The Architects' JOURNAL for October 9, 1947 NE ARTS DEPT: STACK ARCHI О 2 1047 ★ A glossary of abbreviations of Government Departments and Societies and Committee of all kinds, together with their full address and telephone numbers. The glossary is pubphone numbers. The glossary is pub-In all cases where the town is not lished in two parts—A to H one week, I to Z the next. In mentioned the word LONDON is implicit in the address. Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. IAAS Sloane 3158 Whitehall 4577 Institution of Civil Engineers. Great George Street, S.W.I. Institute of Clayworkers. 4, Vernon Place, W.C.1. Illuminating Engineering Society. 32, Victoria Street, S.W.I. Institution of Gas Engineers. 1, Grosvenor Place, S.W.I. Institution of Heating and Ventilating Engineers. 72/74, Victoria Stoane 3138 Unitehall 4577 Chancery 6258 Temple Bar 7676 Abbey 5215 Stoane 8606 ICE ICW IEE IES IGE tandard contents IHVE Victoria 0146/7 every issue does not necessarily contain IIBD Incorporated Institute of British Decorators. Drayton House, Gordon Street, all these contents, but they are Euston 2450 W.C.1. Museum 1783 Museum 7197 Abbey 6172 ILA Institute of Landscape Architects. 12, Gower Street, W.C.1. Institute of Registered Architects. 47, Victoria Street, S.W.1. Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. Whitehall 7264 Institute of Landscape Architects. 12, Gower Street, W.C.1. the regular features which IOB continually recur. IRA ISE LIDC and COMMENT NEWS LMBA London Master Builders' Association. 47, Bedford Square, W.C.1 Museum 3891 MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8. Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Ministry of Education. Belgrave Square, S.W.1. MARS MOA 8. Park 7678 Whitehall 3400 Diary Ministry of Education. Belgrave Square, S.W.1. Ministry of Health. Whitehall, S.W.1. MOE Sloane 4522 Ministry of Health. Whitehall, S.W.1. Ministry of Labour and National Service. St. James's Square, S.W.1. Whitehall 6200 Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933 Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Abbey 7711 Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1. Whitehall 8411 News MOH MOLNS Architects' Commonplace Book MOS MOT MOTCP Astragal's Notes and Topics MOW Ministry of Works. Lambeth Bridge House, S.E.1. Natural Asphalte Mine-Owners and Manufacturers Council. Reliance 7611 Letters NAMMC 94, Petty France, S.W.1. Abbey 1010 Societies and Institutions National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey National Buildings Record. 37, Onslow Gardens, S.W.7. Kensingte National Council of Building Material Producers. 2. Caxton Street, S.W.1. NAS NBR Abbey 5277/8 **Kensington 8161** NCBMP TECHNICAL SECTION Abbey 5111 NFBTE National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041 Information Sheets W.1. Langnam 4041 National Federation of Building Trades Operatives. 8, Rosebery Houses, Breams Buildings, E.C.4 Holborn 1881 National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 2881/2/3 National House Builders Registration Council. 82, New Cavendish Street, W.1. Langham 4041 NFBTO Information Centre NFHS NHBRC Current Technique NHTPC National Housing and Town Planning Council. 41, Russell Square, W.C.1. **Ouestions** and Answers Museum 1264 National Physical Laboratory. Head Office, Teddington. Mole National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2. White National Smoke Abatement Society. Chandos House, Buckingham Gate, S W 1 Abi NPL Molesey 1380 Prices NRIAD Whitehall 2415 The Industry NSAS National Trust for Places of Historic Interest or Natural Beauty. 42 Queen Anne's Gate, S.W.1. Whitehall 0211/2 Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 0211/2 Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 7611 NT PHYSICAL PLANNING PEP SUPPLEMENT PWB S.E.1. Reliance 1936 Whitehall 9936 RCA Reinforced Concrete Association. 94, Petty France, S.W.1. Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Edinburgh 20396 RIAS CURRENT BUILDINGS Royal Institute of British Architects. 66 Portland Place, W.1. Welbeck 5721 Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1. Whitehall 5322 RIBA RICS Royal Fine Art Commission. 6. Burlington Gardens, W.1. Whitehall 5322 Royal Society. Burlington House, Piccadilly, W.1. Regent 1346 Royal Society of Arts. 6 John Adam Street, W.C.2. Temple Bar 8274 Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1. Sloane 5134 Society of British Paint Manufacturers. 20, Piccadilly, London, W.1. Wimbledon 5101 Society of Cultural Relations with the USSR. 98 Gover Street, W.C.1. Event 6347 HOUSING STATISTICS RFAC Regent 1446 Regent 3335 Temple Bar 8274 RS RSA RSI Architectural Appointments RIB SBPM Vacant Wanted and SCR Euston 6272/3 School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C. Chancery 5313 Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1. Metropolitan 8344 SFMA SIA SNTPC SPAB Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3 Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. Holborn 2646 [Vol. 106 No. 2748] Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2 Timber Development Association. 75, Cannon Street, E.C.4. Town Planning Institute. 18, Ashley Place, S.W.1. Timber Trades Federation 281 Conners Street F.C.4. City 6146 (3 lines) Victoria 8815 Conner Street F.C.4. TCPA ARCHITECTURAL THE PRESS 11 and 13, Queen Anne's Gate, Westminster, Timber Development Association. 75, Cannon Street, E.C.4. Town Planning Institute. 18, Ashley Place, S.W.1. Timber Trades Federation. 81, Cannon Street, E.C.4. War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1. TDA TPI S.W.1. Phone: Whitehall 0611 WDC 9d. Price Mayfair 8866 Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4. WEDA

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City 4263/4 ZDA Zinc Development Association. Lincoln House, Turl Street, Oxford. Oxford 47988







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iv

Sd. XVII/7-47

crisis....

but the coal-miner has an ally -

the architect

to whom we offer this independent advice in the fight to save fuel by insulation

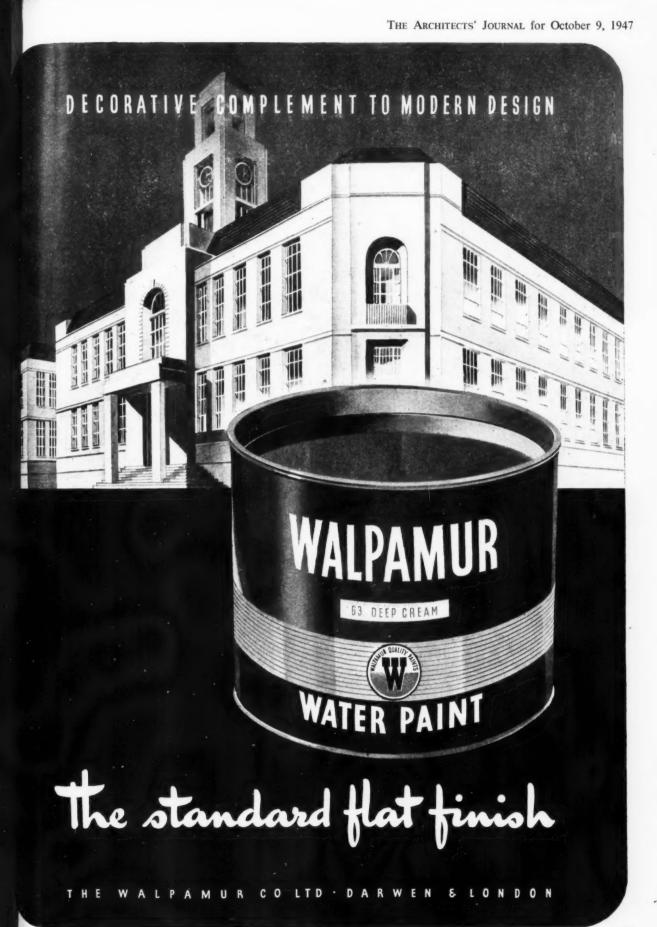
In a fuel crisis the architect is the miner's ally—coal saved by insulating a building is as good as extra coal dug. But how much coal *can* be saved? **Q**Our technicians are qualified to work out an analysis showing the possible saving of fuel—and money—in each project. Having convinced both you and your clients of the saving, they will plan the whole scheme and submit detail drawings for your approval. **Q**Many types of insulating material are fixed by means of the AnD Wedge method, and we will advise impartially as to which will be the most economical, and efficient, in the particular instance. Finally, we, or our agents, will undertake the complete installation should you so desire. **Q**Next winter there may be a fuel crisis again—unless heating is rigorously conserved. We know you want to help—will you allow us the privilege of co-operating?

ANDERSON CONSTRUCTION COMPANY LIMITED Liverpeol House, 15 Eldon Street, London, E.C.2. Telephone: LONdon Wall 1527 Patent No. 519406. Structural insulation specialists







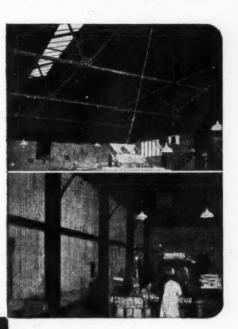




The GYPSTELE SYSTEM APPLIED TO Factory Ceilings and Walls

eliminates draughts and condensation ... reduces heat losses ... improves light reflection and appearance

> The factory illustrated on right was cold and draughty. To eliminate these conditions and also reduce fuel consumption, it was decided to provide insulation by installing a GYPSTELE SUS-PENDED CEILING and to adopt the same system as a WALL LINING. The photographs below show the finished job.



The thermal transmittance 'U' of the roof is now 0.49 B.Th.U per square foot, per hour, per degree Fahrenheit, which is equivalent to a saving in fuel of 65% per 1000 square feet of structure over a roof of plain asbestos cement sheeting.*

The 'U' value of the walls is now 0.46 per square foot, per hour, per degree Fahrenheit, representing a fuel saving of 61% per 1000 square feet over the plain corrugated iron wall.*

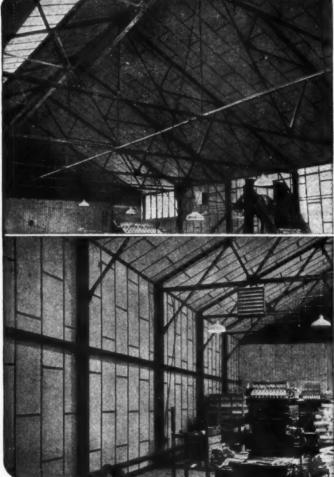
* Computed from data given in Fuel Efficiency Bulletin No. 12, issued by the Ministry of Fuel and Power.

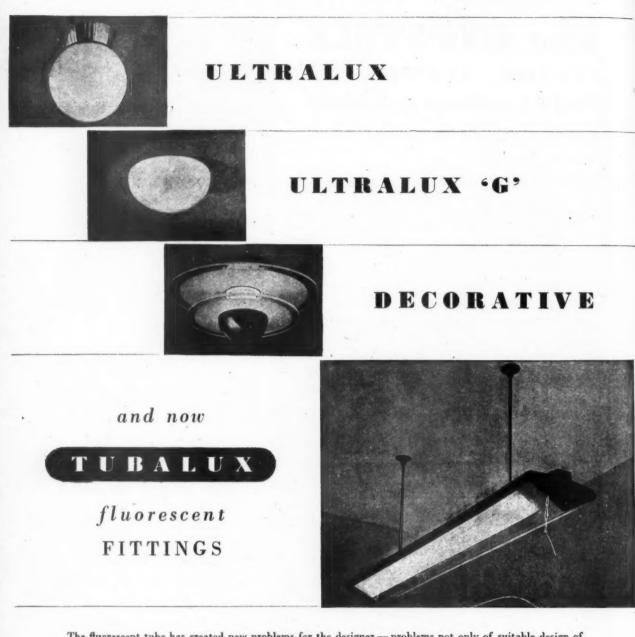
The owners report that it is now an easy matter to maintain the required temperature in the factory, draughts have been eliminated, there is no longer any tendency for condensation to form on ceiling or walls, and there is a great improvement in light reflection and general appearance.

Detailed information about the GYPSTELE SUSPENDED CEILING SYSTEM will gladly be supplied on application.



Head Office 1 Westfield, Upper Singlewell Road, Gravesend, Kent Telephone: Gravesend 4251-4 Telegrams: Gyproc, Gravesend Gasgow Office 1 Gyproc Wharf, Shieldhall, Glasgow, S.W.1 Telephone: Govan 614 Telegrams: Gyproc, Glasgow Makers also of Gyproc Plaster Board, Gypklith Lightweight Building Slabs, Gypstele Partitions, Plaxstele and Acoustele Ceilings, Gyproc 2 Solid Partition G.S.3





The fluorescent tube has created new problems for the designer — problems not only of suitable design of the fittings themselves, but of the planning and disposition of units to ensure a successful installation. In designing our new TUBALUX series of fluorescent fittings, the same happy combination of creative thought and technical knowledge has been applied as in the well-known ULTRALUX range. Simple and satisfactory in form, easy to instal and maintain, TUBALUX fittings lead the way to a more imaginative use of fluorescent lighting.

> Architects and consulting engineers will always find our design staff—under the guidance of A. B. Read, R.D.I., Director of Design—ready to collaborate on problems of lighting design.

TROUGHTON & YOUNG (LIGHTING) LTD

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Telephone : Kensington 8881 (10 lines)

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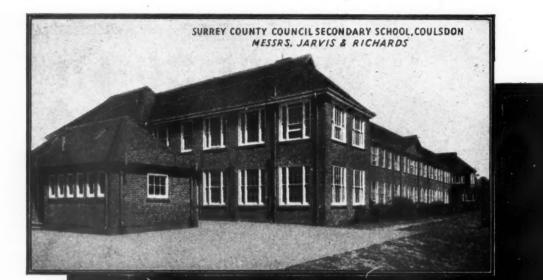
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T is a pleasant custom in some parts of the world for the builder to propitiate his gods with offerings of bananas, yams, coconuts and such like.

Apart from the present scarcity of fruit, we will continue to rely on sound planning and good workmanship.

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carried throughout the entire range of fitments and can be matched in those smaller accessories which so effectively complete the furnishing of the modern bathroom. 'Leda' Fitments are distributed only through recognised stockists, but descriptive literature is available direct from the manufacturers.

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Bathroom Fittings Department WANDSWORTH WORKS · WANDSWORTH RD. · LONDON, S.W.8 Telephone : MACaulay 2233 (7 lines) Telegrams : "Bildaplant, Claproad, Landon." IMBER OLD

AUND INI

Internal view of upper section of an aeroplane fuselage. (By courtesy of Thames Plywood Manufacturers Ltd.).

"New" timber ranges from veneered plywood, through blockboard and wallboard to the laminated plastic sheet, which is resinimpregnated paper pressed at high temperature.

"Old " timber was built by Nature. She was the chemist and the physicist. Man only shaped it from the solid which Nature provided. Man took the solid, broke it down into fragments and built the pieces up again to create new species of timber, lighter, stronger and more malleable, to improve and supplement, but not to replace, the old.

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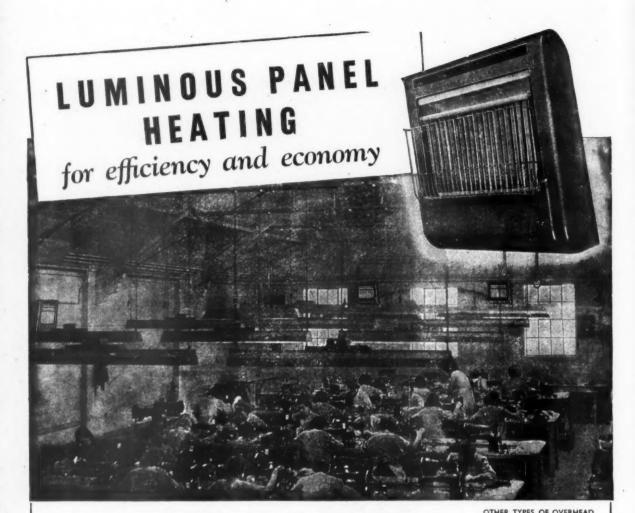
"One of Britain's Best Factory Floors"

Strong, level, dustless floors make a tremendous difference to production! They enable savings to be made in many interesting ways, and that is why Stelcon is so widely used in so many branches of industry. Stelcon units are made in a handy size, approximately 12" x 12", and are therefore excellent for repair work as well as new work.

This is the hard way of trucking!

Stelcon

STELCON (INDUSTRIAL FLOORS) LTD. CLIFFORD'S INN LONDON, E.C.4 Tel: HOLBORN 2916



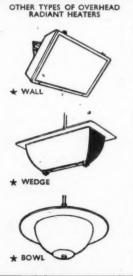
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or write direct to us for technical advice on installation layout

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LOWER BRISTOL ROAD, BATH LONDON SHOWROOMS : I GRAFTON STREET, W.I

copper tubes for underground service BS 1386/47

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'Kuterlon' copper tubes meet the three principal requirements of underground supply pipes and conform to BS 1386/47.

DUCTILITY, for laying in long lengths in trenches and for easy bending by hand without annealing.

STRENGTH, for withstanding soil pressures and supporting their own weight over wide spans.

RESISTANCE to soil and water corrosion.

'Kuterlon' tubes can be worked easily on site—no screwing is needed, very little tackle is required and labour costs are low.

The illustration shows how 'Kuterlon copper tube can be manipulated to accommodate soil movement.

'Kuterlon' copper tubes

IMPERIAL CHEMICAL INDUSTRIES LIMITED, LONDON, S.W.I

This is the first of a series of informative advertisements which are intended to show how the various models of SIESTA STOVES can be incorporated to best advantage in Heating Schemes.

PLANNED HEATING ...

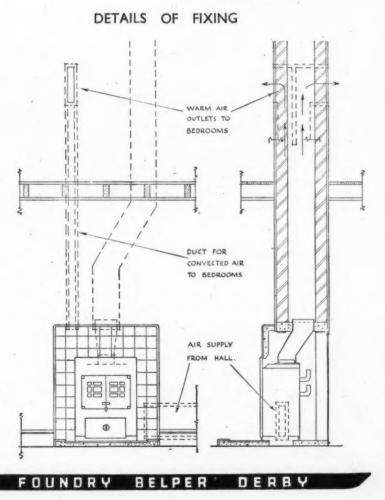
Using the **3D** SIESTA to provide—

Space heating for one living room. Convected heat to two bedrooms and kitchen. Adequate hot water for domestic purposes and a towel rail.

The diagram shows a typical installation for fully utilising the heat output of the 3D SIESTA. Alternative schemes are, of course, possible, and we shall always be pleased to advise on the most suitable installation for specific conditions.

The 3D SIESTA burns coke, anthracite, coal or commercial fuels. It is finished in fine quality vitreous enamel, available in brown, green, stone mottle or black.

Simple and effective air control is provided on the ashpit front and fine adjustment can be obtained to give the range of burning rates required for overnight and daytime. A special feature of the 3D Model is the way the doors disappear Into the body of the stove when opened.



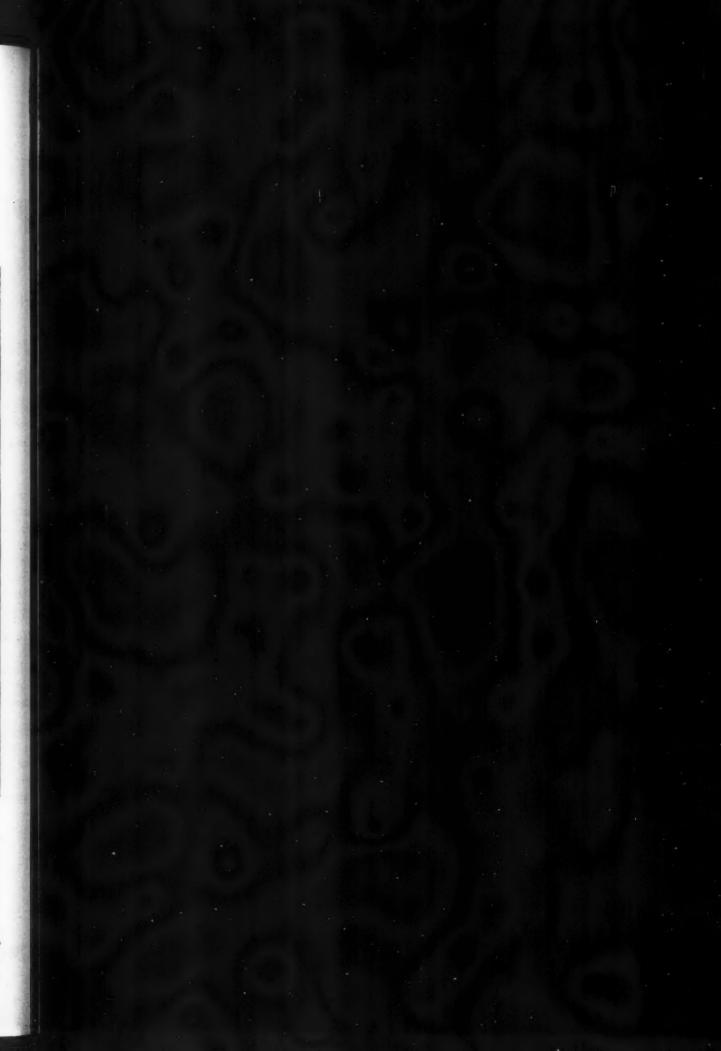




The Reception Hall of the biggest National Daily Newspaper in the country is bound to be busy day and night. Yet after more than ten years of gruelling wear, the silent Dunlop Rubber Floor is still decorative, still comfortable and still easy to keep clean.

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DUNLOP RUBBER CO. LTD. (GENERAL RUBBER
LONDON: Clerkenwell House, Clerkenwell Green, E.C.I.GOODS DIV.), CAMBRIDGE ST., MANCHESTERBIRMINGHAM: Dunlop House, Livery Street, 3.LIVERPOOL: 24 Cornhill, Park Lane, 1.GLASGOW: 48-60 and 70-78 North Wallace St., C4.







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COUNTY OF LONDON PLAN	No. 2 (b)	EXETER PHŒNIX	No. 5
MANCHESTER REGION PLAN	No. 3 (a)	A PLAN FOR PLYMOUTH	No. 6

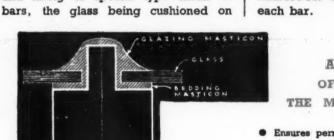
ASCOT GAS WATER HEATERS LIMITED, 43, PARK STREET, LONDON, W.I. GROSVENOF 4491 See our exhibit at the Building Centre, 9, Conduit Street, W.I

THE MASTICON PROCESS FOR MODERN FACTORY GLAZING by INDUSTRIAL ENGINEERING LTD.

THE MASTICON PROCESS is a service for the glazing of roofs of Industrial premises. It combines the supply and fixing of special type metal T. bars, the glass being cushioned on

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resilient Bedding MASTICON. The bars are sealed against the weather by the application of plastic GLAZING MASTICON over the exposed cap of each bar.

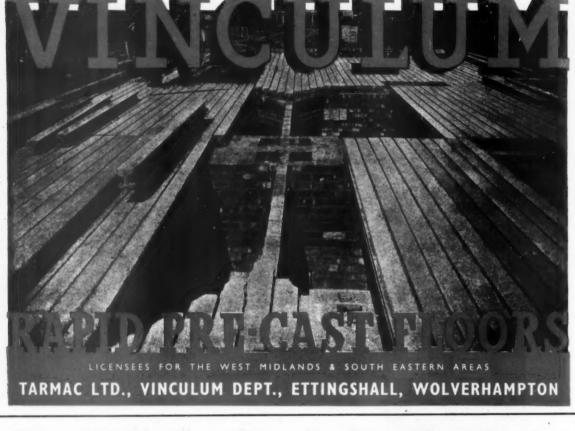
> ADVANTAGES OF GLAZING BY THE MASTICON PROCESS

- Ensures permanently sound glazing which will withstand rocf movement and vibration.
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- · Eliminates painting costs.
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Our technical service is at your disposal to conduct surveys and submit estimates willingly and without obligation.

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The Cylinder Latch that Deadlocks

The 'K' 146 Cylinder Deadlocking Rim Latch functions in every way as a normal cylinder latch, but a part turn in the opposite direction to unlatching deadlocks the bolt and huide control knob. Only the correct key can operate ... it is truly the safest lock to fit.



OTHER ADVANTAGES

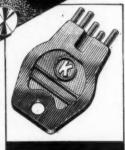
•The outside escutcheon or rose is solid and fits flush to the door panel.

•The bolt stop is operated by a press button which cannot fall into or out of engagement.

Interchangeable between right and left hand doors.
The Cylinder is fitted with hardened steel protection plate which cannot be drilled.

K. 146 CYLINDER DEADLOCKING RIM LATCH

CYRIL KIEFT & CO. LTD., BRIDGEND, SOUTH WALES. PHONE BRIDGEND, 950.



The key is easily identified in the dark. Two keys are provided with each lock, and on registration additional keys and master key equipment can be supplied.

When Snowcrete is used for polished concrete floor finishes a clean, bright appearance is given. Snowcrete makes possible an unlimited range of pleasing terrazzo finishes, applied either in situ, or as a facing to precast tiles or blocks.



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Full details of finishes for any specific purpose from CELLON LTD., KINGSTON-ON-THAMES. Phone: Kingston 1234 (7 lines) Telegrams: AJAWB, Phone, Kingston-on-Thames.

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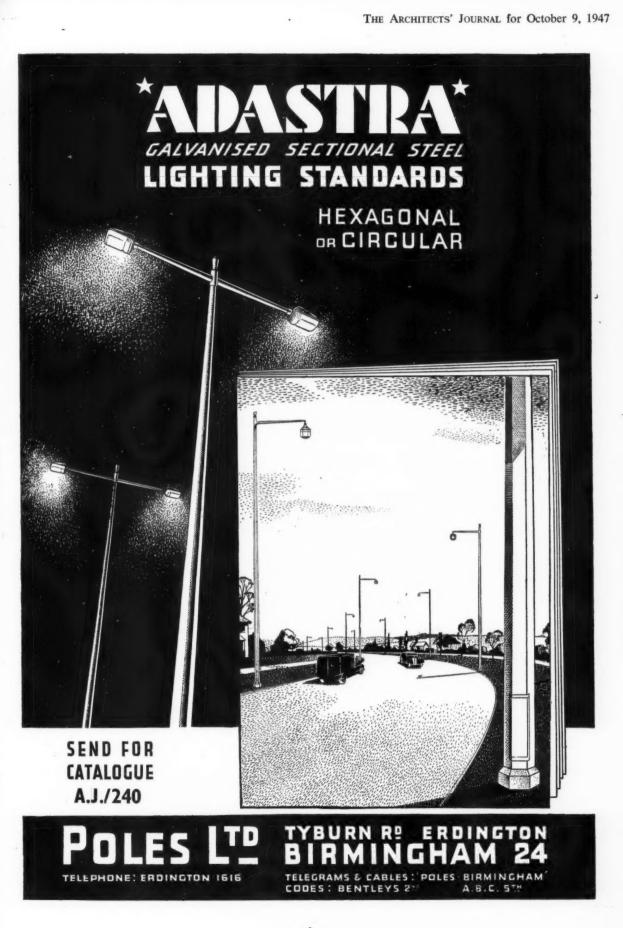
- means *EVERYTHING* for the ELECTRICAL INSTALLATION



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XXX

The Human Element ^{in the} BRICK Industry

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A touch of the lever brings these trolleys of bricks (each weighing 15 tons) gliding from the kilns. Fourteen days ago they entered the chamber loaded with green bricks. Machinery, under the watchful supervision of skilled operatives, has brought them steadily through the various stages of the burning process. In London Brick Company works, manual labour is applied only where the job cannot be done by machinery. The operatives enjoy the best possible working conditions, and every facility for recreational activities.

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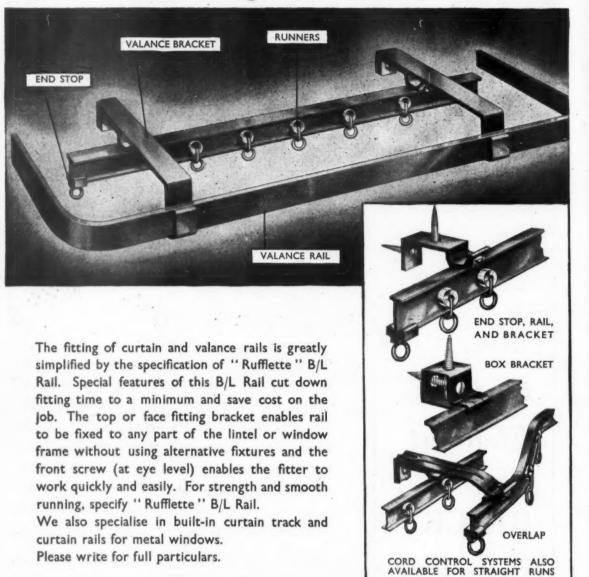
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Easy fitting, strong, durable . . . for straight or curved windows



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> E. Agric Plans Gard lunch M. ing. Stree Cent

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In common with every other periodical this JOURNAL is rationed to a small part of its prenear 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



U.K. or abroad, £1 155. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 15. 6d.; post free, 15. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 155. each; carriage 15. extra. Goods advertised in the JOURNAL and made of raw material now in short supply, are not necessarily available for export.

DIARY FOR OCTOBER NOVEMBER AND DECEMBER

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 Trade Golfing Association. Autumn meeting. At Berkshire Golf Club, Ascot, Berks. On October 9, The Builders' Trophy will be competed for. OCT. 9

BRISTOL. Building Science Exhibition. At George Wills Museum. (Sponsor, DSIR.) Ocr 20-Nov. 1

CARDIFF. Building Science Exhibition. (Sponsor, DSIR.) UNTIL OCT. 11

FOLKESTONE. Fourth Building Congress. At Leas Cliff Hall, Folkestone. (Sponsor, BINC.) Admission 1 guinea. Nov. 18 and 19

LONDON. The Miner Comes to Town Exhibition. At the COI Exhibition Centre, Marble Arch. There are nine sections dealing with all aspects of the mining industry. (Sponsor, COI for MFP and NCB.) UNTL OCT. 23

Woman's Fair Exhibition. At Dorland Hall, Regent Street, S.W.1. (Sponsor, "Woman.") UNTIL NOV. 22

E. Geoffrey Parsons. Farming Policy for Agricultural Belts of New Towns. At the Planning Centre, 28, King Street, Covent Garden, W.C.2. (Sponsor, TCPA.) Buffet lunch, 12.45 p.m. Talk, 1.15 p.m. Oct. 9

M. J. Elsas. The Social Aspects of Housing. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, The Housing Centre.) Buffet lunch, 12.45 p.m., 2s. 6d. Talk, 1.15 p.m., 6d. Oct. 14

Dr. J. W. T. Walsh. Presidential Address to the Illuminating Engineering Society. At the School of Hygiene and Tropical Medicine, Keppel Street, W.C. (Sponsor, IES.). 5.30 p.m. Oct. 14

G. A. R. Sheppard. Modern Trends in Waterworks Practice. Bossom Gift Lecture. At the Royal Sanitary Institute, 90, Buckingham Palace Road, S.W.1. (Sponsor, Chadwick Trustees.) 2.30 p.m. Ocr. 18

Helping Young People to See. A conference on design for Youth Leaders and Teachers. At Brown's Hotel, Dover Street, W.1. The conference will include lectures, visits, discussions on content and method, and social functions. The resident fee, which includes a visit to the theatre, is \$5 10s. 0d., and the non-resident fee is \$2 10s. 0d. Copies of the programme and forms of application may be obtained from the DIA headquarters. (Sponsor, DIA.) OCT. 20-30 The Englishman's Home. A History of House Design. Exhibition at the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Oct. 20-Nov. 1

Major Manningham-Buller, M.P. Country Planning. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) 1.15 p.m. Oct. 21

Charles Madge. The Social Growth of a New Town. At the Planning Centre, 28, King Street, Covent Garden, W.C.2. (Sponsor, TCPA.) Buffet lunch, 12.35 p.m. Talk, 1.15 p.m. Ocr. 23

Visit to Tabard Gardens Estate, London County Council, Hankey Place, S.E.1. Members of the Housing Centre to meet at the Superintendent's House at 2.30 p.m. A party will leave the Housing Centre, 13, Suffolk Street, S.W.1, and travel by Underground at 2 p.m. Booking fee 1s. per head (2s. per head for non-members). Nearest station-Borough. Tabard Gardens Estate is one of the LCC flat dwelling estates built between the wars for slum clearance. The tour will be conducted round the estate by Miss Margaret MacKenzie, who has managed it for a number of years. (Sponsor, HC.) Oct. 23

Course of Lectures. School Planning and Construction. At the RIBA, 66, Portland Place, W.1. The course will be open to members of the RIBA and of allied Societies and, in addition, the Clerks to Local Authorities will be invited to nominate professional representatives to attend. (Sponsor, RIBA.) Ocr. 23-25

Mrs. Alexander. The Educational Centres Association. At the Housing Centre, 13, Suffolk Street, S.W.1.' (Sponsor, HC.) 1.15 p.m. Oct. 28

Curtains and Murals, designed by Michael O'Connell for Industrial Canteens and Small Theatres. At Heal's, 196, Tottenham Court Road, W.1. UNTIL OCT. 31

Sir Harry R. Selley, President of the Federation of Master Builders. House Production and Costs. At the Housing Centre, 13, Suffolk Street, S.W.1. Sponsor, HC.) 1.15 p.m. Nov. 4

M AIDSTONE. J. C. Morris. Equipment of Modern Kitchens. At Maidstone Technical' Institute, Tonbridge Road, Maidstone. (Sponsor, South-Eastern Society of Architects, Tunbridge Wells Chapter, Maidstone Group). 7 p.m. OCT. 15

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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 Chairman of the Georgian Group; It is ASTONISHING to find the Ministry of Transport proposing to proceed with a road widening scheme which even in a time of plenty would be open to justifiable criticism. Lord Rosse, Chairman of the Georgian Group, in a letter to The Times, says: In these days when all capital oullays are supposed to be keenly scrutinized, it is astonishing to find the Ministry of Transport proposing to proceed with a road-widening scheme which even in a time of plenty would be open to justifiable criticism. In Grantham the Ministry proposes this autumn to pull down 23 habitable or inhabited houses, some of them of distinct architectural interest and all of them an essential part of the setting of the historic Angel Hotel, in order to widen a thoroughfare and relieve traffic congestion pending the eventual construction of a by-pass. In short, to relieve a temporary difficulty permanent damage is to be done. A petition against the proposal is being drawn up by the townspeople; they deserve the support of all who are concerned with the conservation of our architectural heritage—as well as of our financial resources.



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From AN ARCHITECT'S Commonplace Book

AN EXHIBITION. [From Concerning the Spiritual in Art, by Wassily Kandinsky (Wittenborn, Schultz, Inc., New York).] Imagine a building, large or small, divided into rooms; each room is covered with canvases of various sizes, perhaps thousands of them. They represent bits of nature in colour animals in sunlight or shadow, or drinking, standing in water, or lying on grass; close by, a "Crucifixion," by a painter who does not believe in Christ; then flowers, and human figures, sitting, standing, or walking, and often naked; there are many naked women foreshortened from behind; apples and silver dishes; a portrait of Mr. So-and-So; sunsets; a lady in pink; a flying duck; a portrait of Lady X; flying geese; a lady in white; some cattle in shadow, flecked by brilliant sunlight; a portrait of Ambassador Y; a lady in green. All this is carefully reproduced in a book with the name of the artist and the name of the picture. Book in hand, people go from wall to wall, turning pages, reading names. Then they depart, neither richer nor poorer, again absorbed by their affairs, which have nothing to do with art. Why did they come? In every painting a whole life is mysteriously enclosed, a whole life of tortures, doubts, of hours of enthusiasm and inspiration.

Local authorities have now ORDERED ALL THE 20,000 AIREY HOUSES which the Government is providing for election in agricultural districts. Mr. Bevan, Minister of Health, said in London that rural housing is now being given over-riding priority, and he hoped that with the co-operation of contractors at least 13,000 Airey houses will be in approved tenders by the end of the year. He said that it has not yet been decided whether components for more than 20,000 Airey houses should be made, but he emphasized that this type of house can provide a valuable supplement to traditional building.

F. J. Osborn, Chairman of the Town and Country Planning Association's Executive is on a THREE MONTHS VISIT TO USA AND CANADA. His itinerary includes Washington, New York, Boston, Chicago, the Tennessee Valky, Los Angeles, San Francisco, several cifes in the Middle West, the Pacific North West and the South. He is also paying a mort visit to Canada at the request of the Dominions Office, to speak at a National Conference on Community Planning. Sponsors of the visit are the American Institute of Planners, who jointly with the. Government-controlled Federal Housing Agency issued the invitation for the visit. Apart from the addresses he is committed to deliver at Yale, Harvard and other universities, the Federal Government is to omsult him about the planning ad administration of their Greenbelt Towns.

**

The General Council of the Association of Building Technicians: This General Council is ALARMED at the proposals being made for cutting down the programme of new housing, schools and buildings for social services. At a meeting of the General Council of the Association of Building Technicians, the bollowing resolution was passed with one abstention: "This General Council is alarmed at the proposals being made for cutting down the programme of new housing, schools and buildings for social services, and is of the opinion that such building is essential as an incentive for efficient production and the well-being of working people generally. The Association calls on the Government to meet the crisis by measures calculated to increase the efficiency and productivity of the building industry, by improving conditions of labour, elimination of unessential and black market work, and the extension of statutory control of allocation of materials." Speakers pointed out that one of the fundamental reasons for our present economic difficulties was the shortage of factories to house the plant, and the shortage of dwellings to house the workers necessary if we are to expand industry. The cutting of building for social services, hospitals, schools, etc., would have a disastrous effect on the morale of the workers. The necessary savings on labour and materials to enable essential building for industry, as well as social services and housing to proceed, could be obtained by the elimination of black market and unlicensed work, by putting a stop to nonessential work, and by a much stricter control of the allocation of materials.

After an interval of 10 years, the London and Middlesex Archeological Society, have started excavating on the site of a ROMAN- BRITISH SETTLEMENT AT BROCKLEY, between Edgware and Elstree village. There is good reason to accept the identification of this district—originally made by Camden in the sixteenth century—with the Roman-British settlement of Sulloniace, mentioned in the Antonine Itinerary as on the great Roman road now known as Watling Street. Trial excavations carried out in 1937 produced an abundance of late first and early second century pottery, together with bricks, tiles, and other objects. Some Belgic-British pre-Roman pottery was also found, and the base of a pottery kiln. These finds indicated the former existence in the neighbourhood of a Belgic settlement and of a Roman-British settlement which was both residential and industrial. Pottery bearing the mark [SJULLONIA[C] has been found as far away as Corbridge, near Hadrian's Wall, suggesting a wide distribution of the products of a local pottery.

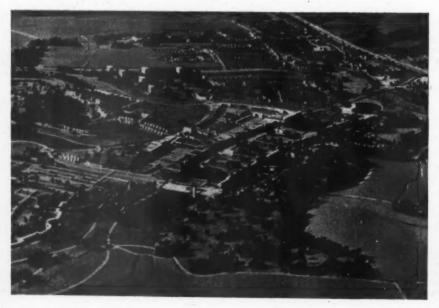
gesting a wide distribution of the products of a local pottery. The prospect of further important finds is favourable; but success depends on the amount of voluntary labour available and on financial support. Offers of help in digging should be made to Mr. Percy Davenport, of Chesney, Oak Tree Close, Stanmore, Middlesex, and contributions to the treasurer of the society, Mr. T. A. N. Henderson, 127, Leigham Court Road, S.W.16.



The new £380,000 British Government Embassy now building in sub-tropical Rio de Janeiro. The Ministry of Works (after discussion with Mr. R. R. Prentice, resident English architect responsible for the designs, and various British diplomats) has approved a building in the classic manner as "this was predominant in Rio at the time of greatest British influence and will bring memories of those days of closest collaboration." Experienced diplomats and museum officials consulted on furniture have plumped for the Adams manner with some fine traditional pieces making a "symposium of English taste."



Hemel Hempstead New Town



Two views of the central area of the plan by Mr. G. A. Jellicoe of Hemel Hempstead New Town. Through traffic has been discouraged and would be negligible. All incoming traffic will be distributed by four roundabouts. The old or upper town is cut off, and becomes an academic or professional quarter. It can be seen in the bottom left-hand corner of the lower photograph. The High Street (centre in both

The High Street (centre in both photographs) remains, but the area east of this is totally redeveloped in secluded architectural squares and terraces. Mr. Jellicoe is against the concentration of all public culture in any one place, and for this reason it is suggested that certain civic buildings such as the Library and the Art Gallery are sited as totally independent buildings set in the water gardens. Plans and further photographs of the model appear on pages 317 to 320. the

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The latest phase of the experiments at Abbots Langley, Hertfordshire, in KEEPING HOUSES ADE-QUATELY WARM on the smallest consumption of fuel has been described by Dr. F. M. Lea, Director of Building Research, Department of Scientific and Industrial Research. Thirty scientists and building technicians, using 28 specially built houses and 92 different appliances, are engaged on two broad unes of research. Eight of the houses, which have been tenanted by families for over a year, are identical in design and heating systems, and differ in degrees of insulation.

In the other 20, at present untenanted, the constant factor is thermal insulation and the wriable factor the heating method, some being fitted with complete central heating and others with devices to carry convected heat to the bedrooms. All have modern stoves and open fires as well. As soon as the initial period of the tests on the 20 unoccupied houses is completed, probably by next spring, tenants to occupy them will be elected by the local RDC in conjunction with the Building Research Station. The experiment will continue during family occupancy so as to apply under practical conditions the results obtained in the unoccupied period. Results of the research will be made available to the building industry and the public.

Bedford is to have a new FIVE MILLION POUNDS POWER STATION. A new power station at Bedford is to cost nearly £5,000,000. At Bedford Town Councli it was stated that the station would have a possible coal consumption of 300,000 tons a year with facilities for handling 6,000 tons a week. The Council decided to take immediate action to acquire the site chosen by the Central Electricity Board in the eastern part of the town.

Mr. J. V. A. Cedercreutz, a Finnish architect and assistant to the Professor of Town Planning at the Technical Academy in Helsinki, has been visiting B R I T A I \mathcal{N} under the auspices of the British Council. Mr. Cedercreutz was responsible for the erection of the recent Finnish exhibition in Copenhagen and has been the architect of a sumber of important buildings in Finland. In Britain he has been studying modern British trends in the design of theatres, schools and office buildings.

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otoages The new tube station at Gants Hill, on the Central Line extension to Woodford and Newbury Park will be the BIGGEST IN THE LONDON AREA. At the bottom of the escalators there will be a large hall 50 yards long, flanked with pillars, and with the trains running on each side. It is expected that about 12,000,000 passengers a year will travel on the new extension. It is hoped that the work will be completed by the end of the year.

TRAINING IN VISUAL ARTS

TO busy architects, whether in private practice or public employment, it comes as something of a shock to discover how slightly the Mistress Art is regarded in the world at large.

Architecture is charged with the responsibility of largely conditioning our physical environment, at least that part of it intended to house human individuals and their various activities with all their necessary extensions. Thus it is surprising that so far-seeing an individual as Mr. J. B. Priestley should make no reference to architecture in his *The Arts Under Socialism*, and this fact may be taken as a measure of the lack of regard for architecture and for architects as creative artists in this country to-day. The opening of the new term in Art Schools and Universities, where teachers are trained recalls that here may perhaps be found the reason for this disastrous situation.

It would hardly be an exaggeration to say that of all the instruction given in the visual arts, architecture comes off worst. Not only are art teachers themselves ill-taught along long outmoded principles, but in many schools it would be hard to find more than a passing reference to architecture except as a matter of style. Thousands of citizens therefore grow up with no knowledge of architecture beyond what they can get from the newspapers.

There are, however, signs that things are changing. Art Schools, where teachers in the visual arts are largely trained, are beginning to understand that it is not enough to pretend that students are junior architects who can be taught all there is to know on this subject in a one or two years' course that allows them a few hours a week to devote to it. It is true that most of such courses have been in the hands of architects, but the profession as a whole has not yet adequately come to grips with this problem.

What, then, is needed?

First, there should be no attempt to turn the art teacher and craftsman in the allied arts into part-time architects. The aim must be to give a real understanding of the fundamentals of architecture, and of its contemporary meaning.

Second, this can be achieved only through a basic visual training. This training should be a discipline appropriate to all workers in the visual arts and their instructors as well as those art teachers whose responsibility it is to guide the visual education of the school child.

Third, while the visual aspect of architecture has a common basis with that of other arts, its content is of necessity vastly different. This, therefore, must be clearly developed. The content of a work of architecture is, of course, conditioned by its social matrix, and this must be expressed by creative imagination and not by a conscious choice of "styles." To achieve a training that will satisfy these requirements, Art Schools must demand from their teachers an articulate understanding of contemporary architectural problems, among

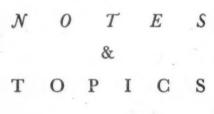
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them the relation of the architect to the client and his needs and aspirations, and the visual and technical means for interpreting them.

There are signs that development along these lines is taking place in England and deserves every encouragement. Professor Ward at the Royal College of Art has shown what valuable results can be achieved, and it is hoped that the opportunity will be taken to equip in the same way, the LCC Central School of Arts and Crafts, and the many provincial art schools.



The Architects' Journal 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1 Phone: Whitehall 0611



ALL IN THE SAME ROWBOAT

Contractors and builders have been protesting vigorously for a couple of years or more about the limitations placed on building, while most architects have been kept pretty busy, even if it has only been on schemes to be built in the distant future "when things gef a bit easier." But the proposed £200 million cut in capital expenditure of all kinds pushes us all a good deal nearer the grave, and both RIBA and ABT have made official protests. Now I see that Mr. Coppock is protesting vigorously against the probable transfer of I forget how many thousands of building operatives to other industries.

When contractors protest, of course, we tend to assume it means no more than that they don't want to have to get rid of the second Bentley, but it seems as though we are now all in the same boat. Astragal, who gleefully threw his bicycle pump over the hedge on the return of the basic ration in '45, now wishes he hadn't. Can you remember what you did with yours?

WET GLOVE FOR RESEARCH

Watford Council appears to be doing its best to snatch the twenty experimental houses which BRS has built at Abbots Langley. The houses have all been built with the same amount of insulation, but they are heated by different systems and with different appliances, whose relative efficiency is to be determined. The experiment is naturally a long-term one, and the tenants of the houses are to be chosen from local waiting lists; but before they move in, the efficiency of the various appliances must obviously be determined under standard conditions, or no proper allowance can be made for the different habits of individual tenants.

I can sympathise with the Watford Council, who must be very anxious to get a few more families off its waiting list, and for the future tenants it must be maddening to have to wait three or four months more until the preliminary tests are complete. But unless the job is done properly to start with, the long-term results will be almost meaningless.

A NEW TOWN EXHIBITION

Hemel Hempstead New Town Corporation now leads the field by opening to public exhibition the Consultant's proposals. At the opening of the Exhibition the outstanding feature was the fact that nobody appeared very interested in the town, as such. All attention was diverted to what effect the details had on each individual's private property.

After that the main topic of conversation was built around a hope that nothing would happen anyway because of the present economic situation. The third reaction was to adjourn to an adjoining room for sherry. Braced by this, a certain number of people returned with a broader outlook and it was then clear that Mr. Jellicoe's plan was beginning to grip the imagination.

The present town has two great assets. First there are several routes leading through open country almost to the centre of the town. These are preserved. Second, the main town centre is traversed by an attractive stream. At present this is hardly seen, but in the new plan the whole of the central area runs along this stream, which is converted into a giant water garden. The imagination and vision shown in this treatment and elsewhere is a feature of the plan, and it is to be hoped that delay and constant amendment of detail will not result in the freshness and inspiration being lost. Mr. Jellicoe himself emphasized this danger in his remarks at the opening ceremony.

Although the model politely retains the present hideous Council offices, it may shock some people by omitting a burial ground, the report stating quite firmly that it is time everyone realized that cremation was a more sensible system than wasting $1\frac{1}{2}$ acres per year on graveyards. Another feature which aroused a good deal of comment was the provision of a helicopter landing ground conveniently situated in the heart of the town.

If the current crisis does not result in a disastrous slowing down of all building activities, there are solid grounds for hoping that now there is a visible model for the new town, and early doubts can be cast aside, the building of the town will be accomplished with local enthusiasm.

A TEST CASE FOR FLOOR SPACE

An inquiry which may become historic was held in the City of London on Tuesday of last week.

For many years town planners have realised that when you get down to brass tacks it is the ratio of floor space to land area which determines whether or not streets are congested in central areas. They further realised that in a reasonable world it should be possible to find and enforce a ratio which would meet the needs of the average building owner and at the same time keep the traffic 1 as a wh for a chance

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traffic load tolerable both in the area as a whole and its various parts. But for a long time this belief got no chance of being tried in practice.

Building owners resisted all limitations of the amount of floor space they could put on their land, and though the the authorities did introduce and gradually tighten controls which had this effect, they were indirect controls such as controls of height, set-back, etc.) and allowed far too much floor space for the existing streets.

> At long last, and rather appropriately, it has been the City of London that has tried to make history in this matter. After measuring all the floor space in the City in 1939, Dr. Holden and Professor Holford, the City's planning consultants, recommended that the Corporation should introduce a direct floor space control, based on a standard ratio for office buildings of 5 to 1 fi.e., total floor space must not exceed five times the plot area).

This City Corporation has accepted this recommendation and has applied to the Minister of Town and Country Planning for permission to revoke a pre-war planning covenant in order to apply the new control in a modified form. It was this application which was the subject of last week's public inquiry by the Minister's Inspector, Mr. H. G. Warren. Plantation House, the building concerned, is an important one, and the Minister's decision will therefore be one of great interest and influence.

INFORMATION, PLEASE

It is a commonplace that developments in the means of spreading information and knowledge have long ago outstripped our ability to make intelligent use of what we learn. Modern man, we are repeatedly told, is apathetic and ignorant, frustrated and oppressed by " angst." In mass observation and Gallup polls the proportion of those who answer "don't know" to the simplest of questions seems to rise almost weekly. Dr. Hooton [in a recent March of Time] dismissed us all as "moronic."

So far as readers of the AJ are concerned, these charges may now be dismissed lightly, for, as forecast in these

columns four weeks ago, the Information Sheets reappeared in the last issue. No need any longer to complain that you cannot understand the argot of the Building Research Station's bulletins or that all your facts about refrigerators and pavement lights are out of date. Here, week after week, will now appear all you want to know about everything, and since architects are notoriously allergic to the written word, as much as possible of the information will be presented as of old-in drawings. Tear them out and keep them. You never know, skirts may get shorter again one day, and we may be able to start building again.

ART AND CRAFTS

Architects have always had a deep affection for the rural and urban crafts. The fact is that the hand craftsman succeeded in achieving a genuine relation between form and function. The function, when not the sole determinant of the form, has in the products of craftsmanship largely conditioned it.

What a contrast can be observed here between much contemporary industrial design, which suffers from the complete divorce between designer, and manufacturer, or rather manufacturing process. The craftsman frequently made his product for specific individuals, who were able to communicate their individual requirements. The line of the scythe snaith could be adjusted to the user. The design today has no such contact, merely a vicarious connection. Some of the directness, simplicity and harmony of the craftsman would be a relief from the streamliners, stylists and chromium plate addicts.

Reading The Countryman at Work,* I was impressed by the directness of design, use and production. Composed largely of articles that appeared in the Architectural Review, this book is a treasure house of information on the world of the craftsman, a world that is disappearing. Hennell, who was killed in Java in 1945, has been remarkably successful in capturing the spirit of the labours he has illustrated, and his book is a memorial both to himself and to the noble characters he has described in word and line.

ASTRAGAL

* "The Countryman at Work" by Thomas Hennell (The Architectural Press 12s. 6d.) including a memoir of Thomas Hennell written by H. J. Massingham.



ETTERS

Grey Wornum, F.R.I.B.A.

M. C. Broadbridge

The New Library of Information Sheets

Information Sheets SIR,—I think many of us often fail to realise how immensely well served we are by our weekly professional press. I have up to now failed to find a single architectural weekly, for instance, in the USA. One of the most valued contents of *The Architects' Journal* before this last war was the inclusion of Information Sheets. This is substantiated by the fact that in publi-cation from 1935 to 1939 actually ten million sheets were in circulation, as stated in a recent leader of yours. I feel sure that an immense welcome awaits the return of this feature to your journal. An enormous revision has taken place in the manufacture of building units and materials, and a new series of Information Sheets is most urgently required. The fact that only two sheets per issue can be in-cluded, owing to paper control, is, of course, lamentable.

lamentable.

lamentable. No pictorial catalogues issued direct by manufacturers can serve instead in the draw-ing office, and since price lists are subject to almost daily revision, such publications, beyond a notification of manufacture, merely incur a most tiresome follow-up for the obtaining of the really essential data. No small attraction of the Sheets is the clear and accurate presentation of facts without a single sales slogan. London GREY WORNUM

SIR,—I have read with sympathy and interest your leading notes on *Ten Million* Information Sheets, and can, from some years' experience among architects, corrobo-rate your remarks on the importance of and deficiencies in the handling of building data.

So vast is the field of requisite and up-to-date information that no architect (other

date information that no architect (other than a Datas) can hope to cover the field without an organised system. Any method that facilitates this end is desirable. In the course of distributing a wide variety of catalogues, colour charts, blue-prints, etc., to architects I have found your Infor-mation Sheet particularly welcome, since it is technical, condensed and "standardised."

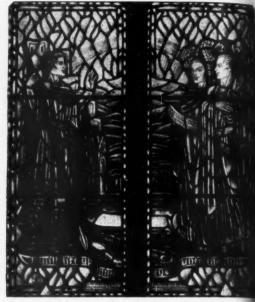
As you are probably aware, our Classifile Service is a solution to certain of these problems, and in the pursuit of this function we have had occasion to file some thousands of the "ten million." Here's to another Ten Million Ten Million.

M. C. BROADBRIDGE, General Manager, Architects Classifile, Ltd.

London

STORIED WINDOWS

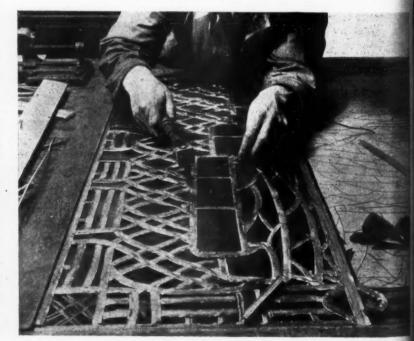




An exhibition of stained glass designed and made by A Gordon MacWhirter Webster is being held at Walker's G leries, New Bond Street. It is unusual to see examples of a craft exhibited and interesting to compare the different design created for each individual church. Mr. Webster, who has produced some twenty windows f different churches throughout the country since his return he the war, believes in a frank acceptance of the limiting chart teristics of his medium. He works with very small pieces glass which are bound by lead in a flowing pattern was accentuates the design. One of the accompanying photograp shows a window in course of being leaded and this particul window is being shown at the Galleries. It is evident that the windows are designed to give a maxime of light and colour and are inno sense transparent pictures.

It is evident that the windows are designed to give a maxime of light and colour and are in no sense transparent pictures. It treatment of each subject is formalised and considerable has been made of heavy slab glass in pale tones to form a seth for brilliant colour in the central panels. Certain decorate effects are achieved by the use of flashed antique glasses. Top, left, a sketch showing three windows for Woodside Chun Glasgoug' right, a memorial window in the Parish Chun Dunlop. Bottom, left, an exhibition window depicting Crucifixion ; right, leading a window.









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GLASS FIBRES GENERAL DATA

The Architects' Journal Library of Information Sheets 3. Editor: Cotterell Butler, A.R.I.B.A.

ТҮРЕ	DESCRIPTION	nomina! thick'ss inches (uncom- pressed)	STOCK SIZES OR QUANTITIES	density Ib/cu.ft.	thermal conduct- ivity B.Th.U. sq. ft/hr. 1%1° F	APPLICATIONS
quilt, light	lightly felted fibres covered with treated kraft paper and thread sewn	74	rolls: 27 yd. Iong x 1 yd. wide	5 (manufactur- ing density)	0.22	for the heat and sound insulation of floors, walls, partitions and ceilings (for houses)
medium	as for quilt, light	-	roils: 27 yd. Iong x I yd. wide	5 (manufactur- ing density)	0.22	as for quilt, light (for hotels, schools, institutes etc.)
heavy	as for quilt, light	14	rolls: 13 ¹ 2 yd. Iong x 1yd. wide	5 (manufactur- ing density)	0·22	as for quilt light (for telephone boxes and places where absolute quiet is desired)
house insulation	the material is lightly felted so that it may be used in blanket form	4	rolls: 9 ft. Iong × 12 in., 14 in., 16 in. wide	12		for all forms of roof space and attic insulation where the material is laid between the joists
loose wool	unbonded, feited material	I	bags: 141b.,281b. bales: 30/401b.	packing density: 3 on horizontal, 5 on vertical, surfaces	0·23 0·22	for all types of cavity insulation
bitumen-bonded mats	lightly felted fibres bonded with bitumen	-	rolls: 10 yd., 12½ yd., 15 yd. Iong x 33in 3 (manufactur- 36 in., 39 in., 42 in., 45 in., 48 in. wide ing density)	3 (manufactur- ing density)	0 · 24	for the insulation of prefabricated panels, walls and ceilings and of walls, ceilings and floors both in temporary and permanent prefabricated and conventional constructions
resin-bonded semi-rigid mars	as for bltumen-bonded mats	1, 1 ¹ 2, 2, 2 ¹ 2, 3, 3 ¹ 2, 4 ¹ 2	sizes within the limits 72in.x48in.	3 (manu'actur - ing density)	0·24	for the insulation of walls, ceilings and roofs

FIBREGLASS INSULATING MATERIALS.

8.E1 •FIBREGLASS• INSULATING MATERIALS

General

This Sheet describes the general properties of Fibreglass insulating material. The table on the face summarises the primary characteristics of the various forms in which the material is available.

Material

Glass drawn into flexible fibres, possessing high tensile strength. The material is entirely inorganic, nonhygroscopic, unaffected by moisture and will not rot or cause corrosion of any surface with which it may come in contact. It offers no sustenance to vermin and is non-inflammable.

Thermal Conductivity

National Physical Laboratory tests have been carried out on this material (under the earlier trade name of Glass Fibres). The thermal conductivity figures quoted on the face of the Sheet are based on these tests. Copies of the actual reports may be obtained from the manufacturers.

Applications

Detailed applications of this material will be dealt with on subsequent Sheets.

Compiled from information supplied by : Fibreglass Ltd.

Telephone :	Ravenhead, St. Helens, Lancs. St. Helens 2266. Fibreglass St. Helens.
London Office : Telephone :	10, Princes Street, Westminster, S.W.1. Abbey 6803. Fibreglass Parl London.
Glasgow Office : Telephone :	Firhill, Glasgow, N.W. Marybill 2141-4. Fibreglass Glasgow.

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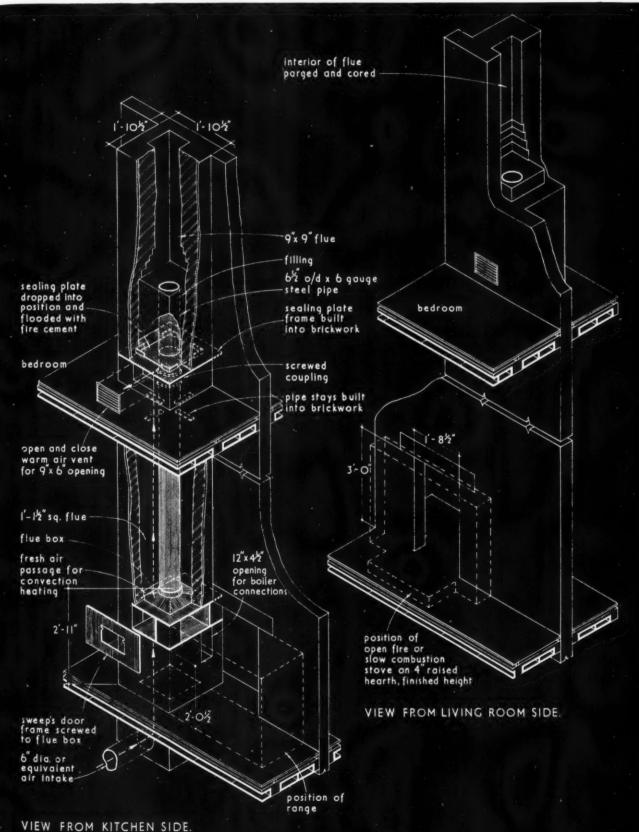




Architects' Journal 9.10.47

COOKING SOLID FUEL

The Architects' Journal Library of Information Sheets 4. Editor: Cotterell Butler, A.R.J.B.A.



No. 3 YORKDALE BACK-TO-BACK RANGE: DUCT AND FLUE.

Manufacturer: Wilson

31.B1 No. 3 · YORKDALE· BACK-TO-BACK RANGE: DUCT AND FLUE

General

This Sheet describes the general arrangement and method of constructing the duct and fixing the flue pipe for the Yorkdale back-to-back range. The arrangement is such that from one solid fuel fire in the living room, heat is provided for the oven in the adjoining kitchen and for the domestic hot water supply. In addition, warmth is provided in the rooms immediately above by use of convected air. The range can be installed with either an open fire for the burning of bituminous fuel or with an open or closed fire slow-combustion stove for burning any type of domestic coke, coal, anthracite or manufactured fuel. The oven on the kitchen side is self-contained, having the appearance of a free-standing cooker and may be combined with a New World gas cooker, Regulo con-trolled, as illustrated on Sheet 31.B2. No chimney breast or recess is necessary, only a duct to encase the steel flue pipe.

Duct

This may be brick built, 1 ft. $10\frac{1}{2}$ in. square as shown on the face of this Sheet, or constructed of prefabricated materials, measuring 1 ft. $1\frac{1}{2}$ in. square.

Construction: An opening 1 ft. $\$\frac{1}{2}$ in. wide by 3 ft. high is left in the partition wall and the duct built on the kitchen side to the left or right of the opening as required. The side flue box is obtainable in two sizes to suit either brick or prefabricated duct and is built into the duct 2 ft. $0\frac{1}{2}$ in. from the finished floor level, kitchen side. A raised hearth, 4 in. high, is necessary on the living room side to bring the fire into position with the oven flue. An opening 12 in. by $4\frac{1}{2}$ in. for boiler connections is left in the wall of the duct immediately below the flue box on the oven side. The flue pipe is placed in position and stays are fixed as the duct is being built. The sealing plate frame is built into the duct above the warm air ventilators, the sealing plate, in two halves, being dropped into frame round the pipe. The space between the duct wall and outside of flue pipe is filled in, above the sealing plate, with cement mortar. The inside of the duct from where the flue pipe terminates is then reduced to 9 in. by 9 in. and parged and cored.

Convection

Provision must be made for a fresh air inlet at the base of the duct. The air then passes through the fresh air passage beside the flue box, circulates round the flue pipe and, when heated, rises to be discharged through the warm air ventilators.

Ventilation

By continuing the steel flue pipe to the roof terminal, the space between the flue pipe and duct, above sealing plate, may be used as a ventilating shaft to rooms on the first floor. Alternatively, the upper portion may be used as a flue where supplementary heating in the room is desired from a gas fire. In either case outlets should be provided for in the stack terminal.

Compiled from information supplied by : Wilsons & Mathiesons, Limited.

> Address : Leeds 12, Telephone : Leeds 38011 (5 lines).

Mr. G. Hemel commis Hemps poration Town on exh until T of refe increas within a popu having 60,000. from Mr. Je greater be con years could realize years.' town Right, hood: the mo

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PHYSICAL PLANNING SUPPLEMENT

Mr. G. A. Jellicoe's plan for Hemel Hempstead New Town, commissioned for the Hemel Hempstead Development Corporation by the Minister of Town and Country Planning, is on exhibition at the Town Hall until Tuesday next. The terms of reference were "to plan to increase the existing town within the designated area from a population of 21,120 to one having a balanced population of 60,000." In his report, extracts from which are given below, Mr. Jellicoe says: "While the greater part of the work could be completed in ten or fifteen years the final shape as drawn could not in practice be wholly realized for fifty or a hundred years." The model of the new town was made by Cockade Ltd. Right, the Adeyfield neighbourhood; bottom, a general view of



HEMEL HEMPSTEAD NEW TOWN BY G. A. JELLICOE, Consultant to the Development Corporation



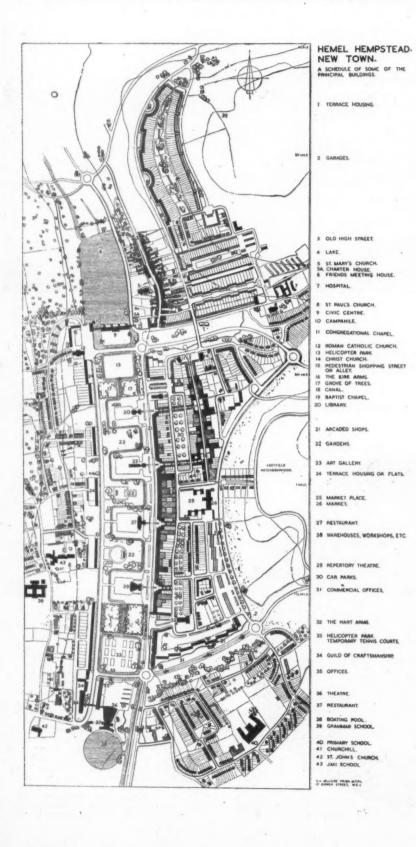
The Hemel Hempstead development area lies upon the Chiltern Hills and is roughly divided by the valley of the Gade and bounded on the south by the valley of the Bulbourne, known as the Moor. The first town of Hemel Hempstead lay wholly in the Gade Valley, a mile north of the Moor. The present town extends promiscuously down the valley and alongside the Moor, approximately in the form of an inverted T. The third town will be in the form of an O, with its centre close to the first town. The old High Street and Norman Church

The old High Street and Norman Church of St. Mary's have distinction. Elsewhere, but with certain exceptions, existing buildings are for the most part commonplace, and badly disposed upon the hillsides. Trains on the LMS Railway resound continuously across the Moor and the adjoining slopes. The valley floors are naturally cold and damp; the slopes are steep; the upper levels of the hills, where not tree-planted or otherwise protected, are invigorating but overexposed for human habitation.

Such natural and man-made circumstances have shaped the new landscape into a form peculiar to itself. An organism must be created that will absorb what is there now, adapt itself to a tumultuous ground, withstand severe winter conditions, and emerge triumphant in the spring. The valleys become water meadows, parks and gardens. Roads must twist up the contours. The homes on the hills will at times be only partly visible by reason of their protecting trees. On prominent sites above the Gade Valley and above the Moor buildings of eminence enliven the skyline. To north and south especially the town lies pleasantly between escarpments and eminences. Beyond the encircling road is the unchanged countryside of cultivated fields and farms, hills and valleys, villages and hamlets, and woodlands which in spring are carpeted with bluebells

and primroses.

The total designated area is 5,910 acres. An additional 352 acres approximately will be required, mainly on the north boundary. For purposes of planning a further additional 93 acres in the S.E. industrial area has been



treated as if included, since this will draw labour from the designated area. The total area has been allocated as follows:--(1) Central commercial area, 97; (2) industrial (includes 103 acres marked undetermined), 633; (3) industrial outside the designated area, 93; (4) residential (including school sites, local commerce, and local open spaces within neighbourhoods; three country club), 3,197; (5) public and private open spaces erclusive of above (including 20 miles of roads and parkways, two grammar schools, Gade gardens and all buildings included in the green area): within the perimeter road or railway, 1,772; outside the perimeter road or railway, 563; total, 6,355 acres. The Central Area comprises:--(a) The old

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The Central Area comprises: -(a) The data town precincts; (b) a modern commercial centre; (c) civic centre, water gardens and entertainment centre; (d) west side residential zone of flats and terrace houses; (e) southeast residential zone of existing housing with new flats.

The Industrial Areas comprise a relatively level area to the north-east, where development has already commenced; and includes for planning purposes the existing Appley and Nash Mills area, part of which is outside the designated area. It does not appear desirable to locate industry on any scale elsewhere, not only because of topography, but also in view of the deterioration in landscape values that would inevitably follow. But this disposition of industry, combined with the configuration of the land, might have

But this disposition of industry, combined with the configuration of the land, might have tended to stress an east as against a weat side of the new town; employees in industry will wish to live near their work or where cycling access is relatively easy. Safeguards have been proposed to promote a reasonable disposition of population.

Seven Residential Neighbourhoods have been located as follows:—Hammerfield, Counter's End, Warner's End, Grovehill, Adeyfield, Leverstock Green, and Apsley. Open spaces include:—(a) The Gade Valley (with Piccott's End) and Gadebridge Park. (b) A central landscape reserve for organized games and for certain institutions. (c) The Moor, for boating, bathing and general amenity. Buildings of historic or architectural merit would be retained. (d) Three country clubs. (e) Westbrook Hay and Abbots Hill. A new golf course is desirable, but this would be outside the designated area. The total productive public or semi-public open space will probably exceed one thousand acres, and includes pasture on the water meadows and hill sides, watercrea, allotments, fishing, and a small area of afforestation. It is a policy of the planning to interlock homes with land productivily. Population Distribution for Homes is proposed as follows:—Central Area, NE

Population Distribution for Homes is proposed as follows:—Central Area, N.E. (37 acres), 2,500; S.E. (150 acres), 4,500; W. (66 acres), 3,500; Commercial, say 1,000; total, 11,500; Hammerfield (292 acres), 4,500; Counter's End (235 acres), 3,500; Wamer's End (351 acres), 4,000; Grove Hill (475 acres), 7,000; Adeyfield (545 acres), 10,500; Leverstock Green (549 acres), 9,500; Apsley (475 acres), 8,000; Unaccounted, say 1,500; grand total, 60,000. Sites for schools have been allocated as follows:—Nursery Schools, No. 24 (12

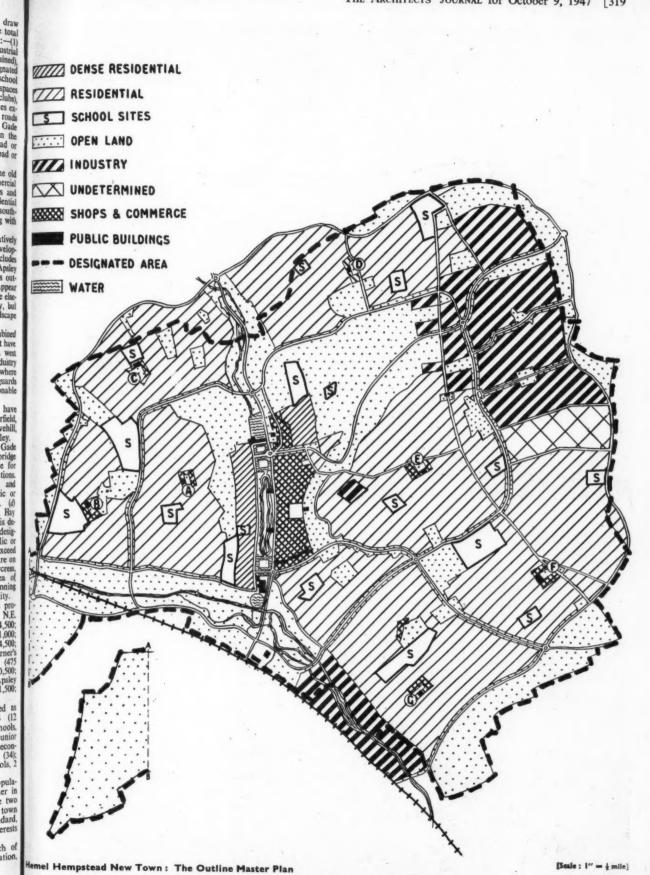
Sites for schools have been allocated as follows: --Nursery Schools, No. 24 (12 acres). Primary Schools: -- Junior Schools. 10. and Infant Schools, 10 (754). Junior Mixed and Infant Schools, 3 (104). Secondary Schools: -- Grammar Schools, 2 (34); Modern Schools, 5 (85); Bilateral Schools, 2 (50); Total, 267 acres. It has been assumed that the child population pro rata may be somewhat higher in the outer neighbourhoods than in the two

It has been assumed that the child population pro rata may be somewhat higher in the outer neighbourhoods than in the two inner and the central area. The present town is rich in private schools of a high standard, and care should be taken that these interests are preserved.

In principle there will be one Church of England church per 8-10,000 population.

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Commences and the Care

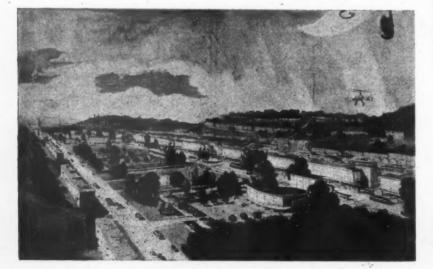
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distributed in the residential areas; one Roman Catholic church in the Central Area; and one or more Nonconformist chapels in each neighbourhood centre and in the Central Area. These places of worship, together with their attendant buildings, are necessarily not shown on the Preliminary Plan, but should come to be disposed in proper relation to environment. The existing cemetery has room for reasonable extension, but the consultant hopes that the

submission to the laws of nature which is implied in cremation will soon be universal. No additional space has therefore been left for a present-day cemetery suitable for a whole town, since the very idea of such an area blocks the cycle of birth, life, death and birth, upon which the town depends for its existence.

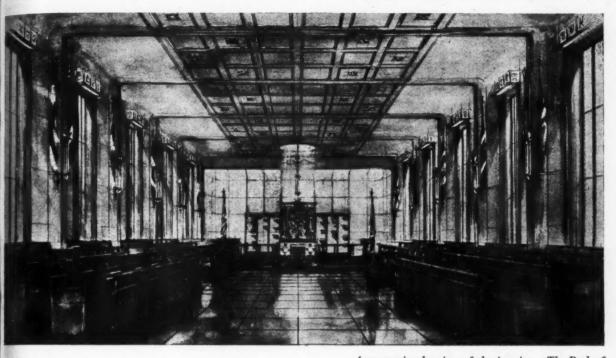
There are four residential neighbourhoods on the east side, and three on the west. In addition to the centre shown on the plan,



each will have subsidiary shopping unit, small parcels of industry, a small public garden and land for unorganized games, allotments and local public buildings of all kinds. Since much local open space will be on the perimeter, the neighbourhoods will be more separated by greenery than is indicated on the Preliminary Plan. It is the intention to establish all income groups within the urban area, but to achieve this in practice and without compulsion it would seem that some compromise should be made in the distribution of classes of houses. For this reason, guidance has been given on the general character of each neighbourhood, whether the housing is primarily subsidized or unsubsidized. C

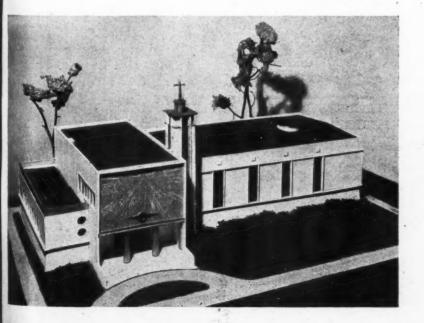
Included is a landscape report prepared for Mr. Jellicoe by Miss Sylvia Crowe.

Above, a view of the model, showing the southern half of the town looking east. Left, Perspective by Ronald Rutherford looking north along the water gardens to the civic centre. THE ARCHITECTS' JOURNAL for October 9, 1947 [321



A perspective drawing of the interior. The Book of Remembrance with light above is now to be in the centre of the Chapel as shown in the plan. Bottom, a view from the south-west.

C H A P E L OF REMEMBRANCE, BIGGIN HILL DESIGNED BY W. WYLTON TODD



The new St. George's Chapel at the RAF Aerodrome, Biggin Hill, Kent, is planned to be erected in memory of the Battle of Britain. The site of the chapel is the Ops. Room from which the Battle of Britain operations were directed. The building was blitzed and vacated in 1940, although the blast walls are still standing, and these will be incorporated in the new design.

The chapel will be a steel-frame building, the outer walls of precast stone slabs, with thin vertical windows, and over the entrance is to be a large, polished-granite area, with incised decoration.

The memorial panels, bearing the names of the 453 pilots with their squadron crests, who took part in the Battle of Britain, will be fixed on the actual spot where the controllers and plotters watched and directed the pilots engaging the enemy.

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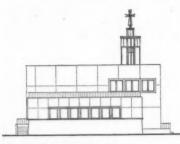
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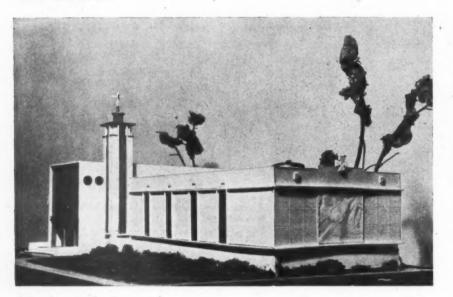
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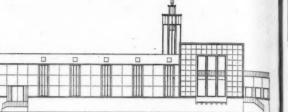


WEST ELEVATION



View from south east

HP



NORTH ELEVATION

The crests and names of all the Dominions, Colonies and nations which took part in the Battle of Britain will be shown on the ceiling panels, and also embroidered on the altar cloth.

One of the most distinctive features of the chapel will be the St George's Room, which was the inspiration of Padre King, who is chaplain of the station, and who has been the moving spirit behind the whole conception of the The St. Georgia Memorial. Room is 38 ft. by 30 ft., and cm be used as a gallery for the overflow of the congregation, or can be cut off by means of sliding glass screens to form a separate room.

An appeal for £20,000 is being made by the Biggin Hill Memoria Committee to carry out the work. Cheques, etc., should be sent diret to the Hon. Treasurer, Lloyd Bank Ltd., Uxbridge, Middleser.

LARDER KITCHEN 11.6" = 7.6 FONT BATH 1 PULPIT W.B С н P E L A 1 WC UP 1 BED SITT ROOM SITTING BOOK OF REMEMBRANCE Snowe # H'.6". 17! 0" LECTERN Cimen L BRGA OFFICE 2" Un i"(Do shir i" (Do 2" Br i" Di " Di Wash Coke i" S: White STORE & ORGAN HH . . 0

ENTRANCE

[Scale: #"=1'0"]

PLAN

Brick CHAPEL AT BIGGIN HILL: BY W. WYLTON TODD

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TECHNICAL SECTION

CURRENT MARKET PRICES OF MATERIALS

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2s. 71d.

2s. 71d.

2s. 7d.

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors.

Rates of Wages last rose on January 1, 1946, and are now as follows :-WOON DISTDICT Craftsmen.

		• •
• •	• •	
	• •	
	• •	•• ••

GRADE CLASSIFICATIONS A A1 A² A³ Craftsmen. . 2s. 6d. 2s. 51d. 2s. 5d. 2s. 41d.

Labourers. . 2s. 0d. 1s. 112d. 1s. 112d. 1s. 11d.

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.

Cements CONCRETOR

In non-returnable paper bags charged at 10/- net per ton or 6d.
such net per bag in lots of less than 1 ton.
In non-returnable jute sacks charged at 10/- net per ton or 6d.
such net per sack in lots of less than 1 ton.

* In returnable jute sacks charged at the rate of 35/6 net per ton of cement or 1/91 net per sack in lots of less than 1 ton. Credit on return at 1/6 net per sack.

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

f Supplied in paper bags and/or non-returnable jute sacks—8/- per ton extra in 1-ton lots or more, 5d. net each bag or sack in lots of less than 1 ton.

				In 80-ton freights F.A.S. Safe Wharf
			6 tons	in River Thames
			and over	London Area.
• Portland		per ton	59/6	57/-
* Rapid hardening		22	65/6	63/-
† Water repellent		7.9	91/-	
† "417 " cement (quid	k setting	(-		
extra rapid hardenin	g)		81/-	
[†] Colorcrete, red, buff	and khal	ci	101/-	
Colorcrete, other shade	8	*9	-181/– to	405/- (paper bags free)
Snowcrete			(Minimu	m 1-ton lots) 232/-
				per bags free)
				-19 1 ton and
Ciment Fondu, deli	vered C	entral	owte. cr	vts, upwards
London area		per cwt.		5/- per ton 238/-

Aggregate and Sands (Full Loads)

2" Unscreened ballast #(Down) Washed,	crushe	d and	gra	ded	per yard cube	14/5
shingle					per yard cube	14/5
(Down) Ditto					per yard cube	15/5
2" Broken brick					per yard cube	14/6
P Ditto					per yard cube	16/-
Washed pan breeze					per yard cube	10/6
Coke breeze 1" to dust					per yard cube	_
" Sharp washed sand	1				per yard cube	16/4
White Silver Sand for	white	cement	(one	ton	lots) per yard	55/6

(For Sands for Bricklaying and Plastering see respective trades)

Pavings

Brick hardcore		 	 	per yard cube	6/6
Concrete ditto	~**	 	 	per yard cube	6/6

Labo	nurers.
2s.	1 1 d.
2s.	1d.
2s.	1‡d.

S.I., F.I.Arb.

CONCRETOR—(continued)

-

Pavings-continued	
Clean furnace clinker and boiler ashes	per yard cube 4/-
Coarse gravel for paths	per yard cube -
Fine ditto	per yard cube -
Clean granite chippings (in 5 ton loads)	ner ton 41/7
Ditto (in 5 ton loads) (Immediate delivery)	per ton 44/7
Red quarry tiles, $6'' \times 6'' \times \frac{7}{4}''$	per yard super 9/9
Ditto $6'' \times 6'' \times 4''$	per yard super 8/8
Def ditte Of the 78	per yard super10/11
Thinks OF NOT NOT	per yard super 9/9
Tradad and an in a baile of	per 1,000 262/3
T2:44-	per 1,000 245/3
	por 1,000/o
Reinforcement	
Home trade maximum basis price for m	ild steel rods,
#" diameter and upwards, ex mills deliv	per ton £16 19 0
or siding	per ton 210 19 0
Extras for :	per ton 10/-
Under #" to #" diameter	man ton 15/-
Ditto H" and over I" diameter	A
and over # diameter	per ton 20/-
it and over ff" diameter	per ton 25/-
and over M" diameter	per ton 30/-
# and over #	per ton 35/-
1" diameter	per ton 40/-
Under #" to #"	per ton 60/-
Lengths over 40 ft. to 45 ft	per ton 10/-
" " 45 ft. to 50 ft	per ton 15/-
" " 50 ft. (as 50 ft. plus per ft.)	per ton 1/6
Sundries	
Retarding liquid, in 5-gallon drums	Ex Warehouse,
(for exposing aggregate)	Southwark Bridge.
per gallon 25/-	> Drums chargeable
Ditto (for obtaining a bond)	and credited, if
per gallon 15/7	returned.
	-
BRICKLAYER	
Common Bricks	
†Rough stocks	per 1,000 -
Third stocks	per 1,000 -
ANGLA - to also	per 1,000 -
9	per 1,000 -
4D1	per 1,000 69/-
	1 000 71/
D1 G. C. 1.1	man 1 000
17. 011	1 000 116/
	1 000 475 L
11 1 1 1 1 1 1 1 1 1 00	
Facing and Engineering B	
Sand Limes, No. 1	per 1,000 —

Phorpres rustic Flettons
 Phorpres rustic Flettons
 Phorpres rustic King's Cross (Maiden Lane) Stn. For delivery in W.C. district add 15/- per 1,000.

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TECHNICAL SECTION

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DRAINLAYER

BRICKLAYER-(continued)

Facing and E	ngineering Brick	-continued.	
Facing and E 24" engineering bricks †Hard stocks, firsts †Hard stocks, seconds Sand-faced, hand-made rr Sand-faced, machine-made Red rubbers (94-in.) †White facings Coloured facings (creams, terra cotta).		per 1,0	000 120/-
Hard stocks, firsts		por 1,0	000
Sand-faced, hand-made n	nda	. per 1,000	- 000
Sand-faced, machine-mad	e reds	. per 1,000 fr	om 100/-
Red rubbers (9 [‡] -in.)			000
Coloured facings (creams,	buffs, browns &	. per 1,000 noi	и 100/-
terra cotta). †Dunbriks (concrete), grey †Dunbriks (concrete), vari		per 1,000 from	n 118/-
Dunbriks (concrete), grey	s or Commons .	per 1,0	127/6
Southwater engineering	No. 1 (first qu	ality red	000 141/0
pressed) †Southwater engineering 1		per 1,0	000 192/6
Southwater engineering 1	No. 2 (second qu	ality red	00 187/8
pressed) Blue pressed Southwater pressed sand Dorking pressed sand	•• •• •	per 1.0	000 - 000
Southwater pressed sand	lfaced reds .	per 1,6	000 172/6
I a commente bronnore one	TACET CO.C.C. VET CET CA	00104104	
facings †Plus 6d. per 1,00	0 levy-Prices e	x works-Hauls	ge extra.
L	imes and Sand		
**		1-ton lot	s 6-ton lots
Lime, greystone		per ton $82/3$	_
Lime, blue Lias (includin	g paper bags)	per ton -	-
Lime, hydrated (including	paper bags)	per ton 87/-	mba 18/4
Lime, greystone Lime, chalk Lime, blue Lias (including Lime, bydrated (including Washed pit sand Kor cements, see "Con	ncretor.")	per yaru c	ube 10/4
fire of jute sacks charg	ed at 1/6 and cre	dited at 1/6. If	f left charged
at 1/9.	Sundries		
Wall ties, self coloured Wall ties, galvanized Damp proof course slates, $14'' \times 9''$ Ledkore D.P.C. Grade A Ledkore D.P.C. Grade B Ledkore D.P.C. Grade C t Trade discourt 74 per include delivery on minin	8 × 1 × 1	per cwi	. 55/3
Wall ties, galvanized.	39 39 39	per cwt	. 75/3
Damp proof course states, $14'' \times 9''$	5120 : per 100	Weish. 45/6	39/6
14" × 41"	·· por 100	22/3	17/9
Ledkore D.P.C. Grade A	** ** *	. per foot sup	or 112d.
Ledkore D.P.C. Grade C	•• •• •	. per foot supe	Br L/12
‡ Trade discount 71 pe	r cent. and cash	discount 21 per	cent. Prices
anostere actively out manager	in the state of the or the or	ara	
Ded and both	3" 9" × 6" 9		and the second s
Red and buff terra cotta each 1	/- , 1/10	4/10 -	12/11
cotta each 1 Black cast iron, School 9	/- , 1/10 *×3" 9"×6"	$\frac{4/10}{9'' \times 9''}$ $\frac{1}{12'' \times 6}$	12/11 12"×9"
cotta each 1 Black cast iron, School 9 Board pattern airbricks		4/10 9"×9" 12"×6	12/11 12*×9*
cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz.			r <u>12/11</u> <u>12*×9</u> *
cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz. Black hit and miss cast	= , =		Ξ
cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz. Black hit and miss cast	= , =		Ξ
cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz. Black hit and miss cast	= , =		Ξ
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cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz. Black hit and miss cast iron ventilators per doz. Galvanized ditto per doz. Buff terra cotta chimney 1 pots each 4	· · · · · · · · · · · · · · · · · · ·	$\begin{array}{c} - & - \\ - & - \\ 0'' & \frac{2' \cdot 6''}{10/10} & \frac{3'}{24} \end{array}$	<u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u>
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cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz. Black hit and miss cast iron ventilators per doz. Galvanized ditto per doz. Buff terra cotta chimney 1 pots each 4	· · · · · · · · · · · · · · · · · · ·	$\begin{array}{c} - & - \\ - & - \\ 0'' & \frac{2' \cdot 6''}{10/10} & \frac{3'}{24} \end{array}$	<u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u>
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cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz. Black hit and miss cast	0° 1'6° 2' 10° 1'6° 2' 10° 5/8 8/3 1/- ed in standard r . per roll 2/10; . per roll 3/6 . per roll 3/6 . per roll - Partitions, etc.	0" 2' 6" 3' 10/10 24 colla containing 2 Greater wid 21" price on orders counts fo	6" 5'0" /11 42/6 25 yards lin. ths pro rata carriage paid of £7. Dis- or quantities.
cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz. Black hit and miss cast iron ventilators Galvanized ditto per doz. Buff terra cotta chinney 11 pots each 4 Fireclayper ton 9 Wall reinforcement suppli 2* wide black japanned 24 wide black japanned 24 wide galvanized	70° 1'6° 2' 70° 1'6° 2' 71- ed in standard r per roll 2/10; per roll 3/6 per roll - Partitions, etc. 2"	$\begin{bmatrix} 0^{\prime\prime} & 2^{\prime} & 6^{\prime\prime} & 3^{\prime} \\ \hline 2^{\prime} & 10/10 & 24 \\ \end{bmatrix}$ Greater wid 2 ¹ / ₄ Greater wid 2 ¹ / ₄ price on orders counts for 2 ¹ / ₄ 3 ^{''}	
cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz. Black hit and miss cast iron ventilators Galvanized ditto per doz. Buff terra cotta chinney 11 pots each 4 Fireclayper ton 9 Wall reinforcement suppli 2* wide black japanned 24 wide black japanned 24 wide galvanized	70° 1'6° 2' 70° 1'6° 2' 71- ed in standard r per roll 2/10; per roll 3/6 per roll - Partitions, etc. 2"	$\begin{array}{c} & & & \\ & & & \\ 0'' & \frac{2'}{10} & \frac{3'}{10/10} & \frac{3'}{24} \\ \\ \end{array}$	$\frac{6''}{/11} \frac{5' 0''}{42/6}$ 25 yards lin. ths pro rata carriage paid of £7. Dis- or quantities. $\frac{4''}{5/3}$
cotta each 1 Black cast iron, School 9 Board pattern airbricks per dox. Galvanized ditto per dox. Black hit and miss cast iron ventilators Buff terra cotta chimney 11 pots each 4 Fireclayper ton 9 Wall reinforcement suppli 2* wide black japanned 2* wide black japanned 2* wide black japanned 2* wide galvanized 2* wide galvanized	'0' 1' 6" 2' '0' 1' 6" 2' '0 5/8 8/3 7/- ed in standard r . per roll 2/10; . per roll 3/61; . per roll 3/62; . per roll 2' . and super 3/2 . and super 3/1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{6''}{\sqrt{11}} \frac{5' 0''}{42/6}$ 25 yards lin. ths pro rata carriage paid of £7. Dis- r quantities. $\frac{4''}{5/3}$ $\frac{4}{4/7}$
cotta each 1 Black cast iron, School 9 Board pattern airbricks per dox. Galvanized ditto per dox. Black hit and miss cast iron ventilators per dox. Galvanized ditto per dox. Buff terra cotta chimney 11 pots each 4 Fireelayper ton 9 Wall reinforcement suppli 2" wide black japanned . 2" wide galvanized 24" wide black japanned 24" wide black japanned	0° 1'6° 2' 0° 1'6° 2' rd 5/8 8/3 7/- ed in standard r ed in standard r . . per roll 2/10; . per roll 3/6; . per roll 3/6; . per roll 2'' ard super 3/2 ard super 3/1 ard super 6/4	$\begin{array}{c} & & \\ & & \\ 0'' & 2' 6'' & 3' \\ \hline 2 & 10/10 & 24 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\frac{-}{\sqrt{11}}$ $\frac{5'0''}{42/6}$ 25 yards lin. 15 pro rata carriage paid of £7. Dis- or quantities. $\frac{4''}{5/3}$ $\frac{4}{7}$ 10/6
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cotta each 1 Black cast iron, School 9 Board pattern airbricks per doz. Galvanized ditto per doz. Black hit and miss cast iron ventilators Per doz. Galvanized ditto per doz. Buff terra cotta chinney 1 pots each 4 Fireclayper ton 9 Wall reinforcement suppli 2' wide black japanned . 2' wide black japanned .	$\begin{array}{c} & & & \\$	0" 2' 6" 3' 0" 2' 6" 3' 0" 10/10 24 0" 24" 3' 10 10 24" 10 24" 3' 3/8 4/2 3/4 7/1 8/2 3/4 3/4 4/- 7/1 7/1 8/2 3/4 3/4 4/- 7/1 8uper from 4/2 3/4 3/4 7/1 8/2 3/4 7/1 8/2	$\begin{array}{c} - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - $
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cotta each 1 Black cast iron, School 9 Board pattern airbricks per dox. Galvanized ditto per dox. Black hit and miss cast iron ventilators Per doz. Galvanized ditto per dox. Buff terra cotta chimmey 11 pots each 4 Fireclayper ton 9 Wall reinforcement suppli 2* wide black japanned . 2* wide black japanned . 5* Prices according to .	20° 1'6° 2' 0° 1'6° 2' 1/- ed in standard r - per roll 2/10; . per roll 3/6; . per roll 3/6; . per roll 3/6; . per roll 3/6; . per said . per yard . per set of	0" 2' 6" 3' 10/10 24 olls containing 5 containing 5 2 10/10 24 olls containing 5 2 1" price on orders counts fo 2 2 1" 3" 3/8 4/2 3/4 4/- 7/1 8/2 super from 4/2 super from 6/7 super from 8/6 2 2/2 3 4/11	$\frac{1}{\frac{6''}{11}} \frac{5' 0''}{42/6}$ 25 yards lin. ths pro rata carriage paid of £7. Dis- r quantities. $\frac{4''}{5/3}$ $\frac{4''}{4/7}$ 10/6 to 4/10 to 4/10 to 9/8 iscount. Double Flues
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Cinker	- - 0° 1'6° 2' 0° 5/8 8/3 7/- ed in standard r - ed in standard r - - . per roll 2/10; - . per roll 3/6; - . per roll 3/6; - . per roll 3/2; - rd super 3/2; rd super 3/2; - rd super 3/2; - - rd super 3/1; - - rd super 6/4; . per yard . per yard - quantity ordered Gas Flue Block; . . eac 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\$
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Cinker		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

. Land Drain Pipes	
2" 3" 4" (*	
Pipes in 12" lengths per 1,000 99/6 138/6 179/- 372/- (Delivered in full loads Central London Area.)	Malleable i
Salt Glazed Stoneware Pipes and Fittings	Galvanized fronts (L
4" 6" 9"	
Pine (9' lengths) each 1/8 9/6 4/8	MASON
Bends, ordinary \dots \dots each $2/6$ $3/9$ $6/9$ Single Junction, 2' long \dots each $3/4$ $5/ 9/-$ Yard Gulley, without grating \dots each $6/3$ $6/10\frac{1}{4}$ $11/3$	Bu
Yard Gulley, without grating each 6/3 6/101 11/3	Blocks scra Add for bl
Ordinary round or square Grating, painted	
Ordinary round or square Grating.	Templates
Extra for Inlets, horizontal each 1/6 1/6 1/6	Templates
Extra for Inlets, vertical each 2/3 2/3 2/3 Intercepting Trap with Stanford	Price f.o.
Stopper each 17/6 22/6 37/6	per ton.
Grease and mud interceptor with bucket for removing silt and grease for 6", 9" and 12" drains, with iron each 20/-	6" × 3" (
grating, painted	
grating, painted	9" × 0" 9" × 3" 9" × 6" 12" × 3"
different qualities given. All subject to 21 per cent. cash discount.	12" × 3" 12" × 6"
British British Standard Standard	Cornices a
Tested	SLATE
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Juit 1 1
Orders under 2 tons, less than 100 pieces Plus 671% Plus 92	
Rest. Seconda	94" × 12 90" × 10
Orders for 2 tons and over Plus 30% Subject to 15% Orders under 2 tons, 100 pieces upwards Plus 50% off the price Orders under 2 tons, less than 100 pieces Plus 60% best quality for	Price
Orders under 2 tons, less than 100 pieces. Plus 60% best quality for all sizes.	Basic for
Cast Iron Drain Pipes and Fittings	Machine-
Socket and Spigot Pipes :-	
Weight Size 9 fts. 6 fts. 4 fts. 3 fts.	Berkshire
(per 9 ft.) 1.1.8 4" per yard 9/9 10/10 17/5 13/2	*d'corru
1.1.1.6 4 per yard $5/5$ $15/10$ $1/5$ $13/2$ 1.1.17 4" per yard $10/2$ $11/2$ $17/10$ $13/8$ 2.0.1 6" per yard $15/ 17/11$ $28/10$ $23/-$ 3.2 21 9" per yard $15/ 17/11$ $28/10$ $23/-$	Standar
2.0.1 6" per yard 15/- 17/11 28/10 23/- 3.3.21 9" per yard 27/3 35/9 62/- 47/4	
3.3.21 9" per yard 27/3 35/9 62/- 47/4	* 15
9 fts 19 ins 19 ins 0 ins	* 15 * 15
2 fts. 18 ins. 12 ins. 9 ins. 10/10	* 15 * 15 * 15 Pantiles
2 fts. 18 ins. 12 ins. 9 ins. 10/10	* 15 * 15 * 15 Pantiles * Lar
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	* 15 * 15 * 15 Pantiles
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.	 15 15 15 Pantiles Lar, Pric trade dist
2 fts. 18 ins. 12 ins. 9 ins. 1. 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%. - - -	* 15 * 15 * 15 Pantiles * Lar * Pric
2 fts. 18 ins. 12 ins. 9 ins. 1.1.1.8 4" each 10/10 - - - 2.0.1 6" each 11/1 - - - 3.3.21 9" each 17/4 - - - Tonnage Allowances : Orders up to 2 tons nett. - - - Orders 2 to 4 tons less 2½%. Orders 4 tons or over less 5%. 4" 6" 9"	 15 15 Pantiles Lar, Pric trade dis WALL f" Insul
2 fts. 18 ins. 12 ins. 9 ins. 1.1.1.8 4" each 10/10 - - - 2.0.1 6" each 11/1 - - - 3.3.21 9" each 17/4 - - - Tonnage Allowances : Orders up to 2 tons nett. - - - Orders 2 to 4 tons less 2½%. Orders 4 tons or over less 5%. 4" 6" 9"	• 15 • 15 • 15 Pantiles • Lar, • Pric trade dis WALL f" Insul (per s
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2fts. 18 ins. 12 ins. 9 ins. 1.1.17 4" each .10/10 - - - 2.0.1 6" 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%. 4" 6" 9" Bends (short radius) . . each 9/8 20/- 61/7 Single junctions . Fig. No. 18 each 16/11 34/8 106/3 Intercepting traps . . each 67 - - Gulleys ordinary trapped "P" each 6/7 - - - - Extra for vertical back inlet 4" each 6/7 - - - - - - - - -	 i5j i5j Pantiles Lar, Pricie trade dis WALL i" Insul (per s i" Insul (per s i" Insul (per s i" Har i" Har
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	• 153 • 153 • 155 Pantiles • Lar, • Pric tendo dis WALI (por s * Insul (por s * Insul (por s * Insul (por s * Har * Har * Har * Har * Har * Har
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 i5j i5j Pantiles Lar, Pantiles Lar, Pantiles MALL WALL "Insul (per s "Insul (per s "Insul (per s "Insul (per s "Hau "Hau "Hau "Hau "This
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	• 153 • 155 • 155 Pantiles • Larn • Price trade dis WALL ?" Insul (per s ?" Insul (per s ?" Harn \$" Harn \$" Harn \$" Harn \$" Harn \$" Harn \$" Harn \$" Soon 5,000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	* 153 155 155 Pantiles * Larn Price trade dis WALL " Insul (per s " Insul (per s) " I
2fts. 18 ins. 12 ins. 9 ins. 1.1.17 4" each .10/10 - - - 2.0.1 6" each .11/1 - - - - 2.0.1 6" each .17/4 - - - - - 3.3.21 9" each . - - - - - - Tonnage Allowances: Orders 2 to 4 tons less 2½%. Orders 4 tons or over less 5%. 4" 6" 9" Bends (short radius)	 i5j i5j Pantiles Lan Pantiles Lan Pantiles MALL WALL "Insul (per s "Insul (per s)
2fts. 18 ins. 12 ins. 9 ins. 1.1.17 4" each 10/10 - - - 2.0.1 6" each 11/1 - - - 2.0.1 6" each 17/4 - - - 3.3.21 9" each 17/4 - - - Tonnage Allowances: Orders up to 2 tons nett. - - - - Orders 2 to 4 tons less 2½%. Orders 4 tons or over less 5%. 4" 6" 9" Bends (short radius) . . each 9/8 20/- 61/7 Single junctions . Fig. No. 18 each 16/11 34/8 106/3 Intercepting traps . . each 67 - Extra for vertical back inlet 4" each 6/7 - - Gause Gulley trap . . each 188/- - H.M.O.W. large socket gulley trap . . each 13 1/10 3/4 H.M.O.W. large socket gulley trap . . each - <td< td=""><td>• 153 • 153 • 155 Pantiles • Larn • Pric tendo dis WALL " Insul (por s " Insul 1 " Har " Har " Har " Har " Thi 1 but 2,500 5,000 " " Di " Di " Di</td></td<>	• 153 • 153 • 155 Pantiles • Larn • Pric tendo dis WALL " Insul (por s " Insul 1 " Har " Har " Har " Har " Thi 1 but 2,500 5,000 " " Di " Di " Di
2fts. 18 ins. 12 ins. 9 ins. 1.1.17 4" each .10/10 - - - 2.0.1 6" each .11/1 - - - - 2.0.1 6" each .17/4 - - - - - 3.3.21 9" each . - - - - - - Tonnage Allowances: Orders 2 to 4 tons less 2½%. Orders 4 tons or over less 5%. 4" 6" 9" Bends (short radius)	 i5j i5j Pantiles Lan Pantiles Lan Pantiles MALL WALL "Insul (per s "Insul (per s)
2fts. 18 ins. 12 ins. 9 ins. 1.1.17 4" each 10/10 - - - 2.0.1 6" each 11/1 - - - 2.0.1 6" each 17/4 - - - 3.3.21 9" each 17/4 - - - Tonnage Allowances: Orders up to 2 tons nett. - - - Orders 2 to 4 tons less 2½%. Orders 4 tons or over less 5%. 4" 6" 9" Bends (short radius) . . each 9/8 20/- 61/7 Single junctions . Fig. No. 18 each 16/11 34/8 106/3 Intercepting traps . . each 67 - Extra for vertical back inlet 4" each 6/7 - - Gause Gulley trap . . each 185/- - H.M.O.W. large socket gulley trap . . each 1/3 1/104 3/4 HAf round straight channels 24" long . each 1/3 1/104 3/4	 i5j i5j i5j Pantiles Larn Price WALL WAL WALL WAL
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	• 153 • 155 • 155 Pantiles • Larn • Price trade dis WALL * Insul (per s * Insul (per s * Har * Har * Har * Har * Har * Har * Har \$ 500 5,000
2fts. 18 ins. 12 ins. 9 ins. 1.1.1.8 4" each 10/10 - - - 2.0.1 6" each 11/1 - - - 2.0.1 6" each 17/4 - - - 3.3.21 9" each 17/4 - - - Orders 2 to 4 tons less 24%. Orders 4 tons or over less 5%. - - - Bends (short radius) . each 9/8 20/- 61/1 Single junctions . Fig. No. 18 each 16/11 34/8 106/3 Intercepting traps . . each 67 9" Bends (short radius) . . each 67 17 Single junctions . Fig. No. 18 each 16/11 34/8 106/3 Intercepting traps . . each 18/7 - - Extra for vortical back inlet 4" each 18/7 - - - - Half cound straight channels 24" long . each 1/3 1/104 3/4 <td> i5j i5j i5j Pantiles Larn Price WALL WAL WALL WAL</td>	 i5j i5j i5j Pantiles Larn Price WALL WAL WALL WAL

DRAINI

$24'' \times 18''$ single seal for foot traffic. (Weight 0.3.0 cwts. in lots of 24) each		72/6	I
24" × 18" single seal for light car traffic. (Weight 2 cwts. in lots of 24) each 24" × 18" all steel recessed manhole cover each	100/-	190/-	1

THE ARCHITECTS'. JOURNAL for October 9, 1947

	THE ARCHITECIS. J	OURNAL
	DRAINLAYER-(continued)	
	Manhole Covers, etc(continued)	
	Fine Cast	Galv.
- 372/-	Malleable iron steps, for 9" brickwork approx-	001
	inste weight 41 lb. each per dezen — Galvanized fresh air inlets with cast brass 4"	60/- 6"
	fronts (L.C.C. pattern)each 11/-	46/3
P	MASON	
8	Yorkstone	
	Building quality Robin Hood and Woodkirk Blue Stone	
1.	Model for blocks to dimension sizes per foot cube 10	7/5 d. (each
3	di	nension)
	Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) per feet cube	3/3
	Templates with sawn beds, sawn one edge, per foot cube)/11
	Templates with sawn beds, sawn two edges, per foot cube Price f.o.r. Yorkahire, railway rate to London Station	1/7
		88/7
1-	Artificial Stone	010
-	# × 6" Copings and sills.	$\frac{2}{8}$ $\frac{4}{1\frac{1}{2}}$
01	9" × 3" Copings and sills per foot run	3/21
or the at.	$9^{\circ} \times 6^{\circ}$ Copings and sills	$\frac{5}{10\frac{1}{2}}$. $\frac{4}{1\frac{1}{2}}$
ah	12" × 6" Copings and sills per foot run	7/01
ard	Cornices according to detail, per foot cube (from)	2/7
d 321%	SLATER, TILER AND ROOFER	
3219	Best Bangor Slates	
21%	£	8. d.
8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 6 -
15%	Prices include for delivery to site in lots of 1,000 and upwar	rds.
yfre	Tiles Basic for Hand-made sandfaced $10\frac{1}{2} \times 6\frac{1}{2}$ red roofing tiles	
	per 1,000 17	1/-
	Machine-made sandfaced 10 ⁴ × 6 ⁴ / ₄ " red roofing tiles per 1,000	_
	Berkshire rustic pantiles per 1,000	_
h	Asbestos-cement	
	*i'corrugated sheets, grey per yard super 3/ *Standard 3" corrugated sheets, grey per yard super 3/	
	"Standard 3" corrugated sheets, grey per yard super 3/ States (Manufacture temporarily suspended) :	18
	151" × 71" grey per 1,000 £	
		1 12 0 3 12 6
	rantues (Manufacture temporarity suspended).	
1	 Large russet brown	to 5%
- 1	inde discount and 21% cash discount.	
	WALLBOARDS, Etc.	
	Up to 5,000 sq. ft. 5,000 to 15,000 s	a. ft.
	I" Insulating board	
	(per sq. yd.) 3/4 15,000 to 50,000 sq. ft. Over 50,000 sq	
	"Insulating board	[, 10,
	(per sq. yd.) $3/0\frac{1}{3}$ $2/10\frac{1}{3}$	
	Up to 5,000 sq. ft. 5,000 to 10,000 a	sq. ft.
	(per sq. ft.) 5%d. 518d.	
	#"Hardboard () 71d. 711d.	
4.	10,000 to 30,000 sq. ft. Over 30,000 sq	. ft.
	i"Hardboard (ner ag ft) 5.5.d 428.d	
	(per sq. ft.) 5號d. 4醫d. 計"Hardboard	
	$(,,)$ $7\frac{1}{32}d.$ $6\frac{32}{32}d.$	
	Laminated Wallboard	
	* Thickness (standard) :	09.3
		24d. 24d.
	2,500 sq. ft. to 5,000 sq. ft per feet super -/ 5,000 sq. ft. and over per feet super -/	21d.
	Asbestos-coment and Asbestos Products	
	th' Semi-compressed flat building sheets, grey	
	per yard super to Ditto per yard super 1 to Ditto per yard super 2	/7
	Prices are for orders of two tons and over and are subject to 59 discount and 21% cash discount.	o trade
	"t" Asbestos wallboard (in sheets $8' 0" \times 4' 0"$),	1-
	\$10 miles	-/5 -/4
	*Asbestos wood (in sheets 8' 0" \times 4' 0") per yard super $\cdot 2$	/61
1	* Prices are for orders of 2 tons and over and are subject t	0 21%

WALLBOARDS, Etc.—(continued)	
Asbestos-Cement and Asbestos Products-(continued)	
1 Asbestos Insulating Board per foot super	
25-75 150-300 600	
yards yards yards	
2" Fireneoof plaster board men ward super 9/6 9/9 1/10	
$\frac{1}{4}$ Ditto per yard super $2/4$ $2/ 1/8$	
2" Paper Faced Linen Tape per 100 yard roll 5/-	
Joint filler per lb/4	
Sundries	
Slaters or sarking felt	
Roofing felt (1-ply bitumen) per yard sup. 1/3	
Bituminous hair felt per roll 69/-	
"Sisalkraft" standard grade per yard super -/64 "Sisalcraft" subsoil grade per yard super -/34	
"Cabote" guilts (Fr Works) Twenty roll lots delivered carr free	
 "Sisalcraft" subsoil grade per yard super -/34 "Cabots" quilts:(Ex Works) Twenty roll lots delivered carr. free Triple ply 4" thick	
Douple ply 4" thick	
Single ply #" thick 1/8	
All rolls 28 yds. long by 36" wide. Quantities less than complet	e
roll 2d. extra per yard. "Fibreglass" sound deadoning quilt per yard super	
"Fibreglass" sound deadening quilt per yard super	
Up to 500 vds. Over 500 vds	
Light grade 1/11 1/101	
Light grade	
In rolls 27 yards long by 36" wide. "Fibreglass" bitumen bonded mats	
in standard rolls per yard super 1/4	
in standard rolls per yard super 1/4 In rolls 10, 12 ¹ / ₂ , 15 yards long by 33", 36", 42", 45" 48" wide.	
Cut steel clasp nails	
Cut steel clasp nails 1" per cwt. 49/3 "," "floor brads 2" "," 41/6 Bright oval wire nails 1" "," 47/9	
Galvanized wire staples with slice cut	
points	
Points it it it it a stange per end of	
Scotch glue per cwt	
Scotten giue per ewe	
STEEL AND IRONWORKER	
STEEL AND IRONWORKER Steelwork & s. d.	
Scoten gue	
STEEL AND IRONWORKER Steelwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0	
STEEL AND IRONWORKER Steelwork £ s. d. Basis price for rolled steel joists sections $5^{\sigma} \times 3^{\sigma}$ to $16^{\sigma} \times 6^{\sigma}$, in 10 ft. to 50 ft. lengths ex mills por ton	
Social give	
Socied give por ewe. — STEEL AND IRONWORKER Steelwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 por ton PLASTERER Plaster and Cement	
STEEL AND IRONWORKER Steelwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 per ton PLASTERER Plaster and Cement 1-ton 6-ton	
STEEL AND IRONWORKER Steelwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 per ton PLASTERER Plaster and Cement 1-ton 6-ton	
Scotch glub	
Socien give por ewe. — STEEL AND IRONWORKER Steelwoork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 por ton PLASTERER Plaster and Cement 1-ton 6-ton loads loads Sirapite (coarse) per ton 91/6 82/6 "(fine) per ton 91/6 82/6 "(fine) per ton 90/6 90/6 Victorite No. 1 (White) per ton ", No. 2 (Buff) per ton ", No. 2 (Buff) per ton Pink plaster per ton 90/9 White plaster per ton 100/3 Keene's pink per ton 157/3 Gypstone per ton 73/- Kent	
Sorten give por ewe. — STEEL AND IRONWORKER Steelwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 por ton PLASTERER Plaster and Cement 1-ton 6-ton loads loads Sirapite (coarse) per ton 91/6 82/6 , per ton 99/6 90/6 Victorite No. 1 (White) per ton 91/6 82/6 , per ton 91/6 82/6 No. 2 (Buff) per ton Thistle (browning) per ton 91/6 82/6 Pink plaster per ton 91/6 82/6 White plaster per ton 10/3 Keene's white per ton 151/- Keene's white per ton 151/- Gypstone per ton 73/- Paristone (haired) per ton 73/- Cullamix (Tyrolean Finish) 1 ton lots and up-	
Sorten glub por ewe. — STEEL AND IRONWORKER Steelwork £ s. d. Steelwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 por ton PLASTERER Plaster and Cement 1-ton 6-ton loads loads loads loads Sirapite (coarse) per ton 91/6 82/6 "fine) per ton 91/6 82/6 "no. 2 (Buff) per ton - "No. 2 (Buff) per ton 91/6 82/6 Pink plaster per ton 91/6 82/6 Pink plaster per ton 91/6 82/6 White plaster per ton 91/6 82/6 Pink plaster per ton 100/3 Keene's white per ton 151/- Keene's white per ton 73/- Paristone (haired) per ton 73/- Cullamix (Tyrolean Finish) 1 to lots and up- wards per ton from 153/6 to 187/-	
Socien give por ewe STEEL AND IRONWORKER Steelwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 por ton PLASTERER Plaster and Cement I-ton 6-ton loads loads birapite (coarse) per ton 91/6 82/6 ", (fine) per ton 91/6 82/6 ", (fine) per ton	
Socien gius por ewe. — STEEL AND IRONWORKER Steelwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 por ton PLASTERER Plaster and Cement 1-ton 6-ton loads loads loads loads Sirapite (coarse) per ton 91/6 82/6 "(fine) per ton 91/6 82/6 "(fine) per ton 91/6 82/6 ", fine) per ton 91/6 82/6 Plink plaster per ton 91/6 82/6 Plink plaster per ton 91/6 82/6 Steene's pink per ton 101/3 Keene's white per ton 100/3 Keene's white per ton 151/- Keene's white per ton 73/- Paristone (haired) per ton 73/- Cullamix (Tyrolean Finish) 1 ton lots and up- wards per ton from 153/6 to 187/- Sundries Der vard cube 16/4	
Stellwork £ s. d. Stellwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 por ton por ton por ton PLASTERER Plaster and Cement 1-ton 6-ton loads loads Sirapite (coarse) , fine) , per ton 91/6 82/6 , (fine) per ton - , model per ton , model per ton	
Stellwork £ s. d. Stellwork £ s. d. Basis price for rolled steel joists sections 5" × 3" to 16" × 6", in 10 ft. to 50 ft. lengths ex mills 16 12 0 por ton por ton por ton PLASTERER Plaster and Cement 1-ton 6-ton loads loads Sirapite (coarse) , fine) , per ton 91/6 82/6 , (fine) per ton - , model per ton , model per ton	
Stell and item in the intervention of the item item item item item item item ite	
Social give	
Solution gives	

TECHNICAL SECTION

× 26 gauge Wire Slate nails (galvanized) 14" × 15 gauge ",",", (bright wire),",", per ewt. per ewt. 150-300 yards 25-150 Over #" Plaster board (plaster base) yards per yard super 2/1 14" Galvanized nails per owt. 63/4 Hessian Scrim cloth in 100-yard rolls 34" wide per vard 600 yards 1/7 yards 1/9 Wall Tiles

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

1

	-			
ŧ"			per yard super	8/6
-			per yard super	9/-
			per yard run	1/1
e glazed	1)		per yard run	1/8
a glaze	(b		per yard run	1/9
glazed				
			per yard super	14/3
			per yard run	1/2
			per yard run	2/9
6" × 6	" × ?"		per yard super	15/-
			per yard run	1/4
			per yard run	2/10
	6" × 6	e glazed) a glazed) glazed, 6' × 6' × }'	b glazed) a glazed) glazed, 6" × 6" × 3"	per yard super per yard run per yard run glazed) per yard run glazed, per yard super per yard run per yard run

[325

326]

TECHNICAL SECTION

PLUMBER Lead

PLUMBER		Lead				
31 lb. and upwards milled al of 5 cwts. to 1 ton in she			antities	per	cwt.	108/9
Lead ternary alloy, No. 2 aheet lead or lead pipe .	2 qua	lity ext	ra over		cwt.	14/6
Allowance for old lead deliv			chant or	• •		
manufacturer				per	cwt.	78/3
	0.000		Perce	ntage A List N		A.B.
Rainwater Goods (painted of Soil goods (coated or uncoa	ted)		* *	Phy	a 65% a 65%	
The following prices for cent. addition, and Gutters	Pipes	and 1		are sul		
24 gauge rainwater slip jointed pipes.		2"	2]"	3″	31*	4"
Galvanized round pipes ears per	8' 0"	2/71	3/11	3/9 -	4/3	4/9
Painted round pipes with e	ars 6' 0"	2/41	2/9	3/11	3/71	4/-
Painted or galvanized a lengths with ears, extra 18 Gauge gutters.		-/6 31″	-/6 4"	-/6 41"	-/6 5″	-/6 6″
Galvanized half round	2/-	2/3	2/41	2/9	3/-	3/71
Painted half round gut- ters per 6' 0"	1/6	1/9	2/-	2/3	2/6	3/-
Painted or galvanized short lengths extra each	-/3	-/3	-/3	-/3	-/3	-/3
Asbestos-Cer The following prices are					de disc	ount and
21% cash discount. Orders over £30 are subj cash discount.						
Rainwater Pipes.						
Prices are for 6' 0" len 21", 3" and 4" diameters a charged as 1 yard. From 3 to 6' 0" charged as 2 yards Round pipes	2' 0" t 8. O1	e prices to 4' 0" ver 6' 0"	charged	t length as 11 y l as 10'	s up to ards. F 0".	2' 0" are rom 4' 0"
2"		• • •		per ya		2/31 2/63
$3^{*} \cdots \cdots$		• •		per ya per ya	rd run	3/1 4/21 7/12
6" Gutters.	۰	• • •	ø 0	per ya	rd run	8/101
Short lengths of gutter	up t	0 2' 0"	charged	as 1 y	ard; f	rom 2' 0"
to 4' 0" as 11 yards, and (Half round gutters	2."	4"	41"	5"	6″	8"
per yard run Ogee gutters per yard run	1/71	$\frac{1}{11}$ $\frac{2}{4\frac{1}{2}}$	$\frac{2}{-1}$ $\frac{2}{64}$	2/4 <u>1</u> 3/1	3/34 3/9	4/1 4/101
INTERNAL PLUM	MBE	R				
Lead pipe in coils, 5 cwts Lead soil pipe Add if ribbon marked				per	cwt. cwt. cwt.	110/- 113/- -/3
Lead ternary alloy, No. 2		ity extra	amon la	ad mine		
Plumber's solder	•	•• •		per per	cwt. cwt.	14/6 267/6 320/-
Drawn lead traps with br	ABS BC	rew eye	, 6 Ib. 1"	14"	14"	2"
Tinman's solder Drawn lead traps with br S. trap P. trap Extra for 3" deep seal "S Extra for 3" deep seal "S	 3'' tri	each each ap each	4/3 3/9 1/1	5/-4/1 1/3	6/-5/2 1/5	8/11 7/2 1/9
Extra for 3" deep seal " I Screwed and Socketed	steet :	L'uoes a	ng ruum	-/10 gs for G	-/1 las, Wa	1 1/3 iter and
Tubes.		Steam,	elc.			
Tubes 2 ft. long and over	1"	1" -/61	1" -/91	1/1	14	2" 1 1/10
per ft. Pieces 12" to 231" long each Bends each						
Wittingen						
Elbows, square each Elbows, round each Tees each Crosses	$1/1 \\ 1/2$	1/3	1/6	2/2 2/4	2/7 2/1	4/3
Tees each Crosses each	1/3 2/9	1/7 3/3	1/10	2/6	3/1	5/1 10/6
Sockets, plain each Sockets, diminished	-/4	-/5	-/6	-/8		
Flanges each		$-/7 \\ 1/2$	-/9 1/4	1/- 1/9	1/2/-	4 2/- - 2/9

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INTERNAL PLUMBER _ (continued)

INTERNAL PLUMBER (continued)	
Screwed and Socketed Steel Tubes and Fittings for	Gas, Water and
3160m, etc. — (continued) 1" 3" 1" 14	" 11" 2"
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- 1/3 2/-
Plugs each -/4 -/5 -/6 -/ Fittings and flanges and tubes ordered in long	8 -/10 1/3
subject to the following trade discounts :	random longitis are
Tubes : 1" to 3" Class A	
,, B 441% Lightwei	
Class A 504% Fittings : ,, B 444% Lightwei ,, C 36% Heavyw Galvanized Class A 32% Flanges : Lightwei ,, B 644% Lightwei ,, C 36% Heavyw , B 264% Lightwei Lightwei , B 264% Heavyw Lightwei	eight 191%
Galvanized Class A 32% Flanges : ,, ,, B 264% Lightwei	ght 161%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	eight K
COPPERSMITH AND ZINC WOR	KER
Hot rolled conner sheeting in 5 owt	
lots $(4' \times 2' \text{ sheets})$ 16 wire gas	uge per lb. 1/9
Copper wire, 10, 12 and 14 gauge (over 2 cwt.)	per lb. 1/10
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	per lb. 2/-
GLAZIER	
Sheet Glass, cut to size (ordinary glazing	
For quantities exceeding 500 ft. su 24 oz	r foot super 51d
26 oz pe	r foot super 6id.
For quantities exceeding 500 ft. su 24 oz	r toot super 8kd.
Glazing	Selected Silvering
In plates not exceeding : quality	glazing quality
3 ft. super	3/2 3/10
5 ft. super per foot super 3/-	3/8 4/5
*100 ft. super per foot super 3/8	4/- 5/6 5/7 7/2
* Extra sizes, i.e., plates exceeding 100 ft. super	or 160 inches long, a
100 inches wide, at higher prices.	71d per foot mer
tinted	10 d. per foot super
" rolled plate	6gd. per foot super
a or 1 rough cast	74d. per foot super
Prismatic	1/21d. per foot super
f wired cast	94d. per foot super 101d. per foot super
f" polished wired	3/6d. per foot super
100 inches wide, at higher prices. 4" figured rolled and cathedral—untinted 1" rolled plate 1" rolled plate 1" or 1" rolled plate 1" or 2" rough cast 1" wired arctic 1" wired startic 1" wired startic	1/8d. per foot sapa
P.B.2. 54" × 54" × 31" 2/6	each
P.B.3. $7_4^{*'} \times 7_4^{*'} \times 3_4^{*''} = 3/6$ P.B.32. $7_4^{*''} \times 7_2^{*''} \times 3_4^{*''} = 3/6$ Badiussed corper bricks to match up with	each
	catt
P.B.2	each
P.B.3 or 32 6/- PAINTER	each
Snowcom naint (in free air tight motel	
containers)	per cwt. 56/-
White ceiling distemper	per cwt. 29/-
containers) White ceiling distemper Washable distemper Ready mixed white lead paint (best), semi-	per owt. from ozr
	per gallon 42/-
Aluminium paint (best quality)	per gallon 33/- per gallon —
White enamel paint	per gallon 42/-
Stiff white lead (genuine English stack process.	
l ton lots, l cwt. kegs) Liquid driers best Terebene	per gallon 20/-
Linseed oil raw (5-galion drums)	per gallon 22/
" " boiled (5-gallon drums)	per gallon 22/8 per gallon 21/-
	per gallon 30/-
Oil stain (scumble)	per lb. 4/6 per cwt. 280/-
Indian Red in oil	per cwrt. 119/- to 190/
Burnt umber	per cwt.119/- to 200/
vermen (outside quanty) copar one	per cwt.132/6 to 137/ per gallon 32/-
" " general oak	per gallon 26/-
", ", ", ", ", ", ", ", ", ", ", ", ", "	per gallon 32/
enhetitute	per gallon 3/6
Creosote, 2-gallon lots	per gallon 2/-
Linseed Oil Putty Ferramastic (14 lb. kegs) Size in 1 S	per cwt. 60/9 per cwt. 74/-
Size in 1 S	per lb
	per lb
" in I S best quality	per lb. 2/*





GEAR

... and for any DOOR, PARTITION or WINDOW that S·L·I·D·E·S -

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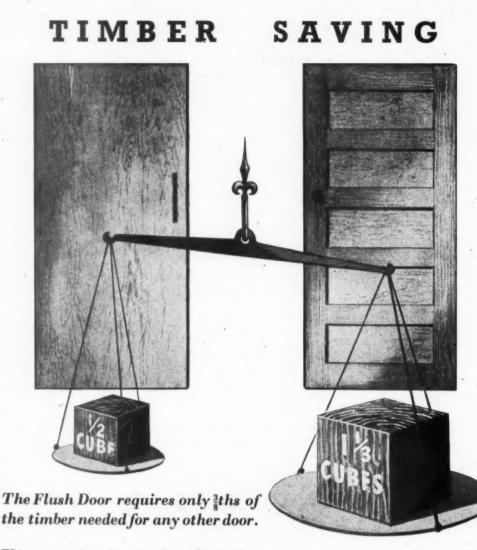
Schools, hospitals, factories, gatages, wherever sliding gear is required, our 25 years' experience, technical representatives and drawing office are freely available to desure the best solution to the problem. Examples allour gear may be seen in almost any city, town or village in the country. New Information Volume No. 67, with diagrams, photographs and complete specification cata, will shortly be available and will be reserved for you upon request.

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THE ARCHITECTS' JOURNAL for October 9, 1947



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THE ARCHITECTS' JOURNAL for October 9, 1947

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

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

IS CIASSIFICA MIAGET THE JOHOWING REGAINSS: 1 SOCIOLOGY. 2 PLANNING : General. 3 PLAN-NING : Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING : Public Utilities. 6 PLAN-NING : Social and Recreational. 7 PRACTICE. General. 10 DESIGN : Building Types. 11 MATER-IALS: Timber. 14 MATERIALS: Metal. 13 MATER-IALS: Timber. 14 MATERIALS: Concrete. 15 MAT-ERIALS : Miscellaneous. 17 CONSTRUCTION : General. 18 CONSTRUCTION : Theory. 19 CON-STRUCTION : Details. 20 CONSTRUCTION : General. 18 CONSTRUCTION : Theory. 19 CON-STRUCTION : DEtails. 20 CONSTRUCTION : Mis-cellaneous. 21 CONSTRUCTION : Mis-cellaneous. 21 CONSTRUCTION : Mis-cellaneous. 22 SOUND INSULATION. 24 LIGHTING. 21 HEATING. VENTILATION. 24 LIGHTING. 21 HEATING. 22 MISCELLANEOUS. 27 FURNITURES. 28 MISCELLANEOUS.

2.19 planning: general

SURVEY MAPS : NOTATION

Notation for Survey Maps: Circular 29. Ministry of Town and Country Planning. (HMSO, 1947, 2s.)

Suggested standard notation for surface utilization maps of built-up areas, together with colour chart produced by British Colour Council.

The circular has been issued for the guid-ance of Local Planning Authorities under-taking to prepare survey maps in connection with the Town and Country Planning Act, 1947, "It is suggested that such authorities the under or the head of the should prepare maps on the basis of the appendix to this circular instead of on the basis of Surface Utilization Map No. 6 of the Ministry of Town and Country Planning Notation for Basis Survey (Provisional) . . ."

Appendix I of the circular gives a list of colours to be used for indicating various types of surface utilization in built-up areas. under the headings of public buildings and places of assembly, residential, commercial, and industrial uses, open spaces, and miscel-laneous. Appendix II contains some very helpful notes on the use of the specified colours in actual drawing practice.

5.14 planning: public utilities **ROAD RESEARCH, USA**

Impressions of Roads and Road Research in North America. DSIR, Road Research Technical Paper No. 7. (HMSO, 1947, 1s. 6d.)

Important study of progress in applying science to road construction, maintenance, usage and safety in USA and Canada.

This report of a visit by British scientists from the Road Research Laboratory to North America in 1946 contains much use-Form America in 1946 contains much use-ful information on the following aspects of road research: (1) The organisation and scope of road research; (2) traffic studies; (3) road safety; (4) highway economics; (5) pavement design; (6) materials and methods of construction, and (7) the training of highway engineers.

Particular attention has been paid in the USA to studies of traffic movement and

operation. An essential part of this work consists in making origin and destination studies in order to determine the needs of studies in order to determine the needs of traffic in relation to both existing and pro-jected road systems. Examples of the use made of these studies in designing new road systems in towns and rural areas are quoted. The study of accident causes and prevention and comprehensive methods of reporting and analysing accidents have led to impor-tant conclusions regarding road layout, tant conclusions regarding road layout, police enforcement and public education. Investigations are devoted to the subject of both pedestrian and driver behaviour.

The economics of road construction, the design and testing of rigid and flexible pavements, the omission of expansion joints in many thousands of miles of concrete roads and experiments in connection therewith, the use of air-entraining cements, trends in earthwork manipulation and soil mechanics are among further aspects discussed in the report.

8.6 surveying and specification SPECIFICATION

Specification. Editor, F. R. S. Yorke. (The Architectural Press, 1947, 21s.-1947 edition out of print.)

The 1947 edition has been thoroughly revised and some easing of the restrictions in the use of paper has made the addition of further editorial pages possible. New sections on domestic heating appliances and glazed wall tiling have been added, and the sections Plumber, and parts of Drainlayer, Roads and Footpaths, Contractors' Equipment, Plasterer and Plastics have been rewritten.

15.13 materials : applied finishes, treatment PAINTS

Ready Mixed Oil Paints, B.S. 929:1947. (British Standards Institution, 2s. 6d.).

A revision of the earlier standard. emergency specification. Schedule of compositions of priming, undercoating and finishing paints. Quality of materials specified. Sampling and methods of test.

A departure from existing practice is permitted in this specification, namely, that the



Cement guns in use on damaged RC roof. See 20.39.

TECHNICAL SECTION [327

mixing of titanium dioxide and/or zinc oxide with white lead is permitted for paints for external use, and one or more of these pigments with lithopone for paints for internal use.

The Specification is issued pending the publication of the performance standards for paints, which are now under consideration.

20.39 construction : complete structures PRE-STRESSED RC SHELL DOME

Prestressed concrete shell dome features rebuilt Halifax reservoirs. R. M. Doull, J. D. Kilne. (Engineering News-Record [USA], August 7, 1947, pp. 187-191.)

Damaged reinforced concrete roof of reservoir replaced by prestressed shell of 161 ft. 3 in. inside diameter. Believed to be largest prestressed concrete shell dome in the world.

The reservoir of the city of Halifax, Nova The reservoir of the city of Halifax, Nova Scotia, built in 1913, became badly damaged by the effect of the weather. It was designed as a reinforced concrete structure, 160 ft. inside diameter, 25 ft. deep. The roof was built as a very flat cone with barely enough slope to provide for drainage. It consisted of a 4-in. slab carried on a series of radial girders and cross beams, supported by the wall and 53 concrete columns. wall and 53 concrete columns.

The reservoir was on an exposed site. Very little maintenance work was done on it after completion. An inspection in 1945 revealed that the roof was near the point of complete failure; portions had already fallen into the reservoir and the slab had pulled away from the wall in places. Most of the away from the wall in places. Most of the beams had failed completely in shear. Around the inside of the wall a band about 4 ft. wide, 15 ft. above the floor, was so badly eroded that the interior layer of re-inforcement was exposed. Construction joints were open at many places, 50 per cent. of the acternal surface above ground was of the external surface above ground was heavily spalled.

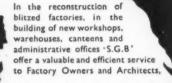
Reasons for the disintegration were fairly clear. Water had gradually seeped through the construction joints, and continuous freezing and thawing had set up local pressures that were sufficient to cause spalling.

It was decided to repair the wall by guniting and to substitute a new prestressed concrete dome for the old roof. Reconstruction fell into three distinct

phases. Demolition of the old roof, restoradome. All cracks and construction of the new dome. All cracks and construction joints in the wall were cut out to a depth sufficient to ensure a proper seal and bond. All loose material was removed and the surface thoroughly cleaned. Steel anchors were set in the concrete about 30-in. centres, and the entire area covered with welded steel wire mesh secured to the anchors. The mortar was applied to both the inner and outer face of the wall in two or more suc-cessive layers to build up the thickness required.

The new roof dome has an outside diameter of 164 ft. 3 in., with a shell 2½ in. thick and a radius of 171 ft. It is supported on a prestressed ring. The prestress is designed to induce sufficient compressive stresses to reverse the tensile stresses set up in the ring and shell under the maximum load. The new structure contains 300 cu. yd. of gunite and 27,000 lb. of steel, as against 590 cu. yd. of concrete and 60,000 lb. of steel in the old, including the columns. Prestress-ing was done with a high tensile wire of 0.162 ing was done with a night tensite wire of 0.162 in. diameter and an ultimate strength of approximately 100 t./sq. in. It was wound on the ring with a prestress of 140,000 lb./ sq. in., of which about 30,000 lb./sq. in. may be lost owing to shrinkage and creep. Two cement guns were used in guniting the shell. The work was carried out as a con-

shell. The work was carried out as a continuous operation, using two 12-hour shifts, in 51 days.



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20.4 HOT Ten-

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24.4 I.E.S 1946 neeri

THE ARCHITECTS' JOURNAL for October 9, 1947

20.40 construction: complete structures HOTEL

Ten-Storey Terrace Plaza Hotel Set Atop Stores Seven Storeys High. (Engineering News-Record [USA], August 7, 1947, pp.

Further structural details of the 18-storey building in Cincinnati, referred to in 10.8 and 19 26

23.41 heating and ventilation FLOOR RADIATION

Floor-Heating System. (Electrical Review, September 12, 1947, p. 405.)

A low temperature floor radiant heat system for large buildings consists of insulated cable laid beneath a terrazzo or cement floor finish. Suitable for new structures, but has been adapted for use in old ones. A temperature of 60° F. at a height of 4 ft. was maintained to within ± 1° F. for a period of 24 hours during testing when the external temperature was 43.5° F.

24.46 lighting LIGHT FITTINGS (PORTABLE)

A Review and Preview of Certified Portable Lamps. By M. Fahsbender. (Lighting and Lamps [USA], June, 1947, p. 119.)

Background of American standardization performance requirements; list of standard types. Good, useful note, illustrations two photographs plus diagrams.

Originally the idea of standardizing lamp fittings in the USA arose from the need for good students' lights. The American I.E.S. prepared a specification in 1934 from which standard study lamps were made. A similar British Standard study lamp was available before the war.

Lately the American I.E.S. has prepared recommendations for general use in the de-sign of portable light fittings (see 24.14 and 24.38) to ensure a high level of perform-ance, and this note reports that a group of manufacturers have now organized as ance, and this note reports that a group of manufacturers have now organized as "Certified Lamp Makers" to market fittings to the new standards. Generally the specifications cover service

requirements, intensity of light provided, and the brightness ratios on and about the fitting. The C.L.M. reflector is described as a mold-blown glass unit with a metal top fitted into it, sending 60 per cent. of the light downward and 40 per cent. up. The average bowl brightness is 5 candles per sq. in. Most interesting is the fact that these lamps are designed to use two-filament bulbs, switched so as to provide either 100 watts, switched so as to provide either 100 watts or 300. Arrangements are made to add circular fluorescent fittings (35 watts). The minimum average intensity to the test plane from any lamp is to be 20 foot candles. The floor type standard now made provides 45 f.c., and the table lamps 35 f.c.

A list of types now available, with style illustrations, is given in the note.

In a recent information note it was observed that the American lamp manufacturers are going rapidly into the lead on performance, and that there was no evidence that the British manufacturers were doing any-thing to catch up. There is still no evidence. Perhaps the RIBA Architec-tural Science Board could do something. The manufacturers are said to be afraid that design will be cramped too much.

24.47 lighting I.E.S CONVENTION

1946 Convention of the Illuminating Engi-neering Society. (IES, July, 1947, price 10s.)

Vision; Black Light; Airport Lighting; Town Planning and Daylight; Fluorescent Lighting; being the collected papers of the Moderately interesting to Convention. architects. Illustrated extensively.

Architects will find the Convention pro-

Architects will find the Convention pro-ceedings quite interesting. Among a group of popular talks is one on black light, *i.e.*, invisible radiation such as ultra-violet, H. R. Ruff described its use with fluorescing paints and powders to pro-duce decorating techniques with enormous contrasts. Ordinary lighting only makes possible contrasts of the order of 100:1, but fluorescence can change this to 30.000:1. but fluorescence can change this to 30,000:1. The effect of this is enhanced brilliance and

Another valuable use is for invisible laundry marking.

In more serious vein, Professor Hartridge described recent advances in the physiology described recent advances in the physiology of vision, chiefly of interest to lighting specialists. They relate to X-ray measure-ments of eyes, micro-stimulation of the retina, visual acuity, and so on. L. J. Davies discussed the history of differ-ent forms of large inclusion the method.

ent forms of lamps, including the modern fluorescent types.

Huorescent types. Airport ground lighting was described by S. English. The chief points in the paper concerned landing floodlights, approach beacons, arrangements for leading aircraft in, forms of runway markers, contact lamps, and taxi-track fittings. The paper is com-prehensive, and will well repay study for architects concerned with airport work.

The most strictly architectural paper was on Daylight and Town Planning, by W. A. on Daylight and Town Planning, by W. A. Allen. This was a short, non-technical dis-cussion of the types of urban development being stimulated by the work on day-light-ing at the B.R.S. After a description of the underlying principles, reference was made to alternative plan forms and their comparative value for the purpose of daylighting. Some data are given on the effects of varying densities, heights and so on, and the general implications of the idea are discussed. Among these was noted the relatively high economic value of the open types of de-velopment along the lines described, and the improved standard of amenity in re-spect of quietness, sunlighting, etc. W. A.

spect of quietness, sunlighting, etc. W. J. Jones concluded the convention with a useful general review of fluorescent lighting.

25.38 water supply and sanitation

COPPER TUBES UNDERGROUND

BS/1386: 1947. (British Standards Institution, 2s.)

Description of manufacture, marking, and testing of tubes for direct earth contact.

This Standard deals with copper tubes laid below the ground and usually in direct contact with it. It draws attention to the need of protective measures against possible soil action. Tests as usual are tabulated and described. Tables of dimensions and weights are given, and the description of the marking of tubes which are according to this Standard.

27.4 furniture : fittings

SCHOOL CLOAKROOM EQUIPMENT

BS/MOE. 26-29:1947. Cloakroom Equipment for Schools. (British Standards Insti-tution, 7s. 6d.)

These Standards deal with all the cloakroom equipment required by schools. Each fitment is dealt with generally and specifically. The specifications cover the scope, types, dimensions, materials, quality, construction and finishes. Each specification is accompanied by a fully annotated and dimensioned drawing to explain fully the particular item dealt with.

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

TECHNICAL SECTION

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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.

QUESTIONS ANSWERS AND

2914 GLASS BRICKS IN PARTY WALLS

We had a case before the war when we 0 wished to use glass bricks in a 9-in. party wall dividing the entrance halls in a flat conversion job, and at the time the Local Authority gave an adverse decision. Before taking up the matter once again, we shall be glad to have your opinion as to whether the use of glass bricks would be permissible in a case of this nature.

It is doubtful whether a Local Author-A A ity would allow the use of glass bricks in a 9-in. party wall, as they are intended only for use as a material for filling in a panel, and not as a structural member. Glass bricks are classified as a fire-resisting

material under the British Standard Defini tions No. 476 with a fire resistance period of one hour (Grade D), but a party wall must have a fire resistance period of not less than two hours, to ensure full protection in all cases, even for occupancies of low fire load.

F329

Announcements

Mr. T. S. Tait, F.R.I.B.A., and his son, Mr. Gordon Tait, A.R.I.B.A., announ following the retirement of Mr. announce that Francis Lorne, F.R.I.B.A., they are continuing the practice of Sir John Burnet, Tait and Lorne in both London and Edinburgh, under the title of Sir John Burnet, Tait and Partners. The new address of Mr. Brian H. Harms-

Worth, A.R.LB.A., DIP.ARCH., A.R.C.M., is Aclea, Worthing Road, Horsham, Sussex. Mr. J. H. Warwick, Sales Director of Tube

Products Ltd. (a member of the Tube Investments Group) is shortly to visit Brazil. He will make a survey of future prospects on behalf of the steel tube division of Tube Investments Ltd. and will deal with matters affecting associate companies in the cycle, electrical, light alloy and general divisions of Tube Investments Ltd.

Mr. Edward Thompson, Managing Director of the John Thompson Group of Companies, has returned from a visit to Australian and South African subsidiary companies. Whilst in Australia he was instrumental in concluding the contract for the new Yallourn Power Station, which has Australia of over £2,047,000. has a value in

Mr. R. F. Gyngell, who has been Assistant Secretary of Messrs, W. T. Henley's Tele-graph Works Co. Ltd. for a number of years, has been appointed the Secretary of the company.

In view of the recent announcement by the Government regarding large public dinners, the Quantity Surveyors' Committee of the Royal Institution of Chartered Surveyors announces that the Chartered Quantity Surveyors' Annual Dinner, which was to have taken place on November 26, 1947, will not now be held. The occasion was to have marked the revival of a popular pre-war function

Mr. S. A. C. Cook, A.R.I.B.A., has relin-quished his post as Assistant Architect to the Bourneville Village Trust to take up an appointment as Borough Architect to Holborn Borough Council.

St. Pancras Borough Council have formed a separate architectural department and have appointed Mr. Thomas Sibthorp, have LR.LB.A., P.A.S.I., A.M.T.P.I., as Chief Archi-tect. He will be pleased to receive trade catalogues, especially those referring to

catalogues, especially those referring to municipal housing, libraries, baths, etc. Subject to the approval of the City Coun-cil, Mr. Sydney George Besant Roberts, DIP.ARCH., A.R.LB.A., at present a Branch Architect in the Lancashire County Council Architect's Department, has been appointed Deputy City Architect of Manchester at a basic salary of £1.200-£1,400 plus bonus. Mr. Harry C. Speakman, A.R.LB.A., A.M.T.P.L, has been appointed Senior Archi-tect on the staff of the States Engineer, Guernsey, and would be pleased to receive irade catalogues. He was formerly on the staff of the Miners' Welfare Commission.

staff of the Miners' Welfare Commission.

Mr. P. F. Burridge, F.R.LB.A., Borough Architect to Stockton-on-Tees, has been appointed City Housing Architect to the City of Lincoln. He will be pleased to receive trade catalogues addressed to the City Housing Architect, Stamp End, Lincoln.

Notes on the timbers of Venezuela have been prepared by the Timber Development Association. These are published in their Timber Information Leaflet No. 32. The finder information Leanet No. 32. The following timbers are described:—que-bracho, balsamo, vera-guayacan, totumito, pardillo, hueso de pescado, ceiba, jobo, roble gate ado, zapatero, cedro, mamon, drago, zapote, yaya, lechero, pata de danta, casabe, yomo de huevo, ebano, caoba. Copies of this new leaflet can be obtained on application to the Timber Development application to the Timber Development Association, 75, Cannon Street, London, Mr. H. A. Patton, A.R.I.B.A., has been appointed Architect and Town Planning Otticer, Enniskillen, and has opened an office in the Town Hall, Enniskillen, Co. Fermanagh. He will be pleased to receive trade publications.

Messrs, Charles R. Price, Building and Engineering Contractors, of Stoke Newing-ton, N.16, have moved into new premises at Kingsbury Road, London, N.W.9, telephone number Colindale 4611. The Joinery Works and Mill will be transferred to the same address within the next few weeks. They have recently started up a Research and Technical Information Department, and would be glad to receive trade catalogues and technical publications. The address of their City Office remains unchanged at 252,

their City Office remains unchanged at 252, Bishopsgate, E.C.2. The Board of Trade Timber Control announces that in the Plywood Department Headquarters, Sir Leonard Paton has been appointed Deputy Controller, Mr. H. G. C. Townsend has been appointed Senior Assistant Controller, and Mr. S. C. Ras-musen has been appointed Assistant Con-troller troller.

The L.C.C. Hammersmith School of Building and Arts and Crafts has commenced its autumn term. Provision has been made to cope with the training of the many new entrants into the Building Industry. Among the staff concerned are:—Principal, H. W. Mole, F.R.I.B.A., M.I.STRUCT.E.; Head of Junior Building School, C. Boot, B.Sc.; Head of Senior Day and Evening Building School, F. G. Goodin, A.R.I.B.A.; Architecture: G. W. Bowes, P. McNeil, A.R.I.B.A., M. F. H. Roe, A.R.I.B.A., W. Walker, A.R.I.B.A., A.A.DIP., Miss M. J. Wall, A.R.I.B.A., A.A.DIP., A. B. Waters, M. B. Wall, A.R.I.B.A., A.A.DIP., A. B. Waters, M.B.E., G.M., F.R.I.B.A.

Mr. Brian O'Rorke, A.R.A., F.R.I.B.A., char-tered architect, has moved to 12, Cliveden Place, Sloane Square, London, S.W.1. Telephone: Sloane 0556,



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At Kensington Close every flat is wired for Rediffusion—the perfect listening service

THE ARCHITECTS' JOURNAL for October 9, 1947



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Redland Concrete roofing tiles are now a permanent feature in the building trade and have been used by over 120 local authorities. They are available in five standard colours, Brown, Light Red, Dark Red, Red Mottled and Cotswold Stone. There are two types, Plain $10\frac{1}{2}$ in. by $6\frac{1}{2}$ in. and Interlocking 15in. by 9in.

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Runfold Sand & Tile Company Limited, Runfold, Near Farnham, Surrey.

Moorhouse Brick Tile & Concrete Products Limited, Moorhouse, Near Westerham, Kent.

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Hensall Roofing Tile Company, Limited, Hensall, Yorks.

Redhill Tile Co. (Northern Ireland) Ltd., Belfast, Northern Ireland.

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THE ARCHITECTS' JOURNAL for October 9, 1947

COMPLETE Insulation and Waterproofing

by using "ACE" reinforced felt with "SLAGBESTOS" mineral wool.

In these days of fuel shortage it is more than ever necessary to conserve as much heat as possible. The ideal method for houses is to underlay the tiles with "ACE" Reinforced Felt and to spread loose SLAGBESTOS between the celling joists. This will give you perfect roof insulation and a warm dry house.

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Illustration shows loose SLAGBESTOS between ceiling joists, and inset in blanket form. Full particulars, samples and prices of SLAGBESTOS and "ACE" will be sent to

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President, 1946/47

H. H. Murray, P.F.A.S., F.F.S.(Eng.)

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Incorporated as a professional Centre to uphold and improve the status of Surveyors and QuantitySurveyors engaged in the Building and Allied Trades. To regulate, maintain and extend the customs and usages of the profession. To maintain and improve the high standard of professional etiquette, and to promote among its members a sense of professional solidarity. To provide for its members principles of professional procedure, a Scale of Professional Charges, and to subscribe to the Rules of Professional Conduct. To hold examinations qualifying for membership of the Faculty. To publish a monthly Journal to the general interest of the profession, and for the mutual co-operation, assistance and protection of practitioners

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Further particulars and application forms may be obtained on application to THE SECRETARY, (d).

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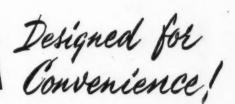
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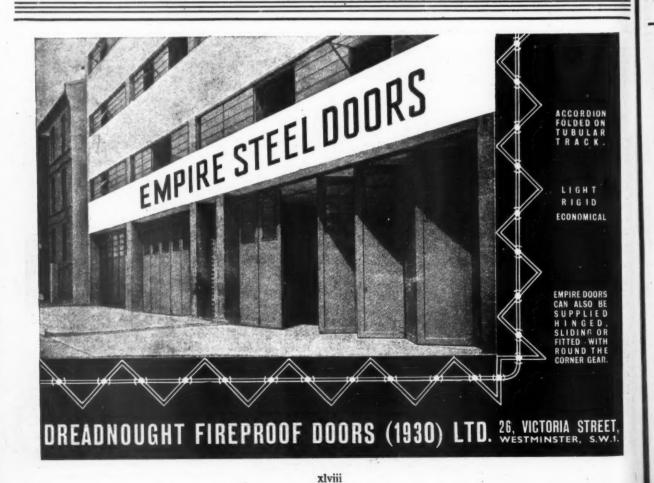
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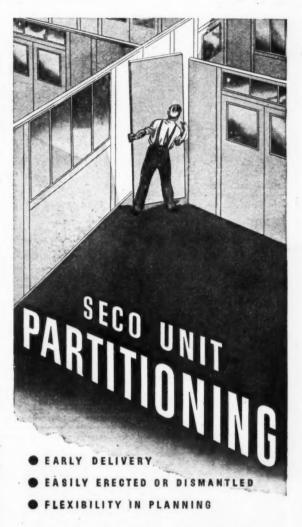
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CLASSIFIED ADVERTISEMENTS

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

aper. Replies to Box Numbers should be addressed are of "The Architects' Journal," at the address

care of "The Architects' Journal," at the address given above. None of the vacancies in these columns relates to a man between the age of 18 and 50, inclusive, or a woman between the age of 18 and 40, inclusive, unless he or she is excepted from the provisions of the Control of Engagement Order, 1947, or the vacancy is for employment excepted from the provisions of that Order.

Public and Official Announcements

6 lines or under, 10s.; each additional line, 1s. 6d. THE INCORFORATED ASSOCIATION OF ABCHITECTS AND SURVIVELES maintains a register of qualified architects and surveyors (Including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Applexes: 75, Earon PLACE, LONDON, S.W.1. THL SLOAMS 5615. 991

LONDON COUNTY COUNCIL. COUNTY OF LONDON PLAN-VACANCIES FOR PLANNING STAFF. Applications are invited for positions in the following grades :-PLANNING OFFICEE, Grade III, up to £700

FLANNING OFFICES, GRAD AND A Year. TECHNICAL ASSISTANT, up to £580 a year. Commencing rate according to qualifications and experience. Opportunities for competing for permanent appointment and promotion. Successful candidates will be superannuable. The planning work involved includes assistance in the detailed development of Reconstruction Area schemes and the preparation of revised would plana.

soning plans. In programmer of revised A knowledge of current town planning legisla-tion is desirable in all cases, and candidates for-Grade III positions should possess architectural, surveying or town planning qualifications. Application forms obtainable from Architect to the Council, County Hall, 8.E.I. (enclose stamped addressed envelope), returnable not later than 10 days from this date. Canvassing disqualifies. (1680) §35

WORCESTERSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. Applications are invited for the following appointments on the permanent staff of the County Council:-(a) THREE SENIOR PLANNING ASSIS-TANTS, A.P.T., Grade VI. Salary £355.£600. (b) ONE PLANNING ASSISTANT. A.P.T., Grade IV. Salary £420.2465. (c) TWO JUNIOR PLANNING ASSISTANTS. A.P.T., Grade IV. Salary £350.2575. (d) TWO DRAUGHTSMEN, at a salary be-tween £250.£330, according to experience and qualifications. In addition to the above salaries a cost-of-living bonas is at present being paid by the County Council, at the rate of £59 16s, per annum. Each appointment is subject to :-(1) The provisions of the Local Government Superannuation Act, 1937. (2) The National Scheme of Conditions of Service for Local Government Officers. (3) The passing of a medical examination. (4) two months' notice in writing on either ide. Applicants for appointment (a) must have had

(3) The passing of a medical examination.
 (4) Two months' notice in writing on either side.
 Applicants for appointment (a) must have had considerable experience in the survey and planning of urban or varal areas, and ahould be Members of Associate Members of the Town Planning Institute. Additional qualifications in Architecture, Engineering or Surveying will be considered an advantage.
 Applicants for appointment (b) should have had experience in the sonduct of Basic Surveys for planning purposes, and the control of new developments. Preference will be given to candidate with suitable prefessional qualifications.
 Applicants for appointments (c) and (d) should be next and experience, and the control of new developments. Preference will be given to candidates with suitable prefessional qualifications.
 Applicants for appointments (c) and (d) should be next and expeditions draughtamen, with some tangent and experiment (d) applications of norms to be obtained from the undersigned, must be accompanied by the names of not more than three persons to whom reference as to character and ability can be made, and must be delivered in scaled envelopes endorsed with the title of the appointment, not later than Wednesday, 15th October, 1947, to W. R. SCUERFIELD.

OUANTITY SURVEYORS and ASSISTANT QUANTITY SURVEYORS are preperty required by several Government Departments for tem-porary posts, at salaries ranging from £300.2800 p.a., according to qualifications and experience. Vacancies exist throughout the United Kingdom and occasionally overseas. Applications for these vacancies should be made to Ministry of Labour and National Service (Dept. M). Technical and Scientific Register, Room 377, Vork House, Kings-way, London, W.C.2, quoting ref. J/Q.8. 876

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candidates may be asked to submit specimens or work. The salary payable will be in accordance with the Burnham Technical Report, 1945. Application forms, which may be obtained from the under-signed, should be returned within fourteen days of the appearance of this advertisement. ANDREW SCOTLAND, Director of Education. Education Offices, Cobourg Street, Plymouth. 873

CITY OF LINCOLN. APPOINTMENT OF CHIEF ARCHITRCTURAL ASSISTANT. Applications are invited for the above appoint-ment, at a salary in accordance with Grade VI of the National Charter Scale or Salaries, viz., £535-6600 per annum, plus cost-of-living bonus. A motor car allowance will be paid in accord-ance with the Council's scale. Candidates should be members of the R.I.B.A. or have other approved qualifications, and should have had Municipal experience, especially with schools.

Candidates approved quantum especially with have had Municipal experience, especially with schools. Forms of application and particulars of the appointment can be obtained from A. Adlington, A.M.I.C.E., City Engineer and Surveyor, Silver Street Lincoln. Applications must be received by the under-signed on or before Wednesday, 15th October, 1947. J. H. SMITH, Town Clerk.

Corporation Offices. Lin 29th September, 1947.

associated subjects. LECTURERS on Building Construction and Materials. The remuneration attached to the above appointments will be in accordance with the Barnham Scale, the commencing salary being determined according to the training, pro-fessional experience, and war service in individual cases. Applicants are expected to have the pro-fessional experience, and war service in individual cases. Applicants are expected to have the pro-fessional qualification appropriate to the appointment, and some experience in lecturing will be considered an advantage. Members of the full-time staff are permitted to engage in private usually adjusted so as to allow a reasonable amount of free time. Torms of application, together with full par-ticulars, will be forwarded on receipt of a stamped, addressed foolscap envelope (state appointment for which application is made). R. H. CURERELL Citerk.

880

NEW ZEALAND. PUBLIC WORKS DEPARTMENT. Applications are invited for the following

sinp by examination of the K.I.B.A. Of equivalent qualification most desirable. Salarics up to Em [N.Z.) per annum, with oppertunities for promotion. MECHANICAL DRAUGHTSMEN. Application to be capable of acting as Leading Draughtame and of handling junior staff. Commencing salary, £485 (N.Z.) p.A. to £510 (N.Z.) p.A., according to qualifications, knowledge and experience, with opportunities for further promotion. For all the above appointments an undertaking for at least three years' service must be given. Allowances will be made for farces and expense. Owing to the housing situation preference will be given to single men. Further particulars can be obtained from the High Commissioner for New Zealand, 415. Strand, London, W.C.2, with whom applications (in duplicate) close on the 7th November, 1947.

CHESTER-LE-STREET RURAL DISTRICT CHESTER-LE-STREET RURAL DISTRICT SENIOR ARCHITECTURAL ASSISTANT. Applications are invited for the permanent appointment of a Senior Architectural Assistant, on the staff of the Council's Post-War Housing Architect. Applicants should have had some previous er-perience in the preparation of layout planas and house type plans for housing schemes, and memborship of the Royal Institute of British Architects will be an advantage. The appointment will be subject to the pro-visions of the Local Government Superannasian Act, 1937, and the National Joint Council Scheme of Conditions of Service for Local Government

Officers.

Officers. Salary will be in accordance with the A.P.T. Division, Grade IV, £420.£465 per anoun. Current cost-of-living bonus of £59 168. per anoun will be paid in addition. The Council cannot undertake to provide housing accommodation for the successful candi-date. Division

date

date. Applications must be made on the prescribed form of application, which can be obtained from the undersigned, and must be delivered to the under-mentioned not later than 12 noon, Saturday. 25th October, 1947. Elerk to the Council. Linion Offices Chesterle Street

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ments:-(a) PLA1 ing the Planning ence in t Salary, £4 (b) UNQ (b) UNQ good drau Architect's -£.370. £20-£ Both

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County Buildings, Cupar. 23rd September, 1947.

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COUNTY OF LINCOLN-PARTS OF LINDSEY. COUNTY ARCHITECTS DEPARTMENT. Applications are invited for the appointment of SKNOR QUANTITY SURVEYOR, A.P.T., Grade VIVII, salary £353-£560, plus bonus. The cost-ciliving bonus amounts to £59 16s. per annum. Preference will be given to members of the

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 YI-YI, survy 2535-2505, puts bottles. The Cost-ciliving bounds amounts to £59 165, per annum. Preference will be given to members of the EI.C.8.
 The appointment will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Super-annuation Act, 1937.
 The successful applicant will be required to pass a medical examination.
 Applications, stating age, qualifications and cx-perience, together with not more than two testi-monials or names for reference, should be sent to the County Architect, County Offices, Lincoln.
 ERIC W. SCORER, Clerk of the County Council.
 County Offices, Lincoln. the rand, (in 874

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design of educational buildings, preparation of working drawings, specifications, etc.
 (b) TWO ASSISTANT ARCHITECTS. Salary Grade III, commencing at £390 per annum and rising to £455 per annum. Applicants should have passed the Intermediate examination of the Royal Institute of British Architects, and have had good experience of general architectural work.
 (c) ONE ARCHITECTURAL ASSISTANT. Salary Grade I, commencing at £30 per annum, and rising to £375 per annum. Applicants should have passed the Preliminary examination of the Royal Institute of British Architects, and have had good architectural training.
 (c) ONE ARCHITECTURAL ASSISTANT. Salary Grade I, commencing at £30 per annum, and rising to £375 per annum. Applicants should have passed the Preliminary examination of the Royal Institute of British Architects, and have had a good architectural training.
 Cost-of-living bonus, at present £59 16s. per annum, is payable in addition to the salary scales quoted above.
 The appointments will be subject to the provisions of the Local Government Superannation Act, 1937, and to the successful candidates passing a medical examination. The appointments are also subject to one month's notice on either side.

are also subject to one month's notice on either side. Applications in plain envelopes, appropriately endorsed, stating age, training, qualifications, experience, and past and present appointments, accompanied by copies of three recent testi-monials, should be delivered to the undersigned not later than Monday, 27th October, 1947. WILLIAM JONES, Clerk of the County Council. Shire Hall. Llangefini, Anglesey. Bird Committees, APPOINTMENT OF ASSISTANT ACCHITECTS. Applications are invited for the following appointments on the established staff of the Architect's Section of the Education Offices:-(a) TWO ASSISTANT ARCHITECTS. Grade V, 2460-2510.

(c) TWO ASSISTANT ARCHITECT. Grade I (b) ONE ASSISTANT ARCHITECT. Grade I (c) ONE ASSISTANT ARCHITECT. Grade I (c) ONE JUNIOR ASSISTANT. Misc. Div., (c) ONE JUNIOR ASSISTANT. Misc. Div., v

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(c) ONE JUNIOR ASSISTANT. Misc. Div., 4255-6230. A cost-of-living bonus, at present £60 per anum, will be payable in addition to the basic salary in each case, and the appointments will be subject to the provisions of the Local Govern-ment Superannuation Act, 1937. The selected candidates will work under the immediate direction of the Archivect to the Education Committee. Mr. T. Noel Mitchell, B.Arch.(Liverpool), A.B.I.B.A. Applicants for appointments (a) must have had experience in the design and construction of modern buildings, including schools, and should have reached the standard of the Final

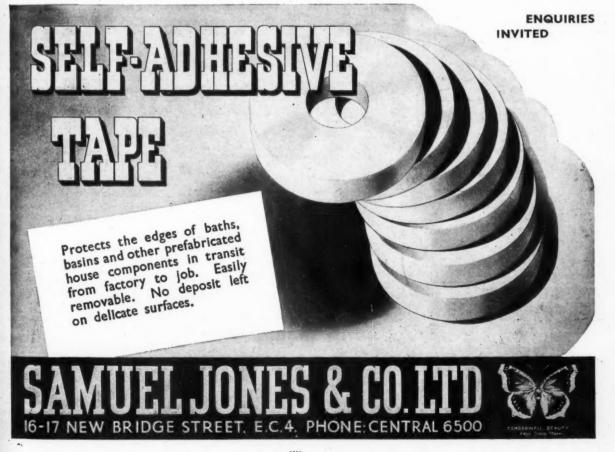
Examination of the R.I.B.A. A University degree or diploma in Architecture, and ability to carry out perspective drawing would be an advantage. Applicants for appointment (b) must have had a good general experience, and should have reached the standard of the Intermediate Ex-amination of the R.I.B.A. Applicants for appointment (c) must be good draughtsmen, with a general experience. Applications, stating appointment applied for, giving age, education, professional training and present appointment and salary, and service in the Forces (if any), together with copies of two fueres the appointment and salary, should be belivered to the Director of Education, Education Offices, Woodlands Road, Middlesbrough, not autor than the first post on Tuesday, 28th October, 1947.

qualify.

E. C. PARR, Town Clerk.

E. C. PARR, Town Clerk's Office, Middlesbrough. 29th September, 1947. 370 OXFORDSHIRE COUNTY COUNCIL. APPOINTMENT OF ASSISTANT ARCHITECT. Applications are invited for the above per-manent appointment, on Grade VI of the A.P.T. Division of the National Joint Council's scales, at a salary of £55 for annum. Applicants must be Associates of the R.I.B.A., and have experience in Local Government service and a thorough knowledge of architectural design and the preparation of working drawings and specifications is essential. The successful candidate will be required to point accordance with the Council's scale. The appointment will be subject to the National Scheme of Conditions of Service and the provisions of the Local Government Superannuation Act, 1937, and to the successful applicant satisfactorily passing a medical examination. The appointment will be terminable by one month's notice on either side. Applications, endorsed "Assistant Architect,"

will be terminate by one answer of the Assistant Architect," Applications, endorsed "Assistant Architect," stating age and qualifications, together with copies of three recent testimonials, should reach the County Architect, J, Becket Street, Oxford, not later than 20th October, 1947. F. G. SCOTT, Clerk of the Council. 878



COUNTY OF LINCOLN-PARTS OF LINDSEY. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following appointments, on the permanent staff, in accord-ance with the National Scheme:-(a) SECTIONAL ASSISTANT ARCHITECT. A.P.T., Grades V-VI, salary £460_£600, plus bonus. (b) ARCHITECTURAL ASSISTANTS. A.P.T., Grade 111, salary £300_£435, plus bonus. The cost-of-living bonus amounts to £59 16s. per annum.

Grade III, salary £390-£435, prins nonae. The cost-of-living bonus amounts to £59 16s, per annum. Preference will be given to applicants who have passed the Final Examination of the R.I.B.A. in the case of (a), and the Intermediate Examina-tion of the R.I.B.A. in the case of (b), or who are Registered Architects. The applicant under (a) will also be expected to run a car, for which be made. The duties will embrace technical work in con-nection with all the County Council's acale will be made. The duties will embrace technical work in con-nection with all the County Council's major build-interests and scope. The appointments will be terminable by one month's notice on either side, and will be subject annuation Act, 1937. The successful applicants will be required to pass a medical examination. Applications, stating age, qualifications and ex-preince, together with not more than two testi-mobils or names for reference, should be sent to the County Architect, County Offices, Lincoln. not later than fourteen days after the date of the advertisement. EIRC W. SCOREE. *Clerk of the County Council.* 2000 W AGENTS FOR THE COLONIES.

(b) ASSISTANT ARCHITECT. Grade V, £460-£510.
(c) ASSISTANT QUANTITY SURVEYOR.
(d) ASSISTANT ARCHITECT. Grade IV, £420-£450.
(d) ASSISTANT ARCHITECT. Grade IV, Plus cost-of-living bonus of £59 198. 3d. in each

EA202.2495.
 Plus cost-of-living bonus of £59 19s. 3d. in each anse.
 Candidates for (a), (b) and (d) should have had previous experience on Housing or Education work, and preference will be given to applicants who are members of the Royal Institute of Eritish Architects.
 Candidates for (c) should be experienced in the preparation of Bills of Quantities, the checking of interim valuations, and the settling up of final accounts. Preference will be given to Fellows or Professional Associates of the Royal Institution of Chartered Surveyors (Quantifies Division).
 Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, and endorsed "Assistant Architect" or "Assistant Quantify Surveyor" should be delivered to E. A. Tornbohm, A.R.I.B.A., A.M.T.P.I., Borough Architect, Central Buildings, Darlington, not later than Monday, the 20th October. 1947.

LONDON COUNTY COUNCIL. VACANCIES FOR ARCHITECTURAL STAFF IN THE ARCHITECT'S DEPARTMENT. Applications are invited for a number of posi-tions in the following grades :-

year. ARCHITECT, Grade III, *£550-£25-£700 a

year. ARCHITECT, Grade III. *£550-£25-£700 a year. TECHNICAL ASSISTANT (Section A). *£440-220-£590 a year. TECHNICAL ASSISTANT (Section B), *up to 157a. 6d. a week (max.). "Commencing rates will be according to quali-fications and experience. Candidates for Grade II and III positions should possess appropriate professional qualifica-tions, and are required for work in connection with the design and erection of school buildings. A number of Technical Assistants of good archi-tectural training also required both for new works and for alterations. Successful candidates are remured to contribute Fund, and will be eligible for permanent appoint-ment and for advancement to higher positions, according to merit. Application forms may be obtained from the Architect to the Council, County Hall, West-minster Bridge, Londow, E.E., enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (3069) 11

Road W November.

ovember. G. A. WHEATLEY. Clerk of the County Council. he Castle, Winchester. October, 1947.

EAST SUSSEX COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for appointment of an ASSISTANT ARCHITECT, on the permanent staff, within Grade V (according to qualifica-tiona) of the A.P.T. Division of the National Joint Connells Scales (2466-2510 per annum). A cost-of-living bonus (at present 259 16s.) is payable in addition to the salary. Applicants should be fully qualified and have a sound experience in the design of all types of buildings carried out by a Local Authority. The appointment will be subject to one month's notice on either side, and to the pro-visions of the Local Government Superannua-tion Act, 1937, and a candidate to be successful must pass a medical examination. The appoint-ment will also be subject to such conditions of service as may from time to time be approved on behalf of the County Council. Applications, stating age, qualifications and experience, accompanied by not more than three ceent testimonials, should be sent to the County Architect, County Hall, Lewes. not later than 17th October, 1947. Clerk of the County Council.

County Hall, Lewes. October, 1947. 803

CITY OF PETERBOROUGH. CITY ENGINEER AND SURVEYOR'S DEPT. Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, on the staff of the City Engineer and Surveyor, at a salary in accordance with Grade III, A.P.T., i.e., 2390, rising by annual increments to 2435 per annum, plus war bonns. Applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings under source and the second statement of the se

be capable of preparing working drawings under supervision. The Council have adopted the National The City Council have adopted the Appoint-ments are subject to the provisions of the Local Government Superannastion Act, 1937, and the successful applicants will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, and suitably endorsed, must be delivered to the undersigned not later than 14 days after first insertion.

Applicants must disclose whether they are re-lated to any Senior Official or Member of the Authority. ARTHUR J. REEVES, Town Clerk.

Town Hall, Peterborough. September, 1947. 844

Architectural Appointments Vacant

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

A RCHITECTURAL ASSISTANT required im-mediately: must be good draughtsman. capable of preparing full working and detailed drawings. Write, stating experience, age, and salary required, G. Alan Burnett. A.R.I.B.A. 76, Albion Street, Leeds, 1.

REQUIRED, by London office. First-class ARCHITECTURAL ASSISTANT: recent schools experience necessary. Details of experi-ence and salary required to Box \$48.

THE CHLORIDE ELECTRICAL STORAGE CO. require an ARCHITECTURI DRAUGHTSMAN; aged 20/30 years; preferant with experience in industrial building. Applications, with salary required, should be send to the Personnel Manager, Exide Works, Clima Junction, near Manchestor

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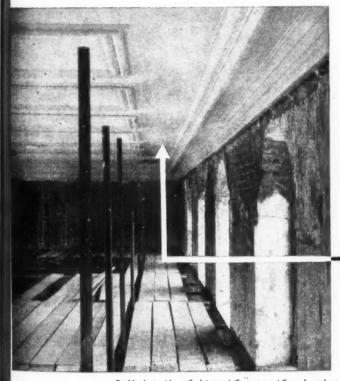
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