ARC HIBL CLIB



tandard contents

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

COMMENTand

Diary News

Architects' Commonplace Book

Astragal's Notes and Topics Letters

Societies and Institutions

TECHNICAL. **SECTION**

Information Sheets Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

${\it CURRENT BUILDINGS}$

HOUSING STATISTICS

Architectural Appointments Wanted Vacant and

No. 2744] [Vol. 106 THE ARCHITECTURAL PRESS 9,11 and 13, Queen Anne's Gate, Westminster, Phone: Whitehall 0611 S. W.1.

> Price gd.

Registered as a Newspaper -

A glossary of abbreviations of Government Departments and Societies and Committees all kinds, together with their full address and telephone numbers. The glossary is publied in two parts—A to H one week, I to Z the next. 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,

IAAS	Incorporated Association of Architects and Surveyors. 75, Eator	n Place, S.W.1.
	•	Sloane 3158
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
ICW	Institute of Clayworkers. 4, Vernon Place, W.C.1.	Chancery 6258
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1.	Sloane 8606
THVE	Institution of Heating and Ventilating Engineers. 72/74, Victori	a Street, S.W.1.

Victoria 0146/7 Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston IIBD Euston 2450

Institution of Heating and Ventilating Engineers. 72/74, Victoria Street, S.W.1

Institute of Landscape Architects. 12, Gower Street, W.C.1. Museum 1783
Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197
Institute of Registered Architects. 47, Victoria Street, S.W.1. Abbey 6172
Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128-29
Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. Whitehall 7264 IOB IRA ISF LIDC

LMBA MARS MOA MOE London Master Builders' Association. 47, Bedford Square, W.C.1.

MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8.
Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.

Winistry of Education. Belgrave Square, S.W.1.

Ministry of Health. Whitehall, S.W.1. Museum 3891 3. Park 7678 Whitehall 3400 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 MOH Whitehall 4300 MOLNS MOS MOT MOTCP

MOW Ministry of Works. Lambeth Bridge House, S.E.1. Reliance 7611 NAMMC Natural Asphalte Mine-Owners and Manufacturers Council.

Abbey 5277/8 94. Petty France, S.W.1. National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey National Buildings Record. 37, Onslow Gardens, S.W.7. Kensingto National Council of Building Material Producers. 2. Caxton Street, S.W.1. Kensington 8161 NBR NCBMP

Abbey 5111 National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham NERTE Langham 4041 **NFBTO**

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 Regist on Council. 82, New Cavendish Street, W.1. NFHS NHBRC Langham 4041

National Housing and Town Planning Council. 41, Russell Square, W.C.1. Museum 1264 NHTPC Head Office, Teddington. NPI. National Physical Laboratory. Molesey 1380 National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2. Whiteh NRIAD

Whitehall 2415 National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1. Abbey 1359 NSAS NT

National Trust for Places of Historic Interest or Natural Beauty. 42 Queen Anne's Gate, S.W.1. Whitehall 02 Political and Economic Planning. 16, Queen Anne's Gate W.1. Whitehall Post War Building, Directorate of. Ministry of Works, Lambe'h Bridge House, Whitehall 0211/2 Whitehall 7245 PEP

Reliance 7611 .E.1. RCA Whitehall 9936 Reinforced Concrete Association. 94, Petty France, S.W.1. RIAS Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.

Edinburgh 20396 Welbeck 5721 RIBA Royal Institute of British Architects. 66 Portland Place, W.1. RICS Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1. Whitehall 5322

Royal Fine Art Commission. 6, Burlington Gardens, W.1.

Royal Society. Burlington House, Piccadilly, W.1.

Royal Society of Arts. 6, John Adam Street, W.C.2.

Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.

Rural Industries Bureau. 35, Camp Road. Wimbledon, S.W.19.

Society of British Paint Manufacturers. 20, Piccadilly, London, W.1. Regent 6347

Society for Cultural Relations with the USSR. 98 Gower Street, W.C.1. RFAC RS RSA RSI RIB SBPM SCR

Euston 6272/3 School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C. Chancery SFMA Chancery 5313 STA

Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.I. Metropolitan 8344 Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3 Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. SNTPC SPAB

Holborn 2646
Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2
Temple Bar 5006 **TCPA**

TDA Timber Development Association. 75, Cannon Street, E.C.4. City 6146 (3 lines) Victoria 8815 Town Planning Institute. 18, Ashley Place, S.W.1. Victoria 8815
Timber Trades Federation. 81, Cannon Street, E.C.4. City 1476
War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1. TPI TIF WDC

Mayfair 8866
Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4. WEDA City 4263/4 ZDA Zinc Development Association. Lincoln House, Turl Street, Oxford. Oxford 47988



OFFER MANY ADVANTAGES

No matter how large or how small the opening, THORNBOROUGH Revolving Shutters offer many advantages over hinged doors. They give trouble free service for long periods, cut down loading time, save space and labour. Models are available for operation by pole, handle, or electricity.

We are specialists also in the manufacture of HAND LIFTS AND SLIDING PARTITIONS

THORNBOROUGH & SON (MANCHESTER) LTD.
59 CHAPEL STREET . MANCHESTER, I

Tel.: "ARDwick 3948. 'Grams: Thornborough, Ancoats, Manchester London: Tudor Works, N.W.10. 'Phone: Elgar 6478

T. /S.B.3.



WHEN you paint new houses or redecorate old ones, be sure you use paints of lasting quality. Gradually increasing supplies should enable you to specify

ASTRIUM

ASTREX

oil-bound washable water-paint

Our technicians and laboratory workers are at your service on all industrial and decorative paint problems.

SHERWOODS PAINTS LTD Established 1777
BARKING, ESSEX. TEL.: RIPPLEWAY 3001





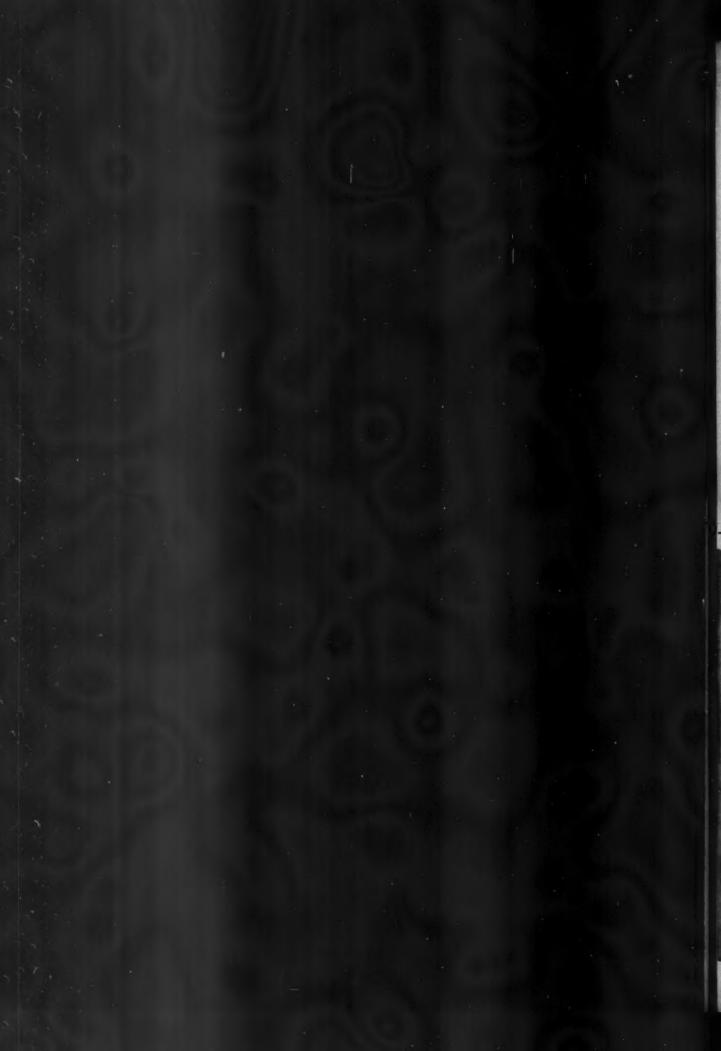
STELCON (INDUSTRIAL ELOOPS) LTD

STELCON (INDUSTRIAL FLOORS) LTD.
CLIFFORD'S INN . LONDON . E.C.4
Telephone: HOLborn 2916

5

CO.
TD.
quipment
tral St.,
.1.
5 lines)

E G 265) rits" LTD. E.C.4





ARCHITECT :

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

The Decoration of the First Class Lounge of the Q.S.T.S

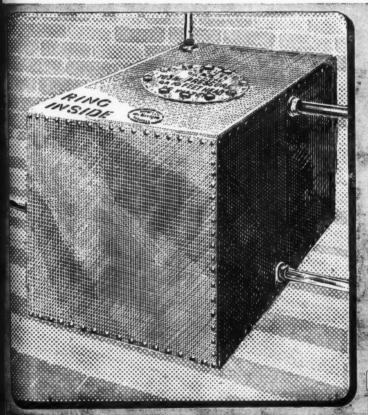
QUEEN ELIZABETH

CUNARD WHITE STAR LTD
was carried out by

WARING & GILLOW

Ltd. London, Lancaster & Brussels

BUILT BY John Brown & Co. Ltd. Clydebank



TO THE ARCHITECT -SURVEYOR AND BUILDER

Yours the problem-Harveys the answer!

Whenever the question of where-toget, not only Tanks, but Cisterns and Cylinders arises—remember Harveys. Our illustration shows a typical "Harco" product—unsurpassed for soundness of construction and galvanized after manufacture for lasting use. Get all supplies from your Builders' Merchant. For full information of all ranges write for Pocket List A.J. 716.

Harvey

G.A. Harvey & Co. (London) Ltd. Woolwich Rd. London, S.E.7

GH/GH344



IT is said that the Phoenix—a bird of great beauty—destroyed itself and later, from its own ashes, sprang into new life.

To-day we see on all sides the planning of the "New Britain" which will arise from the ashes of war. Churches, Schools, Factories, Public Buildings and many thousands of houses are but a few of the future monuments of this age of planned reconstruction which Architects, Engineers and Builders are being called upon to design and erect.

Amongst the many great British Manufacturers who served the country well in war and who now stand ready to fulfil the material requirements of rebuilding and re-housing, The Ruberoid Co. Ltd. occupies a proud position. The Ruberoid Built-up Roof with its varying specifications is designed to meet the most exacting standards of modern roof construction.

RUBEROID CONTRACT DEPARTMENTS located in London, Birmingham, Manchester, Newcastle, Edinburgh and Belfast, undertake work on any scale and in any part of the country. Estimates sent on receipt of particulars.

ARCHITECTS, ENGINEERS AND BUILDERS are invited to write for Ruberoid Publication No. 326 entitled "Standard specifications for Ruberoid Roofs".



THE RUBEROID COMPANY LTD., I, COMMONWEALTH HOUSE, NEW OXFORD STREET, LONDON, W.C.1



... with a "STERLING" Free-Standing Cooker

The man who instals a "Sterling" knows that this beautiful solid fuel cooker will do everything that is claimed for it and that he can give it his whole-hearted recommendation.

He knows that its lovely lines and beautiful vitreous enamel finish will enchant the eye; that the air-heated oven (no flues to clean) will captivate the imagination; and the quick-boiling hot plate will bring a new standard of efficiency to cooking.

Everything has been anticipated; the oven has independent control and can be raised or lowered to any desired temperature independent of the hot-plate; a large ash box provides for infrequent ash removal; smoke is reduced to a minimum. A high pressure boiler provides constant hot water; and as the cooker is self-contained, it can be installed with only a connection to the flue and the hot water cylinder.

The fuel consumption is low, only $l\frac{1}{2}$ cwts. per week when operated in accordance with manufacturers' instructions. The overall dimensions are 36in. long by 33in. high by 21in, deep. Full descriptive literature available on request to:



THE CAMELON IRON CO. LTD., FALKIRK GRANGEMOUTH IRON CO. LTD., FALKIRK

CONTROLLED BY FEDERATED FOUNDRIES LTD.
FORGING BRITAIN'S HOUSING FITMENTS

FORGING BRITAIN'S HOUSING FITMENT

W.C.1

f and

h will

of this rs are

well

of re-

ition.

meet



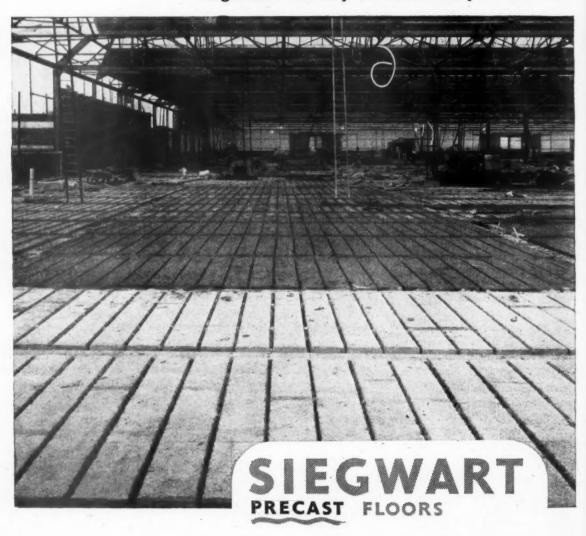
*Siegwart beams are all factory manufactured, thus enabling delivery to be dovetailed to the progress of construction and to the requirements of other trades.

Left. Siegwart precast beams stacked ready for placing in position.

Below. Siegwart precast beams laid in position ready for grouting at the Standard Motor Works, Coventry.

Architect: T. R. J. Meakin, L.R.I.B.A.

*Organised delivery to avoid delay at the site



SIEGWART FLOOR CO. LIMITED

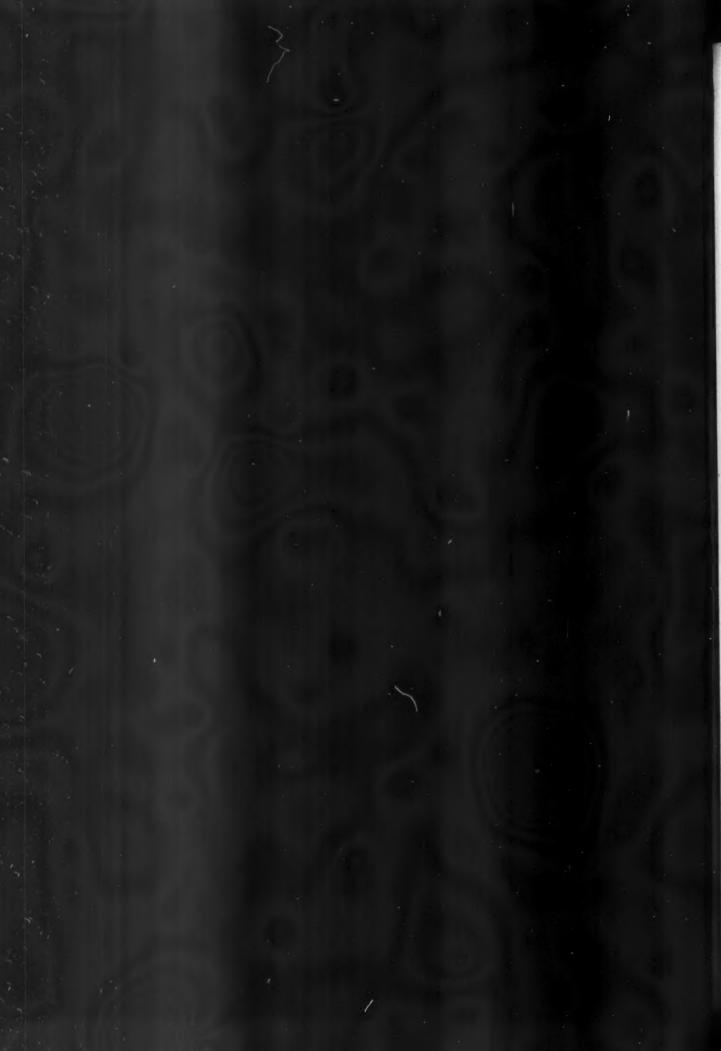
GABLE HOUSE, 40, HIGH ST., RICKMANSWORTH, HERTS. Telephone: RICkmansworth 2268

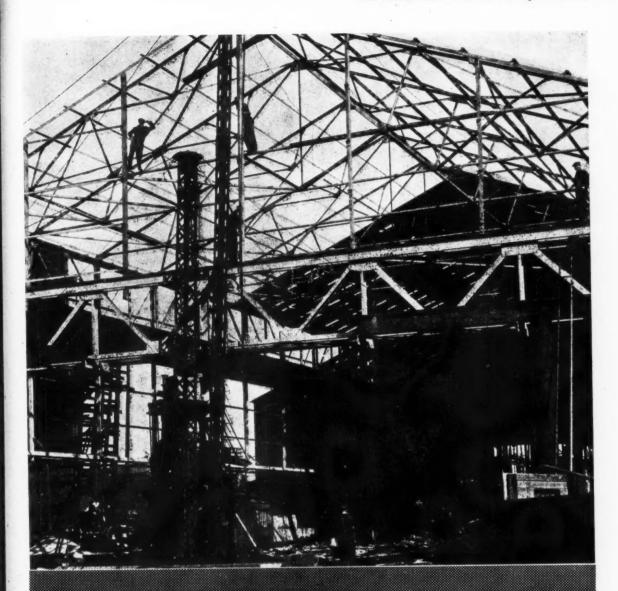
Branch Offices at Birmingham, Manchester & Glasgow. Works at Croxley Green, Enderby near Leicester, and Paisley,

@ SL/3/47



3 /47





CARGO FLEET COMPLETE SERVICE IN STRUCTURAL STEEL

Steelmakers Designers Ere



Erectors

CARGO FLEET IRON CO.,LTD., MALLEABLE WORKS, STOCKTON-ON-TEES. ALSO AT LONDON AND MIDDLESBROUGH.

crisis....

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? QOur 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. QMany 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. QNext 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

Liverpool House, 15 Eldon Street, London, E.C.2. Telephone: LONdon Wall 1527



Patent No. 519406. Structural insulation specialists



This simple type of hollow-core flush door is cheap, strong and looks well—but its serviceability depends on the care with which it is made. The Timber of the core must be dried to the right moisture content; the frame members accurately machined; carefully assembled, and well glued to the ply facings under the controlled pressure of the Door Press platens. These are the hidden details which count.

JOHN SADD & SONS, LTD.

HIGH-CLASS JOINERY

Windows, Doors, Mouldings, Staircases, Dressers, Kitchen Units

MALDON

Telephone: Maldon 131 (6 lines)

BSSBX

London Office: ALDWYCH HOUSE, W.C.2.

Telephone: Holborn 7225.

Sd. XVII/7-47



THE LEDA' RANGE OF LAVATORY LEGS has many advantages over the lavatory stand. They are graceful and distinctive in design, simple to fix. They are supplied as single legs in three patterns—plain, with fixed towel rail, or with swinging towel rail, each pattern being available with circular or octagonal sections, with or without invisible height adjustment. Heavily chromium plated on brass, they are constructed to mount on a mild steel top-frame which is made in sizes to fit all standard basins. Thus it will be seen that the legs are interchangeable, can be arranged in a wide variety of



combinations, and are equally suitable for a range of lavatories or for a single basin. Carrying the modern motif that distinguishes the range of which they form a part, 'Leda' Fitments are distributed only through recognised stockists, but descriptive literature is available direct from the manufacturers.

W. C. YOUNGMAN LIMITED

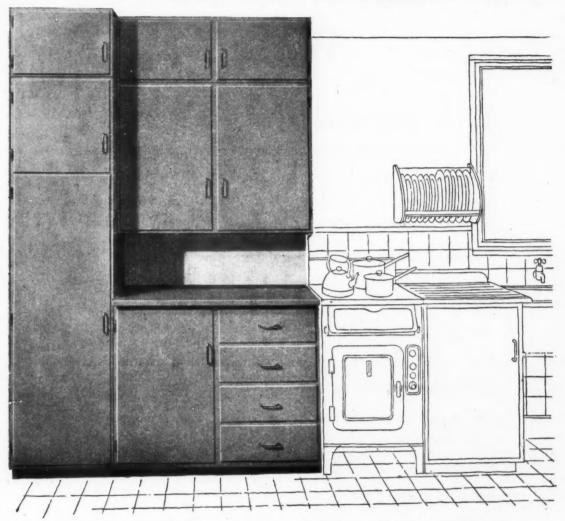
Bathroom Fittings Department,

WANDSWORTH WORKS, WANDSWORTH ROAD, LONDON, S. W. & Telephone : MACaulay 2233 (7 lines)

Telegrams: "Bildaplant, Claproad, Landen"



STANDARD KITCHEN CUPBOARD UNITS



The complete range of EJMA Standard Kitchen Units consists of twenty different wall and floor units of various sizes, some fitted with drawers, some with shelves. In many possible combinations with work-top, stove, sink and draining-board, they provide all

the necessary storage space for any kitchen, large or small. EJMA Kitchen Units conform to British Standard No. 1195:1944. They can only be obtained from certified users of the EJMA Certification Trade Mark. For names of suppliers in any district write to:—

THE

ENGLISH JOINERY MANUFACTURERS ASSOCIATION

SACKVILLE HOUSE, 40 PICCADILLY, W.I REGENT 4448 (INCORPORATED)

EJ.VII/7-46

nd. They ked towel to invisible this made variety of es or for a the range uted only available

TED

N,S.W.

Look to the Walls

MANY ALERT MINDS are planning the homes of the future—brighter, healthier houses and flats, embodying the most modern labour-saving ideas. Do not forget, however, that it is the material of which the walls are constructed which largely determines the solidity, durability and appearance of a building.

No other building material can rival the many advantages of good, honest Brick. Strong, durable, resistant to fire, weather and smokeladen atmospheres, Brick is also an excellent thermal insulator, and suppresses noise and vibration.

Brick is available in a wide range of textures and colours, requires no painting and reduces maintenance costs to a minimum.

The capacity of the Industry in normal times is 8,000,000,000 Bricks a year. Given an adequate fuel supply and facilities for plant replacement, the brickworks of the country should be able to sustain a building programme of over half a million permanent houses per annum.

BRICK

The Proved Building Material

THE NATIONAL FEDERATION OF CLAY INDUSTRIES, DRAYTON HOUSE, LONDON, W.C.I

Nobles & Hoare's

ALBAMATTE Flat Oil Paint.

NOBLEX Washable Distemper.

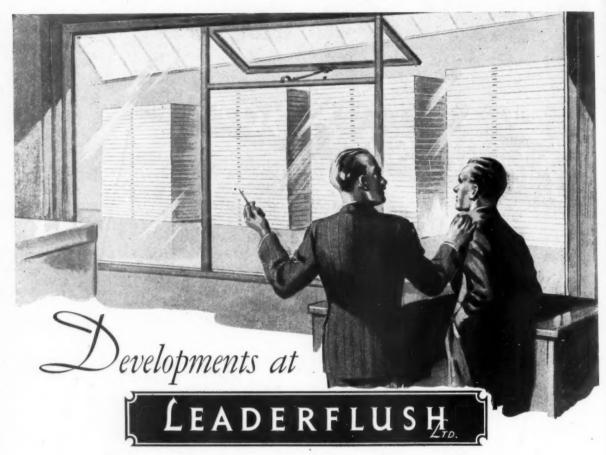
NOBELIN A high-grade synthetic Enamel supplied in a full range of colours. Suitable for use on wood or metal surfaces.

A perfect white Enamel, hard drying, elastic, providing a fine lustrous finish and highly resistant ALBAGLOSS to atmospheric conditions.

BODICOTE Ready mixed flat white Undercoating with exceptional degree of obliteration.

VARNISHES For interior and exterior use.

Nobles & Hoare Varnish, Paint and Cellulose Lacquer Manufacturers Woodbridge Works, Kingston Road, Leatherhead, Surrey.



to meet abnormal flush door demands

New Warehouse
Accommodation for
5,000,000 ft.-super
of Plywood and
100,000 finished
flush doors

To equip a minimum of 5,000,000 homes and tens of thousands of industrial and public buildings with doors is a supply operation of the first order. "Operation Boardroom" is in full swing at Leaderflush. An extensive new warehouse just completed provides perfect storage conditions for huge quantities of plywood and finished doors. In addition to these 'material' facilities Leaderflush are ready, as always, to give technical advice and the benefits of their experience to Architects and Contractors who may be faced with unusual problems. In such cases it pays to "go to the top" . . . look to Leaderflush for leadership in flush doors.

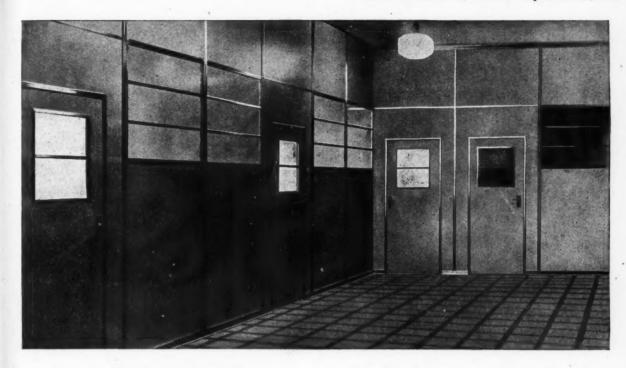
The Leadersush Trade Mark reproduced enlarged on the right is inlaid in the hinge edge of every door, in three colours.



The Ministry of Health have now restricted the amount of timber per house to 1.6 standards. The use of Flush Doors, which require only \(\frac{1}{2} \) cube of timber against 1\(\frac{1}{2} \) cubes for any other door, leaves a much larger share of the ration for use in other parts of the house.

Britain's Best Flush Doors

HEAD OFFICE : TROWELL, NOTTINGHAM



TWO MEN...TWO DAYS

Two days were ample time for two men to build this decorative partition in a busy London office from "HOLOPLAST" laminated structural plastic. Only with "Holoplast" could such a sturdy attractive structure be erected in such a short time. Light to handle and easy to work, "Holoplast" is ideal for the speedy erection of strong and rigid partitions. "Holoplast" saves man-hours, and combines advantages which the modern architect has been quick to appreciate.

DIMENSIONAL STABILITY

No swelling, shrinking, or warping, Flush-fitting is ensured.

FIRE RESISTANT

"Holoplast" is fire retarding and does not spread flame.

REQUIRES LESS SPACE

By taking less floor space "Holoplast" increases usable floor area and so adds to rentable value.

LOW MAINTENANCE COST

"Holoplast" panels are provided during manufacturing process with surface finishes which should not require any further retouching or painting during or after erection.

NO WASTE

Economy in use. A complete door assembly — door and surround — is made from a single panel of "Holoplast".

"Holoplast" laminated structural plastic is made in standard panels 8 ft. x 4 ft. x 1 in., and is available in a variety of finishes — natural, sprayed or veneered.

Full information concerning "Holoplast" is obtainable from the manufacturers or the distributors.

HOLOPLAST LTD.

NEW HYTHE, NEAR MAIDSTONE, KENT

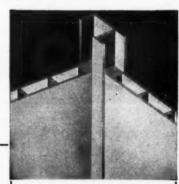
London Office

68, Victoria Street, S.W.I Telephone: Victoria 998I

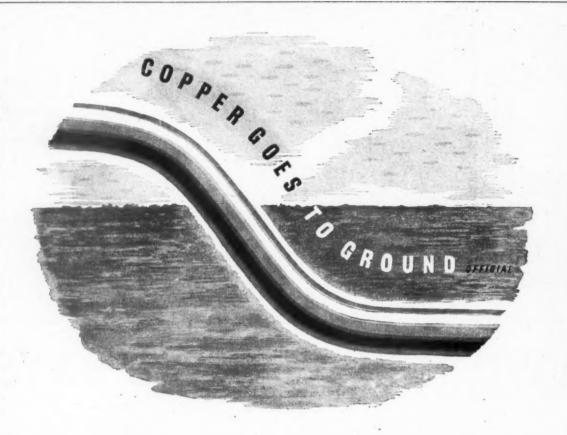
AUTHORISED DISTRIBUTORS FOR THE UNITED KINGDOM:

Gliksten Plastics
L. Keizer & Co. Ltd.
Metropolitan Plywood Company

Venesta Ltd.
Denny, Mott & Dickson Ltd.
Gabriel, Wade & English Ltd.



Illustrating a corner joint with "HOLOPLAST", showing extruded aluminium alloy corner jointing-



Within the past two decades, copper has come to be universally acknowledged as the ideal domestic pipe material, and the use of copper tubes has spread throughout the building industry. Now they are coming into general use underground for water, gas and sanitation purposes, replacing less serviceable yet often more expensive materials. This new phase is being marked by the publication by the British Standards Institution of:

B.S. 1386-47, 'COPPER TUBES TO BE BURIED UNDERGROUND'

Here is a specification of the first importance to architects, builders and plumbers. It sets the seal of the industry's approval on the use of copper tubes underground.

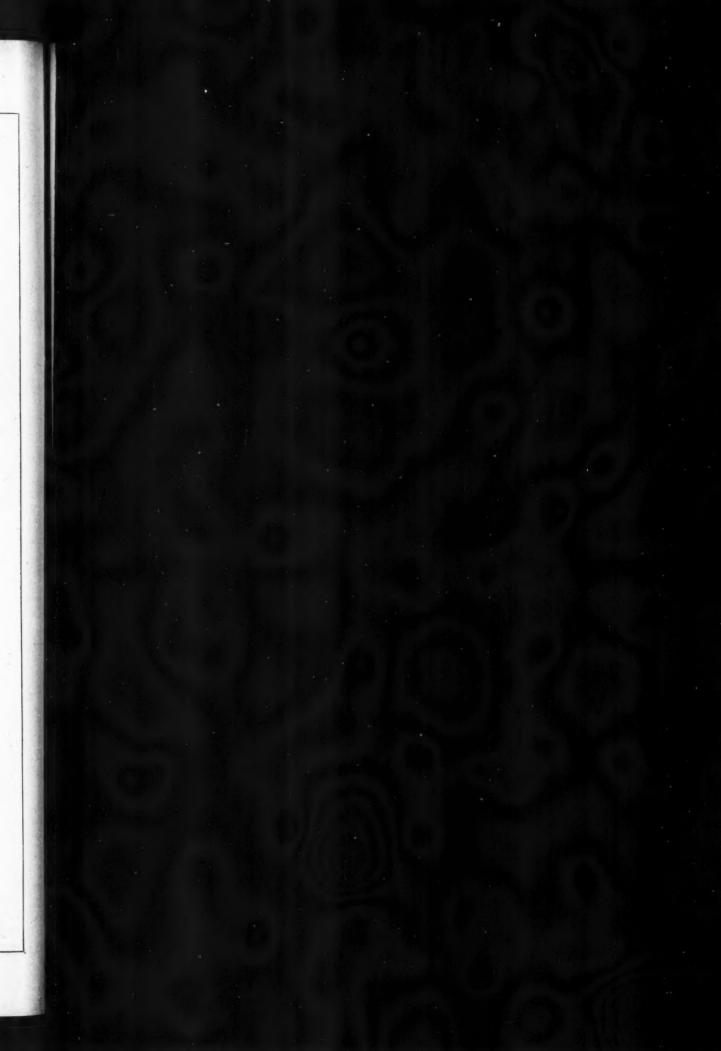
Copper has a higher resistance to corrosion by soils of almost all types than has any other pipe metal. Standard copper tubes have strength and toughness adequate to prevent mechanical damage and good flexibility to facilitate laying. Absence of internal

corrosion ensures a permanently free flow of water or gas. All these properties result in a very long, trouble-free life.

Further information on the behaviour of copper underground and advice on any point concerning the use of copper pipes will, on request, be given free of charge by the Copper Development Association. Write to Kendals Hall, Radlett, Herts. (Tel: Radlett 5616)

USE STANDARD TUBES AND SPEED UP BUILDING

COPPER DEVELOPMENT ASSOCIATION







Fine Furniture

H. MORRIS & COMPANY LIMITED. GLASCOW.

FLOORS & WALL SURFACES

ACID AND NON-ACID PROOF

BY



(21 Years Specialisation)

HEAD OFFICE & WORKS: WEDNESBURY, STAFFS. Telephone: 0284 (five lines)

London Office: Artillery House, Artillery Row, S.W.I. (1547-8 Abbey)

"FERROGRAN" STEEL FACED FLOOR FLAGS—Hydraulically pressed. Surface heavily impregnated with metal. For heavy duty.

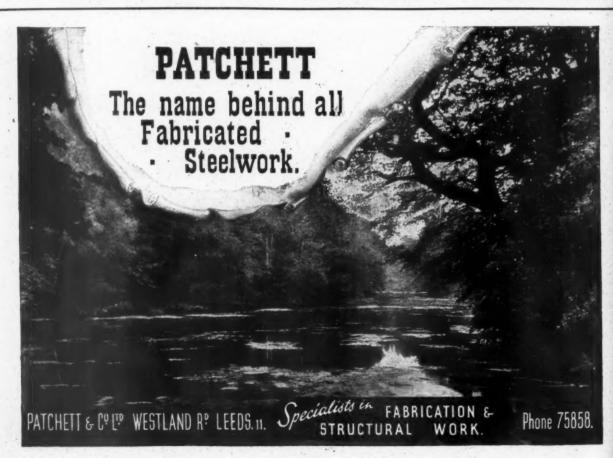
"CONSOL" STEEL ANCHOR FLOOR PLATES—10 gauge steel. Resists concentrated wear.

For very heavy duty.

COLOURED ASPHALT - STANDARD ASPHALT FLOORING - WOOD BLOCK FLOORING

ACID-PROOF FLOORS

-OF ALL TYPES TO SUIT EVERY CONDITION-



HEATING . PLUMBING . VENTILATING



Our service is professional; we are not manufacturers, our prime concern being to ensure that every proposal we make is the most suitable for the particular job and that the most efficient equipment is installed.



ished 1892 KENDRICK PLACE, LONDON, S.W.7

Kensington 1420

ELLIS (KENSINGTON) LTD

mi

HOR

OORS

ggg

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

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 roof movement and vibration.
- Makes glazing joints which remain watertight.
- Protects metal bars against corrosion and timber bars against decay.
- · Eliminates painting costs.
- is unaffected by changes in temperature.



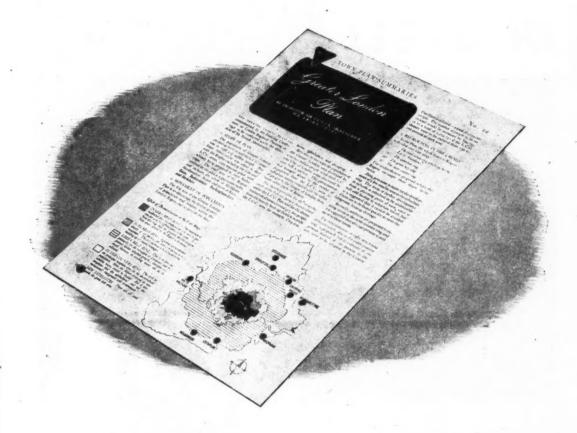
Our technical service is at your disposal to conduct surveys and submit estimates willingly and without obligation.

INDUSTRIAL ENGINEERING LTD.

Head Office: Mellier House, Albemarle Street, London, W.1

Telephone Number: Regent 1411 (P.B.X. 4 lines)

GREATER LONDON PLAN



Ascot Town Plan Summary Number 2a

This is one of the series of Summaries of the more important Town and Regional Planning Schemes which are being produced by a team of planning experts for the benefit of those who have not the time to study the full reports. The Summaries so far published are listed below. Applications for copies of these and subsequent Summaries, should be made on professional or official notepaper.

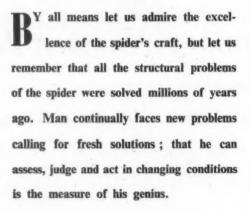


LIST OF PLANS	No. I	EXETER PHŒNIX	No. 5
GREATER LONDON PLAN	No. 2 (a)	A PLAN FOR PLYMOUTH	No. 6
COUNTY OF LONDON PLAN	No. 2 (b)	PLAN - NEWCASTLE-UPON-TYNE	No. 7
MANCHESTER REGION PLAN	No. 3 (a)	A PLAN FOR MIDDLESBOROUGH	No. 8
CITY OF MANCHESTER PLAN	No. 3 (b)	MERSEYSIDE PLAN: 1944	No. 10
CITY OF NORWICH PLAN	No. 4	GLOUCESTERSHIRE	No. 11

ASCOT GAS WATER HEATERS LIMITED, 43, PARK STREET, LONDON, W.I. Phone: GROSvenor 4491.

WE BUILD IN STEEL





LONDON, S.W.I - 82 Victoria Street MANCHESTER I7 - - Trafford Park BIRMINGHAM I5 - 192 Broad Street

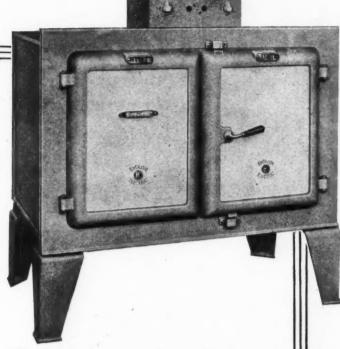
BANISTER WALTON: CO.

STRUCTURAL STEELWORK

"English Electric" Heavy Duty Cooking Ranges for hotels, restaurants, schools, canteens, are designed to give first-class service for many years. Of robust construction and pleasing appearance, they are easily cleaned and the elements can be withdrawn without difficulty for inspection or replacement.

An important feature is the unit type hotplate. All hotplates are made up of one, two or four units, each $8^{\prime\prime} \times 6^{\prime\prime}$ of 1.45 kW. loading; thus only one size of spare unit is required for the whole of the hotplate equipment.

The exterior is finished in vitreous enamel, the door panels and drip trays being white and the remainder light grey mottled.



Heavy Duty Cooking Appliances

by English Electric





for

CAR BODIES & LININGS.
SHIP BUILDING.
RAILWAY CARRIAGES,
GENERAL BUILDING.
Including:
TEMPORARY SHUTTERING
for POURED CONCRETE,
EXTERIOR SHEATHING.
WALL LININGS.
CEILINGS.
SIGN BOARDS and
PANEL WORK
Generally



British Made throughout

Scientifically waterproofed to ensure greater permanence and durability, this famous All-British Hardboard is made in a complete range of standard sizes to meet all requirements.

SUNDEALA BOARD CO. LTD. ALDWYCH HOUSE, LONDON, W.C.2

Telephone: CHAncery 8159

WORKS: SUNBURY-ON-THAMES, MIDDLESEX

GLASGOW: Baltic Chambers, 50, Wellington St., C.2
NEWCASTLE-UPON-TYNE: Northumbria House,
Portland Terrace, Jesmond, 2

Members of Building Board Manufacturers' Association



Already in use by many supply anthorities, CEMDU is the up-to-date, trouble-free and most flexible system for the intake and distribution of electricity.

Comprising one unit housing all domestic supply control, CEMDU banishes the usual chaotic conditions at the incoming end. It can be placed in any position. Supplied 60 ampere or 60 and 30 ampere double pole Main Switch Control. Any meter can be fitted; consumers' fuses are rewirable and

main Switch Control. Any meter can be fitted; consumers' fuses are rewirable and extensions are a very simple matter. CEMDU is supplied in attractive black or cream stove-enamelled finish.

Write for full particulars to the sole manufacturers.









BENTCLIFFE WORKS, ECCLES, LANCS.
Phones: Eccles 1691/2/3/4. Telegrams: "Carlectric" Eccles.





Ideal for FACTORIES, SCHOOLS, CHURCHES etc.

ure

ity,

d is tannts.

ΓD. .C.2

X

., C.2

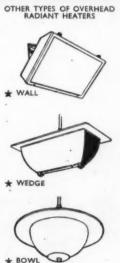
Now is the time to plan and instal heating systems to meet the rigours of winter in factories, workshops, offices etc, Comfortable and evenly distributed heat is quickly obtained with Bratt Colbran Overhead Radiant Heaters over the whole or part of a building. Suspended from the roof or wall they save floor space and direct heat where required. Control may be individual or in groups, manual or by thermostat. The four types: Bowl, Wedge, Wall and the Luminous Panel, are all silent in operation, and each possesses its own special advantages. Delivery of these Heaters can now be made in time to instal them for the coming winter.

CONSULT YOUR LOCAL GAS UNDERTAKING

or write direct to us for technical advice on installation layout

BRATT COLBRAN LIMITED

10 MORTIMER STREET, LONDON, W.I. Phone: MUSEUM 9411, 9311



* THE SINK THAT STAYS NEW



DEVASTANT SINES AND CABINETTES

READY TO MODERNIZE ANY KITCHEN

Manufacturers and Patentees

BENHAM & SONS LTD.

46, Wigmore Street, London, W.1
Phone: WELbeck 9253 Grams: Benham, Wesdo, London

The Cylinder Latch that Deadlocks

The K146 Cylinder Deadlocking Rim Latch is truly the safest lock to fit. A half turn in the opposite direction to unlatching deadlocks the door against entry and exit, and it is a small and neat piece of door furniture.



OTHER ADVANTAGES

- The bolt stop is operated by a press button which cannot fall into or out of engagement
- The concentric tumbler arrangement gives a greater degree of individuality
- Interchangeable between right and left hand doors
- Will fit any door thickness from 1" to 21" without bolster ring

K146 CYLINDER DEADLOCKING RIM LATCH

CYRIL KIEFT & CO. LTD., BRIDGEND, SOUTH WALES. Phone: BRIDGEND 950



The escutcheon or rose is solid and fits flush to the door panel. The cylinder is fitted with a hardened steel protection plate which cannot be drilled.



xxix



PLANNING SAFETY

EMERGENCY LIGHTING, essential to the safety of many types of public buildings, should be planned when the building itself is planned, by the architect. When the problem arises, remember Chloride. They are the makers of Keepalite, the automatic system which uses the mains interruption itself to switch on the emergency lighting. Chloride's knowledge of emergency lighting is unrivalled. Their experience is always at your service.



THE AUTOMATIC EMERGENCY LIGHTING SYSTEM

THE CHLORIDE ELECTRICAL STORAGE CO. LTD.

Stationary Battery Dept.: 77, King Street, Manchester 2

Telephone: Blackfriars 4731

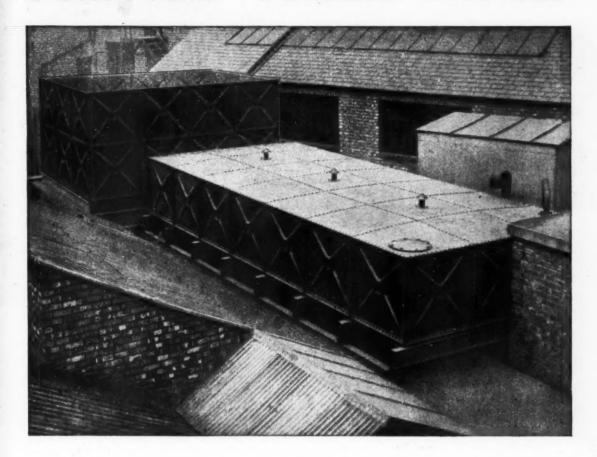


More and more Architects and Builders are specifying SECO Roof Units; they offer High Thermal Insulation, durability, moderate cost, ease of handling, speedy erection—in short, the ideal roofing material and we can give Immediate Delivery. Please write for fuller information to Building Materials Division.

UNI-SECO

UNI-SECO LTD., 25 UPPER BROOK STREET, LONDON W.I. Tel MAYfair 9080

PRESSED STEEL TANKS



BRAITHWAITE & CO

ENGINEERS LTD



London Office:

Telephone: WHItehall 3993

KINGS HOUSE HAYMARKET LONDON S.W.1

xxxi

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.



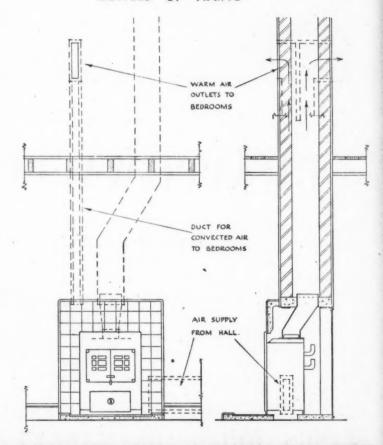
A special feature of the 3D Model is the way the doors disappear into the body of the stove when opened.

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.

DETAILS OF FIXING





PARK FOUNDRY BELPER DERBY





CAST TO LAST"

With these outstanding advantages!

Once you have handled "BIRMID" rain-water goods you will realise what really great advantages cast aluminium alloy has for this purpose. Here are some pointers:

- Transit and site breakages reduced to NIL.
- Pipes and gutters easily cut by hack-saw.
- Fittings and gutters are die-castings.
- All pipes are of solid drawn tubing.
- The shapes are perfectly accurate.
- Every casting is an exact fit.
- Plumbers approve this light-weight material.
- Down-pipes stand freezing without fracture.
- Householders appreciate the good appearance, lasting qualities and freedom from rust stains.

"BIRMID" RAIN-WATER GOODS ARE THE JOINT PRODUCTION

OF THREE ASSOCIATED COMPANIES:

BIRMINGHAM ALUMINIUM CASTING (1903) CO., LTD., STERLING METALS LTD., BIRMETALS LTD., and are supplied to the trade through the following main Distributors:-

WIGGINS-SANKEY LTD. LYSIA STREET, FULHAM, LONDON, S.W.6 HOOPER & ASHBY LTD. BRITANNIA WHARF, SOUTHAMPTON METAL AGENCIES LTD. COLSTON STREET, BRISTOL 1 ROWE BROS. & CO. LTD. PALL MALL, LIVERPOOL 3 A. D. FOULKES LTD. LUDGATE HILL BIRMINGHAM 3 J. M. & J. BARTLETT 3-4 HIGHAM PLACE, NEWCASTLE-ON-TYNE 1 THOMAS GRAHAM & SONS LTD. 19 YORK STREET, GLASGOW, C.2 HENRY SMITH (MERCHANTS) LTD. 104 WITHAM HULL GUNTONS OF NORWICH 30-42 ST. GEORGE STREET, NORWICH SMYTHE BROS. (IPSWICH) LTD. 56,58,83,95 and 87 FORE STREET, IPSWICH RANDALLS LTD. 20 and 22 ST. MARY'S STREET, BEDFORD CYRIL RIDGEON & SON LTD. TENISON ROAD, CAMBRIDGE JOHN FORSYTHE LTD. 24/26 GREAT GEORGE'S STREET, BELFAST

BIRMID RAIN-WATER GOODS

BIRMID WORKS, SMETHWICK 40, STAFFS.

RP 1942D



CHIEF IN

SYNDEC PAINTS



SYNDEC is laughing on the outside whilst WENTWORTH is glowing inside. It does sound rather like a popular song, but you should hear the songs of praise by the mixed chorus of painters and decorators! SYNDEC is recommended for exteriors and WENTWORTH for interiors. Two paints with but a single thought—quality, with all the features that a quality standard gives—glass hard glossy surface—fast to light—high cover—easy working—economy—durability and beauty.

FERGUSON EDWARDS LIMITED



Is there a marble in the House?

lend us . . . an ordinary glass marble? Thank you, Sir. It has no sentimental value, Sir? No? Splendid! Now, ladies and gentlemen, observe . . . We take this clear glass marble—so—between finger and thumb, and drop it into a small electric furnace (lined, we may say, with the finest platinum). With a touch of our wand -so - we draw from one hundred and two tiny holes at the bottom of the furnace no less than one hundred and two miles of fine glass filament. More than a hundred miles (you can measure it if you like) from one glass marble! That, ladies and gentlemen, is 'FIBREGLASS'. Did we hear a lady ask why we take so much trouble to get rid of a glass marble? We must refer her to the footnote below X. Did a gentleman ask what 'Fibreglass' has got that

the marble hadn't got? He should read the other footnote C. Thank you, ladies and gentlemen.

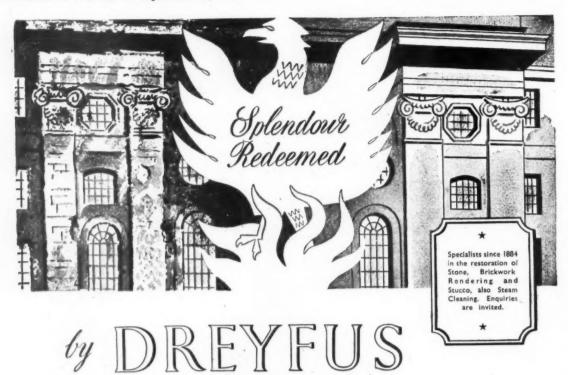
FIBREGLASS

We don't make 'Fibreglass' just (Like all glass, 'Fibreglass' is to show that it can be done. In the first place it's the world's best all-round insulator for heat and cold, sound and electricity. And it is already doing a score of other jobs, from air-conditioning and theatre decoration to firemen's helmets and electric blankets.

waterproof, vermin-proof, stable. But it's also light, resilient, fireresistant to the very high melting point of glass and insensitive 'o vibration-and the fibres have the tensile strength of steel.

Will any gentleman in the audience

FIBREGLASS LTD., RAVENHEAD, ST. HELENS, LANCS: FIRHILL, GLASGOW, N.W. London Office: 10 Princes Street, Westminster, S.W.1



A. DREYFUS LTD., 28, TOULMIN STREET, LONDON, S.E.I.: Tel: HOP 2366

Scientific 40

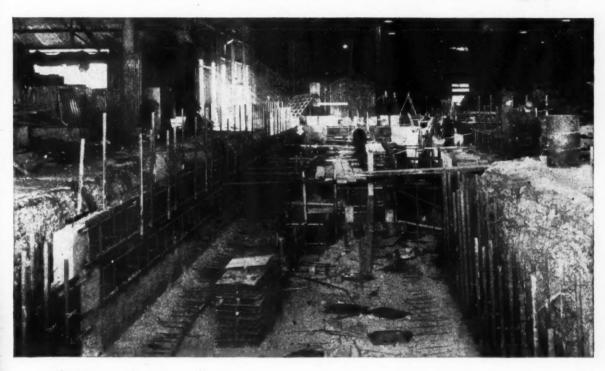


A booklet "The Uses of Lime in Building" giving full details of Lime/Cement mortar mixes will be sent on application to:—



ANOTHER KWIKFORM PRODUCT

Patented Steel Shullering



(Photograph reproduced by kind permission of Tarslag Ltd.)

A.A.R.LB.A

And at the same time cut your costs! Kwikform patented Shuttering was used on this contract COMPLETED IN 16 DAYS AND

Save Timber!

NIGHTS. Wherever Shuttering is required KWIK-FORM is the answer. Speedy and simple in operation and

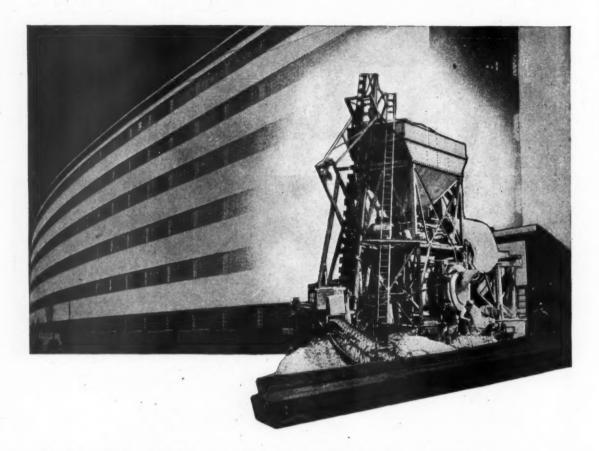
handled with efficiency by inexperienced labour under adequate supervision.

Write sales office for schedule No. 2537 D

Its quicker ... its KWIKFORM

KWKFORM LTD LONDON: 66, VICTORIA ST. S.W.I. TEL: VIC. 8915/9896
BIRMINGHAM (JECHNICAL &) 67, WHITMORE RD. 10. TEL: VIC. 1253
BIRMINGHAM (SALES OFFICE) 67, WHITMORE RD. 10. GRAMS: KWIKFORM, B'HAM

L.G.B.



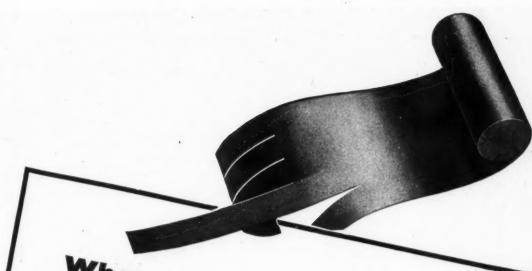
PERMANENTLY WATERPROOFED MASS CONCRETE and RENDERINGS

Tretol Liquid Waterproofer when added to the gauging water will permanently waterproof mass concrete and cement renderings against strongest subsoil water pressure without any deviation from normal work. Its chemical action guarantees absolute efficiency.

Tretol Ltd., 12-14 North End Road, London, N.W.II

Tel.: SPEedwell 4621 (five lines)

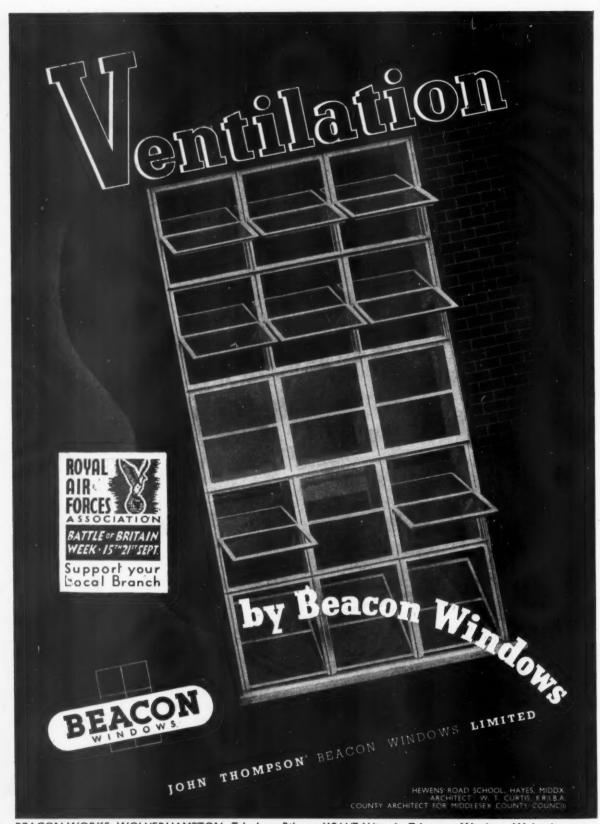




Wherever moisture has to be kept in its place—in concrete to ensure proper setting and out of wood floors, walls or roofs—there's a job in which IBECO* excels



IBECO is a tough-textured kraft paper made completely impervious to moisture by a patented bitumen emulsion totally permeating the paper fibres. Folding and creasing do not impair its waterproofness since there is no 'free' bitumen to harden and crack. Five weights are made—for concrete work, roof work, floor and wall-lining. Supplies are limited at present, but we 'shall be glad to send samples and discuss the application of IBECO to future projects.



BEACON WORKS · WOLVERHAMPTON · Telephone: Bilston 41944/7 (4 lines) · Telegrams: Windows, Wolverhampton

Lenge, Office: IMPERIAL HOUSE, KINGSWAY, W.C.2. Tel: Temple Bar 3216 · Manchester Office: DEANSGATE HOUSE, 274 DEANSGATE. Tel: Blackfriars 4721

Glasgow Office: 79 WEST REGENT ST. C.2. Tel: Douglas 3983 · Birmingham Office: EXCHANGE BUILDINGS, STEPHENSON PLACE. Tel: Midland 1072



BASIOR KITCHON

This announces the new DALEWARE SINK and DRAINING BOARD, which really brings within the reach of every home the advantages of the allthrough metal Sink - and at an absurdly reasonable price. It is of heavy cast aluminium with the unique everlasting hammered-hardened Daleware surface. It is completely rigid; cannot chip, rust, wear or warp and fits all standard cabinets, or it can be supported by two

brackets. Enormous manufacturing facilities ensure large deliveries soon, but may we suggest you make immediate enquiries? Literature is available.

Size 42" x 21" deep. Simplest possible fitting. Bosses provided for fitting pillar taps or mixer at 6, 7, or 8 inch centres; either handed; Belfast waste; chain; plug; washers and overflow pipe supplied. Retail price complete £8. 18s. 6d. (Brackets extra, per pair 7s. 6d.)

Enquiries to the sole selling Agents

PRODUCTS LIMITED ERA DOMESTIC

105 BAKER STREET LONDON W.I

WELBECK 2525-6 PHONE:



ROUND AND SQUARE SAUCEPANS . MILK SAUCEPANS ROUND AND SQUARE CASSEROLES PORRINGERS . SOUP BOWLS . TANKARDS . SINKS

MILES AND MILES OF EXPERIENCE

at your service

At a conservative estimate, we have supplied to various parts of the world, during the past 25 years, well over 1,000 miles of sliding door track and ancillary gear. The resulting fund of experience is freely at your service, together with fully trained technical representatives and a drawing office equipped to ensure that your requirements are efficiently interpreted.

New Information Volume No. 47, with diagrams, photographs and complete specification data, will shortly be available and will be reserved for you upon request.

Henderson

GEAR FOR ANY DOOR, PARTITION OR WINDOW THAT SLIDES

P. C. HENDERSON LI

D. TANCENT WO

ARRING - ESSEX





in common with every other periodical this JOURNAL is rationed to a small part of its preneeds of paper. we regret that unless a reader is a subscriber we cannot guarantee that he will gel 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 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw material now in short supply, are not necessarily available for export.

SEPTEMBER OCTOBER AND NOVEMBER

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.

BRIDGWATER. Opening of the Bridg-water Plasterboard Factory, by the Rt. Hon. Charles W. Key, Minister of Works. Lunch, Clarence Hotel, 1 p.m. Opening **SEPT. 30** ceremony, 3 p.m.

BRISTOL. Building Science Exhibition.
At George Wills Museum. (Sponsor.

CARDIFF. Building Science Exhibition. DSIR.) SEPT. 29-OCT. 11 (Sponsor, DSIR.)

DINBURGH. Enterprise Scotland 1947.
An exhibition of industrial design. At the Royal Scottish Museum, Edinburgh. (Sponsors, Scottish Committee of the CID.)
UNTIL SEPT. 30

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

LONDON. Photography Aids Export Exhibition. At the Alpine Gallery, 74 South Audley Street. (Sponsor, Institute of British Photographers.) 9 a.m.-7 p.m. UNTIL SEPT. 30

Industrial Wales. An All-Wales and Monmouthshire Exhibition. At Olympia. The main purpose of the exhibition is to make more widely known the importance of make more widely known the importance of Wales as an existing and potential industrial centre, and to demonstrate the wide variety of products now manufactured there. (Sponsor, Industrial Association of Wales and Monmouthshire.) UNTIL SEPT. 13

Exhibition of Work by Candidates for RIBA (Archibald Dawnay) Scholarships. At RIBA, 66, Portland Place, London, W.I. The Scholarships are intended to foster the advanced study of all forms of construction, and are tenable at the Schools of Architecture recognized for exemption from the examinations of the Royal Institute. (Sponsor, RIBA.) 10 a.m.-7 p.m. (Sat. 10 a.m.-5 p.m.).

e Miner Comes to Town Exhibition. At the C.O.I. Exhibition Centre, Marble Arch. There are nine sections dealing with all aspects of the mining industry. (Sponsor, COI for MFP and N.C.B.)

SEPT. 11-OCT. 23

F. J. Osborn. Impressions of Sweden.
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.

African Housing Projects. Discussion on material sent in by an architect in Africa engaged on large-scale housing schemes. At (Sponsor, SEPT. 18 Gordon Square, W.C.1. APRR.) 6 p.m.

Desmond Donnelly. Town Planning in Eire. 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.

Exhibition of Architectural Lettering. At Friends House, Euston Road, N.W.1, 3-6 p.m. English Monumental Sculpture, a talk by Frederick Burgess, A.R.C.A. Percy Delf Smith, R.D.I., the President, in the chair. (Sponsor, The Guild of Lettering Craftsmen.)

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

Woman's Fair Exhibition. At the Dorland Hall, Regent Street, S.W.1. (Sponsor, Woman.") SEPT. 23-Nov. 22

IHVE Jubilee, 1897 to 1947. The President and Council have arranged the followdent and Council nave arranged the following celebrations: Meeting of Council. At the Institution of Mechanical Engineers. Storey's Gate, S.W.1, 2 p.m. Oct. 7. Banquet and Dance. At the Savoy Hotel. Dancing from 9 p.m. to 12.30 a.m. 6.30 for 7 p.m. Oct. 7. Special Meeting of Members. At the Institution of Mechanical Engineers, Storey's Gate. Paper by Mr. C. G. AM.I.MECH.E., A.F.R.Æ.S., M.S.A.E., on Air Filtration. 2.30 p.m. Tea 5.30 p.m. Oct. 8 District Heating. At the Institution of Mechanical Engineers, Storey's Gate. A special "Jubilee" paper by C. G. Carruthers. 5.30 for 6 p.m.

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.)

Twenty-second Building Exhibition, 1947. at Olympia. (Sponsors, H. Greville Montgomery, A.R.I.B.A. (HON.) and Hugh R. C. Montgomery, M.C.) Nov. 19-Dec. 4

SOUTHAMPTON. Building Science Exhibition. At the Art Gallery, Civic Centre. (Sponsor, DSIR.) UNTIL SEPT. 20

THURSDAY, No. 2744	Sep	tember	11, Vol.	
News				223
Backyards .				224
This Week's Lead	ing A	Article		225
Astragal's Notes a	nd T	opics		226
Letters from Read	lers			227
Industry—II. niques and New By Ian Bowen Four Power Statio	Or,	ganisati	on.	228
by Farmer and	Darl	K		229
Societies and Insti	itutio	ons		236
House in Nairobi				237
Technical Section				
Information Cer	ntre			238
A New Index Building Ma				
No. 6. By Ia				241

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.

The Ministry of Health has issued a statement declaring LOANS sanctioned during the quarter ended June local authorities to 1947, in England and Wales.

	8			
Housing				£ 41,753,977
		42 2	42	41,733,777
Municipal				
clinics, s	anatoria a	and m	ental	
	s)			539,352
Gas Work				1,551,723
Das WOIK	3	***		
Police Purp	ooses	***	***	45,087
Swimming	Pools.	гесте	ation	
	open s			129,838
* Water Si	innly	pares,	••••	1,499,054
water st	ippiy,			1,499,034
* Sewerage				
posal				726,480
Refuse De	struction			71,003
Education	Comican	(inch	dina	71,005
				4 24 4 200
	and mus			4,714,209
Roads and	1 Bridges	(incl	uding	
	Street Wo			280,324
Town and				250,208
				230,200
Other Serv				
to defra	y contribu	itions.	etc	
under				
1043)		80		1,001,123
1243)		***	***	1,001,123
			Total	£52 562 378

*These are net figures after allowance has been made for capital grants and contributions deducted from the capital cost before loan sanction. The gross cost of schemes are:—£1,537,154 for water supply and £787,300 for sewerage and sewage disposal.

HOPE'S HOT-DIP GALVANIZED WINDOWS

ARE BEING EXPORTED

TO ALL PARTS OF THE WORLD

WHERE EXTREME TROPICAL

HUMIDITY PREVAILS



AVOID CORROSION

The mean annual rainfall in this country is 40 inches

SEND FOR CATALOGUE No. 230
HENRY HOPE & SONS LTD., Smethwick, Birmingham
London: 17 Berners Street, W.1

From AN ARCHITECT'S Commonplace Book

ORIENTATION. [From Home-Made Home, by Ronald Duncan (Faber and Faber).] Two houses were built in my village before the war. They both commanded the best of views and looked straight out across the Atlantic. I have seen the occupants crawling on all fours up to their front door, and when they had managed to open it, seen their roof lift like a hat to acknowledge the wind. Obviously, therefore, the front door of a house should be on the sheltered side away from the prevailing wind. In building we should emulate a horse and sensibly turn our rump to the wind, not, like a stupid cow, stand full to the gale. That is only asking for toothache, rattling windows, and, what is worse, a smoking chimney, every time the front door is opened.

From October I to II will be held the first post-war RADIOLYMPIA.

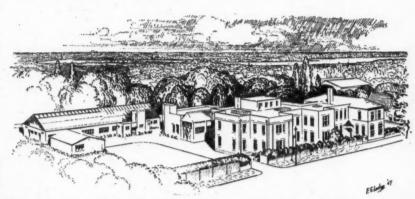
In the modified scheme arranged this year there will be some standardisation of colour but exhibitors otherwise will be allowed a free hand. The lay-out of the exhibition as a whole is uniform, but individual designs of stands are allowed with certain limitations. A novel decorative feature is the use, on stands and at the west end of the Grand Hall, of steel aerial masts, constructed of tubular steel with lattice wiring and surmounted by pennants. Main decorative feature is the west end of the Grand Hall, where a lion rampant surmounts a globe, with the slogan below in Playbill lettering Britain Builds Radio for the World. Each stand in the Grand Hall has two aerial masts or pylons which have a treble purpose. They serve as a decorative feature; they display the exhibitors' names on pennants; and they carry the various electrical networks, including wiring for both sound and television. Architect of the exhibition is Mr. J. Lansdell and the exhibition organiser, Mr. Alex Moody. Mr. Lansdell is responsible for the general lay-out of the exhibition, for the aerial pylons and for the

A programme of special lectures has been arranged by the RIBA dealing with the DESIGN of POST-WAR SCHOOLS with particular reference to the requirements of the new Education Act. On Thursday, October 23, at 11.0 a.m. Mr. Denis Clarke Hall will lecture on "Secondary Schools"; at 2.30 p.m., after an address by the Rt. Hon. George Tomlinson, M.P., Minister of Education, Mr. John

overseas visitors' reception rooms.

Harrison will lecture on "Nursery, Infant and Junior Schools," Sir Lancelot Keay, K.B.E., President, RIBA, in the chair. On Friday, October 24, at 10.0 a.m., Mr. William Allen will lecture on "Standard and Quality of Lighting," and at 11.30 a.m. Mr. C. C. Handisyde will lecture on "Heating and Ventilation," Mr. H. S. Goodhart-Rendell, Past-President, RIBA, in the chair. At 2.30 p.m. Mr. Hope Bagenal will lecture on "Acoustics," and at 4.0 p.m. Mr. Robert Fitzmaurice is to lecture on "Use of Materials" Sir Lancelot Keay, K.B.E., President, RIBA, in the chair. A small technical exhibition will be held in the foyer of the Jarvis Hall as a visual aid to the lectures. It will illustrate and supplement some of the points discussed during the course. Certain details of school planning will be contrasted

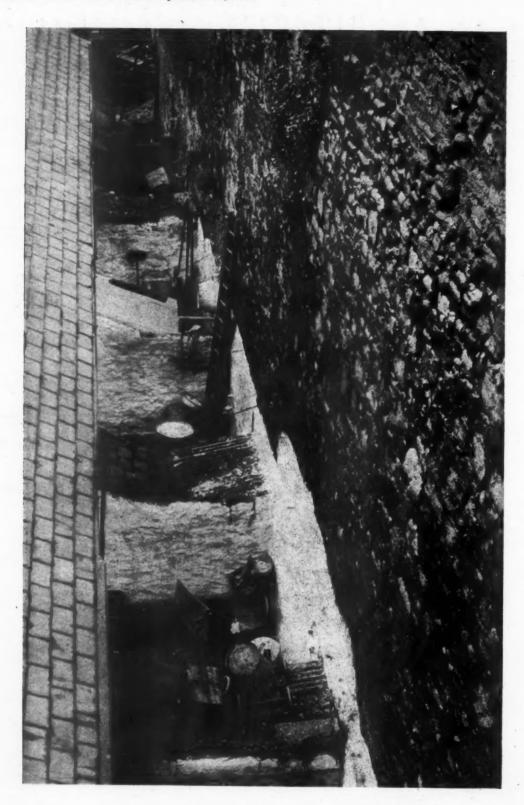
with the work of other countries, and there will be a few plans and illustrations of foreign schools. This exhibition will be in the nature of an experiment and will differ very widely from the popular exhibitions which the RIBA has organised in the past. It is felt that at the present time such an exhibition may be of considerable value to architects and others who are concerned with school buildings, and every endeavour is being made to include as much up-to-date and interesting work as possible. It is probable that as a result of the preliminary work undertaken for this exhibition, a much larger and more popular exhibition will be organised in the spring in which one of the aims will be to put over to the general public the more important features of school planning at the present time.



The 21st anniversary of the foundation of the Research Association of British Paint, Colour and Varnish Manufacturers is to be commemorated by an Open Week and Exhibition at the Paint Research Station, Teddington, from September 22 to 26. The drawing shows the Research Station with the garage on the extreme left, which has been transformed into laboratories. These extensions are to be formally opened by Sir Edward Appleton on Tuesday, September 23.



A drawing of the proposed new Forth Road Bridge. The Clyde Valley and Central and So th East Scotland Regional Plans together provide for a new system of arterial roads and motor ways. Important links in this system are a new Forth Road Bridge and a tunnel under the Clyde at Glasgow. Details of the scheme are presented by the Department of Health for Scotland in the Scotland Tomorrow Hall at the Enterprise Scotland Exhibition in Edinburgh. See A. J. last week.



Backyards

These tiny whitewashed backyards hugging the town wall of Conway, N. Wales, surely indicate a triumph of working-class domestic arrangements. No other yards might be smaller or neater and the similarity of one to another is raw material enough for Mass-Observation. The photograph is by Mr. K. F. L. Farnfield, A.R.I.B.A.

Professor Robin Darwin has been appointed PRINCIPAL of the ROYAL COLLEGE of ART as from the retirement of Mr. P. H. Towett at the end of 1947. Professor Darwin, who is at present Director of the King Edward VII School of Art, Newcastle-upon-Tyne, and Professor of Fine Art in the University of Durham, was educated at Eton College and the Slade School of Art. He was an assistant master at Eton before the war, and during the war years served with the Camouflage Directorate of the Ministry of Home Security and with the Ministry of Town and Country Planning. Subsequently he was on the staff of the Council of Industrial Design. Thirty-seven years old, he is a great-grandson of Charles Darwin, the eminent scientist.

** Mr. Gordon Russell has been appointed DIRECTOR of the COUNCIL of INDUSTRIAL DESIGN.

He has had wide experience in the industrial design of furniture, pottery, glass, carpets, design of infinite, pottery, gass, carpes, furnishing fabrics, and the radio and light metal industries. In 1920 he joined the Design and Industries Association and was for some years a member of its Council. In 1926 he was elected a Fellow of the Art Workers Guild and in 1927 he was elected a Fellow of the British Institute of Industrial Art and of the Arts and Crafts Exhibition Society. In 1940 Mr. Russell was elected a Royal Designer for Industry (the Faculty of the Royal Designers for Industry is limited to 40 members who are adjudged by their fellows to have achieved eminence in their profession). In 1947 he was elected Master of the Faculty. In 1943 he was appointed Chairman of the Design Panel at the Board of Trade and a member of the Furniture Production Committee and Furniture Trade Working Party, and in 1944 he was appointed a member of the CID. He is a member of several committees of the Ministry of Education, and Chairman of the Furniture Design Committee at the Ministry of Works. He has acted as adviser on design matters to the Admiralty, Post Office and Colonial Office. In 1945 he was elected a First Fellow of the Society of Industrial Artists.



Mr. S. Gordon Russell who has been appointed Director of the Council of Industrial Design.

WATER. SEWAGE AND DROUGHT

FROM whatever point we draw it, the ultimate source of all water supply is rain. In this country rainfall is fairly evenly distributed throughout the year and there are no marked wet and dry seasons, as occur in tropical regions. Because of this we tend to take our water resources for granted and are both surprised and annoyed when, after 15 consecutive rainless days, there is an official drought. Something must be wrong with the management of our water resources when, less than six months ago, over our richest agricultural land there were disastrous floods and at the same time East Londoners had to get their drinking water from trucks and bowsers because the flood waters had contaminated the filter

Over the years the variation in our rainfall is not great, so it is the use and misuse of our water resources which requires further examination. While water from upland catchment areas is carefully guarded from pollution, custom and indifference have allowed many of our rivers to become so polluted in their lower reaches that fish-life is extinguished and the river channels themselves have degenerated into open sewers. A recent Report on the Thames floods considered three types of remedial measures—to widen and deepen the channel so as to accommodate the maximum flow; to provide balancing reservoirs temporarily to retain the flood waters; and to designate certain areas as liable to floods, carry out minor training works, and accept as inevitable the periodic flooding of houses, streets and fields. Of these alternatives, the first would entirely change the character of the river Thames as we know it, since the channel would have to be three times its present cross-section at Teddington weir. The second alternative would sterilize some of the finest agricultural land in the Thames valley, and would also involve new channels and earthworks of considerable magnitude. The third alternative would logically mean the eventual re-location of a large population outside the Thames catchment area and the reversion of all floodable, though built-upon, land to water meadows.

In the valley of the river Lee the problem is complicated by the use of the river simultaneously as a channel for sewage and a source for the drinking water of East London. Into this river, above the intake of the King George reservoir at Chingford, are poured each day some 13 million gallons of sewage effluent. In dry weather the flow of fresh water in the Lee is estimated at 15 million gallons per day. Sound sanitary engineering practice requires that even the highest grade effluent from a sewage disposal works should only be discharged into a river whose dry weather flow is at least five times the volume of sewage effluent admitted. When the proportion of fresh water to sewage is less than five to one, a point may be reached where the river ceases to be self-cleansing and becomes progressively fouler and more polluted.

What, then, should be our water policy? Whatever is proposed will take years to complete, and will require clear thought in the formulation of a plan. London has outgrown the water resources of its catchment area, yet continues to make increasing demands for water. New sources of supply must therefore be sought, possibly by reviewing the late Sir Alexander Binnie's project for an aqueduct from Wales, or perhaps by the construction of a large-scale pumping main from the Great Ouse. Our planners should make certain, in accommodating London's overspill, that no more sites within the Thames catchment area are covered with impervious roofs, roads and yards from which the storm-water run-off would go to swell future floods. A new approach is necessary to the problem of sewage purification, on the lines of the work of Dr. Abel Wolman of Johns Hopkins University, USA, to enable trade and domestic sewage to be rendered harmless at the source of its production and to return valuable fertilizer to the land, rather than dump it in the sea.



The Architects' Journal

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

Phone: Whitehall 0611

NOTES

TOPIC

ENTERPRISE SCOTLAND

Conflicting reports from my Edinburgh spies left me no alternative but to go and see for myself, and now I'm very glad that I did. In great comfort, too, up by Dakota one morning and back the same evening the same way; extravagant, but worth it. Display, on the whole, looked better than Britain Can Make It, perhaps because smaller space meant fewer hands, but the goods seemed vaguely disappointing, or perhaps there just wasn't quite as much for the architect as there was at the V. & A. That the Department of Health should show Scotland To-morrow was presumably a good idea, though it seemed hardly likely to interest foreign buyers very much; but I was frankly disappointed with the shipping. If you are selling the Clyde you obviously can't leave out the Oueen Elizabeth, and for the same reason you may as well start with the Sirius, or the Charlotte Dundas, or whatever it was. But the intermediate steps conveyed to me the impression that the Clyde was mainly interested in the North Atlantic passenger route, and there seemed to be no attempt to convey how much bread and butter comes from things like trawlers, and floating docks, and dredgers, and lightships, and all the other things which float. And how many ships are now pounding round the world simply because some doughty Scots chief engineer has nursed them along for twice their allotted span? Did it all have to be left out?

STRONG LAD WANTED

The Royal Fine Arts Commission is one of those institutions whose value depends on the people who belong to it. It has recently been given wider powers, though they are still rather vaguely defined, and, with a much more energetic and enlightened membership than it had in the past, it has become a real power for good—especially in its architectural work.

Now it is advertising for a secretary. This is a key appointment; the right man—who must be a man of vision and

determination as well as architectural judgment—can exercise an enormous influence on standards of design at a moment when the effect will be lasting. The Commission is in a way the nearest we have now to the eighteenth-century Man of Taste—and how much he is needed.

des

set

ma

equ

an a

Cor

fact

Col

sou

peo

nur

enc

gre

of

wa

fire

ab

shi

ab

the

th

wł

ab

stı

CID'S NEW DIRECTOR

In Gordon Russell, the Council of Industrial Design has as its new Director a man who has proved his mettle as a designer and as a manufacturer: who can speak, therefore, on equal terms to designers and to manufacturers. In announcing his appointment, the Council listed all the letters that Mr. Russell can put after his name and dealt with the activities that have brought him into the limelight in recent years, but said nothing about the story of the Russell furniture business - a story which even Samuel Smiles might not have found wholly unworthy of his attention.

The business began in the early 1900's, when G.R.'s father bought the Lygon Arms at Broadway, and found it necessary to set up a workshop for the repair of the antique furniture with which he was equipping the place. This activity led, a few years later, to the selling of antique furniture, at first mostly to Lygon Arms hotel patrons.

After the 1914-18 war the young Gordon Russell took over this side of the family business; and in 1920 for the first time he included some new furniture of his own design among the antiques displayed in the Broadway showroom. These pieces and others which followed them not only sold but were appreciated and found their way into several exhibitions. In 1929 Gordon Russell Limited was formed as a separate manufacturing company. The part had grown greater than the whole.

Gordon Russell co-operated with architects on several notable jobs—among them, the furniture for the new Shakespeare Memorial Theatre. Perhaps more significantly, he also co-operated as a designer with other industries; the radio cabinets which he

designed for Murphy in the early 1930's set a standard which no other radiomaker has yet excelled and few have equalled. More recently, G.R. has been an active member of the BOT Advisory Committee on Utility Furniture; the fact that the best Utility range is called Cotswold may be taken as a clue to the source of inspiration of its design.

Critics of the CID have said in the past that its staff included too many people who knew too little about design. Even the most biassed could not number Gordon Russell among them.

THE GRAND TOUR SUSPENDED

One part of the new austerity measures will disappoint architects, and that is the ban on foreign travel. The sterling area is still open, but Gibraltar, Malta and Cyprus are no substitute for Paris, Rome, Gothenburg and Stockholm. Perhaps we shall see an enormous increase of international congresses and conferences for architects of which this week's session at Bridgwater of CIAM may be but the One interesting point: What about the RIBA travelling scholarships? At present there still seems to be some uncertainty about the position; nobody yet knows whether the winner of the Bossom will be able to go to the USA or the winner of the Tite to Italy. It is much to be hoped that the Ministry of Education will do what it can to see that students will be able to extend their experience by studying Continental exemplars.

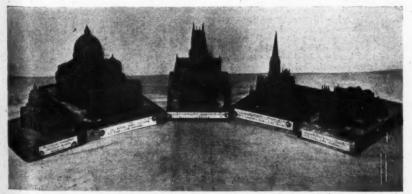
STARRING ORSON WHEELER

From the Syndication Department of the Montreal Star comes an interview with Orson Wheeler, a noted Canadian

sculptor who has taken up architectural modelling. "It all began," he says, "when I heard people in Montreal taking a look at St. James's Cathedral, Dominion Square, and assuming it was the same as St. Peter's, Rome. I knew it wasn't-but I wanted to find out the difference." The difference, he discovered, is that St. James's is only oneeighth the size of St. Peter's. Mr. Wheeler, who is crazy about comparative sizes, continued his researches, and with the help of plasticine discovered that Salisbury Cathedral spire is higher than the Sun Life Building in Montreal, which is a little higher than the Great Pyramid, which is higher than Mont St. Michel. Stonehenge is one of the smallest models-" I showed it to an Englishman," says Mr. Wheeler, " and he was insulted "-and the Eiffel Tower isn't that much shorter than the Empire State Building.

Mr. Wheeler, who is apparently no taller than the average sculptor and considerably shorter tempered than the insulted Englishman, thinks modern architects are "mousy and conservative," says plasticine is simply no good for making models of skyscrapers, and finds Viollet le Duc very inaccurate on detail. He should be interested in Birmingham's new pub-the competition drawings of which were published in a recent issue of the A.J. This, besides being surely the biggest pub in the world, is the only one I know of which possesses a full-size quadriga on its roof. Like Mr. Wheeler, I know it's different from the Wellington Arch at Hyde Park Corner, but unlike Mr. Wheeler I am not going to make models of them both to see which is the larger.

ASTRAGAL



Mr. Orson Wheeler's essays in plasticine sculpture. From left to right, St. James's Cathedral, Montreal; St. Peter's, Rome; St. John the Divine, New York; Salisbury Cathedral; Westminster Abbey. See Astragal's note above.

LETTERS

Maude Kemper Riley,

Young Mother Riley versus Mr. Marshall

SIR,-Many thanks to Astragal for his

SIR,—Many thanks to Astragal for his support of freedom in the arts. Mother Riley appreciates his moral backing which she enjoys from time to time. It is extremely interesting to me that he appreciates that governments may foster art, clear the way, and even spend some money in advertising the national produce (I am thinking of the Henry Moore exhibition here); but that it should not officially direct art's course. I don't know what officially commissioned art or officially purchased art works look like in Britain, but ours is usually quite badfrom portraits of presiding presidents to commemorative statues, to historical rotunda decorations in government buildings. I am sending, you under separate cover a photograph of a painting called The Peacemakers which President Truman purchased this year for the sum of \$10,000. It shows Civil War



The Peacemakers, by George P. A. Healy (1813-1894). President Lincoln, Generals Grant and Sherman and Admiral Porter discussing prospects of peace between the states at a meeting on the "River Queen" off City Point, Virginia, in March, 1865, during Grant's siege of Richmond.

personnel aboard a river steamer and was painted in Rome by a run-of-the-mill American academician three years after the meeting took place, photographs of Lincoln, Grant, etc., being furnished the painter along with a written description of the interior involved. Probably worth about \$500 as an historical curio. torical curio.

torical curio.

British papers probably didn't copy, but after some attempt to recall the letter, then to make it a "top secret," it got out to the press that President Truman had written Assistant Secretary of State William Benton a letter during the late controversy over the American paintings touring Europe, on which you have commented. This letter leaves no doubt of presidential comprehension of the arts. Here it is: (See Time Magazine for June 16, 1947.)

arts. Here it is: (See Time Magazine for June 16, 1947.)

"I don't pretend to be an artist or a judge of art, but I am of the opinion that so-called modern art is merely the vaporings of half-baked lazy people. An artistic production is one which shows infinite ability for taking pains, and if any of these so-called modern paintings show any such infinite ability, I am very much mistaken.

"There are a great many American artists who still believe that the ability to make thinks look as they are is the first requisite of a great artist. . . There is no art at all in connection with the modernists, in my opinion. (Signed) Harry Truman."

MAUDE KEMPER RILEY.

MAUDE KEMPER RILEY, Publisher and Editor, MKR's Art Outlook

New York

of recttle er: ual facent. Mr.

ral

ous

t a

ng.

est

urv

is

ight ars. the tory not his

ealt

00's, gon cespair n he vity g of to

ung e of the ırnithe wav hers

way 1929 d as any. the

but

with bsnew Per-COin-

1 he

In his first article in our issue for August 28 Ian Bowen referred to the difficulties and dangers resulting from the partial abolition of Regulation 56AB. This week he discusses a substitute for the regulation and points out that the Government should favour the giving of work to the more efficient contractors, whether they are large, medium or small.



Re-Organisation of the **Building Industry**

[by Ian Bowen]

11.—New Techniques and New Organisation PANACEAS VERSUS PLANS

The present situation is one where the pot, kettle, and frying-pan as well, vie in calling the other black. Which party is blackest is difficult to discover. Although 100,000 new permanent houses have been completed since the end of the war, the public at large has never been provided with an analysis of the coet of every a single see. an analysis of the cost of even a single one

of these houses. This silence is itself a reflection on building employers, building workers, and the Government itself; none of these interests seems to have felt that a publication of detailed costs would earn it credit. In this judgment at least all may

have been wise.

Instead of plans based on facts the industry is offered, and offers itself, panaceas.

The latest is payment by results, with the target of an increase of 20 per cent, in the earnings of the building operatives and also, a securing by of such an increase in proearnings of the building operatives and also, presumably, of such an increase in productivity as would prevent this from driving up costs. The objective is unimpeachable, but its vague formulation at this late stage makes it a panacea rather than

a plan.

Such well-meaning bodies as the Association of Building Technicians, in their Homes for the People, have offered new methods of construction as a way out of the post-war impasse. They offered improvements in the design of the house, which they believed "will increase costs by about 33 per cent. on the basis of pre-war prices and methods."

They hoped that better organization of the industry and more advanced technique would reduce costs again by at least this amount. In October, 1945, the Minister of Health advised demobilised men to hesitate to take out mortgages for new homes, pre-sumably on the grounds that costs and/or

the rate of interest would fall; in fact, the price of houses has risen steeply.

It must be admitted that the planners are no less to blame than the two sides of the industry. The extraordinarily low output of labour on housing sites since 1945 could hardly have been achieved without the concerted incompetence or indifference of those who planned materials programmes, those who diverted and organised the jobs, and the workers themselves. Between them these three influences have driven up the manhours taken per house to record high levels.

It is a mistake to believe that any plan is better than no plan at all. Some plans is better than no plan at all. Some plans have proved themselves positively harmful. The only plans that are of any use are realistic programmes linked with strong executive action. If political or administrative timidity and slowness of action rule out this kind of planning, the planners would be better employed elsewhere.

A SUBSTITUTE FOR 56AB

First necessity is to cure the labour First necessity is to cure the labour trouble. The pressure on building labour supply is soon going to become intense. With labour in the coal mines now actually declining, and agriculture short of 100,000 men, a re-deployment of the male labour force inimical to building is quite probable. The problem of getting a reasonable output force labour must be solved. There are

The problem of getting a reasonable output from labour must be solved. There are several possible lines of action:

(a) An increase in the coverage of the apprenticeship and training scheme, so that a bigger proportion of craftsmen have had an adequate training. This might more than pay for itself in a year or two.

(b) The new payment by results scheme must be based on the scientific measurement of work not on some political-industrial

must be based on the scientific measurement of work, not on some political-industrial compromise over a schedule of prices. For instance, it may well be found by observers that the biggest waste of time on sites is not when men are actually at work but coming to work late, leaving early, taking lengthy tea-breaks, and so on. Output lengthy tea-breaks, and so on. Output might be improved by eliminating the causes of these periods of idle time, and payment by results should be carefully designed to this end. Extended sub-contracting might be

this end. Extended sub-contracting might be useful in conjunction with bonus payments. In "putting over" a schedule to the men, whether nationally or locally, the greatest care must be given to publicity methods. There must be no sense of grievance on any site, nor need there be if the schedules are properly drawn up and explained. But uniformity of method and application must be enforced on all employers. In other words, some substitute for the dead 56AB will have to be found. A compulsory will have to be found. A compulsory order will have to be issued on this point or, if the scheme is not compulsory, some incentive to apply it must be granted.

CONTROL OF SIZE OF FIRMS

The Government directly, or rather indirectly through the local authorities and local education authorities, controls many of the building contracts now being let. Paying the piper, it could call the tune. It should know by now whether, as seems most probable on a priori grounds, the larger firms are more efficient in labour time in putting up houses. In the war the Government, after expensive trial and error, learnt to distinguish the efficient from the inefficient contractors. This lesson should by now have been re-learnt.

The Government should therefore favour

The Government should therefore favour the giving of work to the more efficient conthe giving of work to the more efficient contractors, whether they are large, medium or small. To do this adequately a much greater centralisation at least of knowledge, and perhaps even of the actual letting, of contracts would be necessary. This would not present much difficulty, as all the necessary Government machinery now exists.

It is preposterous for the Government to take a laisser faire attitude towards the industry's internal organisation. As the biggest customer it must be interested: if it is not interested it had better stop being so

large a customer. The only hope for the efficient firms in the industry is that they should attract more work at the expense of their less efficient competitors. The Government should be quite ruthless in diverting contracts away from the high cost organisa-The technique either of a register of contractors (for contract-letting purposes), with a record against each name of its recent performances, should be circulated and/or a system of regional letting of all local government contracts should be substituted for the present unco-ordinated tendering system.

NEW METHODS OF CONSTRUCTION On this subject, too, current thinking tends to run to panaceas instead of plans. New methods of construction are not a medicine that will cure in one or two doses. They are the result of the application of They are the result of the application of sound principles to building technique. All of them need extensive and expensive field trials before being generally used; mostly a "new method" applies only to a small section of a house at a time, so that the final result depends on the architect fully-versed in the new techniques and their possibilities. But most new methods (like most old methods for that matter) will never be economic unless they are carried out, for cheap housing, on a very large scale. They need to be applied on a large scale, but at the same time recovered.

need to be applied on a large scale, but at the same time piecemeal.

Recently published papers have shown that experiments on new methods for walls and partitions have now advanced beyond the trial stage. Substantial savings on the man-hours needed for certain parts of a house are now proved to be feasible; but house are now proved to be feasible; but savings in costs will not be simultaneously possible unless the next step is takenletting of contracts for houses designed according to the new techniques on an adequate scale. Holders of patents, or of manufacturers of parts needed for the new techniques must also be prevented from charging prohibitive prices so as to exploit the present situation and defeat the objective of lowered costs: obviously they will be of lowered costs; obviously they will be economically tempted to do this as long as they have heavy overheads to cover and no guarantee of a continuous flow of orders. Thus the whole purpose of new methods, which is lowered costs, is bound up with the problem of Government planning and organisation—as long as Government is the industry's chief customer.

THE INDUSTRY'S CHANCE
A plan for the industry must not be regarded as something which an outside Government must impose on recalcitrant industrialists. The objectives of a sound industrialists. plan would plan would be better incentives for employees, but also for employers, and lower costs. Each of these three objectives may involve, it is true, resolute Government action—a compulsory order for the first, a new system of contract-letting for the second, and the deliberate encouragement of second, and the deliberate encouragement of new designs and methods for the third. But these drastic steps must be acceptable to the more enlightened and progressive forces within the industry itself. The economic crisis is indeed going to be a headache for the building industry itself, not only for the Government. The country will soon realise that it cannot afford the luxury of an old-fashioned, badly-organised, constructional industry. Possibly organised, constructional industry. Possibly exaggerated economies will be enforced unless there is a manifest improvement in technique. On this subject individual firms need to think big—it may only be the larger firms that can survive in the new conditions.

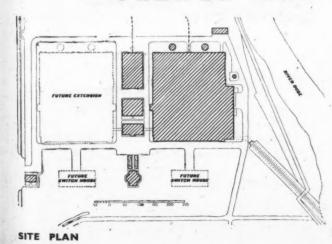
firms that can survive in the new conditions. It cannot be too often repeated that an industrial crisis in the industry may be dangerously near if its organisation, its methods of payments and its prospects are not improved. The first post-war depression might even begin with a building strike, or building unemployment, if the drift continued. Housing programmes are all very well; an industrial plan is something more complex than a "target figure," and one is urgently required.

A general view of the first unit from the north-west.

FOUR

POWER STATIONS

D E S I G N E D B Y FARMER AND DARK



It is refreshing to discover that architects are now recognized as a necessary part of the power station design team of consulting engineer, architect and civil engineer. We illustrate in the following pages four important power stations in the design of which the architects concerned have played an important part. In the case of Little Barford and Llynfi, the somewhat monumental treatment was demanded by conditions imposed by the client authorities.

I. LITTLE BARFORD

Here there will be two separate stations, one on either side of a group of subsidiary buildings common in use to both. These consist of the control building, office buildings, mess rooms, together

for the mat they pense of Governdiverting organisagister of introcess), e of its reculated, g of all be subrelinated

ction thinking of plans. It is not a so doses, ation of que. All live field mostly a a small the final y-versed sibilities. Ost old ever be out, for the thinking of the think

or walls beyond on the of a ble; but neously takendesigned on an the new exploit bjective will be long as and no orders. nethods, with the ag and at is the

t be reoutside alcitrant sound es for rs, and bjectives ernment first, a for ment of rd. But ceptable gressive itself. badly-Possibly enforced

may be ion, its ects are pression trike, or iff conall very ng more d one is

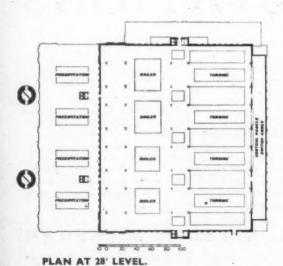
ment in

nditions. that an with lockers, lavatories and showers, workshops and stores. Centrally in front of the two stations and on the axis of the control building and gate house will be the two switch houses. In this power station the consulting engineers, Messrs. Ewbank and Partners, first introduced into this country the unit system of plant layout, i.e., one boiler and one precipitator to one turbine with each unit planned on a common centre line. The boilers were a specially encased pulverized fuel type which largely eliminated the dust problem and allowed the usual wall or screen dividing the boiler house from the turbine house to be omitted. In effect, the building becomes at operating floor one large generating house.

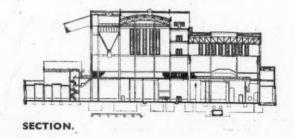
Construction is a steel frame with brick walls externally finished with hand-made golden biscuit and golden russet facings. Internally the walls are finished with white sand-lime bricks above an 8-ft. high dado of black moulded faience and turquoise coloured eggshell finished tiles at operating floor level. The operating floor is finished in black, turquoise and fawn-coloured non-slip tiles. The wells and staircases have a balustrade in wrought iron with an orange-coloured handrail.

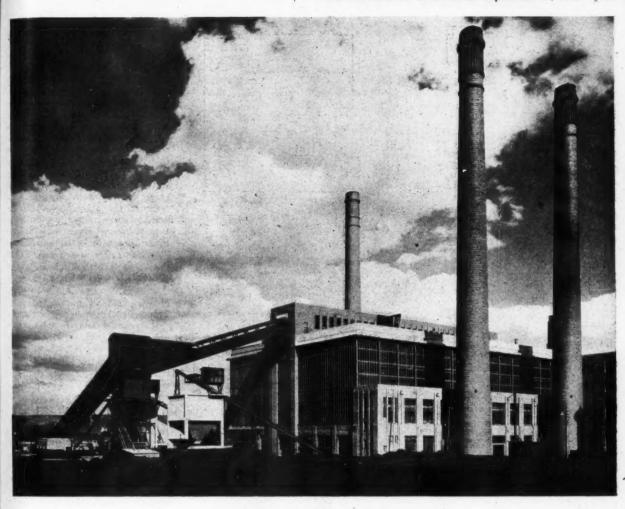
Right, a view from the north; and right, below, a general view from the north-east; the site of the future extensions is to the left.









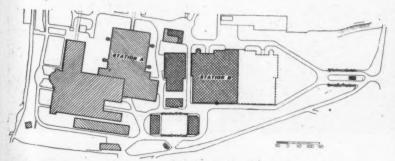


Above, a general view of station A from the north-west; bottom right, an interior view showing the generating plant.

2. STOURPORT

The original work completed by the Shropshire, Worcestershire and Staffordshire Electric Power Co. in 1925, comprises a boiler house and turbine house at right angles, to each other, with a semi-circular office block at the end of the latter. In the 1936-37 work, carried out by Farmer and Dark, the same plant layout was adopted because the additions were extensions to the old buildings. The engine room

was an extension of the steel frame and brick construction. Patent glazing was used for the wall finish of the boiler house, with glazing girts fixed 18 in. from the stan-chions and Georgian wired glass. The roof was in reinforced con-The roof was in reinforced con-crete which overhung the glazing sufficiently to allow a cradle to hang clear for washing. The water supply pipes formed the handrail to the roof balustrade.

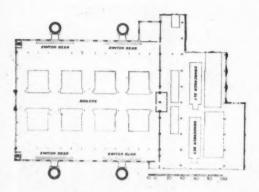


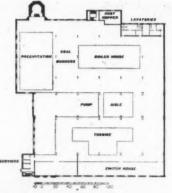




THOTAUNTS

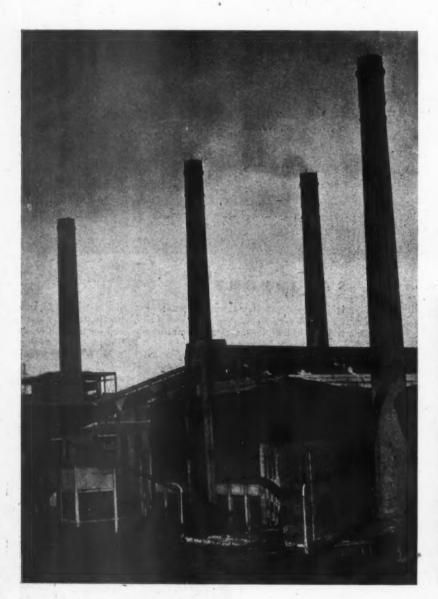
STOURPORT





STATION A.

STATION B (first half)



In 1944 designs were being prepared for station [B, which is now being built in two halves. The first half will be completed in 1948 and the other in 1950-1. The original office building in the 1924 building was obviously in the wrong place for the control of such a large plant and a new office building has been erected between stations A and B with connecting bridges to the two operating floors of the turbine houses. Behind the office building is a large block of workshops and stores serving both stations. In front of the offices is a bowling green with a recreation building comprising a lounge with a bar, billiards room and card room on the east side and a mess rooms block on the west with kitchens. The two boilers will be the highest in the country and housed in a building 127 ft. to the parapet. The boiler house is open to the turbine house and the plant layout is based on the unit system of one boiler to one turbine. The turbine house is entirely top lighted because the side opposite to the boiler house is occupied by a multi-floored annexe necessitated by the cramped site. The walls and free ceiling space are treated acoustically. The bricks used are a brindled red and all windows are painted the same colour as the lime and red sand mortar. Internally the steelwork is painted orange-red and the acoustic cover sheets in a mushroom-pink glaze on aluminium.

bo

fac

tio

ho

bo

WE

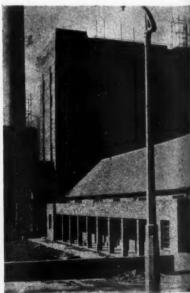
gr

ple

co di

th no ot

W



Above, left, station A, built in 1936-37, the engine room in steel frame and brick, patent glazing being used for the walls of the boiler house; right, the recreation building facing a bowling green.

3. HAYLE

pre-

ch is alves.

ted in 950-1.

in the

dy in

ontrol

a new

rected

with

twe

arbine

ilding s and . In

owling ilding

a bar,

on the

block The

est in

in a

rapet.

t lay-

The top

posite ed by

ecessi-

The are

bricks

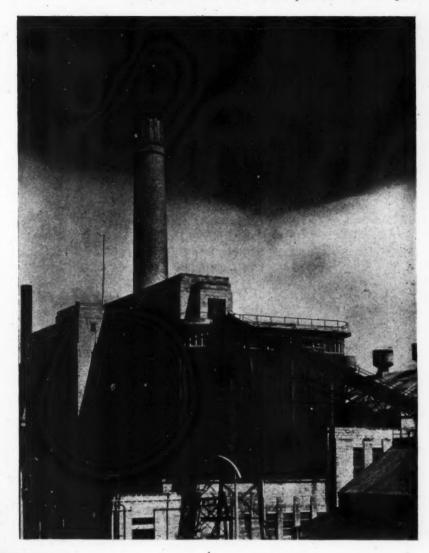
same sand lwork l the mush-

um.

om in

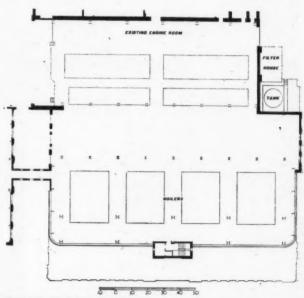
walls

The station was first commissioned in 1910 and was built of local stone. After that small additions were made each year until 1916. In 1928 the architects built a new boiler house of steel frame with concrete block walls and large factory-type windows. Stone was not used because of its cost and unsuitability for light construction, while bricks are not a local material. Larger turbines being required in 1938, the old turbine house was remodelled and a new boiler house planned, half of which was then built. The other half was completed this year. The operating floor is finished in light green tiles and the boilers and constructional steel in aluminium. A new switch house and control room building has also been completed this year, together with new mess rooms. The whole of the control room switch panels, mimic diagram panel and the control desks were designed by the architects. Considerable additions to the existing turbine house are now planned, together with another boiler house. When this work is complete, it will extend over the site of the 1928 boiler house, which will then be obsolete.



Right, the boiler house, built of concrete block walls and large factory type windens; below, a view of the interior.

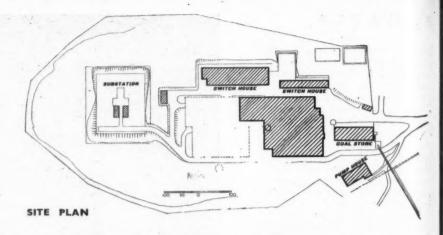




FIRING FLOOR PLAN

3. HAYLE

The turbine house extensions will be a steel-framed building with concrete block walls and large windows. The roof will be a concrete flat and not an extension of the original light steel truss roof with partial glazing. The boiler house will be similar, but larger than that recently completed, and the internal finishes throughout will be the same.



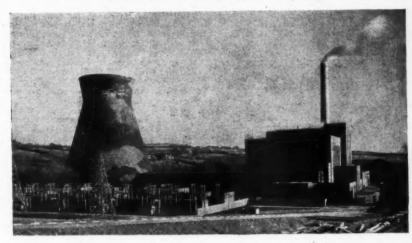


Above, a general view from the south, the new buildings will extend over the site of the 1938 boiler house on the left, and are shown dotted on the site plan at the top of the page. Right, a range of transformers.

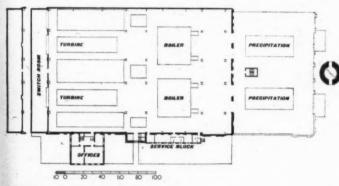


4. LLYNFI

The station layout is the same unit system plant as used at Little Barford power station. Site conditions determined a different scheme for the subsidiary buildings and the offices and mess rooms were annexed to the main building. This station was erected during 1942-3 and electricity was being generated nineteen months after the arrival of the contractors on the site. Apart from the building of the station, much levelling had to be done and all embankment, bridge, roads and sidings constructed. The walls are of brick

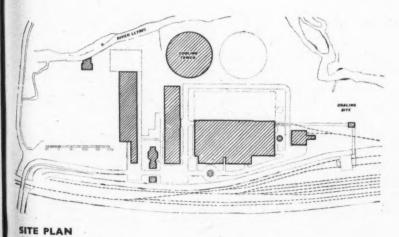


Above, a general view from the west. An extension is planned to be built between the cooling tower and the building on the right; bottom, the west side of the main building; the offices are housed in the three storey projection.



PLAN AT 28 FT. LEVEL









Speeches and lectures delivered societies as well reports of their activities, dealt with under this title. which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front Except where inverted cover. commas are used, the reports are summaries, and not verbatim.

RIBA

Examinations

RIBA Final Examination, July, 1947. Held in London, Edinburgh, and Belfast from July 2 to 11, 1947. Of the 212 candidates examined, 101 passed as follow:

Passed whole examination, 48; passed whole examination, 48; passed whole examination.

examination, subject to approval of Thesis, 28; passed whole examination, subject to 28; passed whole examination, subject to approval of remaining Testimonies of Study and Thesis, 2; passed whole examination, subject to approval of remaining Testimonies of Study, 2; passed Part 1 only, 21; 111 candidates were relegated. The successful candidates are as follows:—

Whole Examination
Adams, Ernest G. Y., Dartford (distinction in Thesis); *Alden, Marguerite Y. (Miss), Oxford; Allen, Frances E. (Miss), Hassocks (distinction in Thesis); Barry, Patrick H., Bristol; Bartholomew, Victor G., London; *Bates, Jack, Leicester; †*Baxter, Kenneth M., Manchester; *Beard, Geoffrey J., Great Missenden; Bellamy, Ivan M., Strood; Bishop, Lloyd J., Haywards Heath; Boddington, Geoffrey D., Chelford; Bordoli, Maurice R., Leicester; Bowes, Joseph, Manchester Whole Examination R., Leicester; Bowes, Joseph, Manchester (distinction in Thesis); Brewins, Cyril D., Wakefield; *Brewster, Kenneth A., Norwich; Wakefield; *Brewster, Kenneth A., Norwich; Brooks, Emily K. (Miss), London; Brown, James, H. C., Manchester (distinction in Thesis); Buckler, Derek, Gillingham; *Busbridge, Pauline (Miss), Worsley (distinction in Thesis); *Chessum, Brian C., London; *Clarke, Arthur D., Margate; Coughlan, Neville G., Newcastle-under-Lyme; Cox, Neville H., Halifax; *Craig, Cameron N., London; †Day, John B., Bristol; Drinkwater, Norman, Plymouth; Eckersley, Henry, Nottingham; Farrar, John, Blackpool; Forth, Harold, Harrow; Fletcher, Dorothy M. (Miss), Stockport; *Frost, Fergus H., Bristol; Fury, Ronald W., London; *Gardiner, Mary V. (Miss), Oxford; *Hall, Frederick E., Pres-

ton; Hargreaves, Harry, London; Hartley, Thomas C., Nelson; Hayes, Thomas R., Nottingham; Horton, Ronald W., York; Howard, Albert V., Leicester; Hughes, Arthur G., Wembley; *Lawson, John B., Chichester; *Lowden, Douglas J., Dalkeith; *Magson, William, Bluth, Mitchell Negroup, B. Bell, Mitchell Negroup, B. B. Wembley; *Lawson, John B., Chichester; *Lowden, Douglas J., Dalkeith; *Magson, William, Blyth; Mitchell, Norman B., Belfast; Norfolk, Derek E. W., Brighton; †*Nullis, Norman C., Westcliffe-on-Sea; Nurse, Cecil R., Bristol; *Patten, Ronald A., Thundersley; *Pearcy, Douglas, Billericay; *Pearson, Gerald M., Preston; Pepperell, David G., Bristol; *Pert, Keith G., Bangor, North Wales; Platt, Geoffrey P., Manchester; Pollitt, Eric, Wallasey; Poole, Ralph S., London; Price, Arthur G., Rhondda; Prichard, Victor H. S., West Monkton; Quickenden, Anthony M., London; *Roscoe-Hudson, Alan, Cheltenham; *Sanderson, Willie H., Exeter; Schwartzel, Stanley H., London; †Searle, David O., London (distinction in Thesis); *Sherret, David, Glasgow; *Sherwood, Arthur D., Manchester; *Shuttleinction in Thesis); *Sherret, David, Glasgow; *Sherwood, Arthur D., Manchester; *Shuttleworth, Herbert, Manchester; *Smith, Haydn W., Oldham; *Sowerby, John G., Darlington; Tallet, Margaret (Miss), Walton-on-Thames; Thornton, Frederick, Wakefield; *Tomlinson, Sydney G., Exeter; Tucker, Ernest F., Plymstock; Vere, Stanley, Birkenhead; Versino, Andrea G., London; *Vincent, James L. S., Liverpool; Vine, Sidney, F., Hailsham (distinction in Thesis); Watson, Alexander, Edinburgh; *Wickham, James H. D., Bristol; *Wilson, James A., London; Wood, Cyril R. M., Belfast; Woods, Roy, London. Part 1 only
Alton, Jack P., Birmingham; Bance, Roy

Part 1 only

Alton, Jack P., Birmingham; Bance, Roy E. K., Sunbury-on-Thames; Bennis, David, Hove; Blockley, Leonard H., Shelford; Carman, John R. W., Nottingham; Chandler, Leslie, Portsmouth; Chitty, Howard J., Farnham; Curtis, John, Burton-on-Trent; Davies, Frederick C., Crediton; Driver, Margaret E. P. (Miss), Plymouth; Hutchings, Lois M. (Miss), Surbiton; Jacob, Christopher H., Dublin; Jhabvala, Cyrus S. H., London; Jopling, Victor T., London; Roberts, Jack, Livering, Plack, Plack, Livering, Plack, Plack, Plack, Livering, Plack, Plack Dublin; Jhabvala, Cyrus S. H., London; Jopling, Victor T., London; Roberts, Jack, Liverpool; Sherman, Madeline M. (Miss), Seven Kings; †Thorne, George E., London; Watson, Douglas H. R., Shortlands; West, John C., Gloucester; Whitney, James S., Paisley; Woodcock, George F. H., Southsea.

The Special Final Examination, July, 1947.

Held in London, Edinburgh, and Belfast from July 2 to 11, 1947. Of the 320 candidates examined, 134 (30 in Part 1 only), passed; 186 candidates were relegated. The successful candidates are as follows:—

Whole Examination

Whole Examination
Anderson, Robert, London; Bancroft,
Bernard, London; Barbary, Peter J., Cornwall; Barrell, George W., Sutton; Barrow,
William L., Bristol; Beech, Geoffrey C.,
Sutton; Betts, Joseph H., Eastbourne; Bidmead, Rowland J., Stafford; Brown, James,
Bristol; Brown, Thomas, Greenford; Burbridge, Kenneth D., Claygate; Butler-Bowdon, Anthony W., London; Carver, Owen P.,
London; Cavanagh, Edmund J., Oxford; bridge, Kenneth D., Claygate; Butler-Bowdon, Anthony W., London; Carver, Owen P., London; Cavanagh, Edmund J., Oxford; Clarke, Edward A., Cirencester; Conway, Leslie J., London; Cook, Claude O. J., Brighton; Cooper, Lyndon C., London; Cowan, William, Strathpeffer; Crocker, Montague E., Bristol; Crowther, John, Ilford; Date, Patrick, Banstead; Dickson, William R., Motherwell; Dixon, Arthur A., Edinburgh; Double, Robert J., London; East, Francis J., Nottingham; Evans, Cecil W. T., London; Everett, Alan G., London; Faulkner, Petrick A., Crawley; Furbank, Ronald E., Clacton-on-Sea; Fox, Leslie P. J., Edenbridge; Garrett, Rodney C., Hassocks; Gates, Albert G., London; Gomersall, Eric, Chester; Greatrex, Rolland I., London; Griffiths, Charles L., Birmingham; Grimes, James W. P., Richmond, Surrey; Harvey, Eric, G., Barry; Haydon, George C., Norwich; Henderson, John E., Juniper Green; Hepworth, Arthur J., London; Hollingworth, Harry, Dukinfield; Johnson, Frank P., Chester; Kidall, Joseph M., London; Knight, Victor C. H., Fleet; Leach, Robert H., Birm-

ingham; Leary, Patrick J., St. Leonaton-Sea; Lees, William P., Uttoxet, Leopard, Gordon C., Whitchurch, Glain.; Lewis, Hubert R., Ilford; Locke, George S. K., Nottingham; Lockerbie, James N., Edinburgh; Lusty, Raymond, C., Farnham; Malkin, Henry F., London; Mann, Maurice J., London; Marinier, Hildyard V., Orpington; Mason, Frank L., London; Matthews, Leslie B., Hove; Miller, Eric V., Cheltenham; Mimmack, Maxwell A., Faffield Co. Durantick, Maxwell A., Faffie J., London; Marinler, Hildyard V., Orpington; Mason, Frank L., London; Matthews, Leslie B., Hove; Miller, Eric V., Cheltenham; Mimmack, Maxwell A., Fatfield, Co. Durham; Morley, Leslie, Middlesbrough; Mort, William I., Wrexham; Muirhead, William, Falkirk; Neale, Peter W. J., Birmingham; Neil, Robert, Bushey; O'Neill, Vincent H., Dublin; Panditratne, Andreas, Ceylon; Parkinson, Leslie E., Newport, Isle of Wight; Parsons, Howard C., Yetton; Paul, Ernest H., Oxford; Pearson, John H., Middlesbrough; Pethybridge, Robert E., Goffs Oak; Pomfret, Arthur, Macclesfield; Pope, David T. B., Woodford Green; Powell, Patrick J. L., Oxford; Power, Alan J., Hertford; Purnell, Norman K., Purley; Ramsay, James, Surbiton; Sawyer, Peter R., Winchester; Sheffield, Frank C., Upminster; Shepherd, Alexander, Auchtermuchty; Smee, Gordon E., Portsmouth; Smith, E. Watson, Durham City; Soulsby, George E., Maidstone; Southey, Frank L., Cheam; Stansfield, John C. O., York; Stark, Ivan A., Winlaton; Stronach, Elsbeth F. (Miss), Hounslow; Stroud, Harry A., Cheam; Swift, Stanley, Leamington Spa; Symes, John J., Newport, Van der Steen, J. W., Barnet; Venvil, Brian F., Cambridge; Vernon, Russell G. D., London; Vint, George B., London; Walker, Denis V. C., London; Ward, William M., Manchester; West, John C. P., Welwyn Garden City; Whiffen, Robert F., Camberley; Wigley, Ronald R. D., Enfield; Williams, John S., Manchester; Williamson, Stephen S., Bridport; Wilson, James H., Warrington. Part 1 only

S., Bridport; Wilson, James H., Warrington. Part 1 only
Barns, Kenneth W., London; Belam,
Horace G. B., Croydon; Beesley, Sidney,
North Cheam; Bellamy, Alfred J. S., Beeston,
Notts.; Bird, Kenneth J., Norwich; Boak,
James L., Perth, Scotland; Boyt, Dennis F.,
Reading; Brown, Reginald J., London;
Crammond, Maurice M., Shenfield; Elmer,
Joseph H., London; Gasson, Arthur J., West
Wickham: Hanchet Sidney L. London; Joseph H., London; Gasson, Arthur J., West Wickham; Hanchet, Sidney J., London; Hannaford, Avro F. J., London; Hodnett, Alfred Ernest, London; Hunt, Douglas, London; Kane, John R., London; Kenshole, James H., Cardiff; Kinsman, Sidney J. C., Bracknell; Langston, Albert H., London; Little, John, M. D., London; Lovegrove, Cyril E., Brighton; Luck, Leslie L., Fareham; Rowling, Alfred C., Stanmore; Russell, Charles S., Coventry; Stacey, Stephen L. G., Beckenham; Stent, John A., Cambridge; Summers, Robert E., London; Whitehouse, Joseph D., Manchester; Wilcox, Harold, Walsall; Young, Kenneth M., Perth, Scotland.

The following candidates have also passed the Special Final Examination:—

Beresford, Jack, Doncaster; Chapman,

the Special Final Examination:—
Beresford, Jack, Doncaster; Chapman, Charles W. E., Enfield; Graham, Robert M., London; Knott, Ronald F., London; Makins, Thomas K., Emsworth; Matthews, Gordon E., Eastbourne; Nicholas, Sydney E., Northolt; Powell, Patrick T., Coventry; Raynham, James E., Rochester; Slater, John M., St. Albans; Tyler, Richard M. T., London; Whitelaw, Alexander R., Glasgow; Williams, William T., London.

The Examination in Professional Practice for Students of Schools of Architecture recognitions.

for Students of Schools of Architecture recog-nized for exemption from the RIBA Final Examination. The Examination was held in Edinburgh on July 8 and 10, 1947. Of the 16 candidates examined, 11 passed and 5 were relegated. The successful candidates are as follows:

Borland, Marjorie K. (Miss); Buchanan, Alexander M.; Cina, Alan J.; Doak, Archibald M.; Elborn, Arthur J.; Robertson, Robert M. K. C.; Torrance, Hugh D. B.; Wallace, Kenneth G.; Watson, Alexander, R. S.; Wheeler, Harry A.

^{*} Subject to approval of Thesis. †Subject to approval of remaining Testimonies of Study.





Top, the entrance from the south; bottom, the north front.

et. ain.; corge N., ham; .12.

urice pingnews, Dur-Mort, liam. ham; t H., Parklight; rnest Idles-Oak; David J. L., rnell, urbiffield, nder, Ports-City; they, O., nach, roud, eam-port, Brian

Brian
. D.,
alker,
alker,
Garerley;

iams,

ephen igton. elam, dney,

Boak, is F. ndon; lmer, West ndon;

dnett, uglas, shole, ndon;

grove, Fareussell, L. G., ridge; house, , Waland. passed pman, ert M., lakins, ordon Nor-Rayn-

n M., ondon;

lliams,

ractice recog-

Final reld in

Of the

5 were

are as

hanan,

Archi-ertson,

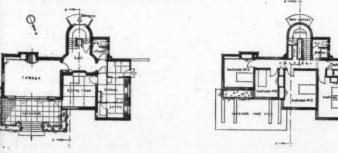
K. C.; eth G.; arry A.

HOUSE

MUTHAIGA, NAIROBI

BY BLACKBURNE AND NORBURN





GROUND FLOOR PLAN

FIRST FLOOR PLAN

The site slopes down steeply from south to north. To meet the client's requirement that the house should have four bedrooms all taking advantage of morning sun and to avoid a great deal of underbuilding, the bedroom plan was evolved first and the ground floor rooms arranged under. Walls are stone, the floor, slabs and beams reinforced concrete and the wood flat roof is covered with bituminous sheet. Windows are metal. There are hardwood joinery and wood block floors. External walling is distempered cream, and the fascia, windows, etc., are painted blue.

TECHNICAL SECTION

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

INFORMATION CENTRE

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

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

4.23 planning: urban and rural MIDDLESBROUGH SURVEY

The County Borough of Midlesbrough Survey and Plan. Directed by Max Lock. (The Middlesbrough Corporation, Yorkshire, 1947, 25s.)

Limited edition of full report of Middlesbrough survey and planning proposals. First scheme to be published based upon methodical and comprehensive survey. Important contribution to study of survey methods and technique in urban areas, demonstrating advantages of well co-ordinated teamwork among planners, architects, sociologists and geographers. Magnificently produced and fully illustrated.

The various fields of survey and planning cover the following aspects.

General Survey and plan: Commercial. General Survey and plan: Commercial, social and administrative background. Physical structure. Existing town planning schemes. Land use as existing and proposed. Land values and ownership. The outline master plan and its implementation. Geographic and economic background: Major physical features. Mineral resources. Regional land use. Spheres of influence of Middlesbrough.

Industry: Local and national importance. Occupational structure. Production. Dock trade. Proposed industrial sites.

Transport network and acces-Transport: sibility. Regional road and rail system as related to Middlesbrough. Traffic flow

related to Middlesbrough. Traffic flow within the Borough. New road proposals. Neighbourhood structure: Household survey. Catchment areas of institutions. Location of social services. Special study of Council Estates. Determination of neighbourhoods. Proposed neighbourhood services. Proposed population density.

Housing: Blight factors. Housing types. Rateable value and ownership. Redevelopment proposals.

Open spaces: Regional amenities. Location of all kinds of open spaces, including allotments. Existing deficiencies. Proposals relating to required new standards and for permanent zoning of open space.

permanent zoning of open space.

Education: Present location of schools.

Size and recreational facilities. Catchment areas. Proposals related to the new Act.

Health and public utility services: Location of existing services. Vital statistics. Infant welfare. Atmospheric pollution. Sewerage, drainage, gas, water, and electricity.

Retail trade: Present location of shops and shopping centres. Relative prosperity. Catchment areas of shops including regional delivery. Proposals for regrouping of shops.

Detailed proposals for typical neighbourhoods: Town centre. Central, inner suburban, and outer suburban neighbourhoods.

The report ends with three interesting
appendices giving further details in rela-

tion to the industrial and social surveys, and discussing some special aspects of retail distribution in the town.

13.14 materials: timber B.S. RELATING TO TIMBER

Timber Information Leaflet No. 31. List of British Standards relating to Timber and Wood-working Accessories. (Timber Development Association.)

Complete list of all B.S. relating to timber, its treatment, derivatives, and woodworking accessories. Includes reference to about 120 Standards. Useful for reference

15.10 materials: applied finishes treatments **COLOURING WOOD**

Colouring Wood, by K. E. Marsden. (Wood, May, 1947.)

Description of four methods of colouring wood, together with examples of suitable materials for each. Sources of supply for the materials given.

A concise account of colouring wood (a) together with filling materials; (b) by staining processes; (c) by dyeing processes; (d) by the use of oil and spirit varnishes. Information is given on suitable fillers and dyes, and the names of manufacturers are given.

There is little indication of the final appearance of timber treated by these methods, but the information given would be a useful guide for experiment.

18.7 construction: theory DOMESTIC STRUCTURES

The Structural Sufficiency of Domestic Buildings: David V. Isaacs. (Bulletin No.

Department of Works and Housing Commonwealth Experimental Building Station, June, 1946, North Ryde, Sidney, N.S.W.)

Data on loading, deflections and stresses. Recommendations for a code of structural sufficiency.

This booklet attempts to establish basic data on a scientific basis for the design of domestic buildings. It is correctly stated in the introduction that from the point of view of structural stability current specifications are quite inadequate to deal with the prob-lem of construction for housing. This is of particular importance in connection with "unorthodox" types of structure. Part A examines some available codes and

Part A examines some available codes and then develops a logical series of floor loadings and limitations of deflection for Australian use. It contains an interesting analysis of various types of loading, e.g., foot traffic loads, crowd loads as caused by domestic assemblages of people, semi-fixed loads such as given by tables, bookcases, pianos and other heavy furniture, occasional moving loads, etc., and their combinations. For the purpose of practical design, the idea of "effective" loading is introduced, which is an evenly distributed full span load equivalent in its effect to a partial-span loading applied over a limited area. In the case of a floor consisting of joists at certain spacof a floor consisting of joists at certain spacings, the effective load recommended varies greatly with the spacing and the span. The value of 30 lb./sq. ft., adopted in the British Standard Code of Practice CP 4:1944, Chapter V (see No. 1776:1.2.45) is only Chapter V (see No. 17/0:1.2.43) is only applicable if the span and/or the spacing is sufficiently large, for smaller spans or spacings, higher "effective" design loads are suggested. The probable duration of loads are suggested. suggested. The probable duration of loading, essential in the case of materials like timber, is also to be taken into account.
This is done by allowing in such materials higher working stresses for live load than for dead load.

With regard to deflection, the main consideration hitherto has been the avoidance of cracks in the ceiling. The Australian Report starts from a different angle, it wants to avoid discomfort to the occupiers of the house. This may consist of discomfort to the walker, discomfort to persons on adjacent areas of the floor, and discomfort to the ear as caused by rattling of furniture and crockery. The Report arrives at the conclusion that the ratio deflection: span should not exceed 1/600, which is a much more severe requirement than the ratio of 1/325 usual in this country. There are many cases where a floor has ample safety against loading but does not comply with the deflection

where a floor has ample safety against loading but does not comply with the deflection requirements as specified in the Report.

Further parts of the Report deal with live loading and limiting deflections for domestic roofs, walls and foundations, wind loadings on domestic structures, working stresses and test loadings. The results of the various investigations are summarized in a Recommended Code of Structural Efficiency. In an Appendix approximate formulæ for the lateral distribution of localised loading are given.

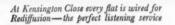
The very thorough Report deserves the attention of all concerned with the structural design of domestic buildings.

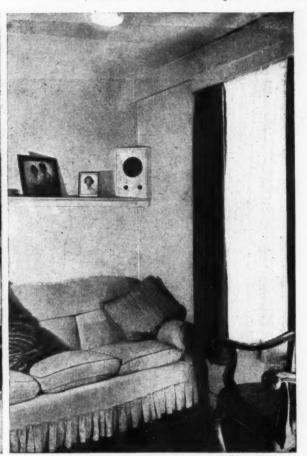
20.35 construction: complete structures

PRECAST R.C. TWO-STOREY HOUSE The B.C.C.F. System of Two-Storey House Construction. (Leaflet issued by the Cement and Concrete Association.) See also "The

Builder," August 8, 1947, and other journals. Precast framed building. Framing consists of columns two stories high, wall beams, eaves beams. Outer skin of precast concrete

This system of construction was devised by the British Cast Concrete Federation (B.C.C.F.). A prototype pair of houses was erected at Sandy Lane, Prestatyn, Flintshire. Illustration.





No radio set is needed—loudspeakers are mounted neatly in the wall

Perfect listening-by private wire

RESIDENTS of Kensington Close, one of London's modern blocks of service flats, require no radio sets, yet they enjoy perfect listening. Every flat is wired for Rediffusion—the service relaying B.B.C. programmes direct from the studio by private wire. There is no warming up or tuning to worry about; and reception is always crisp and clear—free from all distortion, fading and interference.

Even before Kensington Close was built, architect and radio engineer planned together to install this perfect listening service. Rediffusion engineers then arranged to relay programmes by wire; and the architect planned and installed the internal wiring. Loudspeakers—the only equipment needed for direct-wire reception—were chosen from a wide range of models to suit interior design. They can be supplied as panels for the wall or ceiling, or as special units for mounting in built-in furniture.

Architects who are interested in details of the Rediffusion service are advised to contact our London office during the early stages of planning. Full co-operation will ensure perfect listening in the modern home.

REDIFFUSION

now serves the following towns:

ABERTILLERY, BANGOR (CO. DOWN), BARGOED, BARROW, BESTON, BLACKFOOL, BREITOL, BROADSTAIRS, CAERPHILLY, CWMCARN, DARLINGTON, EXETER, FLEETWOOD, GATESHEAD, GOSPORTH, HEBBURN, HULL, JARROW, KENDAL, LANCASTER, LONDON*, MAIDSTONE, MARGATE, MERTHYR, MORECAMBE, NEWCASTIE, NEWPORT (MON.), NORTH SHIELDS, NOTTINGHAM, PLYMOUTH, PRESTWICH, PONTYPRIOD, PONTYPOOL, RANGOATE, RHONDDA VALLEY, ROCHDALE, ROTHERHAM, ST. HELENS, SALTAIH, SOUTH SHELDS, STRETFORD, SUNDERLAND, SWANNEA, WALLASEY, WALLEND, WHITLEY BAY, WOLVERHAMPTON. Also in MALTA and TRINIDAD. *Special services to flats and hotels.

BROADCAST RELAY SERVICE LIMITED

Carlton House, Regent Street, London, S.W.1 (Whitehall 0221)

Iousing Building Sidney,

stresses, ructural

h basic esign of tated in of view fications e probnis is of on with

des and or loadon for leadon for teresting ng, e.g., used by mi-fixed ook cases, casional nations, the idea l, which in load an load-the case

in spacd varies n. The e British 4:1944, is only acing is or spacads are

ads are
of loadials like
account.
naterials
ad than

roidance ustralian ngle, it ccupiers discomsons on comfort urniture the conna should ch more of 1/325

ny cases
nst loadeffection
oort.
with live
domestic
loadings
sses and
rious in-

Recomcy. In for the ding are

rves the tructural

HOUSE
TO House
Cement
The
journals.
consists

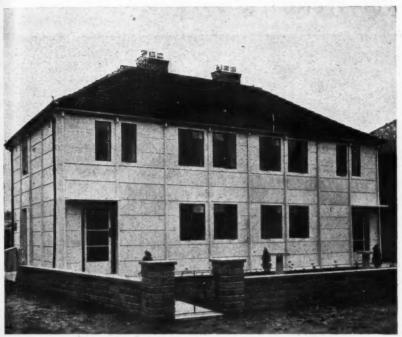
beams, concrete

evised by ederation uses was lintshire.



BRANCHES AT: — ABERDEEN · BRIGHTON · BIRMINGHAM · BRISTOL · CARDIFF · DUNDEE EDINBURGH · EXETER · GLASGOW · HIGH WYCOMBE · HULL · LEEDS · LIVERPOOL · LONDON MANCHESTER · NOTTINGHAM · NEWCASTLE · PLYMOUTH · PORTSMOUTH · SQUTHAMPTON





The B.C.C.F. two-storey house. See 20.35

The T-shaped columns, spaced at 5 ft. 6 in. or 6 ft. centres, are provided with brackets for seating the wall beams at first floor level and with a projection at the top to accommodate the eaves beam unit. The standard wall panels are 1½ in. thick with 4 in. flanges all round and fit horizontally between, and into the rebated sides of the columns. The horizontal joints are weathered and jointed in mastic. The inner lining of the external wall may be of 3 in. light weight concrete blocks or wood wool slabs plastered, with an air space between them and the external lining. The party wall is accomplised. lining. The party wall is normally of concrete block, cavity construction, the partitions are of 3 in. and 4 in. light weight concrete blocks.

The first floor may be of normal timber construction. Lateral stiffness is provided by bolting the end of a joist to each column in the longitudinal walls. The roof may be in the longitudinal walls. The roof may be pitched or flat, either timber or concrete. The system allows flexibility both in planning and in the use of materials. From the experience gained at Prestatyn it is estimated that 5 men working 8½ hours per day would erect the precast units of 3 mars of houses in 465 men hours are located.

pairs of houses in 465 man hours, exclusive of supervisor's time.

24.39 lighting EYE DISCOMFORT: BLINKING

The Blink-rate and Ease of Seeing. M. Luckiesh, S. K. Croth and M. A. Eastman. (Illum, Eng. [USA], May, 1947, p. 585).

Defence of validity of test method. Specialist interest.

Luckiesh and his co-authors have used blink-rates as a measure of discomfort. Others have used them and there have been some criticisms of the Luckiesh methods. The paper defends them.

24.40 lighting COLOUR MATCHING

Changes in Hue, Lightness, and Saturation of Surface Colours in Passing from Daylight to Incandescent Lamplight. H. Helson and J. Grove. (J. Optical Soc. America, May, 1947, p. 387.)

Effect of different coloured light sources

on colour viewed against black, gray and white backgrounds. Two invariant hues observed. Specialist interest only. Graphs.

Munsell samples were viewed under incandescent and daylight against gray, black, and white backgrounds. Hues containing red and blue become redder in incandescent and blue become redder in incandescent light, while hues from purple-blue to yellow-red shift towards reddish-yellow. Two invariant hues (i.e., colours which do not appear to change) were observed with all backgrounds. Greatest shifts occur against black, least against white.

24.41 lighting LIGHTING: INFLUENCE ON DESIGN

Light and Form. J. C. Kromhout. (Illum. Eng. [USA], May, 1947, p. 545.)

Discussion of work and attitudes of lighting engineer and architect. Interesting. Illustrated. 11 photographs.

This paper is primarily addressed to lighting engineers to indicate to them the nature of the interests and competences of the architect, and to suggest how lighting engineers can better fit themselves to serve the needs of building designers. Surprisingly, it does not reflect current American interest in brightness ratios as the basis of design, and in ignoring these it falls back upon the time-worn "values" of light in helping to "model space, to define its flow and rela-tionships." There is no suggestion that the requirements of vision dictate the ways in which light can be used. At the same time it raises the important point that lighting engineers and architects should organize a joint attack upon such problems as how lighting conditions affect behaviour and moods, and should carry out analyses of significant systems. These and other useful suggestions are made for study, and might quite usefully be kept in mind over here.

25.33 water supply and sanitation FACTORY AND TRADE WASTES

The Drainage of a New Industrial Estate. H. F. Bryant. (Journal of the Royal Sanitary Institute, July, 1947, Vol. LXVII, p.

Trade effluent problem and sewer design. Summary of legal position under Public Health (Drainage of Trade Premises Act), discussion of desirable extent of conditions to be imposed by local authority. Method of estimating effluent quantities for sewer design, based on actual survey of existing industrial area in Leicester. Tabulated statistics of effluent discharge from varied trades.

TECHNICAL SECTION

A survey of an existing factory area in Leicester established that the amount of trade effluent discharged into the sewers per 20,000 square feet of factory floor area could vary from 11,000 gallons an hour from a brewery to almost negligible quantities from some "light" industries; trades like bulk dairies and canneries may give even larger flows, which are, furthermore, very difficult to treat at the sewage works. A basic problem for the planner in zoning an industrial area is therefore that of drainage of effluents, both in relation to existing age of effluents, both in relation to existing sewers and disposal works, if any, and also the magnitude of new sewerage required. This problem is often left to a late stage, with resulting difficulties. This paper is important as an attempt to arrive at a method of estimating probable flows of trade wastes from a basic of observed facts. wastes from a basis of observed facts. Measured discharge figures for about forty industries are tabulated, and the author arrives at an overall discharge figure of 0.063 arrives at an overall discharge figure of 0.063 cusecs per acre of trade waste from the industrial area investigated. He considers that this figure can safely be applied to sewer design for new industrial estates in the same district, and suggests similar surveys of existing industry where new industrial estates are contemplated in other areas. His account of the Leicester survey is preceded by a useful and balanced discussion of the legal position and the control policy to be exercised by local authorities

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,

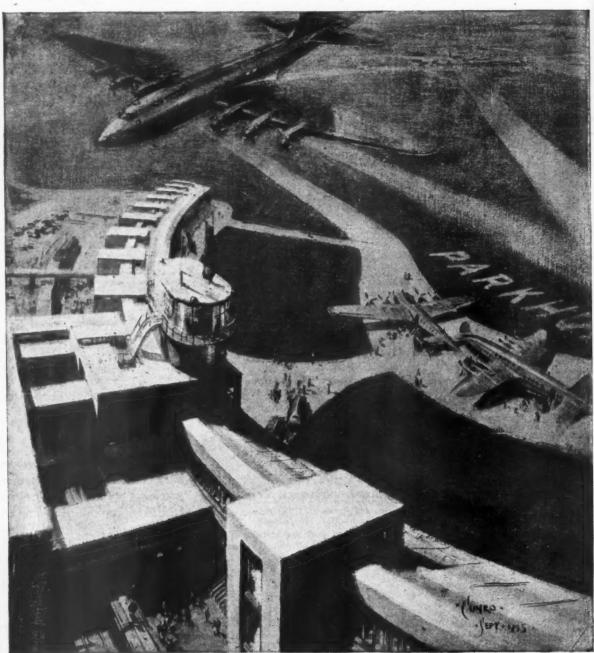
OUESTIONS AND ANSWERS

2910 CLEANING BRICK FIREPLACE

Q Can you advise me as to the best method of removing from a brick fire-place blackening caused by smoking. In a house which I am at the moment redecorating there are two fireplaces so affected by years of smoking.

A The most satisfactory method of doing this would be by a mechanical steam process, but unfortunately it might not be possible to get the apparatus into a domestic house. An alternative is carefully to take out and reverse the discoloured bricks. The danger here would be that the surface of the bricks which are built into the wall might become damaged in removing them. other alternative would be to wash the bricks down with a hard brush and a little soap or a fine abrasive such as carborundum powder or ground cinders. Soda or other similar chemicals should not be used as these would cause discoloration and efflorescence in the brickwork. Care must be taken with this last method to preserve as far as possible the surface of the brickwork.

Building the Post-war World . . .



Aerodromes

a job for TAYLOR WOODROW

CONTRACTS RECENTLY COMPLETED AND IN HAND • PHŒNIX (Mulberry) PREFABRICATED HARBOURS • F.I.D.O. SCHEME FOR AERODROMES • AERODROMES • UNDERGROUND STORAGE TANKS • OPENCAST COAL MINING • PENICILLIN FACTORY • DEEP SEWERS (Tunnel and Open Cut) • RAILWAY SIDINGS • BRIDGE RECONSTRUCTION • POWER STATION EXTENSIONS

TAYLOR WOODROW CONSTRUCTION LTD. Head Office and Works: Ruislip Road, Southall, Middlesex 'Phone: Warlow 2366. 'Grams: Taywood, Southall. Code: Bentley's Second. London Office: 10 Park Street, W.1. 'Phone: Grosvenor 4617

Whatever cuts in the building programme the Government decides to make, August 1947 marks a turning point. How will this turning point be reflected in materials' prices? Will not a slowing down, and reduction, of building activity result in lower prices? These and other problems are discussed in

A New Index Number

of Building Materials'

PRICES

No. 6

[by Ian Bowen]

THE INDEX NUMBER AT AUGUST, 1947

The index number for the middle of the third quarter of 1947 has now been calculated. The average of the price quotations of the 44 Building Materials covered by the Index, weighted according to peace-time usage, stood at 200.7. Thus, for the first time, the statement that "materials have doubled in price since before the war" is statistically justifiable even in terms of price statistically justifiable, even in terms of price quotations

The Index has moved as follows since the

end of the war:

617

,		Index (Aug., 1939 = 1	.00)	Number of points increase on previous quarter
1945—Quarter	3	160·5 164·2	1	+ 3.7
1046	1 2 3 4	167 · 6 170 · 2 178 · 8 180 · 7		+ 3·4 + 2·5 + 5·6 + 4·9
1947— ,,	1 2 3	183 · 5 197 · 2 200 · 7		+ 2·8 +13·7 + 3·5

The rise in prices between May and August was considerably smaller than the rise which took place in the previous quarter, but the rate of increase since the beginning of this year was nevertheless still greater than at any time after 1940. Steep advances in the prices of imported timber and of paint were mainly to blame for the enormous increase in the second quarter. These materials have shown no further rise since May. The prices of the ballast and gravel group, however, which rose by over 10 per cent. between Febmary and May, have risen again between reary and May have risen again between May and August by some 5 per cent. The cement industry, which lowered its price at the end of last year, has felt itself obliged to restore half of the cut. The price restore half of the cut. The price machine-made tiles has jumped by

21 per cent., and a similar rise took place in the price of manhole covers. There have also been small increases in the prices of roofing slates, steel wood screws, slow combustion stoves and tubular bends

The relatively small advance in the Index between May and August cannot, in fact, be taken as indicating that the rise in materials prices is beginning to flatten out. Increases in the price of fuel and in haulage rates, soon to come into force, will exert an upward pull on the prices of manufactured materials and of those with freightage costs forming a large part of the price.

ANALYSIS OF PRICE MOVEMENTS BY GROUPS OF MATERIALS

For studying the past trends and possible future movements of prices, it is convenient to analyse the Index into groups of materials. Group I consists of products that are mainly

imported, or contain imported raw materials (e.g., timber, paint and linseed oil putty).

Group II is a class of metal products, such as steel, cast-iron pipes, lead piping, baths,

as steel, cast-iron pipes, lead piping, baths, locks and tanks.
Group III includes all quarried products, in which the main ingredients of cost are labour and transport (gravel, ballast and sand, etc.).
Group IV is a large class of clay and quarry products worked up into primary building materials, such as bricks, cement, salt-glazed pipes, sanitary ware and glass.
The weighted average index number for each of these groups in the first three quarters of 1947, as compared with August, 1945, is as follows:—

as follows:

(August, 19	45=100)		
	Quarter	Quarter	Quarter
	I	II	III
I. "Imported" products II. Metal products III. Quarried products III. Primary materials	141·0	175 · 5	175·5
	124·9	127 · 3	129·3
	114·8	-125 · 1	131·5
	101·1	100 · 8	102·6
Average of all materials	114-1	121 · 5	123 · 6

"Imported" products are having a breathing-space after their big rise between the first and second quarter. The steepest rise first and second quarter. The steepest rise is shown by "quarried" products with an advance of 14.5 per cent. over Quarter I,

and metal products follow with 3.5 per cent. Primary materials, having remained fairly steady for over 18 months, have perhaps now recommenced an upward trend.

MOVEMENTS IN PRICES SINCE 1939

Taking our base at August, 1939, instead of 1945, the prices of the four main groups of materials have moved as follows in the first three quarters of 1947:

(August, 1	1939 = 100))_	
	Quarter I	Quarter II	Quarter
I. "Imported " pro-	268.0	336-9	336-9
II. Metal products	201 - 5	205-9	209 - 2
III. Quarried products	176.5	191 - 5	201 - 4
IV. Primary materials	149.8	149.3	152 1
Average of all materials	183 - 5	197 - 2	200 - 7

THE WORST OF TWO WORLDS

The doubling of building materials prices has been achieved by August, 1947, a month almost as full of foreboding and rumbling crisis for Great Britain as August, 1939. In this month the whole plan for post-war reconstruction and re-building has had to be entirely reconsidered.

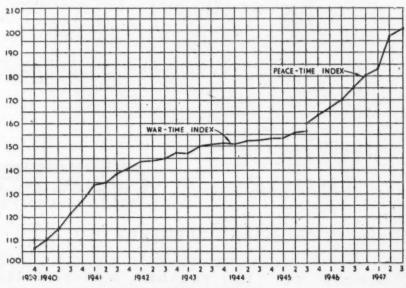
entirely reconsidered.

Whatever cuts in the building programme the Government decides to make, August, 1947, marks a turning-point. How will this turning-point be reflected in materials prices? Will not a slowing down, or reduction, of building activity result in lower prices—just as the huge and growing demand for building materials over the last two years was a major cause of the rapid rise in prices?

ung materials over the last two years was a major cause of the rapid rise in prices?

Unfortunately, there is little hope that this will be the result. Three factors will operate in the upward direction, and will together probably outweigh the depressing effect on prices of a decline in demand.

First, there is the continuing boom in prices in America. Lumber prices there have risen by 60 per cent. in twelve months. As long as there is a price boom continuing the other side of the Atlantic, and the £ is not revalued upwards (an unlikely step), import prices of timber and other imported materials will continue to increase. Secondly, there will continue to increase. Secondly, there are the rises of price consequent upon the 4s. rise in coal prices in September, to be



Graph showing price index from 1939 to the present.

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

ENOUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal. Please ask manufacturers to send further particulars to:-NAME ... ADDRESS

followed by the at present incalculable effects of dearer transport later in the autumn. Both metal products and primary materials Both metal products and primary materials are bound to feel the effect of both these changes, and quarried products will be affected by the rise in transport charges. Thirdly, as output of building materials increased, economies of larger-scale production were constantly occurring, and these to some extent offset the rise in costs. Now the position will be reversed. As production is curbed well below the capacity of firms, costs in some industries will increase. firms, costs in some industries will increase. In this way the unfortunate building programme will have suffered the worst of two worlds-increasing costs as an overwhelming demand pressed upon supplies, and increasing costs again as supply is cut (by direct action and by the effect of the coal shortage) below its optimum level.

ALTERNATIVE METHODS OF CONSTRUCTION

From an architect's point of view, the continued rise in building materials' costs has one specific lesson-the need for taking the economic factor into account in all problems of design. This is not merely a question of devoting more time and energy to the cheaper kinds of housing, and the non-traditional types of houses. As materials' costs rise, and types of houses. As materials' costs rise, and the general economic crisis deepens, price becomes increasingly important for all classes of building owner. The building of schools, colleges, universities, hospitals and civic centres may to some extent be postponed by Government action; some others may find themselves "priced out of the market," as Americans say. Permanent and satisfy-ing designs for such buildings must in future be economical designs. The paring of un-necessary expenditure, reduction of the weight of steel and timber used to an absolute minimum, and all the other economy tricks resorted to in the war, must now be turned up again and reconsidered. The need for extreme economy is not likely to be as short-lived as most designers had hoped. As we are not yet in sight of the end to the rise in materials prices so we are not yet. rise in materials prices, so we are not yet able to foresee when the economy drive will finally cease.

It would be a mistake to regard the schools, colleges and other buildings as "luxuries" even if some of them have to be postponed. The more economically that they can be built, the sooner the chance of a start on the more spectacular reconstruction of cities, or building of new towns and the very necessary provision of educational and amenity buildings. Design can materially assist, by spreading such resources as we shall have to obtain the widest possible results.

Announcements

The Control of Iron and Steel (No. 59) Order came into force on September 3. It Order came into force on September 3. It amends maximum prices—the principal alterations being increases in the price of Rainwater and Soil Goods, Roping Wire and Wire Ropes. Maximum prices for extra light weight quality screwed and socketted tubing are established. Copies of the Order may be obtained from H.M. Stationery Office, Kingsway, W.C.2 or through any bookseller, price 2d. (S.R. & O. No. 1897, 1947).

Messrs. Horace W. Cullum and Co. Ltd., Messrs. Horace W. Cullum and Co. Ltd., Acoustical Engineers and Contractors, of Connaught, Connaught Gardens, Muswell Hill, N.10, have transferred their works and offices to: 8/9, Flower's Mews, London, N.19 (telephone, ARChway 2262/3/4).



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

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

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

If no dot appears when and whe

.... . A.J. 11.9.47

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

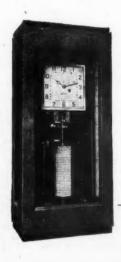
The Gent's Tell-Tale Clock

Full details in publication 4H.



Electrical Manufacturers for 75 Years

CO. LTD., FARADAY WORKS, LEICESTER LONDON OFFICE: 47. VICTORIA STREET, S.W.I xlviii



In the busy Reception Hall of the

now be he need to be as bed. As

to the not yet rive will

schools, xuries"

stponed. can be t on the

ities, or necesamenity ssist, by all have

n ts

rincipal orice of Vire and r extra ocketted e Order

ntionery gh any o. 1897, o. Ltd., cors, of Muswell orks and London, 4).

in ive nts uch ks, es, rial DAILY EXPRESS

building in Fleet Street





DUNIO PRUBBER FLOORS

DUNLOP RUBBER CO. LTD. (GENERAL RUBBER GOODS DIV.), CAMBRIDGE ST., MANCHESTER LONDON: Clerkenwell House, Clerkenwell Green, E.C.I.

LIVERPOOL: 24 Cornhill, Park Lane, 1.

GLASGOW: 48-60 and 70-78 North Wallace St., C4.

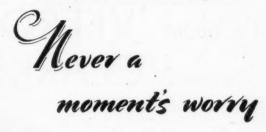
47g/RFI







THE ARCHITECTS' JOURNAL for Septema.



We have been making lifts for well over 50 years—building them to achieve three things—Safety always, day in, day out; Reliability; and Constant Economy of Upkeep.

As we make the whole of our lift equipment in our own works, we know that the job is good from start to finish.

Ask Wadsworth—and be Safe.

SWORTH

SREETIC

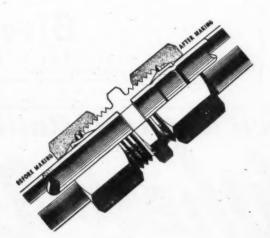
PASSENGER & GOODS

LIFTS

Wm. WADSWORTH & SONS LTD. BOLTON & LONDON

5,200 LBS PRESSURE

. . . and it did not fail



The double grip of the patent ferrule prevents the copper tube withdrawing under pressure. We've put it through tests far in excess of the normal working load, and at 5,200 lbs. per square inch, 'HANLO' did not fail.

- ALL CASTINGS—GUNMETAL
- ALL FITTINGS-FULL BORE
- HANLO JOINTS CAN BETAKEN
 APART AND REMADE ANY
 NUMBER OF TIMES
- APPROVED BY MINISTRY OF SUPPLY



COMPRESSION JOINT

Lovell & Hanson Ltd ROYAL LIVER BUILDING · 181 WOLVERHAMPTON ST.,
DUDLEY · WORCS · PHONE: DUDLEY 2127 · GRAMS: HANLO, DUDLEY
LONDON OFFICE: 23, ST. PHILLIPS ROAD, SURBITON, SURREY. PHONE: ELMBRIDGE 6262

If it's about 'VITROLITE'

consult CLARKS

James Clark & Son, Ltd., and Eaton, Parr & Gibson Ltd., were leading specialist fixers of 'Vitrolite' before the war. Now, their resources and experience are pooled, and despite present conditions Clark-Eaton are giving exceptional service.

JAMES CLARK & EATON LTDScoresby House, Glasshill St., Blackfriars, London, S.E. I
Telephone: WATerloo 46/11 (12 times)
Cancerbury Bournemouth Eastbourne Reading





THE "1-COAT" TRANSPARENT PENETRATING, PERMANENT PRESERVATIVE STAIN FOR ALL NEW WOODWORK.

It cannot raise the grain.

*8 SHADES: ALL SIZES

ADVISORY SERVICE

Shade cards, panels, full directions and working instructions for contractors' use, estimates and 45 years of specialists' experience are at your service.

RONUK Ltd., Portslade, Sussex
Polishing | 16 South Molton Street
Contract Depot | Lendon, W.I

Biro-



And now ROYAL BLUE INK

The colour of Biro ink has been changed to Royal Blue as a result of a majority vote by users of BIRO. The present Blue-Black ink is still available and is recommended by us for use in business and legal documents where a higher degree of light-fastness is desirable. With both colours BIRO writes for months without refilling, and continues to offer the many advantages now known to

everybody.
BIROS and Biro refills are obtainable from your retail stationer.

THE MILES MARTIN PEN CO. LTD.
67 BROOK STREET, LONDON, W.I

... for all electrical installations

7. H. Wheeler

Head Office: 39 Victoria Street, London, S.W.I. Tel: ABBey 8080 (18 Lines)

Branches Manchester, Bournemouth, Glasgow, Birmingham, Hull, Southampton, Hereford, She field, Thetford, York, Bristol, Edinburgh, Aberdeen-

OUR BUILDING PRODUCTS INCLUDE

- PRESSED & FORM ROLLED METAL DOOR & WINDOW FRAMES
- SOMMERFELD JOISTS
- ROOF CONSTRUCTION & LIGHT STEEL STRUCTURES
- FENCING, RAILING & METAL GATES
- MANHOLE COVERS
- PORTABLE ROADS
- **CONCRETE REINFORCEMENTS**

K.J. & A. SOMMERFELD

LTD

BUILDING COMPONENTS IN METAL

Main Office and Factory:
TRENCH WORKS, WELLINGTON, SALOP, Tel: 831 (5 lines)

Sales Office:
167 VICTORIA STREET, LONDON, S.W.I

Tel: Victoria 8844 (2 lines)

'THE LIVING STONE'

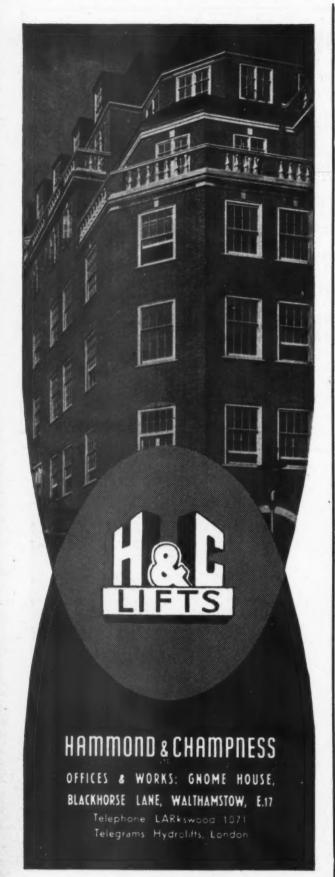
Hopton-Wood is warm and true as the very heart of England whence it comes. This eager stone matches the high endeavour of mind and hands: gives freely of its own inherent beauty to the old, familiar tools that work upon it.

From a hill in Derbyshire

HOPTON-WOOD STONE



THE HOPTON-WOOD STONE FIRMS LTD., CRAIG'S COURT HOUSE, 25 WHITEHALL, LONDON, 8.W.I QUARRIES AND WORKS: WIRKSWORTH, DERBYSHIRE * Members of British Stone Federation





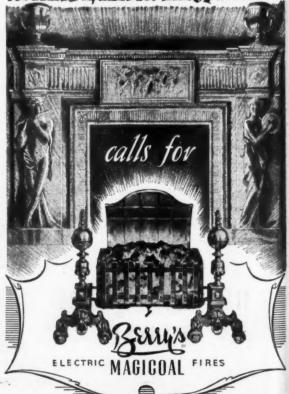
How much more efficient is the co-ordinated effort than lhe separate effort of two individual units. And how much more efficient is a heating system that is co-ordinated with the ventiating system of the building! It is because we produce and instal Hot Water and Steam Heating Systems as well as Air Conditioning and Ventilating Systems that so many architects contractors and consulting engineers specify us for this part of the job, and in some cases seek our advice when preparing their plans.

BIRMINGHAM & BLACKBURN CONSTRUCTION CO. LTD.

ARMOURY CLOSE · BORDESLEY GREEN · BIRMINGHAM 9

AND AT HARLEY STREET · BLACKBURN

... that Lifeless Fireplace ...



"Martania"

RT

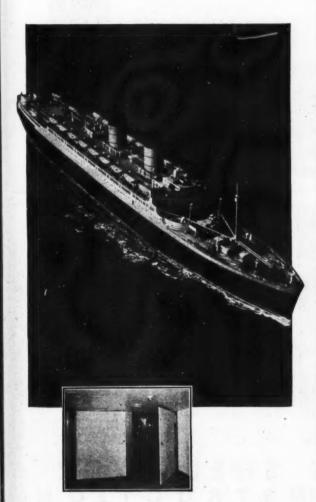
fort than ich more ne ventiluce and Air Con-

rchiteois

is part of reparing

URN

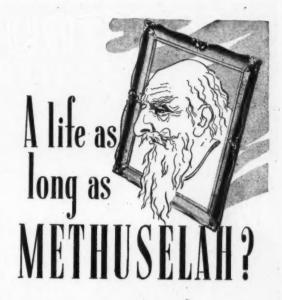
HAH 1



is protected from fire by fifty

DREADNOUGHT FIRESCREEN DOORS

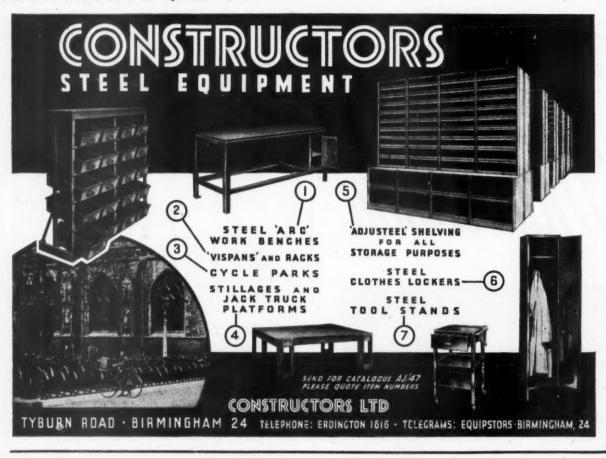
DREADNOUGHT FIREPROOF DOORS (1930) LTD.
26. VICTORIA STREET, WESTMINSTER, S.W.I



If you were given the chance to grow as old as Methuselah, we'll wager your acceptance would be on the terms that your faculties would remain unimpaired and trouble-free. Longevity holds no joys when constant breakdowns are the rule. It's just the same with cables, the arteries which bring life to homes and industry and keep them alive and productive. In this case you do have the choice, so specify Ashton cables and flexibles which are carefully supervised in every stage of manufacture and have proved themselves so thoroughly reliable and durable. Numerous distributors throughout the country are ready to fill your requirements.

ASHTON CABLES & FLEXIBLES

MADE BY AERIALITE LTD. STALYBRIDGE, CHESHI**re**





RECENT CONTRACTS INCLUDE:-

CANTEENS AND BOND STORES FOR MESSRS. GALLAHER LTD. Architect: E. A. NEWTON, F.R.I.B.A., &c.

TIMBER SHEDS, LIVERPOOL FOR L.M.S. RAILWAY Chief Engineer: W. K. WALLACE

SWIMMING BATHS
FOR
GATESHEAD CORPORATION
Borough Engineer:
F. H. PATTERSON, M.I.M.G.E.

RAILWAY STATIONS FOR SOUTHERN RAILWAY Chief Engineer: G. ELLSON, O.B.E., &c.

CONTRACTS NOW IN HAND:

Research Laboratory - Bridgwater. Flavour Stores - Belfast. Canteens - Manchester & Bristol. Omnibus Garage - Sheffield. Factory - hear Manchester. (as illustrated)

ORDNANCE WORKS
FOR
DIRECTOR OF FORTIFICATIONS
AND WORKS

AEROPLANE HANGARS FOR DONCASTER CORPORATION Surveyor: R. E. FORD, A.M.I.C.E.

OMNIBUS GARAGE
FOR
MANCHESTER CORPORATION
Architect:
G. NOEL HILL, F.R.I.B.A.

Garages – Gloucester.
Tools Shops at Wolverhampton.
Extensions to Hospital – Exeter.
Roofing & Water Tower – Widnes.
Etc., Etc.

CHISARC & SHELL "D"

• Incorporating ZEISS DYWIDAG, CHISARC & SHELL "D" Construction.

BRITISH PATENT No. 362473

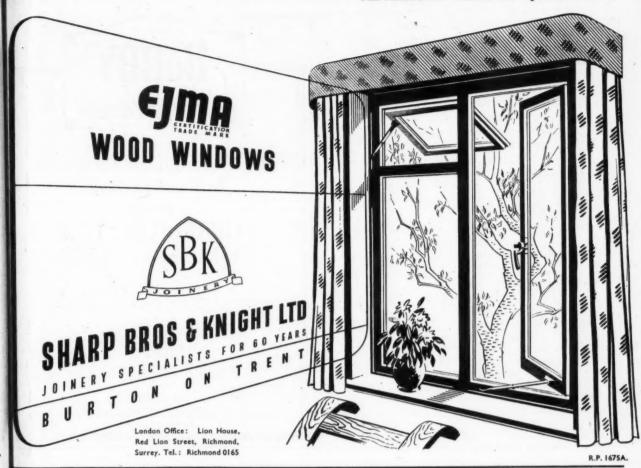
EGYPT PATENT Nos. 223/51, 10/51, 107/51.

CHISARC & SHELL "D" REINFORCED CONCRETE ENGINEERS
Proprietors of ARCOVER ROOFING SYSTEM [Pat. No. 540805] 19 OLD HALL ST. LIVERPOOL, 3

INFORMATION SHEETS Nos. 815 ", 817 and 820

I + CNE · CENTRAL 6472

TELEGRAMS : CHISARC, LIVERPOOL - OR WRITE FOR THESE-



GAZES

RKS -

GARS RATION C.E.

RATION

npton. xeter. -Widnes.

I.B.A.

N

struction. 1, 107/51. Contractors for
BUILDING & PUBLIC WORKS

to
MOST OF THE LEADING ARCHITECTS
ADMIRALTY
WAR OFFICE
AIR MINISTRY
MINISTRY OF WORKS
L.C.C.
LOCAL AUTHORITIES
MAIN RAILWAYS

W. H. GAZE & SONS, LTD., LONDON & KINGSTON-ON-THAMES

LONDON COUNTY COUNCIL

HAMMERSMITH SCHOOL OF BUILDING & ARTS & CRAFTS

Lime Grove, Shepherd's Bush, W.12 Telephone: SHEpherd's Bush 2265 Principal: H. W. Mole, F.R.I.B.A., M.I.Struct.E.

SESSION 1947-48.

Session commences on 22nd September, 1947. Enrolment week-15th September, 1947.

BUILDING DEPARTMENT.

Evening Classes for :

ARCHITECTS.
STRUCTURAL ENGINEERS.
AUCTIONEERS & ESTATE AGENTS.
BUILDERS.

REINFORCED CONCRETE
ENGINEERS.
CARPENTERS & JOINERS.
PLASTERERS.
PLASTERERS.
PLASTERERS.
PLUMBERS.
LAND & QUANTITY SURVEYORS.
DECORATORS & SIGN-WRITERS.

SENIOR BUILDING SCHOOL.

Full time day classes are held for the training of students desiring admission to administrative posts in the Building Industry or other positions in the Building professions. The new session commences 8th September, 1947.

ART DEPARTMENT.

Day and Evening Classes in :

FIGURE DRAWING COMMERCIAL ART FASHION ETCHING EMBROIDERY BOOKBINDING

PAINTING
DESIGN
WRITING, LETTERING
& ILLUMINATION
LAY-OUT
SILK SCREEN PRINTING
DRESS DESIGN

JUNIOR DEPARTMENT.

The Secondary Technical Schools (Junior Art and Junior Building) resume on 8th September, 1947.

For further information for any of the above, apply to the School. (1223).



Pu

SUB arci req pub hav

CO

IN TILE OR BRIOUETTE

for Housing Schemes

SUPREMUS COMPANY

WOODCOCK HILL. RICKMANSWORTH. HERTS

'Phone 2803

Made to Architect's Specification

Showrooms:

544, KINGSLAND RD., DALSTON, LONDON, E.8. CLIssold 5532.



CLASSIFIED ADVERTISEMENTS

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

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

Public and Official Announcements

blines or under, 10s.; each additional line, 1s. 6d. THE INCERPORATED ASSOCIATION OF ARCHITECTS AND STRVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 75, Earon PLICE, LONDON, S.W.1. TEL SLOAMS 5615. 991

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

PLANNING OFFICER, Grade III, up to £700 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 soning plans.
A knowledge of current town planning legisla-

soning plans.

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, S.E.1 (enclose stamped addressed envelope), returnable not later than 10 days from this date.

Canvassing disqualifies. (1680)

535

CORPORATION OF LONDON.
CITY SURVEYOR'S OFFICE.
APPOINTMENT OF TECHNICAL STAFF.
Applications are invited for the following
appointment in the City Surveyor's Office:
ASSISTANT ARCHITECT AND SURVEYOR.
Salary up to £475 p.a. (inclusive of consolidated
bonus), according to age, qualification and exserience.

salary up to £475 p.a. (inclusive of consolidated bonus), according to age, qualification and experience.

The applicant should either have qualified or be about to qualify for Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of Chartered Surveyors (Building Sub-division).

The appointment is for the present on a temporary basis, and will be concerned principally with the reinstatement of war damage to a variety of types of properties. In the event of stablishment to the permanent staff temporary service will count for the purpose of superannuation. Such appointment will be subject to the provisions of Local Government Superannuation and applicants will be required to pass a medical examination.

Previous experience with a Municipal body is not essential.

Applications, endorsed "Technical Staff," to be made to George Holliday, F.S.I., City Surveyor, \$61. Moorgate, E.C.2, giving the following particulars: Service with Armed Forces, age, qualification or intentions in connection therether the survey of the survey of the connection therether the survey of th

WARWICKSHIRE COUNTY COUNCIL.
APPOINTMENT OF COUNTY PLANNING
OFFICER.
Applications are invited for the appointment of County Planning Officer, at an annual salary of £1.400, rising by annual increments of £50 £1.700, plus cost-of-living bonus in accordance with the Council's scale from time to time in lores.

force.

Applicants must be Corporate Members of the Town Planning Institute, and have had considerable experience in the preparation and administration of planning schemes. Preference will be given to persons who also possess a recognized qualification in architecture, civil engineering or preserved.

qualification in architecture, civil engineering or mareying.

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

The person appointed will be required to use his own motor car in the service of the Council, and will be paid travelling and subsistence allowances according to the Council's scales.

Forms of application and any further particulars required may be obtained from the sudersigned, to whom applications, with copies of not more than three testimonials, should be sent not later than the 29th September. 1947.

Canvassing, directly or indirectly, will be a disqualification.

L. EDGAR STEPHENS.

Clerk of the Council.

thire Hall, Warwick.

MARTLEY RURAL DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECT.

Applications are invited for the above appointment from persons qualified as Members of the Royal Institute of British Architects, at a salary in accordance with Grade VIII of the A.P.T. Division of the National Scheme of Conditions of Service, commencing salary £625 per annum, plus cost-of-living bonus. The person appointed will not be allowed to engage in private practice, and will be required to devote the whole of his time to the duties of the office. He will be required to provide and maintain a car for the purpose of his duties for which a travelling allowance will be paid in 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 passing a medical examination, and will be terminated by three calendar months' notice on either side.

Applications, endorsed "Architect," stating age, qualifications, and giving the names of three persons to whem reference can be made, should be delivered to the undersigned not later than 27nd September. Canvassing in any form will disquality.

H. W. EVANS,

Clerk to the Council.

H. W. EVANS,
Clerk to the Council.
23rd August, 1947.

H. W. EVANS.

Clerk to the Council.

Council Offices, 1, The Tything, Worcester.

23rd August, 1947.

EAST SUSSEX COUNTY COUNCIL.

Applications are invited for the following appointments:—

(a) A CHIEF ASSISTANT COUNTY PLAN-NING OFFICER, with salary at the rate of £800 per annum, rising by annual increments of £50 to £900 per annum.

OFFICER (Male or Female), with salary on A.P.T., Grade VII (£875-£660 per annum).

Candidates for appointment (a) must be Corporate Members of the Town Planning Institute, and preference will be given to persons who also possess a recognized qualification in architecture, civil engineering or surveying. They must have had extensive planning experience in both urban and rural areas and in administration, and candidates selected for interview will be asked to submit for inspection positive plans and reports for the preparation of which they have been responsible.

The successful candidate will be required to act generally as Chief Assistant to the County Planning Officer and Deputy, but will be required particularly to supervise the administration of development control.

Candidates for appointment (b) must either be Corporate Members of the Town Planning Institute or possess a recognized qualification in architecture, civil engineering or surveying, and have had experience under a County Council or Joint Planning Committee.

They must have had considerable experience in the preparation of planning schemes and in the administration of interim development control. Candidates selected for interview will be asked to submit for inspection any positive plans and reports in the preparation of which they have assisted materially.

In the case of each appointment the salary.

The appointments, which are terminable by one month's notice on either side, are subject to the Local Government Superannuation Act, 1937, and a candidate to be successful must pass a medical examination to the satisfaction of the County Medical Officer. Canvassing, either directly or indirectly, will disqualify.

Appli

H. S. MARTIN, Clerk of the County Council.

H. S. MARTIN.

Clerk of the County Council.

County Hall. Lewes.

25th August. 1947.

COUNTY BOROUGH OF BURNLEY.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the appointment of a QUANTITY SURVEYOR. at a salary in accordance with Grade V of the National Scales, viz., £460-£510. plus bonus, at present £59 16s.

Per annum.

Applications and the settling up of Final Accounts. Preference with be given to Fellows or Professional Associates of the Surveyor's Institution, and experience with a Local Authority would be regarded as an advantage. Conditions of service are those formulated by the National Joint Council, and the appointment is on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall. Burnley, to whom applications should be returned in the envelope provided, not later than noon on Monday, the 22nd September. 1947.

C. V. THORNLEY,

Town Hall, Burnley.

692

Town Hall, Burnley. August, 1947.

CITY OF COVENTRY.

Applications are invited for the following whole-time appointments on the permanent staff of the City Architectural Bepartment:

(a) TWO ASSISTANT ARCHITECTS, one vacancy each in the Housing and Education Sections.

Salary grade, A.P.T., V, commencing at £460 per annum and rising to £518 per annum. Candidates should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

It is hoped that accommodation may be made available for a suitable married applicant for the Housing Section vacancy.

(b) ONE SENIOR ASSISTANT QUANTITY SURVEYOR.

Ralary grade, A.P.T., V, commencing at £460 per annum and rising to £510 per annum.

Candidates should be Professional Associates of the Royal Institution of Chartered Surveyors (Quantities Division).

Salary increments are subject to satisfactory service. The above salaries are exclusive of the Council's cost-of-living bonus, which may vary, but which at present amounts to 23s. per week.

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory errificate will be required to contribute to the Coventry Municipal Officers', Widows' and Orphans' Pension Fund.

Applications must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Wednesday, the 24th September, 1947.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON,

City Architect.

D. E. E. GIBSON, City Architect.

la, Warwick Row, Coventry. 4th September, 1947.

th September, 1947.

4th September, 1947.

COUNTY BOROUGH OF DONCASTER.
BOROUGH SURVEYOR AND WATER
ENGINEER'S DEPARTMENT.
APPOINTMENT OF TOWN PLANNING
ASSISTANTS.

Applications are invited for the following appointments:—

(a) CHIEF TOWN PLANNING ASSISTANT at a salary of £535 per annum rising to £606 per annum plus cost-of-living bonus.

(b) TOWN PLANNING ASSISTANT at a salary of £550 per annum rising to £606 per annum plus cost-of-living bonus.

(c) TOWN PLANNING ASSISTANT at a salary of £550 per annum rising to £606 per annum plus cost-of-living bonus.

(c) TOWN PLANNING ASSISTANT at a salary of £550 per annum rising to £605 per annum plus cost-of-living bonus.

(c) Town Planning hore and the following hore annum plus cost-of-living bonus.

Candidates for the appointment (a) should be Corporate Members of the Town Planning Institute, or possess equivalent qualifications, and Country Planning Acts. Orders, and Regulations.

Candidates for appointment (b) should have had previous experience in Town Planning, and preference will be given to applicants who are Corporate Members of the Town Planning Institute, or who possess other suitable qualifications.

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

Applications, stating age qualifications, and experience accompanied by copies of three recent testimonials, and endorsed Town Planning Assistant," should be delivered to the Borough Surveyor, 2. Priory Place, Doncaster, not later than Monday, the 29th September, 1947.

1. Priory Place, Dencaster.

375

1, Priory Place, Dencaster. 3rd September, 1947.

1. Priory Place, Dencaster.

3rd September, 1947.

METROPOLITAN BOROUGH OF HAMPSTEAD.

ARCHITECTURAL ASSISTANT.

(TEMPORARY).

Applications are invited for the appointment of an Architectural Assistant on the Temporary Staff of the Housing Architect's Section of the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade V of A.P.T.

Division, National Scales of Salaries. 2460 to 2510 per annum, plus 220 London weighting and bonus, at present 259 16s, per annum Age limit: 45 years of age on the lat June, 1947.

Applicants should be suitably qualified, preferably members of the Royal Institute of British Architects, and should have experience in general Architectural work, including house planning and design, adaptations and conversions, and be able to prepare working drawings and specifications.

Applications, (c) present and past appointments with dates and salaries, (d) detailed particulars of experience, and accompanied by copies of three recent testimonials, must be delivered to me in a scaled envelope endorsed "Architectural Assistant," not later than 12 noon on Saturday, 20th September, 1947.

The appointment is subject to the provisions of the Local Government Superannyation Act, 1937.

The conditions of service are those in the National Scheme for Local Government Officers, and the appointment will be terminable by one calendar month's notice on either side.

Canvassing will disquality.

F. H. HARROLD,

Town Hall, Haverstock Hill, N.W.J.

Town Hall, Haverstock Hill, N.W.J. August, 1947.

BOROUGH OF SWINDON.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the above permanent appointment on the staff of the Borough Architect, at a salary in accordance with Grade IV of the National Scales (£420 to £455, plus such cost-of-living bonus as may from time to time be paid by the Corporation (at present £59 16s, per annum).

Applicants must have had experience in housing and in the general architectural work of a local authority, and be Associates of the Royal Institute of British Architects.

The Council will assist the successful candidate to secure housing accommodation if required.

Applications must be made on forms obtainable from me, and must be returned in envelopes endorsed "Architectural Assistant," to reach me not later than 20th September, 1947.

Canvassing in any form will be deemed a disqualification.

D. MURRAY JOHN,

D. MURRAY JOHN, own Clerk.

Civic Offices, Swindon. 25th August, 1947.

OXFORDSHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
Appointment of:

(a) ONE SENIOR PLANNING ASSISTANT;
(b) TWO PLANNING ASSISTANTS;
(c) ONE JUNIOR ASSISTANTS;
(d) TWO DRAUGHTSMEN.
Applications are invited for the above-mentioned Appointment in the County Planning Department of the County Council.
For Appointment (a) the salary will be A.P.T.
Grade VI, 2536—2500 per annum. Applicants must have a thorough knowledge of all aspects of statutory planning and in particular must have had practical experience of the preparation of the Survey Sub-Department of the County Planning Department. Applicants should have passed the Final examination of the Town Planning Institute.
For Appointments (b) the salary will be A.P.T. Grade III, £330—2435 per annum. Applicants must have had good general experience in a planning office and should at least be candidates for the Final examination of the Town Planning Institute.
For Appointment (c) the salary will be A.P.T.

ning omce and should at least be candidates for the Final examination of the Town Planning Institute.

For Appointment (c) the salary will be A.P.T. Grade I. £330—£375 per annum. Applicants should be neat and expeditions draughtsmen and should have had previous experience in a planning office. They must also be capable of accurate surveying and levelling.

For appointments (d) the salary will be General Division, maximum £300 per annum at 30 years of age (£240 per annum for females). Candidates must be experienced draughtsmen capable of producing all types of finished maps and drawings, including work for presentation purposes. Experience in a planning office will be an advantage A cost-of-living bonus is payable in addition to the above-mentioned salaries.

All these appointments are superannuable and the successful candidates will be required to pass a medical examination. Applicants for Appointments (a) and (b) will be required to provide a car for use in connection with their official duties for which travelling expenses on the Council's scale will be allowed.

Application forms for these Appointments may be obtained from the County Planning Officer, County Hall. Oxford, to whom they should be returned not later than first post on Monday, 6th October, 1947.

F. G. SCOTT.

Clerk of the Council.

Zud September, 1947.

County Hall, Oxford 2nd September, 194

County Hall, Oxford.

2nd September, 1947.

COUNTY BOROUGH OF EAST HAM.

APPOINTMENT OF ARCHITECTURAL

ASSISTANTS.

Applications are invited for the following appointments on the Architectural Staff of the Borough Engineer's Department:

1. ARCHITECTURAL ASSISTANT—GRADE V. Candidates must be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification, and have a general knowledge and experience of architectural work. Sclary £480 to £530 per annum.

2. ARCHITECTURAL ASSISTANT—GRADE IV. The qualifications required are as above. Salary £440 to £485 per annum.

The above appointments are on the permanent staff of the Council.

The anlaries quoted above include the London Allowance. War bonus (at present £59 15s. 0d. per annum in the case of men over 21) will be paid in addition.

The appointments will be subject to the Council's Conditions of service in force from time to time for permanent staff, to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Applications on forms obtainable from the undersigned must be delivered to me, together with copies of three recent testimonials, by not later than Monday, the 29th September, 1947. Applicants should state the position for which they desire to apply.

Canvassing will disqualify.

Town Hall, East Ham, E.6.

own Clerk.

Town Hall, East Ham, E.6. 10th September, 1947.

CITY OF BIRMINGHAM EDUCATION COMMITTEE.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for two posts of Architectural Assistants on the staff of the Chief Education Officer, to work under the direction of the Architect to the Education Committee, Mr. W. T. Post 1.

Post 1.
Applicants should preferably be members of the Royal Institute of British Architects by examination, with a knowledge of the planning and design of school buildings. Salary—A.P.T. Grade 111 (2390—£15—£435).

III (£330—£15—£435).
Post 2.
Candidates should have received recognised architectural training and have passed the R.I.B.A. Intermediate or equivalent examination. A sound knowledge of construction is essential and some experience of school building will be an advantage. Salary—A.P.T. Grade I (£330—£15—£375).

and some experience of some an advantage. Salary—A.P.T. Grade I (£330—£15—£375).

(In both cases a bonus, at present amounting to £59 19s. per annum, is payable).

The appointments will be subject to the provisions of the Local Government Superannuation Act and to the passing of a medical examination. Forms of application, which may be obtained from the undersigned on receipt of a stamped addressed envelope, must be returned not later than 26th September, 1947.

E. L. RUSSELL,

Chief Education Officer.

Education Office, Margaret Street,

Birmingham, 3.

1st September, 1947.

725

CITY OF LEEDS.

Birmingham, 3.

1st September, 1947.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of Chief Assistant Architect (Health) at a commencing salary of £650 p.a. rising, subject to astisfactory service, to £800 p.a. plus Cost of Living Bonus, at present £99 lbs. od. p.a.

Candidates must be Registered Architects, competent in Architectural design and administration; have had actual experience in the carrying out of Architectural Works and be familiar with statutory modern building requirements and regulations in connection with Hospitals and similar Institutions.

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

Applications on forms to be obtained from the undersigned, accompanied by copies of not more than three recent testimonials (not returnable must be received by me in the envelope supplied therefor, not later than 10.0 a.m. on Thursday, 25th September, 1947.

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

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

City Architect.

Priestley House, Quarry Hill, Leeds, 9. August, 1947.

August, 1947.

KENT COUNTY COUNCIL.

Clerks of Works are required in connection with the schools and other building programmes.

The inclusive salary will be at the rate of nine guineas a week. A higher salary may be offered to men with exceptional experience.

Candidates must have had previous experience in the erection of public buildings, particularly large schools, and preference will be given to applicants who have had experience in the supervision of large contracts carried out on the basis of prime cost.

of prime cost.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, should be delivered to him as soon as possible.

W. L. PLATTS.

Clerk of the County Council.

County Hall. Maidstone.

1st September, 1947.

Ist September, 1947.

Tago EAST SUSSEX COUNTY COUNCIL.

Applications are invited from male or female persons for appointment as Draughtsmen in the County Planning Department with salary in accordance with A.P.T. Grade I (£350-£375 per annum) or Grade II (£360-£405 per annum) according to qualifications and experience, plus cost-of-living bonus (at present £59 16s. 0d. per annum for male persons of 21 years of age and upwards, and £48 2s. 0d. for female persons of 21 years of age and upwards, and £48 2s. 0d. for female persons of 21 years of age and upwards, and £48 2s. 0d. for female persons of the Local Government Superannuation Act, 1937, and a candidate to be successful must pass a medical examination to the satisfaction of the County Medical Officer of Health. Applications, stating age and full particulars of experience and qualifications, accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than Saturday, the 20th September, 1947.

Candidates for appointment must be neat and expeditious draughtsmen and colourists. Previous experience in a planning office will not be regarded as essential and consideration will be given to applicants with experience in commercial art or similar work.

Candidates must state whether they are related to any member or Senior Officer of the Council Canvassing, either directly or indirectly, will disqualify.

Elek of the County Council.

H. S. MARTIN, Clerk of the County Council.

County Hall, Lewes. 25th August, 1947.

ANGLESEY JOINT PLANNING COMMITTEE.
APPOINTMENTS OF CHIEF PLANNING
ASSISTANT.
Applications are invited for the appointment of Chief Planning Assistant to the County Planning Officer of the above-named Committee.
Applicants should have had considerable experience in the preparation of Statutory Planning Maps, both rural and urban; be competent to deal with applications under Interim Development, and in interviewing developers and others.
Preference will be given to applicants who are Students of the Town and Country Planning Institute, and also have had an architectural training.

stitute, and also have had an architectural training.

The salary will be in accordance with Grade IV of the A.P.T. Division of the National Scheme of Conditions of service commencing at 2420 per annum and rising to 2465 per annum, plus cost of living bonus, at present £59 16s. 0d. per annum. Travelling and subsistence allowance will be paid on the County Scale.

Applications, stating age, experience, etc., and giving the names and addresses of two persons to whom reference can be made, should be sent to the undersigned not later than Saturday, the 20th September, 1947.

WILLIAM JONES, Clerk of the Joint Committee. Shire Hall, Llangefni, Anglesey.

28th August, 1947.

Applications are invited for the undermentioned pensionable posts in the Buildings Department:—

(a) Building Maintenance Officer (permanent) at a yearly basic salary of £420×£15—£465, plus war addition, at present £50 168. 0d.

Candidates must have practical experience of the building trade, be thoroughly competent in the preparation of specifications, detailed estimates and builders' quantities in connection with the maintenance of buildings, and be able to prepare drawings for minor projects. Preference will be given to licentiates of the Institute of Builders (by examination).

(b) Architectural Assistant (unestablished) at a yearly basic salary of not exceeding £360 plus war addition, at present £59 16s. 6d.

The person appointed will be required to assist with the preparation of plans for new buildings and the adaptation and extension of existing buildings of amplication, obtainable, form the Edings.

and the adaptation and carebuildings.

Forms of application, obtainable from the
County Architect, Springfield, Maidstone, should
be returned as soon as possible.

W. L. PLATTS,

Clerk of the County Council.

County Hall, Maidstone. 1st September, 1947.

HEPTON RURAL DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited for the position of
Architectural Assistant to the above Council.
The commencing salary will be at the rate of
£420 per annum, plus cost-of-living bonus (£5)

2420 per annum, plus cost-ot-living bottos (Amper annum).

The Council's permanent Architect is expecting to be retiring in the near future, and subject to satisfactory service the person appointed will be promoted to the position.

Applicants should be registered Architects, and should have had experience in the designing of municipal houses the preparation of specifications and quantities, should be good draughter and have a sound knowledge of building construction.

men, and have a sound knowledge of building construction. The appointment is subject to the Local Government Superannuation Act, 1937, and is medical examination.

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience and accompanied by two recent testimonials should reach the undersigned not later than noon, on 17th September, 1947. Canvassing, either directly or indirectly, will be deemed a disqualification.

E. H. BLACKBURN,

E. H. BLACKBURN,
Clerk to the Council.
12th August, 1947

COUNTY BOROUGH OF WEST HAM.
BOROUGH ARCHITECT AND PLANNING
OFFICER'S DEPARTMENT.
Applications are invited for the following
ests:—

Applications are invited for the followins (1) Technical Assistant (Statutory Planning Section).

(2) Architectural Assistant (Housing Section).

(3) Male Administrative Assistant (Public Buildings Section).

(4) Male Administrative Assistant (Construction Section).

The salary for posts (1) and (2) is A.P.T. Grade IV—£420/£465 (plus £20 London weighting and bonus, at present £59 19s. 3d.) per annum.

The salary for posts (3) and (4) is A.P.T. Grade IV—£330/£375 (plus £20 London weighting and bonus, at present £59 19s. 3d.) per annum.

Full particulars of duties, terms of appointment, and application form (which must be used in making application), may be obtained from the Borough Architect and Planning Officer. 196. West Ham Lane, E.15. Applications to be returned not later than TUESDAY, 30th SEPTEMBER.

West Ham Town Hall, Stratford, London, E.15.

E. E. KING, Town Clerk

ITTEE.

ment of ble ex-lanning to deal opment,

s. who are ing In-il train-Grade Scheme 2420 per dus cost od. per nce will

tc., and persons be sent day, the mmittee.

729 entioned ment manent)

ience of etent in led estiion with e to preence will Builders ed) at a

to assist buildings existing rom the

Council. 731 NOIL.

sition of Council. e rate of nus (£59

expecting d subject inted will

and the ral Assis-xperience, timonials, ter than anvaseing, deemed a

Council. 646 HAM.

following Planning Section).

(Construc-P.T. Grade P.T. Grade

f appointant be used ained from Officer, 100. TEMBER,

NG, own Clerk.

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

(a) Architectural Assistant, Grade 3. Salary 2300 p.a.,
(b) Architectural Assistant, Grade 1 or 2. Salary 2300 p.a., according to experience.
In each case plus Cost of Living Bonus, at present £59 16s. 6d. p.a.
Subject to satisfactory service, appointments will be of 2 years' minimum duration.
Applicants should have had good general experience in an Architectural Office, and for (a) Should, as a minimum, have passed R.I.B.A. Intermediate Examination or be of equivalent standard.

standard.

Preference will be given to those with previous experience of Housing Schemes for Local

Preference of Housing Schemes
Authorities.
Applications, giving full particulars, should be sent to the undersigned as soon as possible.
HAROLD COLLINS, A.M.Inst.C.E.,
Borough Engineer.
711

BOROUGH OF HARROGATE.

APPOINTMENT OF ARCHITECTURAL
BOROUGH ENGINEER'S DEPARTMENT.
Applications are invited for the above appointment at a salary in accordance with the A.P.T.
Division, Grade II (£360 to £465) plus bonus.
Further particulars and conditions may be obtained from the Borough Engineer, to whom applications must be submitted not later than the 24th September, 1947.

J. M. DODDS,

J. M. DODDS, Town Clark. Municipal Offices, Harrogate.

Municipal Offices, Harrogate.

726
CROWN AGENTS FOR THE COLONIES.
Applications from qualified candidates are invited for the following post:—
ASSISTANT QUANTITY SUEVEYOR required
by Kenya Government Public Works Department
for tour 2-3 years in first instance. Salary according to qualifications in scale 2480 to £720 plus
cost of living allowance up to 240. Outfit allowance 230. Free passages and quarters. Candidates should be Chartered Quantity Surveyors and
be experienced in taking off, abstracting and preparing bills of quantities. Apply at once bygetter, stating age, whether married or single,
and full particulars of qualifications and experience, and mentioning this paper, to the Crown
Agents for the Colonies, 4, Millbank, London.
8W.I., quoting M/N/18376 on both letter and
envelope.

COUNTY BOROUGH OF GREAT YARMOUTH.
BOROUGH ENGINEER'S DEPARTMENT.
APPOINTMENT OF SENIOR
ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of a permanent SENIOR ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade v of the National Scale of Conditions of Service, commencing at £460 per annum, rising to a maximum of £510 per annum, plus cost-of-living bonus (at present £59 16s. dd.).
Applicants for the appointment should be Associates of the Royal Institute of British Architects, and must have had experience in design and construction, particularly in relation to housing, schools and public buildings.
Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be enclosed in an envelope endorsed "Senior Architectural Assistant," and must reach the undersigned not later than Friday, 26th September, 1947
The appointment will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination.
Canvassing, directly or indirectly, will be deemed a disqualification, and candidates must disclose in writing whether, to their knowledge, they are related to any member of, or holder of any senior office, under the Council, Candidates who fail to do so will be disqualified, and, if appointed, will be liable to dismissal without notice.

FARRA CONWAY.
Town Hall Great Varmouth

FARRA CONWAY, Town Clerk.

FARRA CONWAY.
Town Hall, Great Yarmouth.
3rd September, 1947.

MINISTRY OF WORKS.
ARCHITECTURAL ASSISTANTS
(SENIOR GRADE).
Applications are invited to fill vacancies for Architectural Assistants to supervise Drawing Office Staffs in Leeds, Cardiff, Tunbridge Wells and Cambridge.
Candidates must have had a thorough training in Architecture and a good varied experience of the supervision of drawing office staff.
Salary is up to £640 per annum according to qualifications and experience. The appointments are in the first instance in an unestablished capacity, with a possibility of permanent appointment.
Apply in writing, giving age, details of training, qualifications and experience, stating district prefetred, to Chief Architect, Works General 10, Ministry of Works, Abell House, John Islip Street, London, S.W.1.

LEEDS SCHOOL OF ARCHITECTURE.

(LEEDS COLLEGE OF ART).

Applications are invited for the following posts, duties to commence as soon as possible.

1. SENIOR ASSISTANT.

2. FULL-TIME LECTURERS and STUDIO INSTRUCTORS.

Candidates should preferably have been trained in a recognised school of architecture and be Associates of the R.I.B.A.

Salary scales: Lecturers: Men, £315-£15-£555. Women: £282-£12-£444. War service and up to 10 years' professional experience may be reckoned as teaching service in fixing the commencing salary. Senior Assistants: Men, £600-£25-£750. Women, £480-£20-£600. Additions in all cases for architectural school training.

tions in all cases for architectural school training.

Further particulars and application forms may be obtained by sending stamped addressed foolscap envelope to the Director of Education, Education Offices, Leeds, 1.

BOROUGH OF WALTHAMSTOW.

BOROUGH ARCHITECT'S DEPARTMENT.

PLANNING ASSISTANT.

Applications are invited for the permanent position of PLANNING ASSISTANT, at a salary in accordance with Grade I of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services (£330 rising to £375 by annual increments, plus London Weighting Allowance according to scale, and Cost of Living Bonus at present £59 19s. 3d. per annum.)

Applicants should have had previous experience of Municipal Work and preference will be given to applicants possessing an approriate planning qualification.

The appointment will be subject to the Local Government Superannuation Act, 1937, to the National Joint Council's Conditions of Service, to the successful candidate passing a medical examination, and to termination by one month's notice on either side.

Applications, stating age, qualifications and experience, accompanied by names and addresses of three referees to whom reference may be made, must reach the undersigned, endorsed "Planning Assistant," not later than 26th September, 1947.

Canvassing in any form will be deemed a disqualification, and applicants must disclose any relationship to any member of the Council or holder of any senior office under the Council or holder of any senior office under the Council.



SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment
of ASSISTANT QUANTITY SURVEYOR, Grade
VI. at a commencing salary of £535, rising by
annual increments of £00£5 to a maximum
of £600 per annum, plus London weighting of
£20 and bonus at the rate of £59 16s. dd. per
annum.

230 and bonus at the rate of £59 16s. 6d. per annum.

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

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

Applications, stating age, qualifications, and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-on-Thames, not later than the 2th September, 1947.

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

DUDLEY AUKLAND.

Clerk of the Council.

County Hall, Kingston-on-Thames.

Sale by Auction

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

CITY OF BIRMINGHAM SALE BY AUCTION

CITY OF BIRMINGHAM
SALE BY AUCTION

FREEHOLD RESIDENTIAL BUILDING
HAVING A TOTAL AREA OF 7 ACRES OR
THEREABOUTS,
SITUATE OFF
GOLDEN HILLOCK ROAD,
BUILDERS' ROADS AND SHWERS ALREADY
LAID.
FRONTAGE FOR 55 PLOTS, TOGETHER
ADJACENT SITE IN GOLDEN HILLOCK
ROAD APPROVED FOR GENERAL BUSINESS
BUILDING PLANS ALREADY SUBMITTED
AND APPROVED BY LOCAL AUTHORITY.
H. DONALD DIXON, F.S.I., F.A.I.,
is instructed to offer the above for Sale by
Auction at the
GRAND HOTEL, COLLMORE ROW,
BIRMINGHAM,
ON FEIDAY, 19th SEPTEMBER. 1947, at 2.30
p.m.. subject to prior Sale and Conditions.
Full Particulars and Plan (price 6d.) from
Auctioner's Offices, 60, NEWHALL STREET,
BIRMINGHAM, 3.
Telephone: Central 6779 (two lines).

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

A RCHITECTURAL ASSISTANT A RCHITECTURAL ASSISTANT required, good prospects. Also Junior Quantity Surveyor to work with staff Quantity Surveyor Excellent opportunity to complete training and gain all-round experience. All particulars to Naylor, Sale & Widdows, St. Mary's Chambers, Derby. 743

LEADING Industrial Design Consultants require Junior Assistant with architectural or engineering experience to prepare working drawings from designers' sketches. Box 745.

JUNIOR ARCHITECTURAL ASSISTANT required, London W.C. district; state age. experience and salary. Box 626.

DIOCESAN Surveyor requires ARCHITECTURAL ASSISTANT, for work in old churches and general practice; Inter. standard considered. Full particulars to Lawrence H. Bond, 11, Elmer Street, Gsantham.

THE MIDLAND JOINBRY WORKS, LTD. Burton-on-Trent, require a first-class ex-perienced DRAUGHTSMAN ESTIMATOR. Apply in confidence, giving fullest particulars. 635

Applications from qualified Architects are invited for the appointment of an ASSISTANT ARCHITECT in Chief Engineer's Department. The applicant should be an Associate R.I.B.A., and have had experience in the design and construction of Factory Amenities. Laboratories and Offices. The successful applicant will be required to act as Section Leader and take charge of a Section of the Civil Drawing Office under the Architect. The position is of a permanent nature, subject to the Company's Superannuation Fund, and offers good prospects. Applications to be sent to the following address, stating age, married or single, qualifications, experience, and salary required, Staff Manager, Imperial Chemical Industries. Ltd., General Chemicals Division, Cunard Building, Liverpool. MPERIAL CHEMICAL INDUSTRIES, LTD.

CAPABLE ASSISTANT, for general practice in S.W. coast town. Write, stating age, experience, salary, etc., Box 693.

RELIABLE ARCHITECTURAL ASSISTANT required for general East Riding practice; must be good draughtsman with sound constructional knowledge of handling smaller jobs with minimum supervision; progressive opportunity for right man; ex-Sorvice preferred. State age, qualifications, experience and salary required, Box 713.

MPERIAL CHEMICAL INDUSTRIES, LTD., Wilton Works, require DRAUGHTSMAN to assist with the design and detailing of a large new works. Successful candidates will be appointed to the established staff. Preference will be given to applicants who hold the Higher National Certificate or higher qualification and will be given to applicants who hold the Higher National Certificate or higher qualification and have the appropriate experience, as follows:—DRAUGHTSMEN-ARCHITECTURAL: Design of offices, laboratories, houses, welfare and general industrial buildings. CIVIL: Design of roads, railways, drains and water services. STRUCTURAL: Design of buildings and structures, and design and detailing of reinforced concrete work for industrial buildings. MECHANICAL: Design of pipework for steam, gas and water, compressed air stations, lay-out of chemical plant, etc. POWER STATION: Design and lay-out of modern H.P. Boiler Plant and Power Plant. ELECTRICAL: Lay-out of plant electrical installations, including motors, starters, distribution boards, cables and lighting, and necessary calculations. INSTRUMENT: Lay-out of mechanical and electrical instrument installations for Chemical plant. Preference for men experienced in modern automatic control instruments for temperature pressure and flow. Applications, giving full details, should be submitted to the Personnel Manager. Imperial Chemical Industries, Ltd., Wilton Works, P.O. Box 54, Middlesbrough. Yorks., quoting advert. ref. ICIX/29.

CHARTERED ARCHITECT required in old established practice; state salary. Box 722.

A BCHITECTURAL DRAUGHTSMAN required immediately with good general knowledge of building construction, surveying and levelling. Write, stating experience, age, and salary required, to Box 405, 8, Serle Street, London, W.C.2.

WANTED. — ARCHITECT'S ASSISTANT, South Cheshire office; good general draughtsman, capable of taking off quantities for small jobs, measuring up and preparing final accounts and detail drawings. Apply Box 733. State experience and salary required.

A RCHITECTURAL ASSISTANT required, South London office; competent to prepare working drawings, surveys, specifications, for licensed houses, shope and factories. Write, stating age, salary and experience, to Box 963.

stating age, salary and experience, to Box 963.

UANTITY SURVEYOR required by Imperial Chemical Industries, Ltd., Wilton Works, Middlesbrough. Experience necessary in Taking Off. Abstracting, Billing and Pricing Works of a Building and Civil Engineering character. The successful candidate will be appointed to the established staff. Applications, giving full particulars, should be submitted to the Personnel Manager, Imperial Chemical Industries, Ltd., Wilton Works, P.O. Box 54, Middlesbrough, Yorks., quoting advert. ref. No. ICI/X/30. 726

4 lie

F

4 lin A 19-10 W W

N

in Pr

ST

CI

(10

L

W

W

A U look-le well,

Architectural Appointments Wanted

K BEN and capable ASSISTANT requires position in Newcastle-upon-Tyne; ex-Serviceman; aged 28; passed R.I.B.A. Final Exam,
July, 1947. Box 393.

S ENIOR ASSISTANT. Fully qualified, Dipl.
Arch. (L'pool), requires immediately progressive position with Liverpool firm of Architects; good general experience; capable of carrying through work from sketch plan stage to ½ in,
working drawings, details, etc., without supervision. Box 403.

CAPABLE DRAUGHTSWOMAN requires post-

tion in progressive London office; 2 years' general drawing office experience. Box 404.

YOUNG LADY requires work in office to gain experience. Willing to accept small salary, that passed 'part Inter. B.I.B.A. (History of Structures). In or near Brighton district. Box 404.

Other Appointments Vacant

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

WANTED.—DRAUGHTSMAN, experienced in
the preparation of masonry details for
pattern-shop, by Cast-Stone manufacturers in
Yorkshire. State experience and salary required
to Box 715.

WANTED.-REINFORCED CONCRETE EN-GINEER, experienced in pre-cast floor construction, by firm in Yorkshire. State ex-perience and salary required, to Box 716.

Other Appointments Wanted

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

**PROFESSIONAL ASSISTANCE offered to Architects for land surveys and levelling for housing, schools, factories, drainage, land-scaping, etc.; own staff and equipment. Box 667.

**YOUNG DRAUGHTSMAN in London, experienced in architectural and structural work, offers his services on a part-time or free lance basis; all types of draughting executed. Box 664.

**TRACER requires job in Architect's office; 4 years' experience; age 26 years; South Coast only. Box 689.

**YOUNG Man (23), starting first year part-time arch. course, seeks any kind employment, with Architect. Building Contractor, in Manchester area, for 3-34 days per week; 3 years' preliminary drawing office experience (junior); ex-Capt. R.B. Box 697.

**A. F.I.B.A., well trained and educated, 20 years' wide experience, own practice, suffering from present conditions, would undertake work or deputies for other Architects; special experience of War Damage claims. Box 710.

**A. R.C.H.ITECT'S ASSISTANT offers week-end Other Appointments Wanted

A RCHITECT'S ASSISTANT offers week-end and spare time assistance; tracing etc., ex-pertly executed: can also arrange for accurate typing of specifications, etc. Box 720.



CYQL QLONE Window Surrounds

oceal with the building and insert
of plugs can be inserted during
be fitted easily when the building
is completed. The illustration shows cast stone
window surrounds in Agricultural houses at Bratton,
Shropshire. Johnston Brothers

DOSELEY QUARRIES SALOF

London Office:

CHARTERED STRUCTURAL ENGINEER, resident London, with 20 years' experience in the practical design of steelwork, reinforced concrete, cantilever, balanced and piled foundations, retaining walls, etc., requires part-time work; strict confidence. Box 723.

ired

rite, 53. perial

orka,
aking
ks of
The
the
paronnel
Ltd.,

ough, 726

nted

posi-rvice-xam,

Dipl.

pro-Archi-carry-à in, super-

posi-

years'

gain salary. ry Box

line.

ced in

rs in quired

E BN-

floor to ex-

ed to ed to velling land-ox 667. experiwork, a lance lance

rt-time

yment, Man-years' junior);

ted, 20 practice, under-hitects; as. Box

reek-end

etc., ex-

d

For Sale

FOR SALE.—Architect's Plan Chest; table top, Mahogany, 4 ft. 2 in. by 2 ft. 8 in.; 6 dawers; best offer. Chasemore; PAD 0523. 737

Miscellaneous

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

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of fencing, guard all, factory partitions and gates. Harvest Works, 9307, St. Pauls Road, N.1. Canonbury 2061.

Wanted.-One set of "Arts Et Matiera Graphiques." Please reply to Box. 5.

WANTED.—Complete set of "Typography."

NEWER HEAT DISPLAY, Building Centre, Conduit Street, W.l., New solid-fuel ap-plasces. New heating methods. New standard of home comfort. Open 10-5. Organised by the Cal Utilisation Joint Council.

A GENT, with connections among Architects and Builders, required to represent well-stablished Asphalt, Flooring and Roofing Co., in Provincial and Coastal towns; remuneration by commission. Apply Box 961.

STUDIO FOR CONCRETE SCULPTURE.— Groups, Portrait Busts, Mural Reliefs, modelled in reinforced, ferro-concrete, or in colored cement and sand; sketches in the same addiam submitted without obligation. 2, Camden Studios, 28b, Camden Street, N.W.1. 668

CINTRAL HEATING OIL BURNERS.—
CInsist on the British-made Parwingc-no sking, clean, trouble free; no waiting for coal or esks deliveries; no embargo now. Write at most o Parker, Winder & Achurch, Ltd., Makers, Broad Street, Birmingham,

CONSULT Boulton & Paul, Ltd., Norwich. for special design manufacture and erection of funcing and Gates.

"LE CORBUSIER."—The fourth and completing volume of the series on his work,
waring the period 1938 to 1946 and including
stames in association with his cousin, Pierre
lanaret, in the immediate pre-war years, and
sujected and accomplished work from 1940
awards. Taxt part-French and part-English,
126 large pages, with 400 photographs, sketches,
has, etc. Fost free, 45s. 9d., from Stobart &
Sa. Lidd., 9, Victoria Street, London, S.W.1. 639

WISE ARCHITECTS seeking Technical Engineer assistance call upon the "R.C.B. having Office Service" early in the planning of sw contracts, because co-operation between engineer and architect may save up to half the old of the structure. This service specializes in metral steelwork and reinforced concrete, and "supply calculations, drawings, schedules, etc., a service specializes."

WANTED urgently by Student.—Drawing board (54 in. by 32 in.) and 54 in. tee sure; would consider 42 in. by 29 in. size. Treadwell, 415, Downham Way, Bromey, 732

AUTHORS. MSS. promptly considered for book publication, particularly poems, and witength stories for boys and girls. Stocked, Ltd., Elms Court, Ilfracombe. 744

Educational Announcements es er under, 5e.; each additional line, 1e. 5d.

RIBA. QUALIFYING EXAMINATIONS. Mr. C. W. Box, F.R.I.B.A., M.R.San.I. Junes of Correspondence and Personal to Studia Gower St., London, W.C.I. (Tel.: Euston 3905)

R. I.B.A. and T.P. INST EXAMS. Private carranged by Mr. L. Staart Stanley, M.A., P.R.I.B.A., M.T.P.I. Tuter, 212, Buston Road, N.W.I. Tel.: EUS. 776

N.W.I. Tel.: EUS. 775

UNIVERSITY OF LIVERPOOL.

LIVERPOOL SCHOOL OF ARCHITECTURE.

INCLUDING DEPARTMENT OF CIVIC

Professor of Architecture: I. B. Budden, M.A.,

The School provides a thorough theoretical and practical training for Students wishing to enter the Architectural Profession. The courses, which lead to a Degree (B.Arch.) and a Diploma, begin early in October. These qualifications both carry with them exemption from the series of Examinations, leading to the Associateship of the Royal Institute of British Architects, with the exception of Professional Practice. A written paper and oral test in this subject are now conducted in the School. A Degree of Master of Architecture (M.Arch.) has been established, and the Degree of M.A. may also be taken in Architecture.

DEPARTMENT OF CIVIC DESIGN.

the Degree of M.A. may also be taken in Architecture.

DEPARTMENT OF CIVIC DESIGN.

Lecturer-in-Charge: W. A. Eden, M.A., B.Arch.,
A.R.I.B.A.

The Department provides a training for Architects and Engineers who wish to specialize in Town Planning. The courses, which begin in October, lead to a Certificate and Diploma.

Prospectuses of Classes may be obtained on application to the Registrar of the University, Liverpool, 3.

STANLEY DUMBELL.

STANLEY DUMBELL,
Registrar.

983

NORTHERN POLYTECHNIC HOLLOWAY, LONDON, N.7.

Principal: T. J. DEARELEY, D.SC., PH.D.(London), F.B.I.C., F.I.R.I.

Head of Department of Architecture: T. E. SOOTT, F.R.I.B.A.

DAY SCHOOL OF ARCHITECTURE

The Five Years' Course qualifies for exemption from the Final Examination for Associateship of the R.I.B.A. and for registration under the Architects (Registration) Acts, 1931-1938. Students who complete satisfactorily the first Three Years of the course are granted exemption from the Intermediate Examination of the R.I.B.A.

School year begins 22nd September. 1947.

Fees-£20 per annum, or £7 per term.

Students under the age or 18 may be admitted free

EVENING SCHOOL OF ARCHITECTURE

(Five years' Course recognised by the R.I.B.A. for exemption from the Intermediate Examination.) New Session begins 22nd September, 1947.

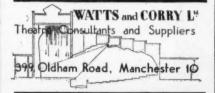
Fees from 10s. to 50s, per course according to age of student.

Special Design classes, and lectures on the Theory of Structures, Hygiene, Materials, Specifications, and Professional Practice in preparation for the Final Examination of the R.I.B.A.

- ENTRY TO THE SCHOOLS. Intending Day Students are interviewed at any time by appointment. Intending Evening Students will be interviewed from 5.30—7.30 p.m. on 15th and 16th September, 1947, or on any subsequent evening.

Prospectus post free on application.

Telephone: NORth 1686



AMERICAN ARCHITECTURE

" AMERICAN BUILDER " "THE ARCHITECTURAL FORUM"

Monthly

"THE ARCHITECTURAL RECORD" .. 32s. 6d.

"PROGRESSIVE ARCHITECTURE"
(formerly "PENCIL POINTS")
Monthly .. 30s. Od.

by annual subscription through

STOBART & SON LTD

9, Victoria Street, London, S.W.I

Wm. OLIVER & SONS, Ltd.

(of Bunhill Row), 12/13 Bow Lane, E.C.4

HOME GROWN SOFTWOODS

Quota Merchants for NATIONAL STOCK

HAND FORGED WROUGHT IRON WORK

by highly skilled craftsmen

IMPROVED DESIGNS LTD.

STEELWORK BY

SWAN WORKS, HANWORTH, MIDDX

Phones : Feltham 3007. Sunbury 2567.

John Broadfoot & Sons, Ltd.

Inchholm Works, Ferryden Street, Whiteinch, GLASGOW, W. 4.

" Teakoid" Composition Flooring, Lino, Cork and Rubber in plain and decorative designs.

CIRCUIT BREAKERS to control electric FOR STARTERS for electric motors of up to 1,000 H.P.

Specify ELLISON

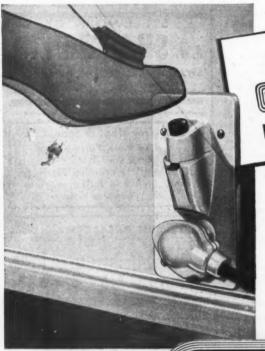
JOINERY is made only by LICENSED PRODUCERS who undertake to conform to Specifications & Standard of Quality

Alphabetical Index to Advertisers

	PAGE		PAGE
Aerialite, Ltd	lv	English Electric Co., Ltd	XXV
Aldam, E. Hill & Co., Ltd		English Joinery Manufacturers' Assoc.	xiii, lxiii
Anderson Construction Co., Ltd.	viii	Ferguson, Edwards, Ltd	xxxiv
Ascot Gas Water Heaters, Ltd	xxiii	Fibreglass, Ltd	XXXV
Ashley Accessories, Ltd	-	Flush Door Manufacturers' Assoc	
Associated Metal Works (Glasgow), Ltd.		Gaze, W. H., & Sons, Ltd	lvii
Banister, Walton, & Co., Ltd. :	xxiv	General Accessories Co., Ltd	lxiv
Bayliss Kenton Installations, Ltd		General Electric Co., Ltd	xxix
Belling & Co., Ltd		Gent & Co., Ltd	xlviii
Benham & Sons, Ltd	xxvii	Gillett & Johnston, Ltd	
Berry's Magical Electric Fires	liv	Grangemouth Iron Co., Ltd	v
Birmid Rain-Water Goods	xxxiii	Gray, J. W., & Son, Ltd	
Birmingham & Blackburn Construction		Greenwoods & Airvac Ventilating Co.,	
Co., Ltd.	liv	Ltd.	
Boulton & Paul, Ltd	AAV	Griffiths Bros. & Co., Ltd	
Braby, Fredk., & Co., Ltd.	-	Hall, J. & E., Ltd.	-
Braithwaite & Co., Engineers, Ltd	xxxi	Hammersmith School of Building & Arts	
Bratt, Colbran, Ltd.	xxvii	and Crafts	lviii
Brent Metal Works, Ltd	lxi	Hammond & Champness, Ltd	liv
Briggs, William, & Sons, Ltd		Harvey, G. A., & Co. (London), Ltd	iii
British Industries Fair		Henderson, P. C., Ltd.	xlii
British Steelwork Association		Holoplast, Ltd.	xvii
Britmac Electrical Co., Ltd.	-	Hope, Henry, & Sons, Ltd.	xliv
Brixton School of Building	****	Hopton-Wood Stone Firms, Ltd	liii
Broadcast Relay Service, Ltd	xlv	Horsley Bridge & Thomas Piggott, Ltd.	1444
Broadfoot, John, & Sons, Ltd	lxiii	Imperial Chemical Industries	
			lxiii
Bromsgrove Guild, Ltd	-	Improved Designs, Ltd.	
Camelon Iron Co., Ltd	V	Industrial Engineering, Ltd	xxii
Cargo Fleet Iron Co., Ltd.	vii	International Correspondence Schools,	
Carlisle Electric Manufacturing Co., Ltd.	xxvi	Ltd. Jiewood, Ltd.	lxv
Cement Marketing Co., Ltd	. lvi	Tohnston Drog (Contractors) Itd	lxii
Chisare & Shell "D"	XXX	Johnston Bros. (Contractors), Ltd	1 1
Chloride Electrical Storage Co., Ltd	lii	Jones, Samuel, & Co., Ltd	xxviii
Clark, James, & Eaton, Ltd	lxv	Kieft, Cyril, & Co., Ltd	xxxvii
Clifford Aero & Auto, Ltd	lxv	Kwikform, Ltd.	AXXVII
Code Designs, Ltd	LXV	Laing, John, & Son, Ltd Leaderflush, Ltd	xvi
Colthurst Symons & Co., Ltd	lvi	Leadernush, Ltd.	AVI
Constructors, Ltd.		Lead Industries Development Council	
Copper Development Association	xviii	Lightfoot Refrigeration Co., Ltd	
Courtney, Pope (Electrical), Ltd		Lloyd Boards, Ltd.	
Cox & Co. (Watford), Ltd	1	London Brick Co., Ltd	2.5
Crittall, Richard & Co., Ltd		Lovell & Hanson, Ltd	_ H
Crompton Parkinson, Ltd		Mackay Industrial Equipment, Ltd	Patrician Control of the Control of
Davidson, C., & Sons, Ltd.	XXXIX	Magnet Joinery, Ltd.	
Dreadnought Fireproof Doors (1930), Ltd.	lv	Mallinson, William, & Sons, Ltd	
Dreyfus, A., Ltd.	xxxvi	Metallic Seamless Tube Co., Ltd	
Dunlop Rubber Co., Ltd	xlix	Metropolitan-Vickers Electric Co., Ltd.	
Durable Asphalte Co., Ltd	3-444	Miles Martin Pen Co., Ltd	н
Ellison, George, Ltd	lxiii	Mills Scaffold Co., Ltd	lxvi
Ellis (Kensington), Ltd	xxi	Morris, H., & Co., Ltd	· xix

	National Federation of Clay Industries New Era Domestic Products, Ltd Nobles & Hoare, Ltd.	
	Nobles & Hoare, Ltd. Northern Polytechnic	
	Oliver Wm & Sons Ltd	
	Park Foundry (Belper), Ltd	
	Patchett & Co., Ltd	_
	Prodorite, Ltd.	
	Prodorite, Ltd. Range Boilers, Ltd.	-
	Reparations & Steam Brush Co., Ltd	-
	Rippers, Ltd. Ronuk, Ltd.	-
	Ruberoid Co., Ltd.	
	Pubery Owen & Co Itd	_
	Sadd, John, & Sons, Ltd	
	Sadd, John, & Sons, Ltd. Sankey, J. H., & Sons, Ltd. Sankey, Sons, Ltd. Sanders, Wm., & Co. (Wednesbury), Ltd. Scaffolding (Great Britain), Ltd.	***
	Sanders, Wm., & Co. (Wednesbury), Ltd.	*
	Service Electric Co., Ltd.	_
	Sharman, R. W., Ltd	
	Sharp Bros. & Knight, Ltd	
	Sherwoods Paints Ltd. Shires & Co. (London), Ltd.	
	Siegwart Fireproof Floor Co., Ltd	
	Smith & Rodger Ltd	
	Smith & Rodger, Ltd Sommerfeld, K. J. & A., Ltd	
	Southern Lime Assoc., The Stainless Steel Sink Co., Ltd.	
	Stainless Steel Sink Co., Ltd	41
	Stelcon (Industrial Floors) Ltd Sterling Textile Industries, Ltd	
	Sundeala Board Co., Ltd	
	Sundeala Board Co., Ltd. Supremus Tile Co., Ltd. Taylor Woodrow Construction, Ltd	
	Thompson Beacon Windows, Ltd., John	
	Thornborough & Son (Manchester), Ltd.	
	Tretol, Ltd Tucker, Duncan (Tottenham), Ltd	1
	Tucker, Duncan (Tottenham), Ltd	-
	Uni-Seco, Ltd. United Steel Companies, Ltd., The	
		_
	val de Travers Asphalte Paving Co., Ltd. Vulcan Products, Ltd. Wadsworth Wm. & Sons, Ltd. Ware, W. C., & Sons, Ltd. Waring & Gillow, Ltd. Water & Corry, Ltd.	
	Wadsworth Wm. & Sons, Ltd	
	Ware, W. C., & Sons, Ltd.	-
	Waring & Gillow, Ltd	
	Westland Engineers, Ltd.	
	Wheeler, F. H., & Co., Ltd	
	Youngman, W. C., Ltd	
_l	men etc. This mostle and	

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see pages lix, lx, lxi, lxii and lxiii.



A PRODUCT

Designed for Convenience!

Designed for ease and convenience this 15A 3-pin B.S.546 switch-socket outlet for flush mounting is smooth and modern in appearance and sturdy in construction. Insulation is ample and maintenance negligible, Available in horizontal and vertical designs,



THE GENERAL ACCESSORIES CO. LTD.

21 Bruton Street, London W. 1. Tel. MAYfair 5543 (5 lines). Grams : Tegenacco Wesdo, London







TIME WILL DECIDE YOUR REPUTATION !

Changing seasons, changing temperatures will test your workmanship. Time will tell whether or not you have used the best possible materials. Use only Smith & Rodger Protective materials. Use only Smith & Rodger Protective Paints and Time will decide your reputation is of the highest. Products include, "Vitamel" Fine White Enamel, "Vitamel" Hard Gloss Paint, "VITACHARM" Flat paint for both undercoating and finishing, "Waldura" Washable Distemper, "Vitamatt" Flat Finishing Paint.

Certain of our goods are still restricted and this advertise-ment is intended to keep our name before our customers during a period when many o items are still scarce or unobtainable.

VARNISHES

SMITH & RODGER LTD., ELLIOT STREET, GLASGOW. Telephone: CITY 6341-2. Telegrams: "SMITH RODGER," Glasgow.

These two boards



A product of

JICWOOD LTD.

Weybridge Surrey Tel: Weybridge 1600 CAN **OVERCOME** YOUR TIMBER DIFFICULTIES

The WEYROC boards are the most efficient alternative to timber. have countless applications in the furniture and building trades. No licence is required. WEYROC GRADE P.S. has all the strength, toughness and density of WEYROC but is paper surfaced, giving greater resistance to moisture and heat and requiring no woodfilling before painting. For full details apply to sole distributors:

LONDON: Gabriel, Wade & English Ltd., Aldwych House, Aldwych, W.C.2.

LEEDS: Alvin Morris (Timber) Ltd., Black Bull Street, Sawmills, Leeds, 10.

MIDLANDS: C. Walsh Graham, Ltd., Wednesbury, Staffordshire. E. Sherry Ltd., Homerton Bridge, E.9. LIVERPOOL: Chas. Taylor, Sons & Co. (1945) Ltd., B. 56-58 The Temple, Dale Street, Liverpool, 2.

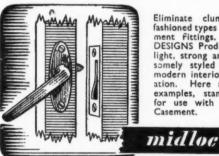
LONDON:

BOURNEMOUTH: Sherry & Haycock Ltd., Oxford Road, Bournemouth, Hants.

The demand for all grades of Weyroc is ever-increasing and we are doing our utmost to meet it.

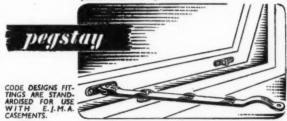


WHEN PLANNING THE MODERN HOME



Eliminate clumsy old fashioned types of Casement fittings. CODE DESIGNS Products are light, strong and hand-somely styled to suit modern interior decor-ation. Here are two examples, standardised for use with E.J.M.A. Casement.

MIDLOC. Single point fastener finished dull nickel place or A.C.B. Gives smooth and positive closure for light easements.



PEGSTAY. Standard type for casement and vent —holds window closely at two points when shut. Also in dull nickel plate or A.C.B. finish. and for full particulars of Code Designs specialities, including addices, Hinges, Swivots, etc.



