisfactory service.

(c) COSTING CLERK (Permanent). Salary, Miscellaneous Division, Grade I, £255 £215 £250, plus current cost-of-living bonus, £59 16s. per annum. Applicants should have had extensive experience in general office routine, be conversant with the making up of wages, costing, stores and accounts. Preference will be given to candidates possessing experience of a Municipal Engineer's Office.

Office.

The appointments will be subject to one month's notice on either side, to the successful applicants passing a medical examination, to the provisions of the Local Government Superannuation Act. 1937, and to the Scheme of Conditions of Service of the National Joint Council for Local Authorities, Administrative, Professional. Technical and Clerical services.

Applications in writing, stating age and experience, together with copies of two recent testimonials, should be received by me not later than Monday, 5th May, 1947

S. H. E. CRANE.

S. H. E. CRANE, Town Clerk. Town Clerk's Office, 38, St. Peter's Street, St. Albans.

WEST SUFFOLK COUNTY COUNCIL.
Applications are invited for the undermentioned appointment in the County Architect's Department. Salary as indicated, in accordance with the National Joint Council salary scale, plus cost-of-living bonus (at present £60 per annum); position on scale according to qualifications. viz.:—

ASSISTANT ARCHITECT (A.P.T., Grade V),

2460-2510.
Travelling allowance in accordance with County Scale.
Candidates must be registered Architects, preferably Associates of the Royal Institute of British Architects. They must be thoroughly experienced in architectural design, and capable of preparing preliminary sketch plans, complete working drawings and specifications, without The appointment will be terminable by one month's notice in writing

supervision.

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

Government Supersuccessful candidate will be required successful candidate will be required successful candidate will be required to medical examination. May be obtained from the undersigned, by whom applications, accompanied by three recent testimonials, should be received not later than Monday, 28th April, 1947.

L. G. H. MUNSEY,

Clerk of the County Council.

Shire Hall, Bury St. Edmunds. 3rd April, 1947.

GOVERNMENT OF NORTHERN IRELAND.
MINISTRY OF FINANCE.
WORKS AND PUBLIC BUILDINGS.
APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.

APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.
Applications are invited for a number of (temporary) appointments as Architectural Assistants, for general drawing office duties in connection with the preparation of working drawings and details. Preference will be given to candidates who have passed the Intermediate examination of the R.I.B.A., or who have pursued a recognized course of training, combined with some experience in an Architect's office.

Remuneration: Successful candidates will be remunerated within the salary range £300-£540 (inclusive), and the commencing salary within this range will be fixed according to the ability and experience of successful candidates.

Although the appointments will be temporary, it is expected that they will last for at least two years, and that a limited number of permanent appointments will eventually be made on a competitive basis.

Preference will be given to candidates who served with H.M. Forces during the 1914-18 or the 1959-36 war, providing the Ministry is satisfied that such candidates can, or, within a reasonable time, will be able to discharge the duties of the post efficiently.

Closing date for receipt of applications: Applications must reach the Assistant Secretary (Establishments). Ministry of Finance, Stormont, Belfast, on or before the 5th May, 1947. Applicants should state their date of birth, and give full particulars of qualifications and experience. They should also enclose copies of two recent testimonials.

THE POLYTECHNIC, 309, REGENT STREET, W.1.
SCHOOL OF ARCHITECTURE. SURVEYING, AND BUILDING.

AND BUILDING.

as possible a Full-time TEACHER OF SURVEYING AND BUILDING subjects. Candidates should possess a professional qualification in Surveying.

Salary in accordance with the Burnham (Technical) Scale for London, subject to the usual deduction of 5 per cent. for superannuation. Forms of application, which should be returned not later than 10th May, 1947, may be obtained by sending a stamped addressed foolscap envelope to the undersigned.

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COUNTY BOROUGH OF WEST HARTLEPOOL.
BOROUGH ARCHITECT'S DEPARTMENT.
APPOINTMENT OF TWO ARCHITECTURAL
ASSISTANTS.

Applications are invited for the appointment of
two Architectural Assistants, in the Borough
Architect's Department, at a salary in accordance with Grade A.P.T., II (£352-£405), or Grade
A.P.T., III (£392-£435) of the National Scales,
plus the appropriate cost-of-living bonus, which
at the present time amounts to £59 16s. The
salary payable will be in accordance with the
experience of the persons appointed.
Preference will be given to applicants who have
had previous experience in Local Government.
The appointment will be subject to one month's
notice in writing on either side, and the
successful candidates will be required to pass a
medical examination for the purposes of the
Local Government Superannuation Act, 1937.
Applications, endorsed "Architectural Assistant," stating age, qualifications and experience,
together with copies of not more than three
recent testimonials, should be delivered to the
undersigned not later than Saturday, 3rd May.
Canvassing, directly or indirectly, will be a
disqualification.

ERIC J. WAGGOTT.

disqualification.

ERIC J. WAGGOTT, West Hartlepool

West Hartlepool.

Town Clerk.

742

SINGAPORE IMPROVEMENT TRUST.

Applications are invited by the Singapore Improvement Trust for the post of ASSISTANT ARCHITECT and TOWN PLANNER.

The post is a Class III appointment in the Senior Officers. Salary scheme, \$400×\$25–\$600×\$40-\$900 per mensem Malayan currency. The dollar is equivalent to 2s. 4d. Entry point on the salary scale between \$500-\$600, according to the qualifications and experience of the successful applicant, who should be under 35 years of age.

There is a cost-of-living allowance, at present \$10. plus 20 per cent. of salary in the case of a single man, and \$10, plus 30 per cent. of salary for a married man. The maximum salary on which the allowance is calculated is \$500 a month. A transport allowance will be paid. Staff quarters are usually available, but housing allowance will be paid in lieu of same if these are not available.

Applicants must be qualified by examination as Associates of the Royal Institute of British Architects, and a Town Planning qualification is desirable. A knowledge of the British Housing and Town Planning Acts is required, and candidates should have had some experience of housing and sum clearance schemes, including the layout and construction of new housing estates.

The successful applicant will be required to

enter into a three years' agreement in the first instance, and will be eligible for appointment to the permanent staff (if satisfactory) at the end of three years' service. Strict medical examination. Free passage with half salary during yoyage out. Eight months' leave with full pay is normally granted after four years' service. Applications, stating whether married or single, and giving age and birthplace, with details of education, training and experience, and referring particularly to the qualifications mentioned above, accompanied by copies (not originals) of testimonials, to be lodged with Messrs. Peirce & Williams, Chartered Civil Engineers, 1, Victoria Street, London, S.W.l. Agents to the Trust, not later than 9th May, 1947.

Architectural Appointments Vacant

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

HENRY C. SMART & PARTNERS, Architects, 120, Moorgate, E.C.2, require Assistant; working drawings, details, surveys, etc. Write, stating age, experience, and salary required.

UBVBYORS.—London Architects have vacancies for Surveyors, with experience of damage work; salary, £500-£625 per m. Write, stating age, experience, and bree. Box 645. SUBVEYORS.—London annum. when free.

JUNIOR (14-16) required in Chartered Archi-tect's office; general office work, with prospects in profession. Clark, 44, Gt. Russell Street, W.C.1. Museum 4400.

Street, W.C.1. Museum 4400.

A SSISTANTS required (20-23 years) capable draughtsmen; surveys, working drawings, specifications, etc.; busy private practice. Clark, 44, Gt. Russell Street, W.C.1. Museum 4460. 660

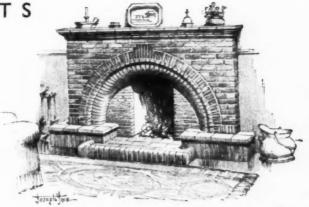
VICTOR KERR & COLBOURN, F.R.I.B.A., require Male ASSISTANT, of at least Inter. R.I.B.A. standard; surveys, working drawings, specifications; scope for initiative and responsibility; £300-£400 p.a., plus bonus. Write 7, Bedford Row, W.C.1.

A RCHITECTURAL ASSISTANT required immediately in busy office; general practice, including houses, factories, licensed premises, etc.; salary £350-£400. Apply, with usual particulars, to Kitching & Co., 21, Albert Road, Middlesbrough.

JUNIOR ASSISTANT (male), about 16 years, required for Architect's office. Write, R.F., 16/17. Tavistock Place, W.C.1.

CHITECTS requiring

details of old English Fireplaces that are available in a wide variety of designs for harmonising with all styles of architecture, or who prefer that their own designs for fireplaces be executed skilfully and faithfully by experienced craftsmen are invited to use the Claygate Service.



The latest catalogue of original Claygate designs for fireplaces is profusely illustrated and contains all essential information for architects. A copy will be sent, post free, on request. Quotations for special designs readily supplied.



5-16 MAY

Claygate old ENGLISH FIREPLACES

CLAYGATE FIREPLACES LTD., CLAYGATE, SURREY

A SSISTANTS required in Architect's Department of a Multiple Company in the Midlands; good prospects and permanency. Applicants are requested to give details of experience, age, and salary required, to Box 680.

A PPLICATIONS are invited by a well-known A firm of Building Contractors in N.W. London for an ARCHITECTURAL ASSISTANT in their Architect's Department; applicants should be to final R.I.B.A. standard, preferably with experience in house and factory design. Box 681.

ARCHITECT, Central London, requires good JUNIOR DRAUGHTSMAN; excellent prospects for suitable man; state age, experience, salary. Box 733.

WELL-KNOWN and old-established Central

A WELL-KNOWN and old-established Central
London Firm require a competent ESTATES
SURVEYOR, to undertake full management,
including blocks of residential flats and weekly
properties. Full details of past experience and
salary required to Box 735.

ARCHITECTURAL ASSISTANT wanted by
firm of Architects in Middle East; must
be good draughtsman; period of engagement
3 years in first place; passages provided.—Reply,
giving brief account of experience and salary required, to Box 738.

ARCHITECT'S SENIOR ASSISTANT ---

A RCHITECT'S SENIOR ASSISTANT required immediately; must be experienced in
factory and industrial undertakings; salary
according to experience and qualifications. Write
Box 196, Phillips Advertising, Thanet House,
Craven Road, W.2.

Craven Road, W.2.

QUALIFIED QUANTITY SURVEYORS for office and on site required by large Oil Company in North-West, for large architectural and civil works of industrial nature; age 30-40. Write, stating full particulars of experience, qualifications and salary required, to Box 739.

S ENIOB ARCHITECTURAL ASSISTANTS required, with experience in industrial and commercial buildings; salary in accordance with qualifications and experience. Applications in writing, giving details of experience, etc., should be sent to Labour Department, S.C.W.S., Ltd., 96, Morrison Street, Glasgow, C.5, endorsed "Architect."

SENIOR QUANTITY SURVEYING ASSISTANTS required, with experience in industrial and commercial buildings; salary in accordance with qualifications and experience. Applications in writing, giving details of experience, etc., should be sent to Labour Department, S.C.W.S., Ltd., 95, Morrison Street, Glasgow, C.5. endorsed "Surveyor," 2727

A RCHITECTURAL ASSISTANT required, able to prepare working drawings from sketch plans, and carry work through to completion; hospital experience an advantage. Apply in writing, stating age, experience, and salary required, Martin & Martin and W. H. Ward, 106. Colmore Row. Birmingham, 3.

Particle Row, Birmingham, 3. 710

RAUGHTSMAN wanted in Architect's office of a Bank; applicants must be good draughtsmen, able to measure up buildings and plot surveys. Reply, stating age, training, experience, qualifications, and salary required, to Box 713.

A RCHITECTURAL DRAUGHTSMEN wanted for General and Industrial work; must be neat and adaptable. Write, stating full par-ticulars of experience, age, and salary required, to Box 714.

WANTED, for Architect's Department of City Property Co., JUNIOR DRAUGHTSMAN, preferably over 22 years of age; salary according to ability. Box 716.

RAUGHTSMAN required immediately for busy office with varied practice in East Anglia; must be neat and accurate; would consider ex-Service man or Junior requiring experience; small flat available. State experience and salary required to Box 721.

CAPABLE SENIOR ASSISTANT required; when free. Box 723.

SENIOR ARCHITECT'S ASSISTANT required in busy office at Croydon; some experience in Schools would be an advantage. Write, with full particulars of training and experience and salary required, to Box 724.

CLERK OF WORKS required, London area; experience of alteration works very desirable; able to negotiate programme of work as between client and contractor. Please state qualifications, experience and age, to Box 744.

A SSISTANT required for general practice. J. H. Martindale & Son, Architects, Castle J. H. Ma Street, Carlisle.

SHORT period or vacation employment to one or two Assistants or STUDENTS in general practice in North-West City; accommo-dation available. Box 747.

A RCHITECTURAL ASSISTANT required immediately in S.E. Kent practice; R.I.B.A. Inter. standard; permanent position for the rightman, with good salary by arrangement, according to experience Box 748.

A RCHITECTURAL and SURVEYING ASSISTANT required; knowledge of dilapidations, air raid damage, and surveys; must have sound knowledge of construction and be good draughts-ns-n; salary by arrangement; good prospects, staff pension fund, etc. Timothy Whites & Taylors. Box 752.

JUNIOR ARCHITECTURAL ASSISTANT required for London office; previous experience and a good standard of draughtsmanship neces-sary. State age, details of experience, and salary required, to Box 753.

PLYMOUTH Associate has vacancies for CHIEF and JUNIOR ARCHITECTS; to assist in general reconstruction schemes. Apply, stating particulars of training and experience, to Box 754.

Architectural Appointments Wanted

RCHITECT'S ASSISTANT (25) seeks appoint A ment in progressive Provincial office;
3 years' experience in London and provinces,
plus 3; years' experience in Army drawing office;
capable of preparing working drawings and
détailing; studying for R.I.B.A. examinations.

A RCHITECTURAL ASSISTANT (27) requires position, Bristol district; 7 years' experience housing and domestic work, Council housing schemes, surveys, etc., including 13 years as Clerk of Works on Council housing; neat draughtsman; sketches, working drawings, etc. Box 278.

REGISTERED ARCHITECT (44), with excellent experience in industrial, commercial and residential work, requires responsible position, with good prospects; competent designer and draughtsman; administrative ability. Box 297.

ASSISTANT RCHITECTURAL R.I.B.A., studying for final, with 7 years' practical experience, seeks temporary employment in London. Apply, stating salary offered, to

QUALIFIED ARCHITECT, British subject, Austrian origin, Continental and English experience, seeks progressive position in small or medium sized Architect's office in London area. experience.

A RCHITECT'S ASSISTANT (age 27), Interstandard, seeks appointment in Architect's office; Worcester or any district, where prospects of living accommodation will be possible; salary £400 per annum approx. (London area). Box 300.

CHIEF ARCHITECTURAL ASSISTANT, University diploma, ceeks change; 15 years' very wide experience in first-class work, including large housing schemes, flats, conversions, industrial work, schools, etc.; accustomed to complete charge; London area or South Coast preferred. Roy 301

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EXPERIENCED ASSISTANT, 13 years (32) desires responsible position with London practice; energetic, progressive, and competent; immediately available. Box 302.

Other Appointments Vacant

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

A PPLICATIONS are invited from men with thorough practical experience of the Building Trades for the post of BUILDING FOREMAN in a large Factory in the South-East; duties will include the supervision of permanent staff engaged in general alterations and maintenance work; some factory experience essential, and some knowledge of the duties of a Clerk of Works an advantage; apply in writing stating age, experience, and salary required. Box 678.

DEPARTMENT STORE MAINTENANCE.—ASSISTANT to Maintenance Manager required by Rowntrees of Scarborough. This department supervises all repairs and services at both the Scarborough Store, the expanding York shops, the Workrooms and Repository. Some Store planning and knowledge of building and maintenance supervision would be an asset. The successful applicant will live at Scarborough. The Company provides sports ground, staff canteen, and other amenities, and a pension scheme is being introduced. Apply, giving details of experience, age (not over 35), and salary required, to Staff Manager, W. Rowntree & Sons, Ltd., 31 to 39, Westborough. Scarborough. 757

A RCHITECT. Central District. London, re-

A RCHITECT. Central District, London, re-quires SHORTHAND-TYPIST who can trace and colour; state age, experience, and salary Box 745.

Other Appointments Wanted

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

TYPEWRITING undertaken at home; Bills of Quantities, Specifications, Stencils, etc.; neat accurate work. Write Advertiser, 61, Curzon Road, Ealing, W.5. Road, Ealing,

AND SURVEYS for housing schemes, factories, drainage, and other projects executed by expert with complete equipment, and car. Box 651.

A RCHITECT, A.R.I.B.A., offers competent assistance in own office (Greater London area); sketch designs, working drawings, war damage, surveys, etc.; 10 years' varied experience, chiefly housing, flats, and schools. Box 699.

CHARTERED ARCHITECT, with own offices in London, E.C., and wide experience in all branches, will undertake free lance work, including war damage. Box 702.

A RCHITECT offers part-time assistance in own office; surveys, sketches, designs, werking drawings, supervisions, etc.; 18 years' experience; own car. Box 593.

A SSISTANT (L.R.I.B.A.) seeks part-time employment (London area), Saturdays and evenings; surveys, sketch plans, working drawings, details. Box 743

SAMPLES AND PRICES FREE ON REQUEST Phone: DEA. 4754 Grams: DONABROW

THE BROWNALL

FOR LIGHT GAUGE COPPER Extensively used on Government and Municipal buildings, Hospitals, Baths, Hotels, Factories and Housing Estates. Brownall Joints withstand every scientific and practical test. Expert technical service for Architects always available.

DONALD BROWN (Brownall) LTD. HANCHESTER IS



"UNO" STENCILS

for Lettering **ENGINEERS' & ARCHITECTS' PLANS**

A. WEST & PARTNERS, Ltd. 36, BROADWAY, WESTMINSTER, LONDON, S.W.1



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119-GER

For Sale

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

ARCHITECT, having offices in two provincial towns, wishes to dispose of one part of long-established practice, with view to eventual retirement; easy terms of purchase, based on actual average earnings over period of years, to suitable applicant. Box 750.

Miscellaneous

four lines or under, 5s.; each additional line.

A. J. BINNS, LTD., specialists in the supply and fixing of all types of fencing, tubular gard rail, factory partitions and gates. 99-107, 8 Pauls Road, N.1. Canonbury 2061.

WANTED.—One set of "Arts Et Matiers Graphiques." Please reply to Box. 5.

"CAN I HELP YOU!" I have on my staff Architectural and Civil Engineering Draughtsmen, Building, Estimating, Land, Measuring and Quantity Surveyors. Write C. F. Rumble, 29/51. Whitehall. S.W.1. Tel.: Whitehall 8514.

WANTED.-Complete set of "Typography."

EXHIBITION OF SCULPTURE, by L. Peri; TXHIBITION OF SCULPTURE, by L. Peri;
architecturally designed in concrete. Archer
Gallery, 303, Westbourne Grove, W.11. Till 27th
April, 10 a.m. to 6 p.m., including Sundays. 639

P.A.Y.E. SIMPLIFIED.—Hurley's Pay Slips

o (revised); samples 2d.; save time and
disputes. 223, Balham High Road, London.
8.W.17. 715

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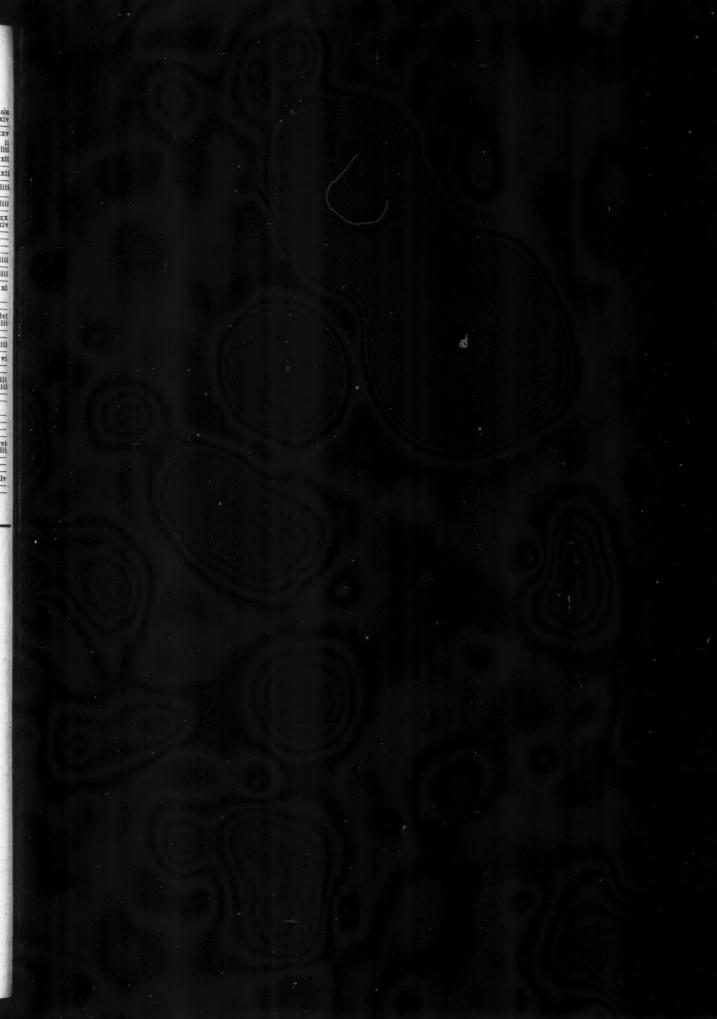
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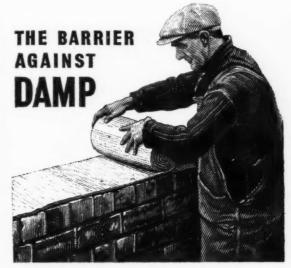


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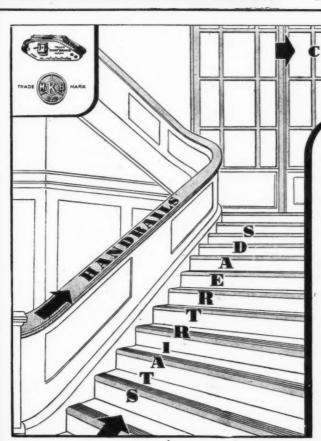
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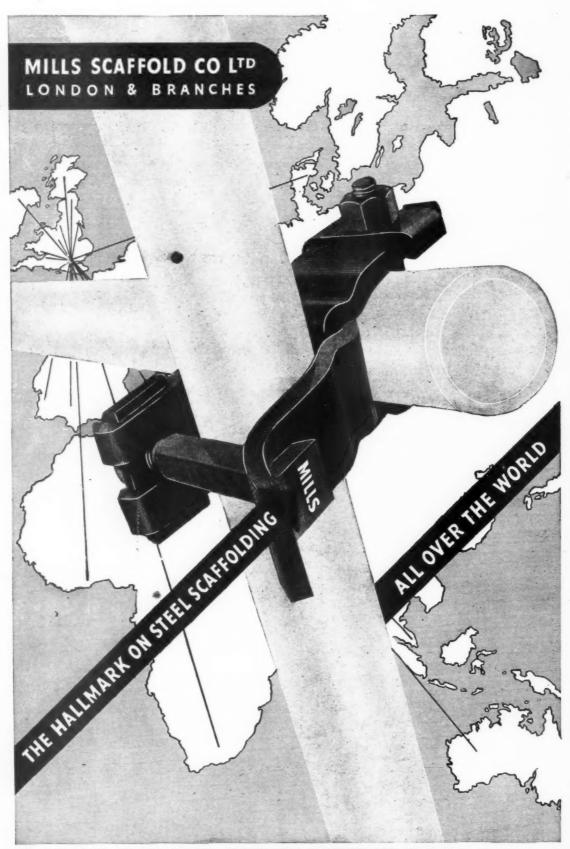
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