ARC



contents tandard

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

COMMENTNEWS and

Diary News

Astragal's Notes and Topics

Letters

Societies and Institutions

SECTION TECHNICAL

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

BUILDINGS CURRENT

STATISTICS *HOUSING*

Architectural Appointments Wanted and Vacant

SBPM

[VOL. 114 No. 2946] THE ARCHITECTURAL PRESS 9, 11 and 13, Queen Anne's Gate, Westminster, 'Phone: Whitehall 0611

> Price Is. od.

Registered as a Newspaper.

of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ie one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address. IGE IHVE Institution of Gas Engineers. 17, Grosvenor Crest Institution of Heating and Ventilating Engineers. 17, Grosvenor Crescent, S.W.1. Sloane 8266

glossary of abbreviations of Government Departments and Societies and Committee

75, Eaton Place, S.W.1. Sloane 3158/1601 IIBD Incorporated Institute of British Decorators. Dravton House, Gordon Street,

W.C.1. Euston 2450 Institute of Landscape Architects. 12, Gower Stree W.C.1. Museum 1783 Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2. Temple Bar 4071 ILA Lof Arb.

Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197/5176
Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851
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
Inland Waterways Association. 11, Gower Street, W.C.1. Museum 9200 IOB IR IRA Abbey 6172 Sloane 7128 ISE IWA Museum 9200 LIDC Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.

LMBA MARS

London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891
MARS Group (English Branch of CIAM). Secretary: Gontran Goulden,
Building Centre, 9, Conduit Street, W.1. Mayfair 8641
Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Whitehall 3400
Ministry of Health. Whitehall, S.W.1. Mayfair 9400
Ministry of Local Government and Planting Advanced Control of Local Government and Planting Advanced Control of Local Government and Planting Control of Control o MOA MOF MOH Ministry of Fleath. Whitehall, S. W.I.

Ministry of Local Government and Planning. 23, Saville Row, W.I. Regent 8411

Ministry of Labour and National S. vice, 8, 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. Mayfair 9494

Ministry of Works. Lambeth Bridge House, S.E.1. MOLGP MOLNS MOS MOT MOW

NAMMC Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1. Abbr 1010 National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbe, 4813
National Buildings Record. 37, Onslow Gardens, S.W.7. Kensington 8161
National Council of Building Material Producers, 10, Princes Street, S.W.1. Abbey 5111 NAS NRR

NCBMP National Council of Building Trades Employers. 82, New Cavendish Street W.1. Langham 4041/ NFBTE Langham 4041/4054

National Federation of Building Trades Operatives, Federal House,
Cedars Road, Clapham, S.W.4. Macaulay 4
National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 10
National House Builders Registration Council. 82, New Cavendish Street, W.1. NERTO Macaulay 4451 Whitehall 1693 NFHS NHBRC

Langham 4341 Molesey 1380 City 1476 National Physical Laboratory. Head Office, Teddington. Mol National Sawmilling Association. 14, New Bridge Street, E.C.4. National Smoke Abatement Society. Chandos House, Buckingham Gate, NPI NSA NSAS

S.W.1. Abbey 1359 National Trust for Places of Historic Interest or Natural Beauty.

42, Queen Anne's Gate, S.W.1.
Political and Economic Planning.
Reinforced Concrete Association.

94, Petty France, S.W.1. NT Whitehall 0211 Whitehall 7245 PEP

Whitehall 9936 RCA Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. RIAS Edinburgh 20396 RIBA RICS

Royal Institute of British Architects. 66, Portland Place, W.1. Langham 5721
Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.
Whitehall 5322/9242 Royal Fine Art Commission. 22A, Queen Anne's Gate, S.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. Grosvenor Gardens House, RFAC Whitehall 3935 Regent 3335 RS RSA Trafalgar 2366 RSI Sloune 5134

Wimbledon 5101 Grosvenor Gardens, S.W.1. Victoria 2186

SCR Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8. Western 1571 Society of Engineers. 17, Victoria Street, Westminster, S.W.1.

Abbey 7244
School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3. SE SFMA

Mansion House 3921 Structural Insulation Association. 14, Moorgate, London, E.C.2. Central 44/
Society of Industrial Artists. 7, Woburn Square, W.C.1. Langham 19/
Scottish National Housing. Town Planning Council.
Hon. Sec., Robert Pollock, Town Clerk, Rutherglen. Central 4444 SIA Langham 1984 SIA SNHTPC

Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. SPAB

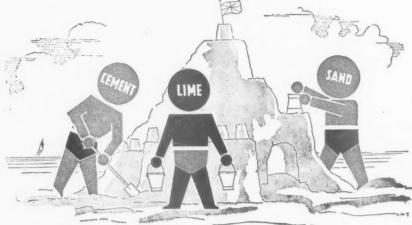
Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2, Temple Bar 5006
City 4771 TCPA Timber Development Association. 21. College Hill, E.C.4. The Gas Council. 1, Grosvenor Place. S.W.1. Town Planning Institute. 18, Ashley Place, S.W.1. TDA Sloane 4554 TGC Victoria 8815

TPI TTF WDC Timber Trades Federation.
War Damage Commission.

69, Cannon Street, E.C.4.
Devonshire House, Mayfair Place, Piccadilly, W.1. Mayfair 8866 Welfare Equipment Development Association. 74, Victoria Street, S.W.1. WEDA

Victoria 5783 Zinc Development Association. Lincoln House, Turl Street, Oxford. Oxford 47988 ZDA

These three together mean speedier constructions



or any other brick buildings, the Cement/LIME Sand Mix provides the mortar that saves money, saves time and makes a better job.

For a better job in less time use —

• Full details of Cement/Lime/Sand mixes will be sent on application to:—

THE SOUTHERN LIME ASSOCIATION, HANOVER HOUSE, 73-78 HIGH HOLBORN, LONDON, W.C.I.

Tel: HOLborn 5434

Treading on safe ground

Years of Laboratory research lie behind the superb elegance and lifelong durability of RITZIDE. Laid in any design anywhere in Great Britain. Highly recommended for use in Housing Schemes, Private Houses, Shops, Schools, Factories, etc.





LEATHERFLOR LIMITED

Full particulars and prices gladly sent. Write or phone Leatherflor, Limited, Wellington Works, Wellington Road, Forest Gate, London, E.7. (Tele. MARyland 3786)—Leatherflor, Limited,; Inch Mill, Hume Street, Arbroath, Scotland. (Tele. ARBroath 3271)—Leatherflor, Limited—3, Oldgate, Morpeth, Newcastle, (Tele. MORpeth 463)

tles dings,

Mix saves

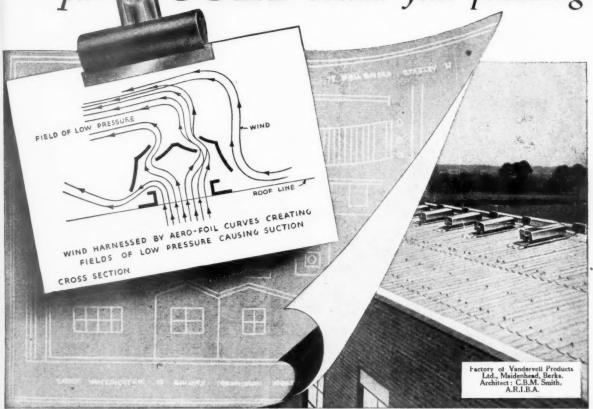
akes a

n 5434

hone oad, 5)— oath, d— 463)

The ven firs isec ext: corr pla flui progla obl

RIGHT from the start ... put OCOLT behind your planning



The Colt organisation has the science of ventilation at its finger-tips—from the first principles, down to a highly specialised knowledge of air induction and extraction under every type of atmospheric condition. When you are drawing-up plans, and while your ideas are still fluid, come to us with any ventilation problems you may have. We shall be glad to help you: and without any obligation, naturally.

A FREE MANUAL with full specifications of the types of standard Colt Ventilators is available on request from Dept. U. 167

THE COLT S.R. VENTILATOR, illustrated above, is designed on aerodynamic principles embodying aero-foil curves that prevent the elements from interfering with the escape of the hot vitiated air which rises through the ventilator in accordance with the Laws of Convection.

Furthermore, these aero-foil curves assist this natural process by harnessing the free power of the wind and roof eddies, no matter from which direction they come, creating a suction which can produce a power of extraction equal to that of mechanical means without the drawbacks of noise, wearing parts or operating and maintenance costs.

These aero-foil curves have been so designed as to give a flat curve of extraction to prevent extraction from becoming excessive with the high winds of winter.

Just one example of the many types of ventilation that Colt have planned or carried out for over 4,000

Just one example of the many types of ventilation that Colt have planned or carried out for over 4,000 prominent firms throughout the country.

COLT VENTILATION

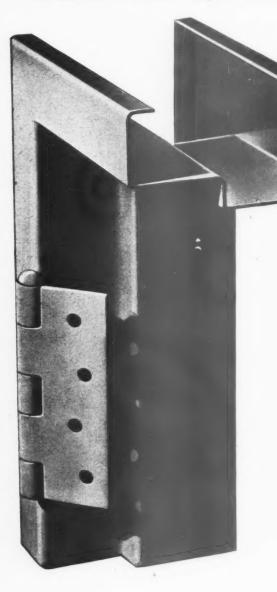
INDUSTRIAL AND DOMESTIC

Colt Ventilation Ltd., Surbiton, Surrey. ELMbridge 6511-5

Also at Birmingham, Bradford, Bristol, Kilmarnock, Manchester, Newcastle, Newport (Mon.) and Shoffield



SEE COLT ABOUT VENTILATION-WHATEVER YOU DO



door frames and metal trim

FOR THE BUILDING INDUSTRY

Door frames - skirting - corner beading - picture railing - winds lining sub frames. Sankey make them all, to British Standard specific tion, and have had years of experience in this type of work.

A comprehensive range of stock sections is carried and we are anxious to co-operate in every way with architects and builders.

Full details and prices on application.

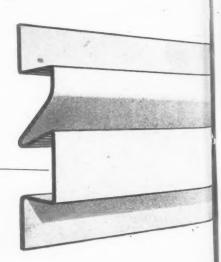
ASK Sankey OF WELLINGTON

HADLEY CASTLE WORKS, WELLINGTON, SHROPSHIRE.

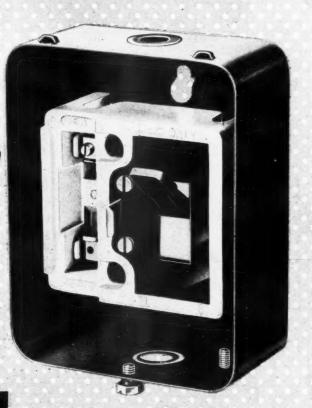
Phone: 500 WELLINGTON, Tolegrams: SANKEY, WELLINGTON.

LONDON OFFICE:





NEW right through FOR SINGLE POLE AND NEUTRAL DUTY





windo

anxiou

Send for the new Switchcraft catalogue (List No. 311) and full details of the new range.

are interchangeable.

MEMSPEL & MEMSPAN

are the steel-clad and all-insulated versions of an entirely new range of switch fuse gear designed by MEM for single pole and neutral installations. All the skill of MEM's design team has gone into this job. Outstanding features are extreme compactness and simplicity of wiring—slow break A.C. switch, choice of BS1361 cartridge or rewirable fuses with interchangeable holders, and effective interlocking. Available in steel-clad and all-insulated units for 15, 30 and 60 amps including 2, 3 and 4-way splitters.

You will be delighted with the excellent design and fine workmanship, particularly when you check the attractive prices.



MIDLAND ELECTRIC MANUFACTURING CO. LTD., TYSELEY, BIRMINGHAM 11

Branches in London & Manchester



You'd have to open lots of doors

before you'd find a better door than an Austin door

the same high quality is found in kitchen units, windows, staircases—In fact any Austin Joinery

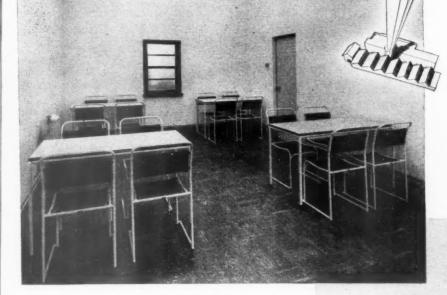


AUSTINS OF EAST HAM LTD., LONDON, E.S. GRANGEWOOD 3444 the parent Company of THE AUSTIN-HALL GROUP OF COMPANIES





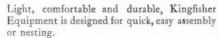






THE days when employees ate sandwiches at desk or bench are rapidly becoming past history. More and more the trend is towards the provision of comfortable canteens where flagging energies are renewed to maintain the high rate of production which modern conditions demand.

Constructed on the nesting principle Kingfisher Tubular Steel Furniture provides an economy of method and efficiency eminently suitable for canteens as well as public halls, civic restaurants and other public buildings.



The photographs reproduced by courtesy of the Eastern Gas Board (Tottenham) Division show a typical canteen installation of Kingfisher Equipment at the Gas Works, Ponders End, Middx.

The quality of materials and experienced workmanship contribute to the production of furniture of outstanding quality which will withstand the most arduous conditions.





KINGFISHER LIMITED. Charles Street and Phoenix Street, West Bromwich, Staffs. Phone: Tipton 1631

Grams: Kingfisher, Phone, West Bromwich.

London: 139 Knightsbridge, S.W.I. Phone: Kensington 1331



Sniffs and sneezes are seldom heard in this family. That's because there are no cold corners in the home, no treacherous draughts haunting the passages. Radiation ducted air spreads genial warmth all through the house—warmth that can always be regulated to meet the needs of the day and hour.

The Radiation system may be installed with either a solid fuel appliance which burns, without smoke, any solid fuel including bituminous coal, or as a fully automatic gas unit. Architects, housing authorities and others—especially those interested in smoke abatement—should write for literature explaining the system in full, or visit the experimental houses at Stanmore where both solid fuel and gas installations may be seen in action. But please apply first for an appointment to Radiation Group Sales Limited, Lancelot Works, Wembley, Middlesex. Telephone: Wembley 6221.

Whole-house Warming by Radiation ducted air These

effici

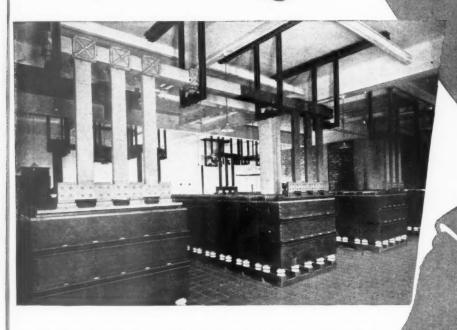
field

and

prin

ISSUED BY RADIATION LIMITED, ASTON, BIRMINGHAM, 6, AND 7/8 STRATFORD PLACE, LONDON, W.I.

P & G BATTERIES in the public service



These batteries in the Museum Telephone Exchange, London, are typical of many P & G batteries installed throughout the country to maintain telephone efficiency. Our 60 years' experience in the battery business covers a vast and varied field; including batteries for generating stations, railway electrification work and emergency lighting systems. P & G 3 point service working on the sound principle of two heads being better than one, exists to provide: 1. Detailed specifications or an impartial second opinion on any scheme. 2. Complete equipment and installation. 3. Regular inspection and report.

PRITCHETT & GOLD and EPS Co. Ltd

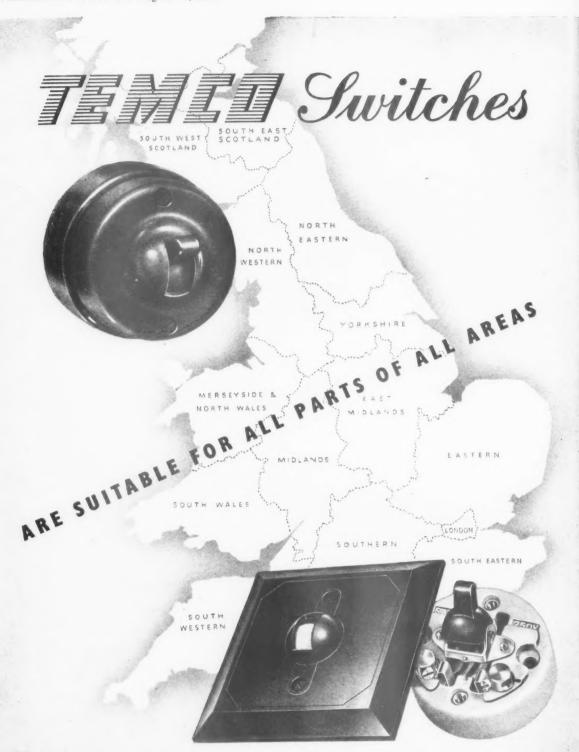
50 GROSVENOR GARDENS · LONDON · SWI

Batteries and Control Panels for Emergency Lighting





....



TEMCO Switches comply with B.S.S. 816 and are made to the same high standard of quality as all TEMCO Accessories. The quick-make-and-break underslung action is semi-positive and the spring contacts are self-adjusting. The base is of best quality porcelain, while the dolly and cover are moulded. The dolly has no metal insert. Supplied in surface, semi-recessed and flush patterns in brown on white, all brown, or all white finishes. Switch plates up to 4 gang in brown or white available for use with flush Switches. Complete Accessory Catalogue Series 2 available on request.

Manufactured by: TELEPHONE MANUFACTURING COMPANY LTD. and Marketed by their Sales Organisation: T.M.C.-HARWELL (SALES) LTD. 37 UPPER BERKELEY STREET, LONDON, W.I. Tel: Paddington 1867-8-9



HARDWOOD FLOORS LAST A LIFETIME



HARDWOOD FLOORS

Hardwood floors are a true economy. Their life is long—they do not 'tire'. Their beauty and comfort make the expense of additional floor coverings a matter of taste rather than necessity. They are a sound long term investment.

Beech, illustrated, is an excellent choice where cost is a consideration. Its fine even silky texture offers high wear resistance to heavy traffic. The surface has a pleasing variation in colour tones.

Uses—LIGHT INDUSTRY, PUBLIC BUILDINGS, INSTITUTIONS, BUSINESS PREMISES, HOTELS, HOUSES—where traffic is mainly pedestrian.

THE HARDWOOD FLOORING MANUFACTURERS' ASSOCIATION 14 New Bridge Street, London, E.C.4. Telephone: City 1476-7

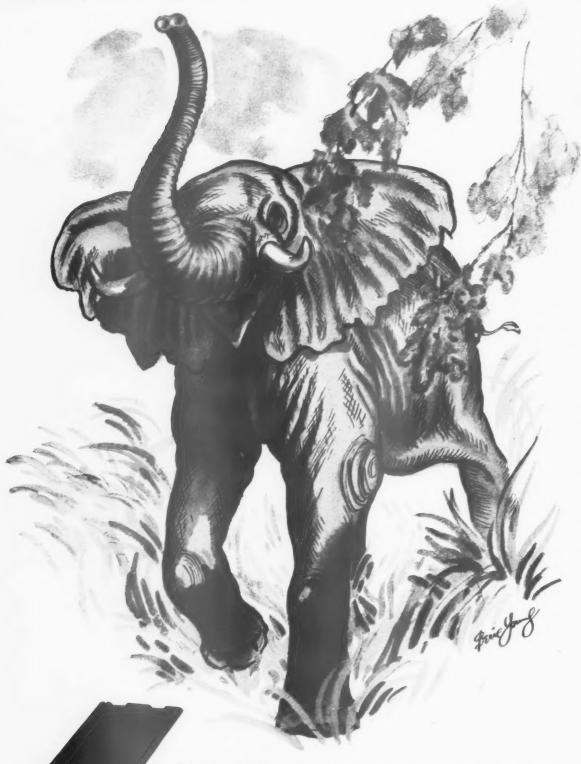
ASSOCIATION OF FLOORING CONTRACTORS

69 Cannon Street, London, E.C.4. Telephone: City 2513-4444

compare favourably in cost



THE ARCHITECTS' JOURNAL for August 16, 1951



LONGEVITY. Marley Tiles are covered by a Guarantee for fifty years against lamination and decay. The Guarantee also covers the full maintenance of the roof tiling for a period of ten years when the tiling is carried out by Marley.



MARLEY

The Marley Tile Company Limited, London Road, Riverhead, Kent. Sevenoaks 2251/6





The longest in the world -



J. & E. Hall designed, manufactured and installed the Escalator in the Dome of Discovery, South Bank Exhibition, which has the largest unsupported span of any escalator in the World.

With a vertical height of 36 feet, a width of 4 feet and a structure over 60 feet long on the incline, this escalator is capable of handling over 8,000 passengers per hour.

J. & E. Hall Ltd. DARTFORD . KENT

The most VERSATILE flooring





For further information, please write to The Secretary, Floor Quarry Association, Federation House, Stoke-on-Trent.

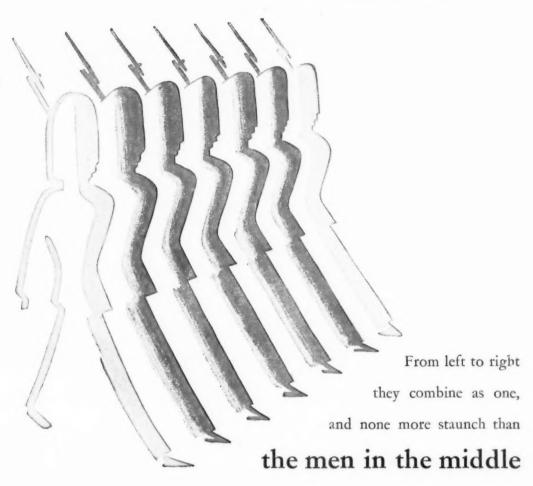
Bank or cowhouse, dairy or showrooms—can a flooring material be equally suitable for such diverse purposes?

Consider the properties of Clay Floor Ouarries. They are extremely dense, tough durable. and exceptional resistance abrasion and impact. They can be polished to enhance their rich, warm colour or, being almost impervious to moisture, may be sluiced mopped with Skirtings of the same material save timber, render a floor vermin-proof, and greatly facilitate cleaning.

Clay Floor Quarries are available in a wide range of sizes, thicknesses, and shapes, and in uniform shades of red, blue, brown and buff, or in multi-colours. Attractive effects are obtainable by using contrasting shades or a combination of different sizes.

With all their advantages, Clay Floor Quarries COST LESS THAN ANY OTHER FLOORING MATERIAL. Correctly laid, a Quarry floor will last as long as the building.

Clay Floor Quarries



That's just the way it is with "Thamesply"

—as sound in every internal lamination as it is on
the surface. At every stage, from the selection of the
raw logs from which the veneer is peeled or sliced to producing
a silk-smooth finish on its flawless facings, "Thamesply" is made
with that combination of care, skill and advanced manufacturing methods which
result in a top quality product. Multi-ply, blockboard, laminboard, moulded plywood
shapes, densified plywood—whatever plywood you need, specify "Thamesply."

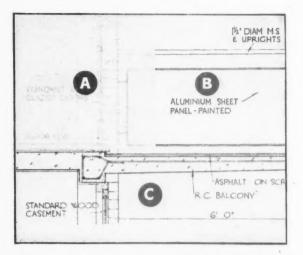


Supplied only through the usual trade channels

THAMES PLYWOOD MANUFACTURERS LIMITED

HARTS LANE, BARKING, ESSEX.

Telephone: Rippleway 2241-2-3-4.



Compare the transparency of 'Ethulon' with that of other tracing materials

- $\boldsymbol{\mathsf{A}}$ The upper left-hand portion of the drawing has been covered with tracing-linen.
- B The upper right has been left uncovered.
- **C** Below the centre-line the entire width of the drawing has been covered by a strip of 'Ethulon'.



C3

— the ideal medium for accurate tracings—takes pen, pencil, crayon or paint

'Ethulon' is a tough, flexible, transparent plastics film with a matt, grainless surface on which fine continuous lines can be drawn. It does not warp or cockle with changes in temperature and humidity or discolour or become brittle with age. Dimensional stability is high and tracings on 'Ethulon' remain truer to scale under varying climatic conditions.

Try Ethulon' for yourself.

We shall be happy to send any drawing office a sample of 'Ethulon'. Please mention this journal

'Ethulon' Tracing Film is supplied in 10 yard rolls 30" & 40" wide and may be obtained from any drawing office material supplier.

manufactured by MAY & BAKER LTD

DISTRIBUTORS: M&B PLASTICS LTD 3 WIMPOLE STREET, W.I. TELEPHONE: LANGHAM 3494

BITULACUM

prevents disintegration of walls and floors of concrete, plaster, cement

or brick . . . resists penetration of moisture,



petrol, oil,

grease and



paraffin . . . is equally suitable for use indoors

and out . . . is supplied in 15 standard colours, black, white and transparent

matt or gloss finish . . . for walls



and floors of factories, workshops

power stations, garages, canteens, aeroplane



hangers . . . for

exteriors of all buildings of brick, concrete and stone.



Bitulac Ltd., Collingwood Buildings, Newcastle upon Tyne, London Office: 219 220 Dashwood House, Old Broad Street, London, E.C.



don't bark

CB

4

ent

il

ors

ent

ps,

for

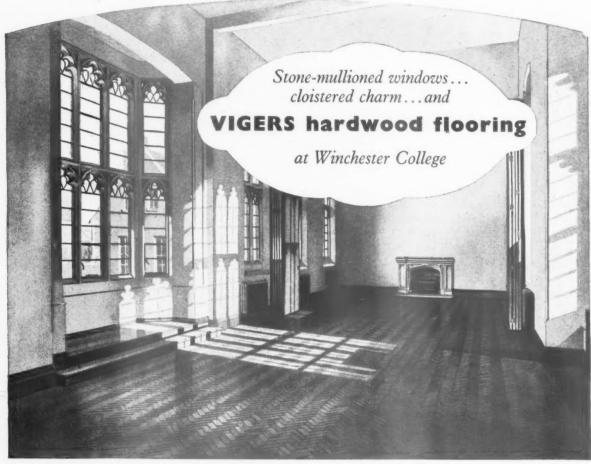
To a baby a woolly toy may be indistinguishable from a living animal—but a dog-lover knows the difference! Baby's plaything won't beg for bones or run after sticks, however loudly you shout 'Fetch it, Rover'!

There are substitutes for wood, too, and to the ordinary person they may look just as good. But the expert knows the truth of the saying 'There's nothing like wood'. Wood is alive: wood has character: wood is something you grow fond of.

All very true, you may say, but can we get wood if we specify it? Well, there is a shortage of some traditional timbers—but on the other hand many new timbers are coming into the country. The Timber Development Association will be glad to put you into the picture on the supply situation. Why not drop them a line about your particular problem?



HARDWOOD FLOORS LAST A LIFETIME



Architect: Christian C. T. Doll, F.R.I.B.A.

WHETHER in a traditional college atmosphere, such as Winchester, or in surroundings of contemporary architecture, may be in a public building or factory, home or office block, a Vigers hardwood floor is always in character.

It is probably the most versatile type of flooring—it is certainly one of the most durable you can specify. It has beauty, colour and comfort to the feet and it offers the three-fold economy of moderate initial cost, generations of service and saving of expense on additional floor coverings.

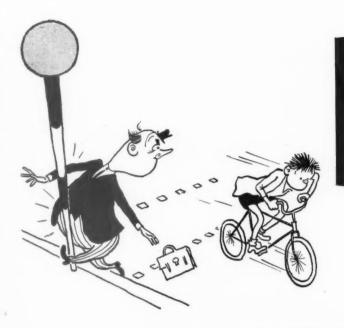
Vigers will be pleased to quote for hardwood block or strip flooring to meet any requirements—for hardwoods are free of control.

VIGERS BROS. LIMITED

Specialists in Wood Flooring

BROADWAY CHAMBERS, LUDGATE BROADWAY, LONDON, E.C.4

Telephone: City 2111 (6 lines) Telegrams: Vigentes, Cent, London.



whenever you encounter a BELISHA BEACON...

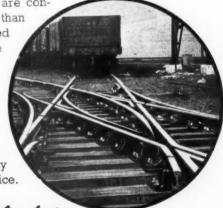
1WW

RAIL DEPARTMENT
SERVICE includes:—
FISHPLATES, BOLTS,
SPIKES, COACHSCREWS, FERRULES,
DOGSPIKES, CHAIRS,
KEYS, SLEEPERS,
CROSSING TIMBERS,
SWITCHES, CROSSINGS,
TURNOUTS, WHEELS,
AXLES, BOGIES, TIPWAGONS, PORTABLE
RAILWAY, TURNTABLES
BUFFER STOPS, RAMPS

remember WARDS for CROSSINGS

There are crossings and crossings. We at WARDS are concerned with the railway variety, and have no more than a nodding acquaintance with individuals connected with other types of crossing—Mr. Belisha, for example or the stewards on the Dover-Calais steamers.

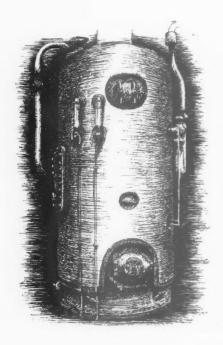
The crossings we are familiar with are usually common or obtuse; and perhaps because of these very human characteristics we thoroughly understand them. Whenever, therefore, you have any problems in connection with the planning, construction or maintenance of railway sidings WARDS really can be of service.



The Railway Sicling Consultants and Contractors

THO? W. WARD LTD ALBION WORKS SHEFFIELD

TELEPHONE 26311 (20LINES) - TELEGRAMS 'FORWARD' SHEFFIELD LONDON OFFICE: BRETTENHAM HOUSE · LANCASTER PLACE · STRAND · W.C.2 ·



heat well held . . .

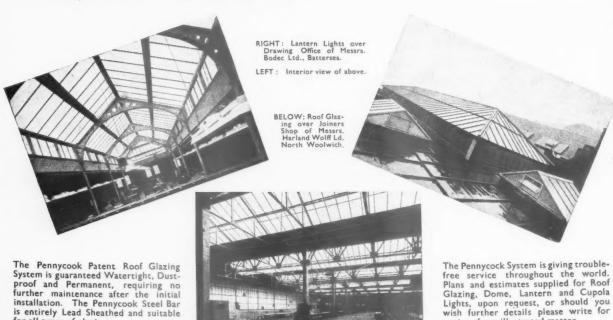
Versil Glass Silk has outstanding claims as a thermal insulation. In many cases no skilled labour is required in fixing, and-supplied in various forms-it is fitted quickly, easily and cleanly . . . on bot or cold surfaces . . . taking all manner of external finishes to suit local conditions. For a reasonable initial outlay, Versil provides a secure investment against be at dissipation; and one, moreover, that does not depreciate in value, for Versil is a long-lived insulation which virtually takes care of itself. Write to VERSIL Ltd., Rayner Mills, Liversedge, Yorks.

IN A WORD

EBSIL

GLASS SILK INSULATION

PENNYCOOK PATENT ROOF GLAZING



System is guaranteed Watertight, Dust-proof and Permanent, requiring no further maintenance after the initial installation. The Pennycook Steel Bar is entirely Lead Sheathed and suitable for all types of glazing.

Phone: Bishopbriggs 1117/9

GLAZING & ENGINEERING CO. LTD. THE PENNYCOOK PATENT

copies of our illustrated matter.

ST. MUNGO WORKS, BISHOPBRIGGS, GLASGOW, N. Grams: "PENNYCOOK," Glasgow. London Office. 3 VICTORIA STREET, WESTMINSTER, S.W.I. Phone: ABBEY 6610.

Steel Stairs



FOR THE

DOME OF DISCOVERY

FESTIVAL

OF BRITAIN

Two of the eleven stairs supplied and erected by us. The stairs include the main staircases to the Polar Gallery and all the external exit stairs.



Architect: Ralph Tubbs, A.R.I.B.A.
Contractors: Messrs. Richard Costain &
Co. Ltd.

One of the wide range of BBBABBY

PRODUCTS



oof ola ou for

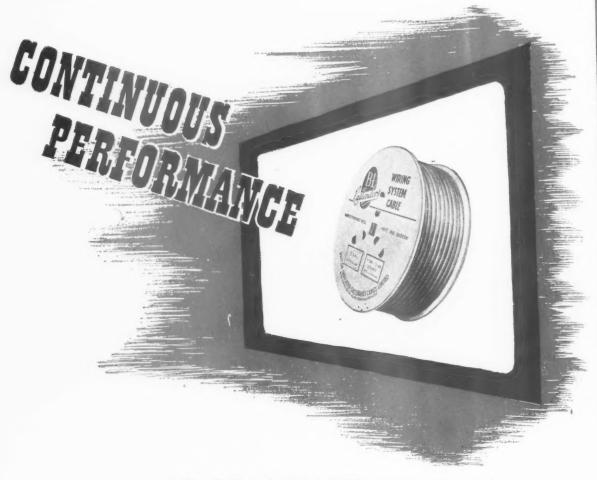
FREDERICK BRABY & COMPANY LTD

ECLIPSE WORKS, PETERSHILL ROAD, GLASGOW, N. TEL: SPRINGBURN 5151

OTHER FACTORIES AT: 352 EUSTON ROAD, LONDON N.W.I TEL: EUSTON 3456 • IDA WORKS,
DEPTFORD, LONDON S.E.8 TEL: TIDEWAY 1234 • HAVELOCK WORKS, AINTREE, LIVERPOOL 10

TEL: AINTREE 1721 • ASHTON GATE WORKS, BRISTOL 3 TEL: 64041 • ALSO FALKIRK & MOTHER WELL

OTHER OFFICES: 110 CANNON STPEET, LONDON E.C.4 (EXPORT) TEL: MANSION HOUSE 6034 • QUEEN'S
BUILDINGS, 10 ROYAL AVENUE, BELFAST TEL: 26509 • PALACE STREET, PLYMOUTH TEL: 2261



Use BICC Rubber Insulated Cables and be sure of continuous trouble-free performance with all your wiring installations.

BICC manufacture every type of cable for every kind of electrical installation in farms, factories, offices, blocks of flats and houses.

Send for these publications, available on request:-

Rubber Cables and Flexibles-No.269Ve

Farm Wiring System-No.236P

All-Insulated Industrial Wiring System-No.298S

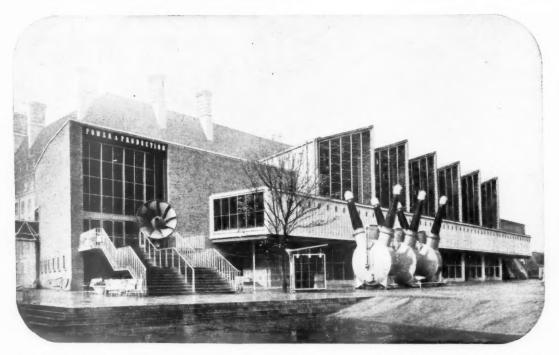


RUBBER INSULATED CABLES

BRITISH INSULATED CALLENDER'S CABLES LIMITED NORFOLK HOUSE, NORFOLK STREET, LONDON, W.C.2

WELDED TUBULAR CONSTRUCTION

-by the originators of tubular scaffolding!



POWER AND PRODUCTION BUILDING.

E D

FESTIVAL OF BRITAIN.

Architects: G. GRENFELL BAINES, A.R.I.B.A., A.M.T.P.I., IN COLLABORATION WITH H. J. REIFENBERG, Dipl.lng.Arch.

Engineer: FELIX J. SAMUELY, B.Sc.(Eng.)Lond., A.M.I.C.E., M.I.Struct.E., F.I.A.S., M.I.W.

Welded tubular construction does the job with less steel, skilful design saving up to 60%. Its clean modern appearance pleases the eye of the architect. The simple shapes which arise from the method of construction are easy to protect against corrosion.

SCAFFOLDING (GREAT BRITAIN) LTD.
MITCHAM SURREY

Telephone: MITCHAM 3400 (18 lines)

Telegrams: SCAFCO, MITCHAM

Branches at: ABERDEEN * BIRMINGHAM * BOURNEMOUTH BRIGHTON * BRISTOL

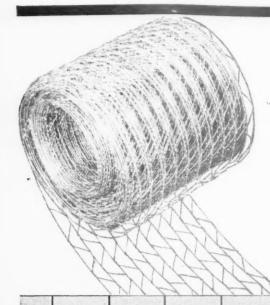
CAMBRIDGE * CARDIFF * DOVER * DUBLIN DUNDEE . EDINBURGH EXETER

GLASGOW * HULL * LEEDS * LIVERPOOL * MANCHESTER * NEWCASTLE * NOTTINGHAM

OXFORD * PLYMOUTH * PORTSMOUTH * SOUTHAMPTON STOKE-ON-TRENT * SWANSEA

SGB WELDED STRUCTURES DIVISION





BONDENN' REINFORCEMENT

is suitable for reinforcing brick-work

It is so designed that the main members distribute the load evenly. To provide ADEQUATE PROTECTION AGAINST CORROSION it is GALVANISED AFTER MANUFACTURE. This protection is one of the main essentials for reinforcement in conjunction with GLASS BLOCK CONSTRUCTIONS.

BONDENN IS ONE OF THE REINFORCEMENTS APPROVED BY THE GLASS BLOCK MANUFACTURERS

Permanent Exhibit on



Cel whi

wat

per

inc

GALVO (WIRE NETTING) LIMITED

★ Over 50 experts have combined to make

MODERN BUILDING

CONSTRUCTION

Edited by RICHARD GREENHALGH, A.I.Struct.E.

These three volumes contain the experience and skill of craftsmen and experts—men who learned from years of practical work the best way to do a job. Whether you have been in the Industry for many years or have only recently taken it up you will find these books invaluable.

Post this Coupon TODAY

THE NEW ERA PUBLISHING CO. LTD. Pitman House, Parker Street, London, W.C.2

Pitman House, Parker Street, London,

Please send me, free of cost or obligation, your Illustrated
Brochure on Modern Building Construction, and
particulars of your offer to deliver the complete work for
a nominal first payment, the balance to be paid by a few
further monthly instalments.

Name
Address
A.J.70

Craftsmanship in Building Building Calculations Builder's Geometry Building Science Brickwork Training of Craftsmen

Training of Craftsmen and Specialists in the Building Industry Roof Coverings

Plastering
Painting and Decorating
Paperhanging
Glazing
Plumbing

Gas-Fitting
Electrical Fitting
Training and Opportunities of
an Architectural Student
History of Architecture
Architectural Drawing

Architectural Design Architectural Acoustics Architect's Office and Routine Structural Engineering Fire-resisting Construction Concrete Plain and Reinforced Masonry Joinery Carpentry

Stairs and Handrails
Shop Fronts and Fittings
Builder's Office and Routine
Book-keeping, Accounting,
Costing
Estimating

Preliminary Operations Superintendence Drainage and Sanitation Heating Ventilation

Prefabrication
Land Surveying and Levelling
Specifications and Quantities
Building Law
Royal Institute of British

Architects
Chartered Surveyors' Institution
Institution of Structural Engineers

PRESENTED IN THREE PROFUSELY ILLUSTRATED VOLUMES WITH FIVE INSET COLOUR PLATES.



Reproduced from: THE BOOK OF ENGLISH TRADES & Library
of the Useful Arts, 1821

THE PLUMBER

Melting solder, moulding lead, the plumber is a man of power. By pipes, conduits, ducts and cisterns he brings to Man the waters of the earth and air. His proud work in humble metal still stands the test of Time . . .

AND CRAFTSMANSHIP LIVES ON With the coming of the Industrial Revolution and the development of machinery, the era of the lone craftsman passed into history. No longer was one man single master of his trade. Instead, the work was divided among specialists, each one a craftsman in his own particular line. To-day, the individual is an expert, whose specialised skill is an essential part of the whole.

T CELLON we believe in the essence of crafts-manship. For example, after a new decorative finish has been produced by our laboratory specialists, it is tested by experts who examine every Cellon product under the conditions of use for which it is intended. Like the plumber of old, whose sure skill could always cope with the vagaries of water, weather and winter, we always strive for perfection in our finished work.

The existing range of Cerrux Decorative Paints includes Gloss, Satin and Matt Finishes, Flat under-

coatings, Primers for all types of surface and, also, Cerrusco Texture and Water Paints. The skill and forethought embraced in our work together with constant research have established perfect uniformity among our standard finishes. The result is that you can always be sure of consistency of quality when re-ordering a particular finish.

On the development side, we maintain a continuous service for the production of special finishes for special needs outside the standard range. It is, in fact, a service by craftsmen for craftsmen.

CERRUX

DECORATIVE PAINTS

Created by Craftsmanship



CELLON Aircraft Finishes



Wood
Finishes



CERRUX Marine Paints



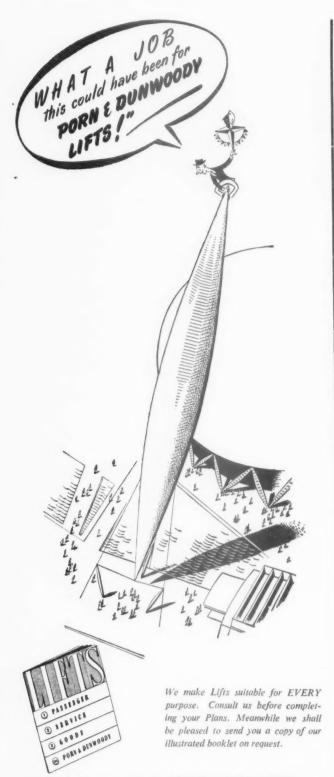
CERRUX



CERRIC Industrial Finishes

CELLON LIMITED . KINGSTON-ON-THAMES . PHONE KINGSTON

I 2 3 4 CVS-680



PORN & DUNWOODY LTD

Union Works :: Bear Gardens LONDON, S.E.1

Telephone: WATerloo 7107 (4 lines). Telegraph: Ingpornma, Sedist, London





tacting timber surface.

The 'Bulldog' Timber Connector consists of a steel plate with the edges turned off at right angles to form sharp triangular teeth projecting evenly from both sides of the plate.

'Bulldog' Timber Connectors are also made with teeth on one side only for timber to steel joints, or for portable and demountable timber buildings.

TECHNICAL ADVICE AND FULL DETAILS AVAILABLE ON REQUEST



W. F. HOLLWAY & BROTHER, LIMITED.

42, GRAFTON STREET, LIVERPOOL. 8.



Award for Merit plaque to be attached to winning entries in the scheme for good design in building and landscaping. Awards are being made by The Festival Council of Architecture.

Ceramic plaque by CARTER

Sculptor H. Wilson Parket

CARTER

I the stion. nade, most od. is of make of the

basis, lency

R

cting

y for lings.

J L L
S T

ED.

CARTER & CO. LTD., POOLE, DORSET. Telephone: POOLE 125
CARTER & CO. LONDON, LTD., 29 ALBERT EMBANKMENT, S.E. 11. Telephone: RELIANCE 1471
COMMERCIAL MARBLE & TILES LTD., NEWCASTLE-ON-TYNE. Telephone: JESMOND 900

Associated Companies: Art Pavements & Decorations Limited, The Marbolith Flooring Company Limited, J. H. Barratt & Company (1927) Limited

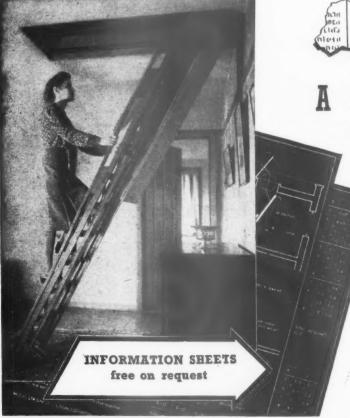
The PAINT that PROTECTS ASBESTOR

EVODE PROTECTIVE (Chlorinated Rubber) PAINTS GIVE THAT EXTRA PROTECTION

EVODE PROTECTIVE PAINTS are highly alkali and acid resisting and are the answer in all cases where a high degree of protection, durability and a pleasing semi-gloss finish is required. Practically fireproof when dry. No special primer or petrifying liquid required either on asbestos cement or on concrete. Dust dry in half an hour.

For iron, steel, wood and direct painting of asbestos cement sheeting, concrete and concrete floors, brickwork and cement renderings.

EVODE LIMITED, GLOVER STREET, STAFFORD . Tel.: 1590/1/2 . Grams: EVODE



MORE HOUSING CUTS amail Lucus redge and was letter

A LOFT LADDER

increases house space

by 20°/.

PRICES FROM £12-10-0

Government restrictions on the building of new houses, emphasises the need for using all available space in every home. The loft for instance can increase the living space of the everage house by at least 20%. With a Loft Ladder access is as safe and easy as walking up the stairs. Information sheets issued on request, show in detail how this space may be made available both in new work and conversion.

Write for full particulars and prices of the various types.

LOFT LADDERS LTD The first and original inventors of Loft Ladders and Loft Access Stairs.

BROADWAY WORKS, BROMLEY, KENT Tel.: RAVensbourne 2624

PLIMBERITE

Available in two thicknesses —

the

sises
pace
tance
f the

With and ation detail

f the

TD

ENT

for PARTITIONING

PANELLING

WALL CLADDING

ROOF LINING AND DECKING

FLUSH DOOR CONSTRUCTION

FITTED CUPBOARDS

SHELVES

VENEER CORE

SUSPENDED FLOORING *

Plimberite is a high density resin bonded chipboard possessing the general characteristics of natural timber and has considerable qualities of structural strength. It has a hard, smooth, unpitted surface on both sides and can be worked or machined using standard woodworking tools and techniques. Plimberite is flameproof, has excellent sound and thermal insulating qualities and provides a suitable base for the application of many surface finishes.

★ Vertical, static and impact load tests carried out by the British Research Station have proved the strength of Plimberite when used as suspended flooring. A copy of the full report on these tests is available to Qualified Architects and Builders on request to British Plimber Limited.

PLIMBERITE

lilustrated literature, technical data and the name of your nearest supplier available from:—

BRITISH PLIMBER LIMITED

20 Albert Embankment, London, S.E.11.

RELiance 4242



You're right— It's a Peglers!

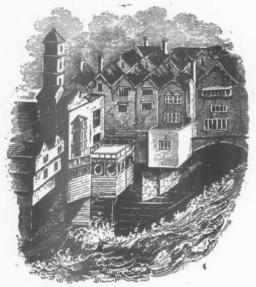


THE CITY OF LONDON

a record of Destruction and Survival

with a Report on Reconstruction by the planning consultants:

C. H. Holden and W. G. Holford



THIS IS THE STORY of the development of the City of London from Roman Times to the present day.

Here you can see the first known picture of London, made in A.D. 296, and follow the story through the growth of the mediaeval precincts, the Great Fire, Wren's plans for the City, and the Victorian improvements. A series of brilliant and hitherto unpublished photographs provide the first comprehensive record of the 1940-45 bomb damage when a third of the City was destroyed, when twenty of Wren's City churches were ruined and dramatic new views of St. Paul's were revealed over the wastes of rubble. The proposals for reconstruction prepared for the Corporation of London by the consultants, Dr. C. H. Holden and Professor W. G. Holford, are shown in full detail.

Here also an attempt is made to portray that complicated and diverse character which is peculiar to the City, that strange agglomeration of the monumental and intimate, tall business houses overlooking the intricacy of narrow alleys and quiet churchyards, the river, and the concentration of commercial and trade centres—banking, insurance, furs, shipping, textiles, wine, printing, markets and exchanges, all compressed into a few acres, an area so small that a pedestrian can comfortably encompass it in an hour or two. What he is likely to see after reconstruction is completed and new buildings are woven in amongst the ancient landmarks is visualized in a series of drawings by Gordon Cullen.

Bound in heavy buckram boards, gold blocked. Size 9½inby 7½in.; 341 pages; over 360 photographs, engravings and maps, 40 of which are in colour. Price 25s., net postage 10d.

THE ARCHITECTURAL PRESS

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



LUSSIUU FLOORING

Now being used for flats and L.C.C. Housing Schemes. Bitumen-based waterproof floor covering ideal for homes, offices, factories, hospitals etc. Non-absorbent, non-slip and hard wearing. Impervious to heat. Looks like lino, takes similar polish. Can be laid on existing concrete floors. Made in a variety of colours.

FOR

LUXOR

JOINTLESS PLASTIC FLOORING

A plastic flooring with new features of comfort, elegance and durability; Luxor has been developed as a result of many years research into the chemical reactions of oxychloride cements and extensive practical experience of the technicalities of floor laying.

FOR

FIBROUS & SOLID PLASTERING

In this department our expert staff of highly skilled craftsmen and operatives is able to carry out first-class work of every type. A John Kent job is a job well done, and good work is always economical in the long run. Your enquiries are invited.

MELON ROAD, PECKHAM, S.E.15 Tel.: RODney 5522/3/4





Solignum Solignum Wood Preserve Preserve It.

There are 3 kinds of SOLIGNUM:

SOLIGNUM WOOD PRESERVING STAIN the standard preservative used throughout the world to give protection against dry rot, decay and the ravages of insects. It preserves and stains and is available in a variety of colours.

V.D.K. SOLIGNUM WOOD PRESERVATIVE—the grade that can be painted over; and which should be used on seed boxes, garden frames and the inside woodwork of greenhouses.

SOLIGNUM WOOD BEETLE DESTROYER
—for woodworm in furniture.



WOOD PRESERVATIVE

Solignum Ltd., 30, Norfolk Street, London, W.C.2

FIRE ESCAPE STAIRS





We have made and erected fire escape stairs for the last 60 years all over Britain for:—

Government
Buildings,
Local Authorities,
Hospitals,
Office Blocks,
Theatres, etc.



The fire escape stairs shown here are typical of many made and erected by Lion Foundry.



Nothing equals perforated cast-iron treads and landings for resistance to wear and weather

LION FOUNDRY CO., LTD.

ARCHITECTURAL & SANITARY IRONFOUNDERS

CONTRACTORS TO H.M. GOVERNMENT

KIRKINTILLOCH, near GLASGOW

London Office: 124 Victoria Street, S.W.I Telephone: Victoria 9148 FD15

escape le last

over

ildings, ities,

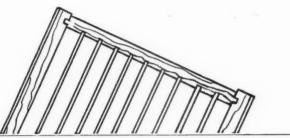
e stairs e are many erected dry.

als per-

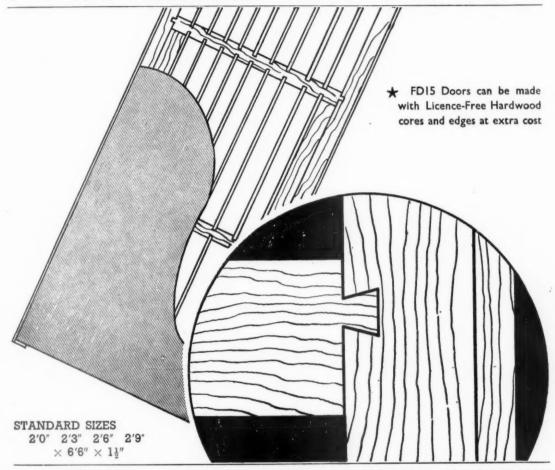
andings

ce to

RS



* A NEW HARDBOARD-FACED FLUSH DOOR



WITH DOVETAILED JOINTS & EXTRA RIGIDITY

A really well-made flush door, economical in timber and moderate in price. The Softwood cores have dovetailed joints between styles and rails, intermediate framing housed at each end and closely spaced to give adequate support to the faces of best one-eighth inch Hardboard. Vertical edges are lipped with solid tongued softwood strip.



JOHN SADD & SONS LTD.

Specialists in Joinery

STATION RD. Wharf 1, MALDON, ESSEX Telephone: Maldon 131



IOCO LIMITED · Anniesland · Glasgow · W.3

MARRYAT-SCOTT LIFTS

'Lifts" A collation of British Legislation and official recommendations on Lift Design with notes on Lift Planning. This valuable reference is profusely illustrated with plans and photographs.

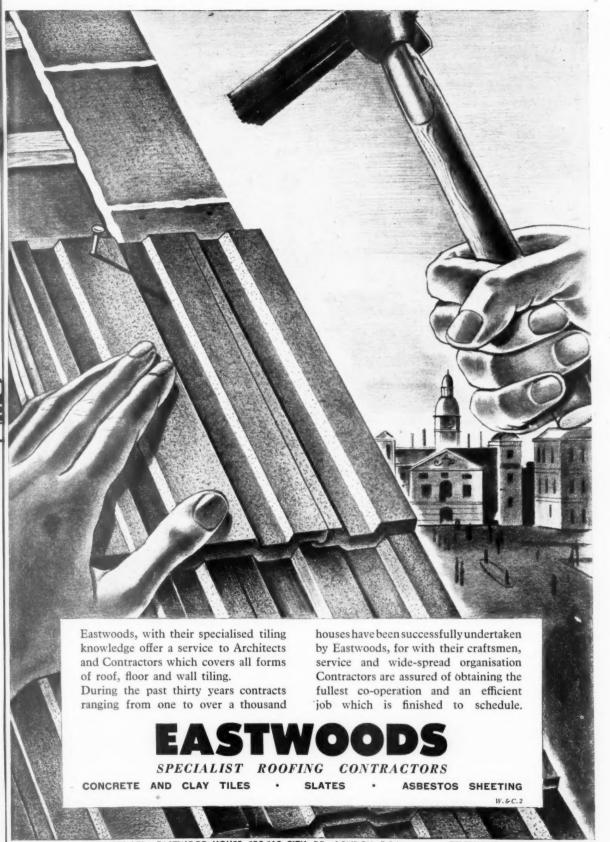
Available free on request to practising Architects from :-



MARRYAT & SCOTT LTD., The Lift Manufacturers

Wellington Works, Hounslow, Middlesex Telephone: Hounslow 6284 Telegrams: Marryat, London or from any of the following Branch Offices:

LONDON, 40 Hatton Gdn. • BIRMINGHAM, 41 Water St. LIVERPOOL, 15 Tithebarn St. • BRIGHTON, 34 Chesham Rd. BRISTOL, 29 Orchard St. CARDIFF, 67 Queen St. • BRADFORD, 154 Harris St. • EXETER, 22 Oakfield Rd. GLASGOW, Moncur St. • BELFAST, 6/7 Queen St. • DUBLIN, 38, Dawson St.



EASTWOODS SPECIALISTS LTD., EASTWOOD HOUSE, 158-160 CITY RD., LONDON, E.C.1.

ers

ondon

am Rd.

ld Rd.

TELEPHONE: CLERKENWELL 4333

A PERMANENT FEATURE

of London's South Bank

The Royal Festival Hall, designed by Robert H. Matthew, Architect to the L.C.C. and staff; Consulting Engineers, Scott and Wilson Ltd., Main Contractors, Holland & Hannen and Cubitts; Tiling Contractors, Carter & Co., London, Ltd.

For the waterproof backing of the external tiling of the Royal Festival Hall, Tretol Liquid Cement Waterproofer was incorporated in the mortar. This is one of the many Festival buildings where Tretol products were specified,



that is why



LIQUID CEMENT WATERPROOFER

was used

Please write for descriptive leaflet

RETOL LTD., 12-14 NORTH END RD., LONDON, N.W Tel: SPEedwell 4621 (5 lines)



'BROADS TRUCAST'
DUCT COVERS

Specially designed for use in —

POWER STATIONS, HOSPITALS
SCHOOLS, KITCHENS
LABORATORIES, BOILER HOUSES, ETC.

'Broads Trucast' Duct Covers are available in widths from 6" to 36", with Cast Iron Sectional Frames for bolting together to form continuous runs, with necessary angles and branches of various sizes. The Cast Iron

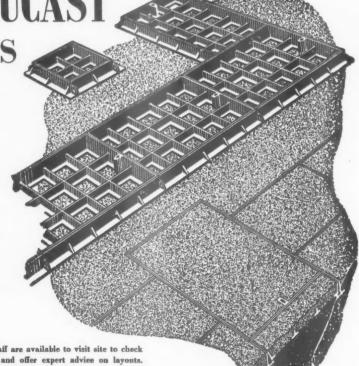
continuous runs, with necessary angles and branches of various sizes. The Cast Iron Covers and Frames have machined seatings and the covers are recessed for filling on site

to match the surroundings.

BROADS

Technical Staff are available to visit site to check final details and offer expert advice on layouts. Liaison is also maintained with contractors during installation. Full details submitted on application.

MANUFACTURING CO. LTD. 4 SOUTH WHARF, PADDINGTON, LONDON, W. 2. Tel. PAD :7061 (20 lines.)



Empire Stone

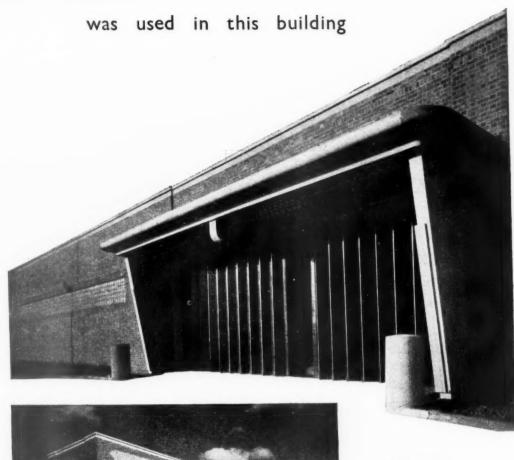
ı y

NT

ER

eaflet

nes.)



Architects:
Clifford Tee & Gale,
F.F.R.I.B.A.
New Factory, Birmingham.

Empire Stone Co. Ltd

THANET HOUSE · 231 STRAND · LONDON W.C.2

WINCHESTER HOUSE BIRMINGHAM 2
NARBOROUGH NR. LEICESTER
324 DEANSGATE MANCHESTER 3

0





ICE CREAM













"KELVINATOR"-the world pioneer of modern commercial refrigeration. All manufacturing and distributive trades needing refrigeration are catered for by Kelvinator equipment. There is a local Kelvinator expert (address on request) able and willing to solve your refrigeration problems. Kelvinator equipment saves more than it costs and existing plants may be modernised by the latest development of 'Chillators' and ' Pacemakers'. Kelvinator means more cold for less cost. Detailed information on request.

Kelvinator FIRST NAME WORD,

NASH-KELVINATOR LTD. CREWE ENGLAND DISTRIBUTORS EVERYWHER

Smooth-running, space-saving KING efficiency makes SLIDING DOOR GEAR

a basic aid in modern building.

THOUSANDS of sliding door installations in modern factories, schools, hospitals, farms, homes and garages glide on KING door gear. There's good KING fittings are precisionengineered. Every set, from massive power-operated gear to light-weight installations, incorporates domestic "plus" features developed by solid engineering experience to give silkysmooth action and long, trouble-free Write for booklet showing the range and applications of KING door gear, and the name of your nearest stockist.



OUT-OF-THE-WAY-and-Around-Corner door gear in this garage is another example of the range available. Twek-similar designs, some end-hung, some centre-hung, cover every re-



SLIDING DOOR GEAR Write for illustrated booklets to GEO. W. KING LIMITED 201 Works, Hitchin, Herts Tel: HITCHIN 960

xxxviii

THIS "X-RAY"
CLOSE-UP of a
Kingway door hanger
shows why KING
door gear slides with
such lasting easyrunning action. Note
the flat wheel-treads,
which spread the load
at the wearing sufface;
the bearing lubrication
inpples the
adjustment. The domed
top of KING tubular
track and resproof. track and rustproof give exceptional life in exposed conditions.



TOUCH—AND GO: Bach lear of these giant hardwood factory doors weighs well over half a ton, yet a school-girl can slide them open or shut with hardly more than a touch. That demands the perfect balance of a precision engineering job. KING door gear has the same smooth glide however big or small the installation.

WERS RYMEN

odern i dised for nator solve oment ay be ators'

101

HER

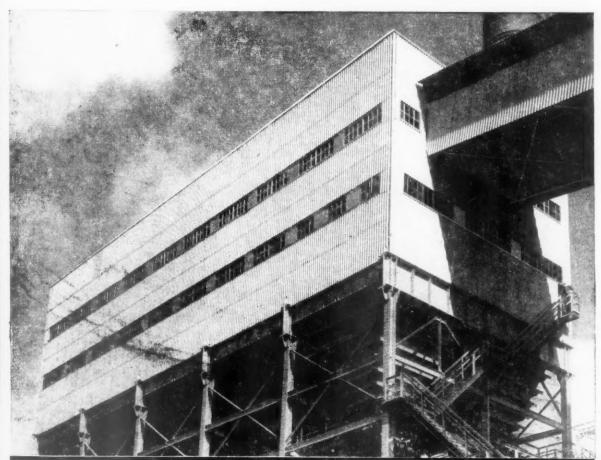
doors schoolut with That of a pre-G door



Building for Industry with.

"EVERITE" 'BIGSIX' Asbestos -Cement Corrugated Sheeting in side cladding to one of the Main Bunker Houses. Note the careful lining of horizontal joints conforming with the window openings.

Part of the vast new works for:— The Steel Co. of Wales Ltd., Port Talbot.



TURNERS ASBESTOS CEMENT CO LTD

TRAFFORD PARK

MANCHESTER 17



A matter of history

We have gone a long way since the Mr. Berry of Regency days published this announcement. From small beginnings 140 years ago we have built up an organisation expert in all work requiring specialised piping—plumbing, heating, ventilating, steam and other services—in factories, hospitals, public buildings, flats and offices. But although there have been great advances, we still maintain the traditions of quality, craftsmanship and personal service which the first Mr. Berry so firmly established.



Telephone: VICTORIA 6166

MAIN CONTRACTORS

TO

THE STEEL COMPANY OF WALES LTD.

RE-CONSTRUCTION OF THE MARGAM WORKS

AND TO

THE RAILWAY EXECUTIVE, BRITISH RAILWAYS FOR THE

RAIL SIDINGS & NECESSARY MAIN LINE ALTERATIONS
(Illustrated herein)

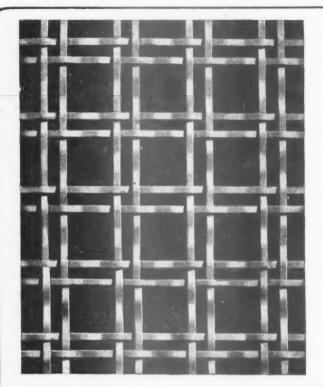
SIR ROBERT

MCALPINE

& SONS LTD.

BUILDING & CIVIL ENGINEERING CONTRACTORS

80 PARK LANE, LONDON, W.I



HARCO RIBBON WIRE

The artistic effect of Harco Ribbon Wire renders it particularly suitable for use where care of design and appointment are of major importance. Architects will appreciate that it not only screens the unsightly, but allows free circulation of air. The patterns in which Ribbon Wire can be woven, make it the perfect selection for Lift Shaft Enclosures, Ventilating Panels, Radiator Covers, Electric Heater Covers, etc. Illustration shows Pattern No. 1376 W. Other Patterns and full particulars in Catalogue AJ 744.

Harvey

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



Overhead Expense!

We may justifiably claim that a Paragon Glazed Roof or Lantern Light, once installed, "stays put" for the lifetime of the building without any necessity for that periodical maintenance characteristic of less thorough installations. The reason is that all products used in our manufactures, as well as the process of manufacture itself (which is carried out entirely in our Works), are subject to the closest scrutiny as to quality and detail. May we suggest that the experience of upwards of 40 years of all the varied aspects of roof glazing are not without value?

PARAGON GLAZING CO. LTD.
I VICTORIA STREET, LONDON, S.W.I

Telephone: ABBey 2348 (P.B.X.)
Telegrams: "Eclairage, Sowest," London.

PARAGON GLAZING

Yet more and more uses for

PLUTO BOARD

These pictures show a few of the many current uses to which "Pluto" Board is being put. It is an Asbestos Plastic Board that combines strength and stability with resistance to heat and corrosion. It is proof against weather, rot and termite and yet can be sawn and nailed with ordinary tools. It will never swell or twist.

Standard Size of Sheets: 8 ft. by 4 ft.

Standard Thicknesses:

2 mm. and $\frac{1}{8}$ in. (unlaminated) $\frac{3}{16}$ in. and $\frac{1}{4}$ in. (laminated)

Acknowledgements

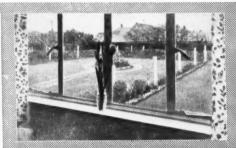
ut

azed

any tern is well

h is

t to May Is of zing (1) John Mowlem & Co. Ltd. (3) W. M. Glendinning Ltd. H. C. Hughes & Peter Bicknell. Fergurson & Guiver Ltd. (4) R. Cruickshank Ltd. (5) J. Jarvis & Co. Ltd. Wornum & Playne



1. A window sill made from a strip of "Pluto" board.



 "Pluto" Board used for circular shutters, oil ed and ready for erection.



 Fire-proof sliding doors at the Hendon Hall Hotel, awaiting decoration.



4. Corrosion-proof walls of Electro Plating Works lined from floor to ceiling with in. "Pluto" board.



 In. "Pluto" Board Balcony Panels screwed to mild steel frame.

THE CAPE ASBESTOS CO. LTD

114/116 Park Street, London, W.I.

Telephone: GROsvenor 6022.

The Portland Stone Work in the Administrative Block of the Abbey Steelworks for the Steel Company of Wales Ltd. (Consulting Architects: Sir Percy Thomas & Son, PP/A.R.I.B.A.) is being carried out by

E. TURNER & Sons Ltd

BUILDERS & CONTRACTORS, PENARTH ROAD, CARDIFF

Telephone: CARdiff 8730/1/2

Telegrams: TURNERSON CARDIFF

JUST PUBLISHED

a pocket guide to MODERN buildings in LONDON

by IAN McCALLUM

THIS IS A NEW GUIDE BOOK which neither practising architects nor serious students of architecture, nor, for that matter, the layman, can afford to ignore. In his introduction, Mr McCallum outlines the development of architecture over the past century. In the following ninety pages he illustrates and describes the most significant modern buildings to be seen within seven miles of the centre of London, from Crawford's Offices in Holborn (1929) to the Royal Festival Hall on the South Bank (1951) and including—among other types—department stores, flats, health centres, permanent and temporary houses, offices. The book is compiled and arranged in such a way as to enable readers to find their way easily to the buildings discussed. For their convenience it is divided into four sections: North-west London, North-east, South-east and South-west; and full details of bus and L.T. railway routes are provided. The book is completed by a bibliography and comprehensive index, listing more than ninety buildings worthy of careful study.

Bound in stiff board cover. Size 5\(\frac{1}{8}\)" by 4\(\frac{1}{8}\)". 128 pages with 36 illustrations, 5 maps, a bibliography and 3 indexes. Price 3s. 6d. net, postage 4d.



Wherever you go at the

FESTIVAL OF BRITAIN

in the

...

FESTIVAL HALL

TELECINEMA

RIVER-SIDE RESTAURANT

EXHIBITION OF ARCHITECTURE

LAND TRAVELLING EXHIBITION

PLEASURE GARDENS

AND ABOARD THE CAMPANIA

you will find seating upholstered with

DUNLOPILLO

Dunlop Rubber Co. Ltd. (Dunlopillo Div.) Rice Lane, Walton, Liverpool 9 London: 19/20, New Bond Street, W.1

FOUNDERS OF THE LATEX FOAM INDUSTRY

An exhibition "British Achievements Made possible by Dunlop", to which all members of the public are cordially invited, is being held at the Dunlop Showrooms at 19/20 New Bond Street, W.I during the Festival.

ID/C.



Efficient and Beautiful Lighting

Classical, period and modern designs available for home and commercial use. WRITE FOR COMPLETE LIST No. HL. 1476 Fittings made to architect's specifications.

EDISWAT

HARCOURT

LIGHTING FITTINGS

THE EDISON SWAN ELECTRIC CO. LTD., 155 Charing Cross Road, London, W.C.J. Member of the A.E.I. Group of Companies

THEY ALL WASH UP

Scottish Agent J. S. Meechie Ltd 19-12 Crichton Street, Dunde

Tel: 2685

FOR FULL DETAILS WRITE NOW FOR CATALOGUE SP.

Enquiries should be addressed to:-

Harcourt specially designed 12-light 2-tier pendant fittings glazed with coloured Dewdrop glass.

> STAINES KITCHEN EQUIPMENT CO. LTD., 94 Victoria Street, London, S.W.1. 'Phone: VICtoria 9772/3/4; 5403/4. 'Grams : Kitchequip, Sowest, London. Cables: Kitchequip, London.

Main Contractors

for the

Main Administration Office Block

at the

476 tions.

G S

n, W.C.I

HL126

ABBEY WORKS, MARGAM

for the

Steel Company of Wales, Ltd.

OTHER CONTRACTS

completed and in hand include

- Ordnance Works Power Stations Aerodromes
- Factories Roads Bridges Services Docks
- Jetties Wharves Housing Sites Office Blocks
- Underground Storage Tanks Sea Defence Works
- Tunnels Government and Municipal Buildings

JOHN MORGAN (BUILDERS) LIMITED

Head Office: NORTHUMBERLAND LODGE, CATHEDRAL ROAD, CARDIFF 9340 (6 lines)

and a

127 TERMINAL HOUSE, GROSVENOR GARDENS, LONDON, S.W.1. Telephone: SLOANE 0384
30 EXCHANGE STREET, EAST LIVERPOOL 3. Telephone: CENTRAL 8252

school furniture

To architects in search of a manufacturer for their own designs of kindergarten furniture and school fittings, we are able to offer the

experience of skilled craftsmen, sound materials, and reasonable costs.









Thomas Bradford & Co Ltd

Crescent Iron Works, Salford, 6, Manchester. Phone: Pendleton 1321 2. Grams: 'Vowel' Manchester.

bayard

THE STEEL COMPANY OF WALES LTD. MARGAM

WOOD FLOORS by HÖRSLEY SMITH

HORSLEY, **SMITH** COMPANY (HAYES)

LIMITED,

HAYES,

MIDDLESEX

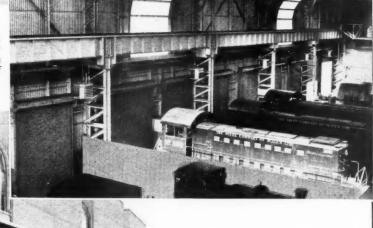
REGISTER STEEL ROLLING SHUTTERS Registered SHUTTERS Trade Mark

OF WALES LIMITED MARGAM WORKS,

MARGAM WORKS, PORT TALBOT

Consulting Engineers: Messrs. W. S. Atkins & Partners, London
Consulting Architects: Messrs. Sir Percy Thomas

Consulting Architects : Messrs. Sir Percy Thomas & Son, Cardiff



Central Fitting Shop, etc., fitted with

23

Kinnear Patent Steel Rolling Shutters

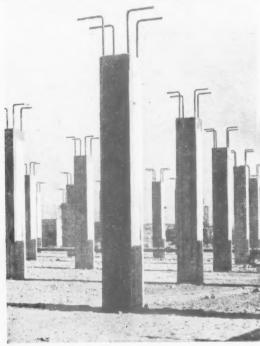
Sole Manufacturers:

Head Office: Radnor Works - Twickenham Telegrams: "Shannies Twickenham" Telephone: Popesgrove 2276

ARTHUR L. GIBSON & COLTE Branch Offices:-Birmingham: 136, Yarningale Road Highbury 2804 Manchester: 90 Deansgate Blackfriars 3138 Glasgow: Lister Road, Hillington Halfway 2928



Concrete pumped by pipeline



Shaped in columns

Heavy Foundations for Cold Reduction Mill at Abbey Works for the Steel Company of Wales Limited

Consulting Engineers: W. S. Atkins and Partners

The Cold Reduction Mill is one of the large steel processing elements in Britain's major steelworks project for the Steel Company of Wales Limited, at Abbey Works, opened on 17th July by The Rt. Hon. Hugh Gaitskell C.B.E., M.P., Chancellor of the Exchequer.

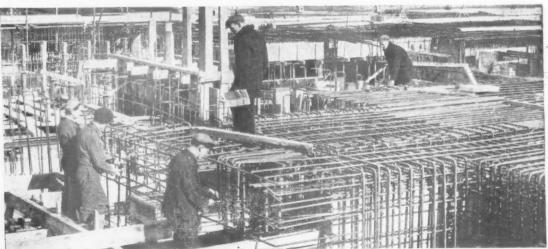


Contractors for every class of Building and Civil Engineering work at home and overseas

John Laing and Son Limited London, Carlisle, Johannesburg, Lusaka · Established in 1848

BU

tha



Fixing steel reinforcement



THE ARCHITECTS' JOURNAL

No. 2946

ed

ces-

for

rks.

kell

16 AUGUST 1951 VOL 114

EDITORIAL BOARD: (1) Consulting Editor, F. R. Yerbury, Hon. A.R.I.B.A. (2) Guest Editor, Frank Russon, F.I.O.B. (3) Town Planning Editor, Dr. Thomas Sharp, L.R.I.B.A., P.P.T.P.I. (4) House Editor, J. M. Richards A.R.I.B.A. (5) Technical Editor, R. Fitzmaurice, B.SC., M.I.C.E., Hon. A.R.I.B.A. (6) Editor Information. Sheets, Cotterell Butler, A.R.I.B.A. (7) Editorial Director, H. de C. Hastings. Specialist Editors*: (8) Planning (9) Practice (10) Surveying and Specification (11) Materials (12) General Construction (13) Structural Engineering (14) Sound Insulation and Acoustics (15) Heating and Ventilation (16) Lighting (17) Sanitation (18) Legal.

Sanitation (18) Legal.

Assistant Editors: (19) Chief Assistant Editor, D. A. C. A. Boyne (20) Assistant Editor (News) K. J. Robinson Assistant Editors (Buildings), (21) L. F. R. Jones, (22) A. P. Lambert, (23) Assistant Editor (Information Sheets) E. G. Johnson (24) Assistant Technical Editor, M. Jay Photographic Department, (25) E. R. H. Read, (26) H. de Burgh Galwey Editorial Secretary, Betty E. Harris

*To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

9, 11 & 13 Queen Anne's Gate, Westminster, London, S.W.1 Whitehall 0611

Subscription rates: by post in the U.K. or abroad, £2 10a. 0d. per annum. Single copies, 1s.; post free, 1s.3d Special numbers are included in Subscriptions; single copies, 2s.; post free, 2s. 3d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for 25s. 0d.; carriage 1s.extra.



BUILDING METHODS ON SHOW CANADA . . .

Although I am very satisfied to think that my column brings sunshine into the lives of a limited number of intelligent readers-and not a number of readers of limited intelligence-I am sometimes tempted to imitate those columnists whose circulation is better than mine. A brisk rub down with a rough towel is quite effective, I am told. But there is an even better method. It consists of making retrospective prophecies. You know the sort of thing-"As I foresaw would happen last Michaelmas, Johnny ("Masher") Pettigrew won the Pendelworthy Cup for skindle-jumping at Chorley Wood on Saturday." What would be your reaction to that? You would admire the journalist for his accurate prophecy? Yes, my gullible readers, it would never occur to you to check the truth of his statement. If I began my notes every week with the words "As I suggested" or "As I prophesied" you would be completely taken in. But I shall never be a widely read columnist, for when I make use of that low journalistic gambit of self-inflation I do so with reasonable cause.

As you may remember-and now, I hope, I am coming to the point-I complained last year that the Ontario Association of Architects was too late in inviting Britain to take part in its exhibition of new building methods and techniques. I am told that my note had some effect. The Association has already issued invitations for its 1952 exhibition, which will be held from January 18 and 19. Applications for space, which must be accompanied by a rough sketch showing plans and elevations of proposed booths, must reach Peter Cleveland, 1, Hanover Square, W.1, by October 1. Full details can be obtained from Mr. Cleveland.

. . . AND FIFTY-FIVE OTHER COUNTRIES Not only has Britain the chance of showing off her new building techniques abroad, but she will shortly be showing them off to visitors from fifty-five countries. I hear that about fifteen hundred people have agreed to come to the Building Research Congress which opens on September 11. Ninety papers will be read by distinguished contributors and the Congress will be divided into three sections (holding concurrent meetings):-(1) Engineering and structural aspects of building; (2) building materials; (3) heating, lighting and acoustics. Members will visit, among other places, the Royal Festival Hall, London Airport, the new House of Commons Chamber, Pimlico district heating scheme and the Building Re-

search Station. There will be a Congress dinner and a reception for overseas members by the LCC.

Congratulations to the DSIR and all others concerned in the organization of this Congress-the largest of its kind ever to be held.

ARCHITECTURE FOR THE LAYMAN

When we are displaying our building and architectural achievements to overseas visitors we naturally select the best things to show them. Should we be equally selective with buildings we bring to the attention of the layman? It had never occurred to me that we should be otherwise. Yet I heard a fellow architectural journalist at the IRA's exhibition at Croydon Town Hall blandly claiming that the public should be shown all type of new building-good and bad. What really mattered, he said, was that the public should be made to realize that there was such a person as an architect. The standard of work displayed did not matter, as long as it was representative.

I could hardly disagree less. It should be the aim of anyone organizing an architectural exhibition for the public not only to make it clear what an architect's work consists of, but to give the best examples of his work. I am afraid that the casual visitor to the IRA's travelling exhibition will learn very little about the function of the architect-unless he picks up a specially prepared leaflet entitled "The Architect and You"-and that he will see some atrocious examples of the architect's art amid some very good ones. How such a mixed bag of architecture was collected I cannot imagine. Is it " modernistic " possible that the interiors and jumbled façades were chosen for exhibition by the same



STEEL COMPANY OF WALES LTD ABBEY WORKS, PORT TALBOT

SIR PERCY THOMAS & SON, P.P./A.R.I.B.A. *Architects*

W. S. ATKINS & PARTNERS

Consulting Civil Engineers

drav

goo exh that co-c sect I at

out if it ing firm livi Jud by tha

AR

da

an

fe

HOT-DIP GALVANIZED WINDOWS

ELECTRICALLY CONTROLLED GEAR AND PRESSED STEEL PULPITS

HENRY HOPE & SONS LTD., BIRMINGHAM & 17 BERNERS ST., LONDON, W. 1

people who selected photographs and drawings of more worthy buildings?

I am glad that the IRA has had the good fortune to begin its long talked of exhibition tour. I am pleased to see that Croydon architects have been so co-operative in providing an additional section featuring their own work. And I am more than delighted to hear that certain changes will be made before the exhibition is taken to Lambeth next week. While complimenting the Institute on its initiative, I must point out that it can do more harm than good if it allows the public to go away thinking that its good taste has been confirmed by the pictures of olde Tudor living rooms and jazz-modern interiors. Judging by some of the work displayed by Croydon architects, I would suggest that the Institute is a little more cautious next time it invites locals to take part.

Some final words to the IRA. Please remember that although the public is an ass it can usually read. My advice is: more captions and continuity, more and bigger photographs, less plans and less emphasis on the estate agents' dream house. Good luck, anyway, to this enterprising venture.

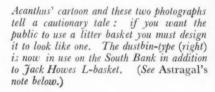
ARCHITECTURE AT ST. TRINIANS

I see that A. M. Foyle, David Goddard and Frank Hoar have been chosen to be the jury for the RIBA's annual competitions for boys and girls at public and secondary schools. You may remember that the competitions are for the best illustrated essay of not more than one thousand words and for the best sketches or scale drawings of a building. The prizes total TEN POUNDS.

Now, while admitting that it will not do to interest our potential assistants too much in monetary matters, I do feel that as the competitions are for "the encouragement of interest in architecture" we members might find a way of making the sum a little larger. Architecture, apart from the drearier aspects of its history, is rarely taught intelligently, if at all, in schools, so these competitions may well divert attention from the pottery, poker work and poster paint which stands for art in so many schools today and liberate the frustrated creative spirit of some little Searle-girl.



"If you keep following us around with that thing, I shall throw something in it,"







AA PRINCIPAL

While on the subject of youth, I have been asked to remind readers that if they hanker after guiding and directing the architectural thoughts of the largest number of the most argumentative, contrary, revolutionary but charming architectural students in existence, then their names must be submitted to the AA by September 1,

HANDLING THE LITTER RATE AND THE ILLITERATE

Consider the feelings of the South Bank Exhibition designers recently when the Exhibition Management trundled dozens of dustbins on to the site without even consulting the Council of Industrial Design.

As my photographs show, the public responded well to this move. After all, everyone knows what a dustbin looks like. But is it really possible that visitors to the South Bank thought the L-baskets (designed by Jack Howe) too nice to put rubbish into? I am told unofficially by officials that: (a) there were not enough litter baskets on the site in the first place; (b) the public found it difficult to push rubbish through the small holes at the tops of Mr. Howe's baskets, and (c) that men emptying the L-baskets complained that it was too much trouble to unhook

the bags inside them. All of which seems to prove either that the baskets are not well-designed (i.e., not functional) or that the public and rubbish-removers are too lazy. Perhaps it proves both points. In other words, to be well-designed these days an object must satisfy the lazy mind.

A DANE'S LONDON-AND YOURS

What is it that makes Danes understand London so much better than Londoners do themselves? First there was S. E. Rasmussen's great book, London, the Unique City. And now there is Ebbe Sadolin's Wanderings in London*, an entirely delightful production in the form of an annotated sketch-book which as promised has come out in an English edition. Between them, these two volumes contain pretty well all the clues to the vast puzzle that London is to most Englishmen, as well as to all foreigners except Danes.



As a sample of Sadolin's drawings I reproduce a few here; there are about

* Methuen. 15s.



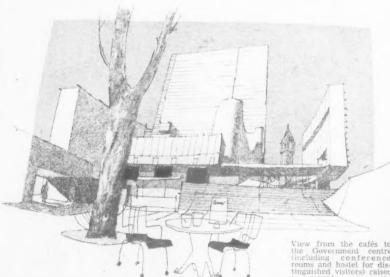
PIAZZA

A purely pedestrian area (occupying part of the present main exhibition A purely pedestrian area (occupying part of the present main exhibition concourse) flanked on the west by Government buildings and on the east by cafes. As at present Whitehall Court, across the river, provides the fourth wall of the enclosure brought more sharply into focus by the raised terrace which cuts out the intervening river. It is proposed to keep the Regatta Restaurant on the river front.

The two drawings on this page show the contrast of scale aimed at in this area. The cheerful and intimate nature of the cafes on the one

side and the lofty, sculptural effect on the other.





Looking to the Future

Whether the South Bank Exhibition closes this year, as is at present intended, or is extended into 1952, it is not too soon to consider what will take its place on this rediscovered site. A special issue of *The Architectural Review* for August on the South Bank Exhibition contains an article written and illustrated by Gordon Cullen, describing a permanent development plan for the exhibition site which

embodies some of the principles of modern townscape so admirably executed for the first time in the Exhibition itself. Above is illustrated a page of Gordon Cullen's article which is largely self-explanatory. In any future development of the South Bank it is to be hoped that the greatest effort is made to keep those portions not actively being built upon open to the public.

two h their o and w as who derer ' fashio

distan medita short,

> talkin stroll, you ' wand be se

Ebb have a per of o will 1 Some insta he how size a of th inspir ness

lett ing breas us coulc w e guess

se1 abov knov joys don;

page cates that two hundred more in his book. And their qualities of economy, sympathy and wit are fully shared by his text—as when he writes: "The word 'wanderer' sounds a little solemn and old-fashioned. It makes one think of vast



distances and pilgrims' songs, of meditation and the unknown goal. In short, it is the right word to use when



talking about London. In Paris you stroll, in Stockholm and Copenhagen you walk, but in London you must wander to see the town as it should be seen."

Ebbe Sadolin's own wanderings have taken place at intervals over a period of years; this isn't the book of one of those smart boys who will knock you off a capital a month.

Sometimes, for instance when he describes how the very size and solidity of the pillar box inspires uneasiness in the letter-posting stranger's breast, he tells us what we couldn't very well have guessed for ourselves. But above all he knows and enjoys his London; and every page communicates some of that enjoyment.

pe so

bition

re de-

at the ctively



ASTRAGAL

No. 5: Technical Editor

EXPERIMENTAL EVIDENCE

AST November we published an article on the Schindler system of building. As a result of this we received a large number of requests from readers for further details. These enquiries we answered individually, but we refrained from publishing another article on this subject until it had been possible for us to study, at first hand, houses being built on this unusual system.

Early this spring, 84 Schindler-Goehner houses were erected, under extremely trying weather conditions (which readers may remember), for Cheltenham Borough Council. Our observer visited the site, inspected the houses and chatted with workmen employed on the scheme. His illustrated report, which includes comments from the local borough surveyor, the contractor's building manager, and the site foreman, appears on pages 203-209 of this issue.

The results of this somewhat experimental project have borne out the logic of the principle on which the Schindler system is based—the principle that prefabrication applied only to the main structural shell of a building cannot effect any revolutionary change in the cost of building; that it is the prefabrication of finishes which offers the greatest opportunity for more economical and speedier building.

Mr. Schindler was working on prefabrication problems in Switzerland (with the active help of Mr. Goehner—one of the leading Swiss builders) long before the painstaking investigation of the Chief Scientific Adviser's Division of the MOW (now the Building Operations Research Unit, BRS) confirmed the belief that most of the cost of building is in the finishing, not in the structural shell.

Hence, these houses at Cheltenham have behind them years of continental development and experience, endorsed by the official investigation into the subject in this country, and we make no apology, therefore, for once again bringing this method of building to our readers' notice.

The Editors

LIFT THE PAINTED VEIL

The veil of secrecy with which some of the research organizations connected with the building industry are attempting to obscure their activities would lead one to imagine that they were concerned with atomic research, not building research. One such establishment has recently refused to allow any members of the technical press to be present at one of its tests, in spite of the wishes of the organization paying for the test; another has refused to allow the views of an impartial observer at one of its tests to be published, on the grounds that this would prejudice the establishment's own findings when they are finally issued.

Although we recognize clearly the need to eliminate any possibility of test results being abused it is, for example, a

sound precaution to insist that official reports are always quoted in full, unless the abridgement has been passed by the organization concerned), it is, surely, to the advantage of the research organizations themselves, and the building industry as a whole, that impartial observations, and, for that matter, any other information regarding the progress of experiments and research, should be made available to the Industry as quickly as possible.

Research establishments are, unfortunately, severely undermanned (a situation, incidentally, which we deplore) and, as a result, the preparation of official reports of experiments and

tests often takes a long time.

The BRS appears to have recognized this fact, and it now makes a point of issuing interim reports of its various activities, particularly those of a long-term nature. Architects fully understand that such reports must not be taken as the last word on the subject and that they may later prove to be slightly inaccurate in certain particulars; nevertheless, they find them a useful guide in their day-to-day work.

Moreover, interim reports and, in fact, any news of their work, help to stimulate interest in these organizations, the importance of which is not yet appreciated by everyone in the Industry. Other establishments would do well to follow the

lead of the BRS in this respect.



Claude Sisley

Howard Frobisher

P. Manning and G. Scully

Layman's Lament

SIR,—Being a regular reader of THE ARCHI-TECTS' JOURNAL, you have now fully con-vinced me that the South Bank Exhibition is, with the exception of the catalogue, the most amazing, stupendous, epoch-making

and wholly satisfying thing that has ever hap-pened in the long history of mankind, and that life in future will be completely differ-ent and better in every way because of it.

So please—having accomplished this—could we now pass on to some other subject?

In reading the Journal every week, I—a simple and uninstructed layman—am struck by the fact that all architecture in the modern manner is without exception completely meritorious. This seems to prove that with the building of the South Bank Exhibition we have moved into a south Bank Exhibition we have moved into a finer and better age where the critical faculty, a tire-some quality at any time, need no longer be

This naturally makes life very much simpler in every way.

CLAUDE SISLEY.

Westminster,

Le Corbusier

SIR.—So D. Bell Scott considers Le Corbusier's town planning conceptions "an affront to the dignity of the human spirit," and T. S. Cousins in your issue of August 2. defends Le Corbusier by emphasizing the necessity for "release from the tyranny of the physical and mechanical restriction of the modern city." the modern city.

Of course, the point to bear in mind is the fact that the state of the world today hardly suggests any "dignity of the human spirit" at all, and that even if we suppose that such a thing does exist, then surely Le Corbusier's a thing does exist, then surely Le Corbusier's drawings, and not so much his ideas offend it? I bought a book of his a while back, and believe me when I tell you that I have a little four year old girl who can show better work with a pen; but the ideas behind the drawings—I picture the great man scribbling on the backs of envelopes and things over his morning coffee—are 500 years ahead of us.

By the way, about the religious impulse

which caused mediæval architects to "build into the sky slender elegant pinnacles of stone," what's the betting that most people regarded the new "modern" architecture of their time as a monstrous imposition upon folk as God-fearing and kindly as D. Bell Scott probably happens to be?

Someone had to build the first great cathedral, you know!

HOWARD FROBISHER.

An Unfair Ruling?

SIR,—May we bring to the attention of your readers some reactions to the recent RIBA ruling on professional practice and office experience, since we can hardly believe that it was the original intention of the Board to enforce their ruling in such an arbitrary

We were demobilised in 1947, and began We were demonitised in 1941, and began the full five-year course at a recognized school of architecture. At that time, it was laid down that, subject to passing our ex-aminations, and gaining a total of 12 months office experience during or before the course, we would receive the associateship at the end of our five years. This ruling appeared in "Membership of the RIBA" in 1947, and, although it had been temporarily suspended atthough it had been temporarily suspended during the emergency, we naturally enough accepted its veracity, and spent most of our vacations in architects' offices, hoping to acquire the stipulated 12 months' experience. Being married and with family commitments, we felt that the sooner we could qualify the better, especially as we had already lost six or seven years during the

Now, however, at the end of our fourth Now, however, at the end of our fourth year of training, we are blandly informed that the RIBA have changed their minds—that we must now have a further year's office experience at the end of our fifth year, and that the experience we have already gained, in all good faith, is to be ignored. We find also, that exemption from the latest these tempts and to these students. who have had six years' office experience, whereas, at the time when we might have been thus engaged, we were in the Forces and find ourselves penalized for that very reason. As a last straw, we have watched an enormous number of students passing through the school ahead of us, without, in many cases, any experience at all, simply because the ruling has been enforced on the basis of an arbitrary time-limit, without any machinery whatsoever for dealing with in-dividual cases on their merits. In fact, had we been demobilized six months earlier, we should have qualified under the old ruling.

should have qualified under the old ruling. It has been argued that we will not suffer financially by being thus delayed a further year, but a glance at the advertisements for architectural posts in any professional journal will reveal that, even to obtain a salary in the region of £450 p.a., the primary requirement is, in nearly all cases, the associateship. We are thus debarred from applying in the first instance. Further, we should be surprised if any architect in private practice would offer the same salary to an unqualified "student" as he would to an associate. an associate.

We appreciate that the original ruling will raise the status of newly-qualified archi-tects, and of the profession as a whole; yet to enforce the ruling arbitrarily in such a way as to penalize ex-service students, was surely not the original intention of the Board ?

Surrey. P. MANNING and G. SCULLY.

The EDITORS reserve the right to shorten Whenever possible, letters from readers. however, they are published in full.

MC

Bui195 The in 19 £20m £18,5 most

and (£1,2 whic com of b build tain duct thou ever shor torie prod

M Me Du

struc

and pare Wal buil whi (1,8 repa pro unit ilies Th flat

was The of H nui

MOW

build

es of eople

re of upon s D.

great TER.

your

office e that Board itrary began nized t was

r exonths ourse.

eared

, and, ended

ough of our

ng to expercomcould had g the

fourth ormed

ndsyear's fifth

ve alto be from idents ience. have rcesatched

on the

th in-t, had er, we ruling. suffer urther nts for tain a e pribarred urther.

ect in salary uld to

ng will

archi-whole; n such

udents,

of the

CULLY.

horten

ossible,

Building and Materials in 1950

The annual report of the MOW states that in 1950 Great Britain exported a little over £20m. worth of building materials and £18,500,000 worth of building fitments. The most important items by value were cement and glass. In 1950 the value of all building and civil engineering work was £1,307m. (£1,248m. in 1949). The total value of building licences issued was £240,146,000, of which £158,882,000 related to industrial and commercial building. In general production commercial building. In general, production of building materials was adequate to meet building needs in this country and to maintain exports at the 1949 level. The production of bricks increased to reach 6,000m. duction of bricks increased to reach 6,000m., though it did not meet the demand. Cement production was 9,752,000 tons, the highest ever recorded, but still there were local shortages. At the end of 1950 twenty factories were making prestressed concrete products, and twenty bridges were constructed of this material.

MOLGP

More Houses in June

During June 17,203 new permanent houses and flats were built in Great Britain, compared with 15,869 in May. In England and Wales the total of new permanent homes built in June was 15,117 (14,068 in May), while in Scotland the figure was 2,086 (1,801). Conversions and adaptations, and repairs of war-damaged buildings and service camps brought the total accommodation provided in June to 17,689 family housing units. This makes the total number of families rehoused since the war 1,407,677, compared with 1,389,988 at the end of May. The number of permanent houses and flats completed by local authorities in June was 14,415, compared with 13,742 in May, making a total of 713,642 since the war. The number completed by private builders was 1,715 (1,378 in May), making a total of 699,227.

Houses under construction on June 30 numbered 177,993 in England and Wales and 36,106 in Scotland. The housing labour force in England and Wales numbered 202,500 (196,100 on March 31), and in Scotland 27,200 (26,500).

HEMEL HEMPSTEAD New Town Fully Booked

A few weeks ago misleading statements appeared in some national daily newspapers

stating that not enough people could be found who were willing to come to live and work in Hemel Hempstead new town, and work in Hemel Hempstead new town, and not enough industry could be attracted. It is now disclosed that about 10,000 people from Acton, Willesden, Harrow, Hendon and Wembley (the boroughs at present "linked" with the Hemel Hempstead new town project) have already indicated that they are willing and eager to come to Hemel Hempstead.

Hemel Hempstead. Six factories are building or built with a total floor area of 300,000 sq. ft. with a total immediate employment potential of 1,700 likely to rise to 2,500. In addition, negotiations for a building licence are in the final stages for a larger factory covering 270,000 sq. ft.

Plans are so well developed for the industrial area that the housing programme has had to be stepped up to keep pace with industrial construction. A final pointer to the successful position at Hemel Hempstead is that although a large number of applications for industrial sites are still being received they all have to go on a waiting list, as factory space is booked up until 1955.

WEST SUSSEX

County Development Plan

The development plan for the southern part of West Sussex was approved by the County Council at its meeting on July 27, 1951. The plan for the Northern Area has already been submitted to the Minister and is now on deposit. The plan for the Southern Area, which has been prepared by the County Planning Officer (J. G. Jefferson), covers an area of 155,333 acres and provides for a population of 298,700 in 1971 which represents an increase of roughly 76,000 over the sents an increase of roughly 76,000 over the existing population.

In addition to the County Map there are twelve town maps, nine maps of areas of comprehensive development and twenty areas designated for compulsory acquisition. As well as the written statement there are no less than fifty-three separate maps.

These have been drawn in accordance with the Ministry's simplified notation and have been printed by the true-to-scale process by the staff of the County Planning Depart-

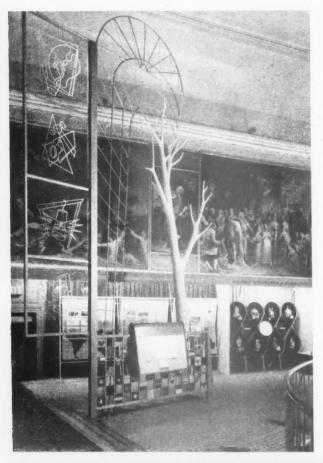
The area dealt with by the plan consists of the fertile plain south of the Downs, including the towns and villages along the coast. The County Planning committee have had to deal with the conflicting interests (a) of agriculture and the urban development along the coast (b) of holidaymakers and local inhabitants and (c) of the preservation of amenity and the need to provide improved services and facilities.

It is proposed to conserve agricultural land It is proposed to conserve agricultural land and encourage increased efficiency in food production insofar as this is consistent with the other needs of the community. It is not intended to interfere with the many smallholdings in the area, but in the process of the development of some towns and existing villages it has been impossible to avoid allocating some of these holdings for building and other purposes. The Committee has recognized that the preservation of the beauty of the Sussex landscape is of great importance. It is even more important where the area depends upon the maintenance of amenities, historic and otherwise, for attracting the holidaymaker. The policy of the protection and enhancement of the beauties of the rural landscape will be encouraged, and areas of particular scenic importance have been indicated on the maps. Strips of public open space are proposed along extensive lengths of the coastline, and the need for improved access by the general public to the heaches in certain agents. and encourage increased efficiency in food along extensive lengths of the coastline, and the need for improved access by the general public to the beaches in certain areas is to be met as far as possible. Of the road improvements included in the various town maps perhaps the most important are the new bridge and central area scheme in Littlehampton and the three new bridges over the railway at Worthing. Of the towns for which maps have been prepared the two most interesting are perhaps Chichester, a cathedral city with a history going back to pre-Roman times and famous for its Georgian architecture, and Worthing, the largest seaside holiday resort within the area. The County Council's plan differs

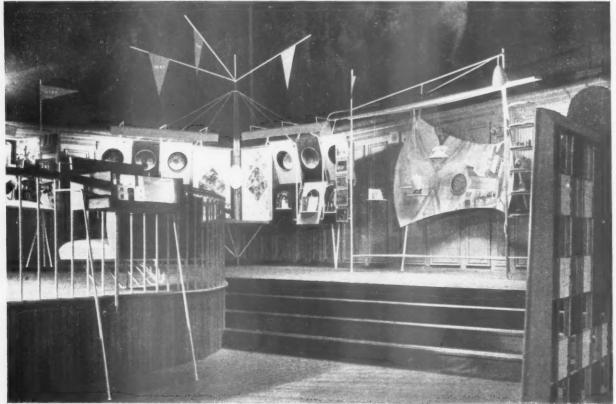


The perspective drawing above shows the proposed new technical college for the Education Committee of the Halifax County Borough Council. It will provide additional accommodation for educational purposes and allow for a much enlarged textile department. The design is by Richard H. Pickles and J. Dean of A. & R. Pickles, in association with Clement Williams & Sons. On the site, which is level and situated between a wide thoroughfare and the boundary wall of a public park, the length of the building will run in a north-south direction. The main block is planned with a central corridor with rooms on each side. Flexibility of room sizes has been achieved by using a window facade design which permits cross-partition walls to be respaced without changing the elevational treatment. The main structure will be of in-situ reinforced concrete with deep T-shaped floor beams. Floating floors will provide insulation against sound transmission. The buildings are to be faced with local Yorkshire stone, with the main multi-storey block in polished ashlar. Heating will be provided by convectors mainly of the skirting type. Two high-speed lifts, planned as a unit, occupy the centre of the plan and will provide speedy access to all departments. The scheme will cost about £350,000.

AN EXHIBITION OF EXHIBITIONS AT THE



The Exhibition of Exhibitions has been designed by Hulme Chadwick for the lecture theatre of the Royal Society of Arts. As the subject matter falls into two categories, the chief problem was to subdivide the area into two sections. The first section deals with fine art and industrial design exhibitions; the latter extending from 1847 to the Design at Work exhibition in 1947. The second section describes the first industrial exhibition in 1761, the Great Exhibition in 1851 and the international exhibitions which followed up to the New York World's Fair, 1939. It was also necessary to overcome the stepped arrangement of the existing floor. Left, the view into the second section, which is on a lower level. The aluminium structure and plaster tree symbolize the Great Exhibition building, in 1851. The etched glass panels on the left represent the four main sections into which the exhibits are grouped. Below, a general view looking up from the second section. The photograph on the opposite page, above, shows the entrance to the first section and the introductory screen with wallpaper designs dating from 1849. A further problem was that the walls of the lecture theatre could not be used for fixing any display stands or materials. The existing pale blue panelling is used as background to the stands in the first section. White tubular steel display units stand on sisal grass matting in fawn and deep crimson. The handrail, shown on opposite page, below, is in mahogany with



R O

white nand rea

vere De

ROYAL SOCIETY OF ARTS

E

ne

m on er

7.

in al ir.

mt m. ter 'he ons iew the and om ure als.

the

nits

The

vith



white metal supports. Other woods used are teak and beech with waxed finishes. Grey and red velvets surround the exhibits and in the second section magenta and chrome yellow curtain materials are draped behind two of the stands. The general contractors nere David Esdaile & Co., Ltd.



slightly from that prepared by Thomas Sharp, firstly in the estimate of the popula-tion to be accommodated, secondly in the omission of a northern by-pass, and thirdly omission of a northern by-pass, and thirdly in the detailed treatment of the inner ring road proposals. The plan for Worthing does not include any extensive areas of comprehensive development. The major problem has been the estimate of the probable requirements of the immigrant population having regard to the need to conserve valuable agricultural land. The proposals envisage an increase in population from about 68,000 at the present time to 85,000 in 1971. in 1971.

It is estimated that the total number of maps required for depositing with the local authorities within the area and to satisfy the additional requirements of the Government Departments will involve the printing of nearly one thousand maps.



C. F. Blythin, a Croydon architect, and F. J. Williams, assistant to Croydon's borough engineer, looking at their town's redevelopment model at an architectural exhibition in Croydon Town Hall. The exhibition, which was sponsored by the IRA (see Astragal's note on page 183), re-opens at Lambeth Town Hall on August 20.

ONTARIO EXHIBITION British May Display Building Techniques

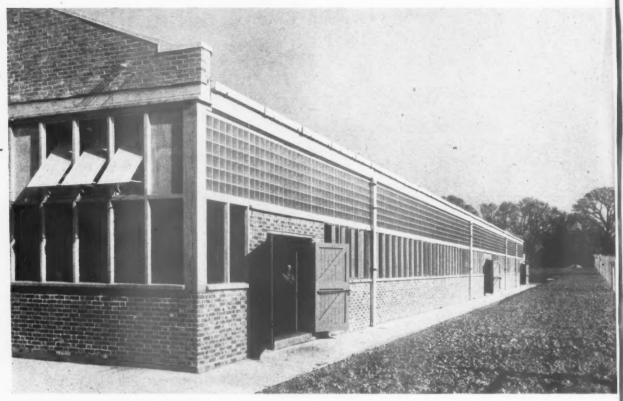
The Ontario Association of Architects has The Ontario Association of Architects has announced the dates of its 1952 exhibition of new building materials and techniques, to which Britain is invited to submit material. The purpose of the exhibition is to display materials, equipment and techniques which are new in character or which may not be familiar to Ontario architects in general. Favourable consideration will be given to the display of products which be given to the display of products which may not have been obtainable for a number of years but which now are available again. Exhibitors are reminded that this exhibition

provides probably the only real opportunity in the year for manufacturers to show, and for architects to inspect, new building materials and techniques, and their use and

materials and techniques, and their use and application in construction.

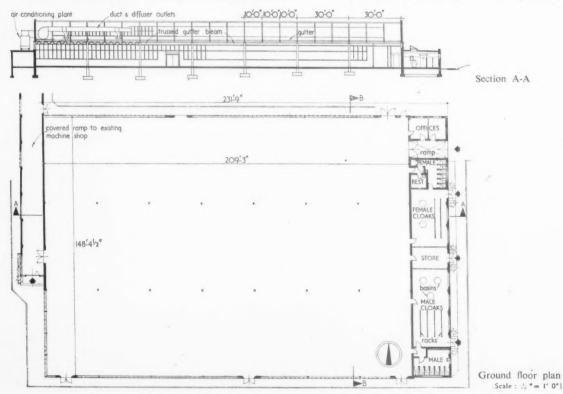
Materials, equipment and techniques to be exhibited will be subject to the approval of the OAA Convention Committee. Applications from firms in the United Kingdom should be sent to Peter Cleveland, Messrs. Tides Limited, 1 Hanover Square,

FACTORY EXTENSION AT SALFORDS, NEAR



A new extension for Monotype Corporation Ltd. (manufacturers of type-setting machinery), designed by L. O. L. Hannen and Partners, is the first part of a development scheme for the firm. It includes cloakrooms, pattern stores and extensions to the

canteen and to transport accommodation. The new building is seen above from the south-west. The view below, right, looking north, shows the covered ramp which connects the extension to the original factory on the left. Uninterrupted floor space, as

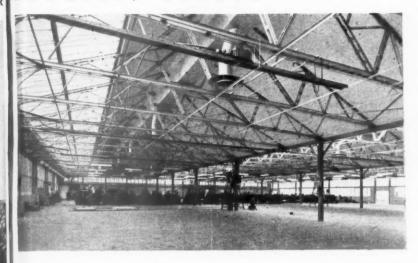


seen ab support and the bricks glazing ceiling of heat

> air cha (2s. 1a sub-con

> > Se

REDHILL SURREY



seen above, has been provided in the machine shop, except for steel stanchions, which support aluminium roof trusses of 50 ft. span. The walls of all buildings are brickwork and the ancillary buildings have felt-covered reinforced concrete roofs. The facing bricks match those of the existing buildings. Roof lighting is augmented by wall glazing in concrete frames. The floor of the machine shop is of strip Gurjun and the ceiling is insulated with fibre board and decorated off-white. There is a plenum system of heating and ventilating, operated by high pressure hot water, capable of giving three air changes per hour in winter and five in summer. The contract price was £,100,000 (2s. 1d. per foot cube). The general contractors were H. Bacon & Son Ltd. For sub-contractors see page 210.



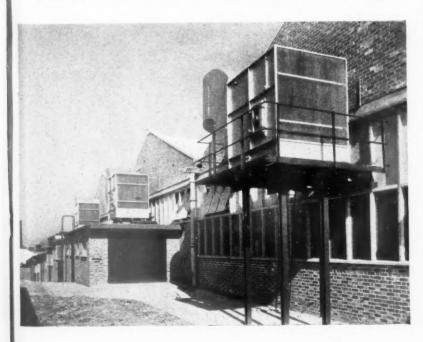
Section B-B

ling is

ooking

ion to

ice, as



London, W.1, not later than October 1, 1951, in order to allow for forwarding to Canada by October 15, 1951.

Applicants are also required to submit a rough sketch showing the plan and elevation of their contemplated booth, drawn at scale \(\frac{1}{4}\) in =1 ft., or larger. This sketch should accompany the application for space.

DURHAM

County Development Plan

The Development Plan is in two parts. First, the 1-in. County Map, showing the broad intentions for land use over the whole First, the 1-in. County Map, showing the broad intentions for land use over the whole County, and in the second, 6-in. Town Maps for Billingham, Hartlepool, and Houghton le Spring, showing the intentions in these areas in greater detail. In the reports accompanying the 1-in, County Map an examination is made of the past and present trends in the industrial structure of the County, and an estimate is made of the likely future employment needs. On this basis sufficient industrial land is allocated in the County for the amount of new industry required, and it is suggested that more vigorous policies will be required if this amount of industry is to be obtained. On the basis of the expected future pattern of employment, a revaluation and rationalization of the towns and villages of the County is suggested. All communities of the County are placed in one of four categories. First; those which because of sound economic prospects are likely to increase in

economic prospects are likely to increase in economic prospects are likely to increase in size owing to a regrouping of population from the surrounding area, or because of the retention of any expected natural increase in population. Second; those communities in which the total population is likely to remain at or about its present level. Third; those communities which, although the local source of employment is expected to desource of employment is expected to de-cline, still have a sound basis. Here the population total is likely to decline, and to stabilize at a lower level than at present. Fourth; those communities whose local source of employment has either already routn; those communities whose local source of employment has either already gone or will cease in the near future, e.g., collieries, and areas which include much property in poor condition. In these cases it is intended to carry out only such development as may be needed for the life of this property, and any large investment of capital will be avoided. The reports deal in detail with the number, character and distribution of social facilities to be provided by the County Council, Local Authorities, and others. This includes schools, community centres and village halls, libraries, health centres, hospitals and hostels. The reports also deal with the road, rail, air and water communications, with suggestions for improving the appearance of the landscape, with public services and with the land needs of the various Government Departments.

The proposals included in the first five year pariod of the Place (1952 1967) in the college of the place of the p

Departments.

The proposals included in the first five year period of the Plan (1952-1957) involve the expenditure of about £91 m., and in the six to twenty year period (1957-1972) the cost is about £233 m. This is money which would in the normal course of events be spent whether there was a Development Plan or not. The Plan suggests how this money can be spent most efficiently, and with the greatest benefit to the people of the County.

with the greatest benefit to the people of the County.

The 6-in. Town Maps for Billingham. Hartlepool, and Houghton le Spring are the first of about 20 which will be prepared. Each Town Map is accompanied by written reports and shows how land has been allocated to accommodate all housing, school, community centre, playing field, industrial, commercial and other development over the next 20 years. The difficulties of avoiding the loss of good agricultural land and, where applicable, the sterilization of coal have been carefully considered at all stages of the preparation of these plans and the final plans attempt to strike a balance between a multitude of conflicting interests. the County.

SOUTH BANK ARCHITECTS

NO. 17 : JAMES GARDNER

This week we bring to a close our series of photographs and biographical notes on architects who have done work for the South Bank Exhibition.

James Gardner:—Member of Festival Presentation Panel; Coordinating Display Designer, Downstream Section; Display Designer, People of Britain and Centenary Pavilion. Born 1907. After
school course, spent six years designing jewellery, later general
publicity work. During war years, Chief Development Officer,
camouflage for Army. Chief Designer, "Britain Can Make
It" Exhibition. Responsible for 1951 display in Main Hall,
Ideal Home Exhibition, Olympia. Chief Designer, Festival
Pleasure Gardens, Battersea Park. Industrial design work for
BEA includes aircraft interiors.





NO. 18: HUGH CASSON

Hugh Casson:—Director of Architecture, Festival of Britain.

Member of Festival Presentation Panel. Responsible for layout of Downstream Section and 1851 Centenary Pavilion. Born 1910. Trained Cambridge. Private practice from 1937 with the late Christopher Nicholson. Camouflage Officer, Air Ministry, 1940-44. Technical Officer, MOTCP, 1944-46. Since then in private practice. Has recently been appointed Reader in Interior Design at the Royal College of Art and will take up his duties in September.

NO. 19: THE ARCHITECTS CO-OPERATIVE PARTNERSHIP

Architects Co-operative Partnership:—Architects of Administrative Offices, Royal Pavilion, Chicheley Street Entrance, York Road Screen, information and lost property offices, kiosks, etc., Fairway Cafe, and Minerals pavilion. Left to right: C. K. Capon, L. M. De Syllas, A. W. Cox, P. L. Cocke, J. M. Grice, M. A. R. Powers, M. H. Cooke-Yarborough. Partnership formed in 1939, when the eleven partners had all just qualified at AA. Post-war work includes Bryn Mawr Rubber Co.'s factory, South Wales, prefabricated schools for Herts, Derbyshire, Coventry, and Sheffield Councils.



NO Jam for is section for Tra Med

> Edv Bui Str Wo Ma 193

NC

RIII
praction of the practical pract

Iko

NO. 20 : JAMES HOLLAND

James Holland:—Head of Festival Office Design Section. Co-ordinating Designer for Upstream Section. Joint Display Designer (with Basil Spence) for Sea and Ships section. Member of Presentation Panel and Design Group. Co-ordinating Designer for Festival Ship Campania. Also closely associated with Science and Land Travelling Exhibitions. Born Gillingham, 1905. Art training, Rochester (now Medway) School of Art; Royal College of Art, London. Studied lithography at



LCC Central School of Art. Free lance designer and illustrator, particularly associated with Shell publicity and the Curwen Press, Exhibition display work, Paris Exposition, 1937. Murals and display for UK government pavilions, Glasgow, 1938, New Yorks World's Fair, 1939. Joined Exhibitions Division of MOI in 1943. Chief Designer (Exhibitions), COI, 1947. Responsible for number of major London Exhibitions. Also mobile and touring exhibitions. Shortly joining Foote, Cone and Belding as art director.

NO. 21: EDWARD D. MILLS

Edward D. Mills:—Designed Administration Buildings. Born 1915. Trained at Regent Street Polytechnic School of Architecture. Worked in various architects' offices, including E. Maxwell Frys' and Gropius'. Associate, RIBA, 1937. Fellow, RIBA, 1946. Fellow, RSA, 1948. Member of MARS Group, of various RIBA, MOW and BSI committees. Private practice as architect and design consultant since 1936. Overseas work in India; Nigeria, West Africa, South Africa, etc. Research work includes design of modern chemical laboratories; low rental housing



and slum clearance; structural techniques and building construction. Buildings include factory canteens, Dagenham, flats at Hackney, St. Helier Methodist Community Church, Morden, Surrey, Colliers Wood Methodist Mission, London, residences in Ikoyi, Lagos, Nigeria, W. Africa, etc. Lecturer on architectural design, etc.



NO. 22 : H. F. CLARK

H. F. Clark:—General landscape consultant. Born 1902. Private practice with Christopher Tunnard until 1939. Consultant Landscape Architect to Holborn Borough Council (reinstatement of Bloomsbury Squares, St. Giles Churchyard and playground), 1947. Consultant to Stevenage Development Corporation since 1948: from 1946, Lecturer in Landscape Architecture at Reading University and the Department of Civic Design, School of Architecture, Liverpool University.



This feature covers aspects of legislation, parliamentary news or statutory rules and regulations which are of special significance to the architectural profession.

ERNEST WATKINS The Architect and Current Affairs

The Leasehold Property (Temporary Provisions) Act, 1951, came into operation just before the Midsummer quarter-day. It is an Act intended to last for two years only. Bearing in mind the remarkable number of temporary provisions—from identity cards to the original rent restriction provisions—that have lasted with the durability almost of a false coin, no one interested in property can afford to ignore either the Act or its likely consequences.

likely consequences.

The Act has two main parts, one dealing with the tenancies of shops, the other with long leases of residential property. The provisions dealing with shops are in Part II of the Act, but since they are slightly more straightforward, and are probably of greater interest to architects in private practice, they can be taken first. They apply to all tenancies of shops, and of premises which consist of a shop and of living accommodation occupied wholly or mainly by the tenant or by a person employed by the tenant for the purposes of the retail trade or business carried on in the shop. Where the tenancy of any such premises expires within two years of June 24 last, when the Act came into force, the tenant can apply to the court (the county court) for an extension of his tenancy, and the court may grant an extension for one year from the end of the existing tenancy, with the possibility of one additional year's extension after that.

The tenant has not an absolute right to an

The tenant has not an absolute right to an extension of his tenancy. The court may not extend it if the tenant has broken the terms of the existing tenancy, nor if the landlord has offered alternative premises, nor if the landlord requires possession to demolish or reconstruct the building. The tenant's claim can also be defeated where a public authority has an interest in the building and can show that "in the public interest" an extension of the tenancy should be refused. Finally, if the court finds that "having regard to all the circumstances of the case, greater hardship would be caused by ordering the grant of a new tenancy than by refusing it", it may decline to make any order. In any event, in granting an extended tenancy, the court has power to fix a new rent and to lay down such terms and condi-

layout
Born
with
Air

44-46. Pointed and will

INFORMATION CENTRE AT CHARING CROSS



The FOB Travel Information Centre at Charing Cross has been designed by Jack Howe for the London Transport Executive. It is a temporary structure and will be dismantled when the Festival is over. Above, the open facade, and below a view inside showing the ceiling of pleated fabric and the counter faced with mahogany strips. On the far wall is a map showing the Festival sites in London. The general contractors were Beck and Pollitzer (Contracts) Ltd.



tions for the new tenancy as it thinks reasonable.

The general effect of this part of the Act is to give the county courts in England and Wales the powers that the corresponding courts in Scotland already have, to give a limited extension of the right of occupation to the sitting tenants of shop premises. It is for the tenant to make his application (and there is a strict timetable, governing when he may do so, contained in the Act). Likewise it is for the tenant to establish his case and he must, when doing so, face the fact that the court may require him to pay

a new, possibly higher, rent for the premises during the period of any extension. It is the market value of the premises at the expiration of the original tenancy that is the criterion to be used in assessing the rent to be payable for the extension. This part of the Act should not hold up, for instance, a reasonable and fair reconstruction scheme, which would seem to be a major point of interest for the architectural profession.

interest for the architectural profession.

Part I of the Act is cast in different terms and is intended to deal with a different problem, the position of the lessee of residential property at the end of a long lease

where he himself is in occupation of the property (that also includes the case of where the lease is held in trust for the actual occupier). Such an occupier is not protected by the existing Rent Acts, and there has been a good deal of political agitation (and an investigation by a departmental committee) for some protection to be devised for the family so placed. This the Act gives, for the two years.

for the two years.

Part I applies to dwelling-houses in the occupation of a lessee under a term which originally exceeded twenty-one years. It operates to give that lessee another two years of occupation on the terms of his existing lease, so far as the rent he has to pay is concerned, and with what might be described as a suspension of most of his liability under the lease, for repairs. In this case, the extension given to the lessee is automatic; he need make no application to a court nor take any other step to secure this right. There are provisions by which the landlord is given the right to enter to do, at his own expense, essential repairs, with some (but not very much) right to recover the cost of those from the lessee. But this part of the Act is a complicated one and no useful purpose would be served by attempting to summarize all its provisions here. Those interested in property affected by this part of the Act will have to refer to the Act itself for a proper guide to their position now.

Perhaps Part I of the Act has some of the lablaceters.

Perhaps Part I of the Act has some of the hallmarks of a real temporary and stop-gap measure; it can hardly be extended beyond the original two years in its present form. Part II of the Act, on the other hand, may well prove to be at least the foundation of a major and permanent change in the law of landlord and tenant.

DIARY

Exhibition of Architecture. Sponsored by the Institute of Registered Architects.

The above exhibition will be on view at the following places:—Lambeth Town Hall (August 20-Sept. 1); Mile End Library, Stepney (Sept. 10-22): East Finchley Library (Sept. 24-Oct. 6); Thomas Parsons Showrooms, 70, Grosvenor Street, W.1. (Oct. 8-19): Council Office, Surbiton (Oct. 22-27); Building Exhibition, Olympia (Nov. 14-28.)

The Susan Lawrence School. At Lansbury, Poplar. Open to public. Weekdays, 12 noon to 8 p.m. Sundays 12.30 p.m. to 8 p.m. UNTIL AUGUST 23

Impressions of Soviet Architecture in Moscow and Tashkent. By F. W. B. Charles. At 14, Kensington Square, W.8. (Sponsor, SCR.) 6.45 p.m. August 23

Exhibition of One Hundred Years of British Architecture, 1851-1951. At RIBA. Weekdays, 10 a.m. to 6 p.m. Saturdays, 10 a.m. to 5.30 p.m. UNTIL SEPT. 4

"Living Traditions" Exhibition. At Royal Scottish Museum, Edinburgh. 10 a.m. to 10 p.m. Sundays, 2 p.m. to 6 p.m. UNTIL SEPT. 15

Festival Exhibition of Furniture and Furnishings. At Gallery, Heal and Sons, 196 Court Road, W.1. Open sho

At the Mansard 196, Tottenham shopping hours. UNTIL SEPT. 30

London Transport Poster Exhibition, 1908-1951. In subway linking South Kensington Station with museums. (Sponsor, LTE.) Open station hours.

UNTIL SEPT. 30

South Bank, Past and Present Exhibition. At Royal Festival Hall, Waterloo. (Sponsor, LCC.) Daily: 10.30 a.m. to 6.30 p.m. UNTIL SEPT. 30

Festival of Education and the Arts. 33 new primary schools in Herts, open to public. Full details from County Education Officer, County Hall, Hertford. UNTIL SEPT. 30

of the ase of actual of tected re has a (and com-

gives,
in the which rs. It o years xisting pay is scribed under extense need ke any re prosent the prometries a urrpose marize sted in ne Act for a

of the op-gap beyond form. d, may tion of he law

ored by

view at vn Hall ibrary, Library Show- (Oct. 22-27); 14-28.)

nsbury, 12 noon m.

m. GUST 23

ure in Charles. Sponsor, SUST 23

British Week-10 a.m. SEPT. 4

t Royal a.m. to

mporary Mansard Itenham hours. SEPT. 30

hibition, th Ken-Sponsor,

hibition. Sponsor, o.m. SEPT. 30

33 new public. Officer, SEPT. 30

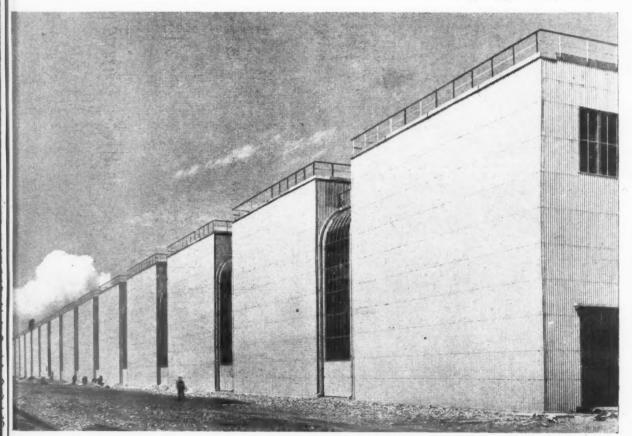
After struc that the re amala

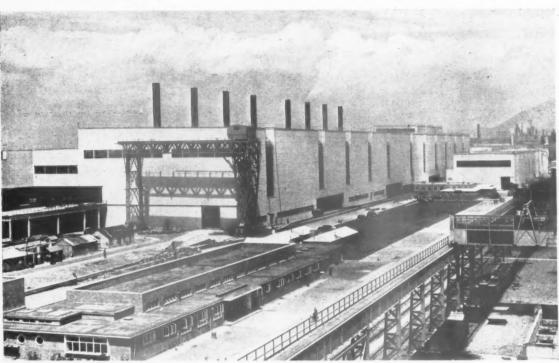
STEEL WORKS

at MARGAM, PORT TALBOT, SOUTH WALES consulting architects, SIR PERCY THOMAS and SON consulting engineers, W. S. ATKINS and PARTNERS

After the war the Iron and Steel Federation presented to the Minister of Supply plans for the reconstruction of the industry throughout the country and, out of the total sum involved, it was recommended that £60,000,000 should be spent in South Wales. It was considered that the task required was beyond the resources of any individual group and, therefore, four of the largest companies engaged in the industry amalgamated to form the Steel Company of Wales.

The ingot stripper building looking south.





The melting shop with the hot mill amenities block in the foreground.



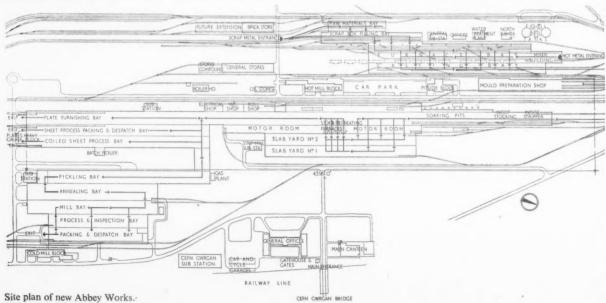
Plan of hot mill amenities block [Seale: of = 1'0"]

STEEL WORKS

at MARGAM, PORT TALBOT, SOUTH WALES consulting architects, SIR PERCY THOMAS AND SON

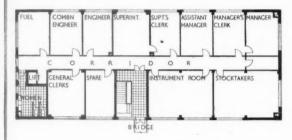
SITE.—The original Margam works, which have been completely modernised and enlarged, together with the new Abbey works, stretch for 4½ miles along the coast. On the Margam site a good ballast

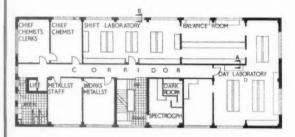
Section

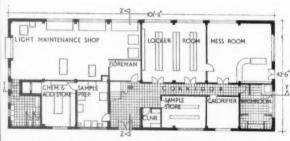




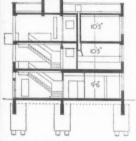
Section Y-Y







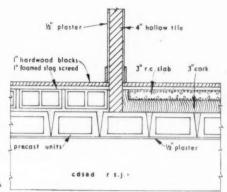
Ground, first and second floor plans [Scale: 1 = 1 0]



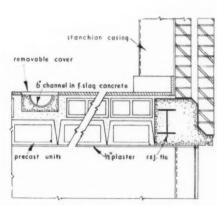
Section Z-Z

Right, the west side of the melting shop, showing the three-storey amenities block in the centre.

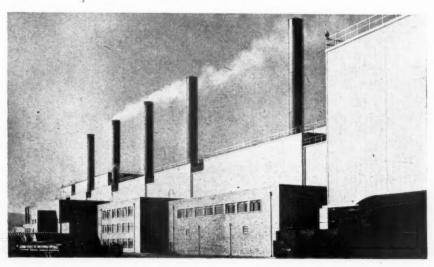
strata was found at about 20 ft. depth and testing proved it to be capable of taking a load of about 5 tons per sq. ft. A culvert which used to carry the Ffrwdwyllt river under the Margam works to the docks was diverted to allow the extension to the plant. This extension involved considerable alterations to the works railway layout and the adjoining tracks operated by British Railways. Seven new bridges have been erected, together with numerous embankments, retaining walls and

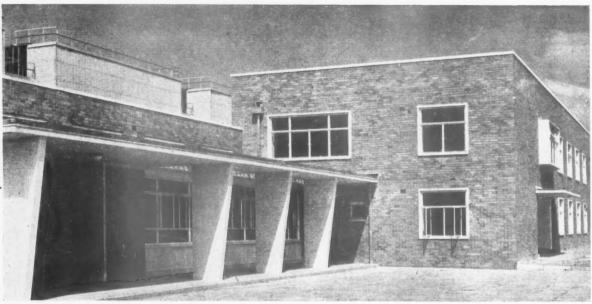


Detail at A



Detail at B [Scale: 1" = 1'0"]





Above, the cold reduction mill office and amenities block.



STEEL WORKS

at MARGAM, PORT TALBOT, SOUTH WALES consulting architects, SIR PERCY THOMAS AND SON

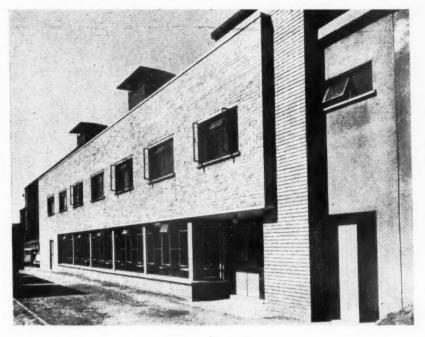
viaducts. The whole of the Abbey works site was raised about 10-12 ft., which required the placing of 4½ million cub. yds. of filling. The materials readily available were sand from the nearby dunes and slag from old tips and current production. In order to prevent inroads by the sea and to stop sand blowing in over the works, a stabilisation project was carried out over 83 acres. Marram grass was planted to encourage other vegetation by fixing the sand and preventing drifts. Pine trees were also planted.

PLAN.-In view of the vast size of the works, it

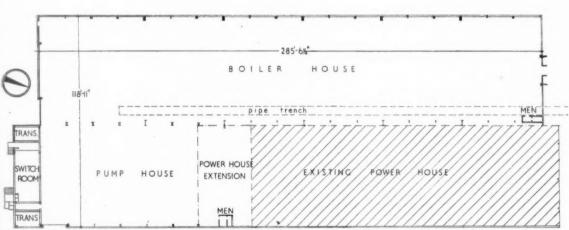




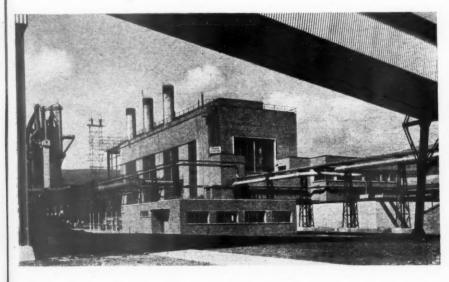




Right, some offices in the remodelled Margam works.



New boiler house, ground floor plan [Scale: 1. " = 1' 0"]



On opposite page: Extreme left, a corridor in the cold reduction mill amenities block. Centre, a staircase in the same block. Left, on this page, the new boilerhouse in the remodelled Margam works, looking southeast.





Section C-C



Pit side amenities block. Plan [Scale: 1," = 1'0"]

was decided in the early stages that the welfare and amenity buildings, for which the consulting architects were entirely responsible, should be grouped in units of economical size and sited throughout the works. All these buildings, with the exception of the plate and heavy gauge offices, are built as detached units. There are five main blocks of offices and amenity accommodation, each with different site conditions, but broadly speaking containing the following standardized accommodation: offices for manager, engineer's staff, supervisers and clerical staff for the particular section of the mill;



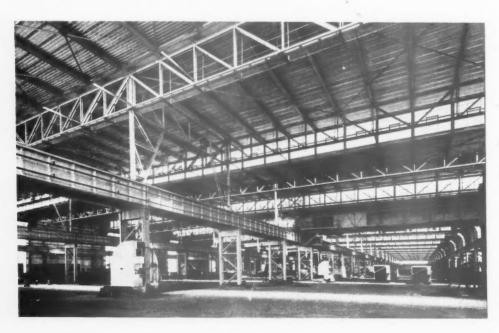
Section D-D

a first-aid section; office staff dining room; operatives dining room; a locker room; shower baths, wash fountains, drying rooms and sanitary accommodation; a time and pay office. Offices are generally planned on two floors with a central corridor and rooms 15 ft. deep. The first-aid room is 25 ft. by 14 ft., and there is a covered ambulance porch and rest room. Covered car parking is provided to protect vehicles from the acid-laden atmosphere.

CONSTRUCTION.—All amenity buildings are constructed of load-bearing brickwork, with outer walls of 15½-in. cavity brickwork and a central

STEEL WORKS

at MARGAM, PORT TALBOT, SOUTH WALES consulting architects, SIR PERCY THOMAS and SON



Top left, the pit side amenities block in the foreground and the melting shop beyond. Left, hot mill finishing bays.

Isome

relfare ulting d be sited th the s, are blocks with conation: rs and

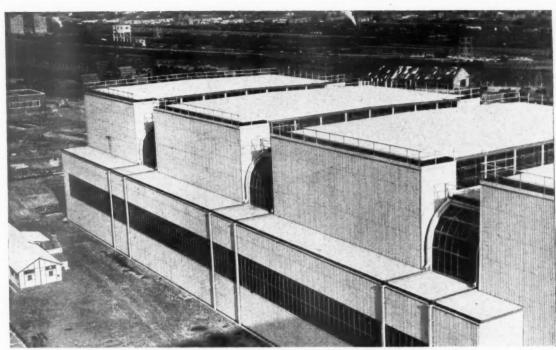
mill;

орегаbaths, mmonerally or and ft. by h and

s are outer central

led to ere.

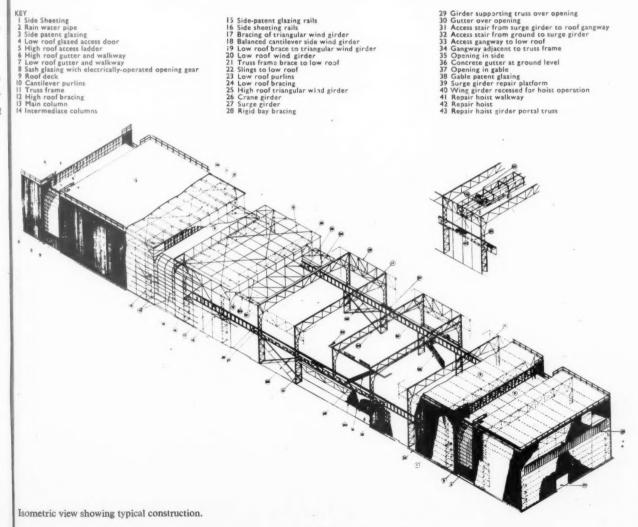
ieniound ond.

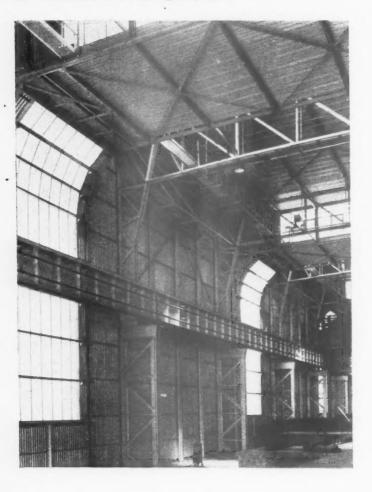


Above, a mould preparation bay.

15 Side-patent glazing rails
16 Side sheeting rails
17 Bracing of triangular wind girder
18 Balanced cantilever side wind girder
19 Low roof brace to triangular wind girder
20 Low roof wind girder
21 Truss frame brace to low roof
22 Slings to low roof
23 Low roof purlins
24 Low roof parding
25 High roof triangular wind girder
26 Crane girder
27 Surge girder
28 Rigid bay bracing

29 Girder supporting truss over opening
30 Gutter over opening
31 Access stair from surge girder to roof gangway
32 Access stair from ground to surge girder
33 Access gangway to low roof
34 Gangway adjacent to truss frame
35 Opening in side
36 Concrete gutter at ground level
37 Opening in gable
38 Gable patent glazing
39 Surge girder repair platform
40 Wing girder recessed for hoist operation
41 Repair hoist walkway
42 Repair hoist
43 Repair hoist girder portal truss





STEEL WORKS

at MARGAM, PORT TALBOT, SOUTH WALES consulting architects, SIR PERCY THOMAS AND SON

corridor with 9-in. brick walls. There are prestressed precast concrete floors and roofs to ensure the maximum economy in the use of rolled steel beams. The car park units consist of brick pien topped by cantilevered precast units carrying asbestos troughing fixed with a low pitch. The piers are built at 18-ft. centres and the concrete floors include cycle blocks. This arrangement allow each unit to accommodate two cars or sixteen cycles Rigid frames have been used for nearly all the mai buildings, some of which, such as the main mill and melting shop buildings, are of open lattice construction The greatest possible use has been made of welding resulting in a saving in weight of about 15 per cem over a riveted structure. In the main buildings, m base plates have been used on the columns, the shaft being bonded to the actual pile cap and therefore monolithic with the foundations.

The general contractors on the Abbey Works and George Wimpey & Co., Ltd., John Laing & Sons, Ltd., and John Morgan (Builders), Ltd., and on the Margam Works, Sir Robert McAlpine & Sons, Ltd., and Andrew Scott & Son. For sub-contractors, see page 210.

Above, left, hot mill finishing bays. Below left, typical mill control cabin. Below, the north ambulance room.



e preensure d steel k piens arrying

The oncrete allows cycles, a main ill and nuction relding er centings, none shaft

rks and k Sons, on the s, Ltd., ors, see

erefor

bays.



WORKING DETAIL

WINDOWS: 5

CANVAS LOUVRES TO WINDOW: COUNTRY PAVILION, SOUTH BANK EXHIBITION Brian O'Rorke, architect: R. T. James and Partners, consulting engineers.

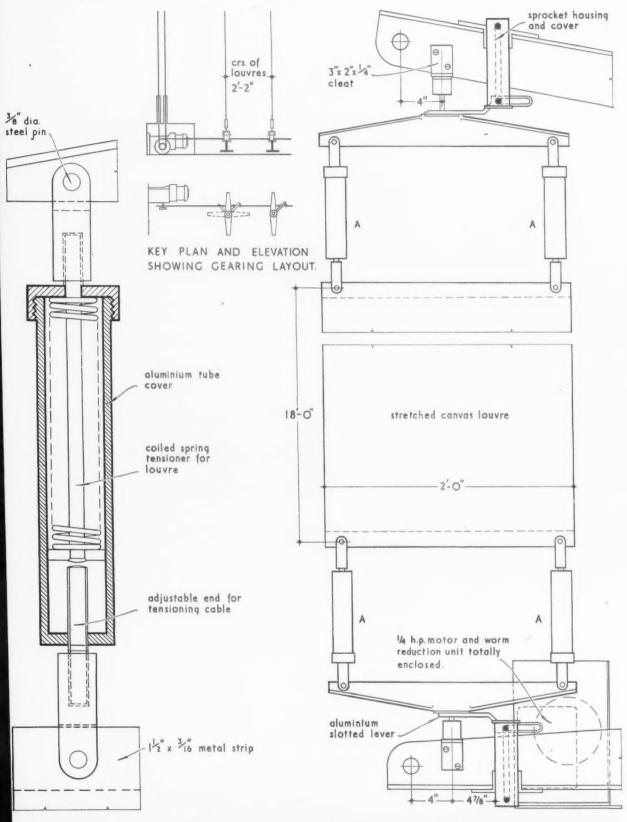


The green canvas louvres are electrically operated and when fully opened are at right angles to the window: when closed they lie parallel to the window with narrow vertical gaps between them.

WORKING DETAIL

CANVAS LOUVRES TO WINDOW: COUNTRY PAVILION, SOUTH BANK EXHIBITION

Brian O'Rorke, architect: R. T. James and Partners, consulting engineers.



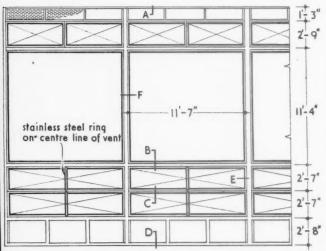
SECTION THRO' CANVAS-STRAINER (A). scale half full size

ENLARGED PART-SECTIONAL ELEVATION OF LOUVRE. $scale 1\frac{1}{2}$ " = 1-0" WINDOW IN RESTAURANT: WATERLOO STATION GATE, SOUTH BANK EXHIBITION Sir John Burnet, Tait and Partners, architects: Freeman, Fox and Partners, consulting engineers.

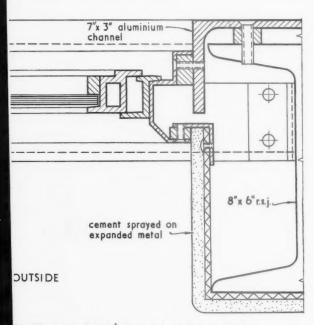


The double row of opening lights at the bottom of the window are horizontally centre-hung and each is encircled midway, for strength, by a stainless steel hoop.

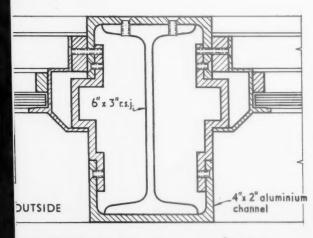
WINDOW IN RESTAURANT: WATERLOO STATION GATE, SOUTH BANK EXHIBITION Sir John Burnet, Tait and Partners, architects: Freeman, Fox and Partners, consulting engineers.



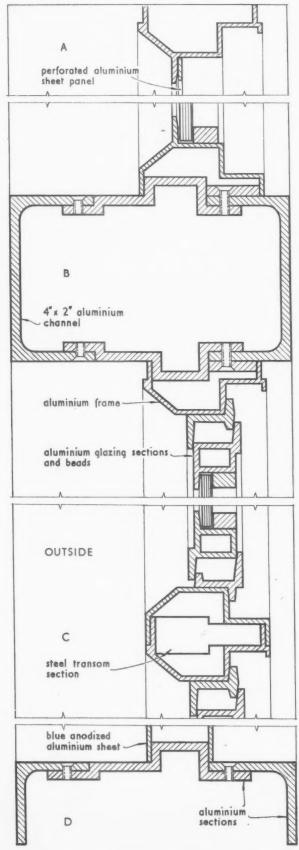
KEY ELEVATION. scale 18 1-0"



PART PLAN THRO' DIVIDING POST AT E. scale 3/8 full size



'LAN THRO' MULLION AT F. scale 3/8 full size



SECTION THRO' WINDOW. scale 1/2 full size





INFORMATION CENTRE · INFORMATION SHEETS QUESTIONS AND ANSWERS . CURRENT TECHNIQUE THE INDUSTRY . PRICES . TECHNICAL ARTICLES

TECHNICAL SECTION

In our issue of Oct. 26 and Nov. 2, 1950, when we introduced to our readers "A New Method of Building" (the Schindler system) and pointed out its theoretical advantages and its successes on the continent, we asked the question "What is the future for this system in Great Britain?" These houses at Hatherley, described in the following report, provide, surely, a most optimistic answer.

SCHINDLER —GOEHENER HOUSING AT HATHERLEY, GLOUCESTERSHIRE*



During the war many aircraft factories were set up in the Cheltenham area and a number of government departments were evacuated there. The resulting influx of population created in Cheltenham and the surrounding districts a severe housing problem. This has been met partly by the erection of prehas been met partly by the erection of pre-fabricated dwellings (both temporary and permanent, but mainly aluminium bungalows) but these do not provide the most economical solution. The conventional house-building pro-gramme has been hampered by shortages of labour and materials. There are, for example, no large brickfields in the area and most of the bricks used must be brought.

and most of the bricks used must be brought from the London area.

Prefabricated houses are, therefore, forming an important part of the Council's building programme and, although no exact figures are available, the cost of the Hawksley SGS houses, described in this article, a pilot contract of 84, compared favourably with that of traditional houses. With regard to appearance, readers may judge from the photograph above. Cheltenham's Borough Surveyor (G. G. Marsland)

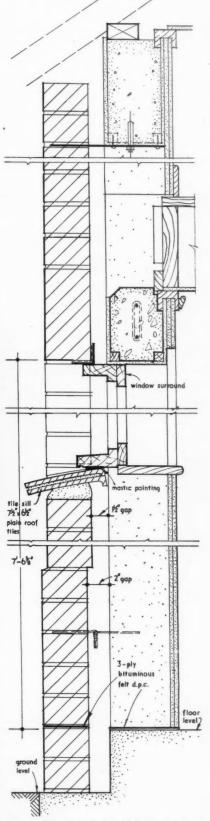
has stated that he considers that the finished article is attractive and "doesn't look like a factory-made house." With regard to the contract generally, he said "There have been difficulties, and these were made worse by the bad winter we had, but, generally speaking, it has been a very good and useful trial."

DETAIL

The basic material used in Schindle:-Goehener type houses is plasterboard-definitely an inexpensive material. It is used both for the inner linings of the house and as permanent shuttering for the house and as permanent shuttering for the *in situ* concrete frame. (Concrete mix is 1:2:4; aggregate, $\frac{1}{8}$ in.) Wall and partition panels, 8 ft. high and 12 ft. wide, complete with doors and windows (ready-glazed) and, where and windows (ready-glazed) and, where applicable, pipes, conduit and even water taps, are fabricated in the factory and delivered to the site in standardized loads on 5-ton trailers. The different types of load are designated by code letters, and the site foreman can order whichever load he requires simply by quoting the appropriate letter. Altogether 5 loads are required for a pair of houses.

Fig. 4 shows one of the panels being

Fig. 4 shows one of the panels being lowered into position by the crane,



Above, Fig. 1, typical sections through front or rear wall, at eaves, window head, window cill and wall base. (Scale: 11 in. = 1 ft. o in.) Top left, the first completed

^{*} Architects: Robert Hening and Anthony M. Chitty. Prefabrication and Erection by Hawksley Constructions.

204]



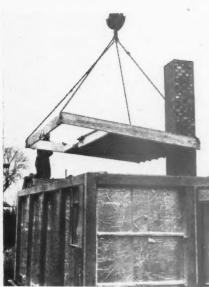
Three stages in the erection of the prefabricated shell. Left, (Fig. 2), the foundation slab and the freestanding chimneys. Below left (Fig. 3) the ground floor wall units and the floor panels. Below right (Fig. 4), the first floor wall and partition units.

WEATHERPROOFING

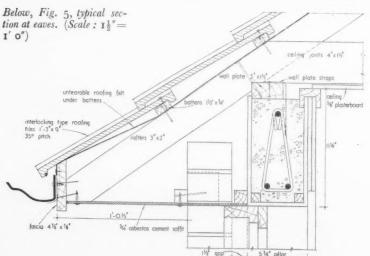
The outer surface of the plasterboard is covered with aluminium foil (seen clearly in Figs. 11 and 12). This protects it from the effects of the weather until the brick outer skin is formed, which gives these houses their conventional appearance. The aluminium foil and the closed air cavity provide insulation up to normal standards.

The covering of aluminium foil and the fact that the windows are ready-glazed means that at an early stage the job is completely waterproof. As can be seen in Figs 12 and 13, the tiling goes on before the brick cladding is built. Grey interlocking tiles are used and these are so accurately made that the tilers can start one tile short at one end and finish one short at the other end, so as to leave the ends free for the brickwork. (The end tiling is done later.) As the foreman said, "What it amounts to is that the tenant could move into the house before the brickwork is started."

During last winter's severe weather a number of the houses stood uncompleted, i.e., without their brick cladding, for several weeks, but there was no evidence of moisture penetration. This should allay any fears which architects may have had regarding this aspect of this system of building.







In the words of the building manager, "It's stood as much this winter as it will ever have to stand."

have to stand."

The first floor, of timber boarding on joists with a plasterboard ceiling, is completely assembled in the factory in 6 large units embodying, where necessary, the electrical services. Fig. 5 shows one of these (the one trimmed for the staircase well) being lowered into position. lowered into position.

ROOF AND CHIMNEY

ROOF AND CHIMNEY

The roof is a traditional timber trussed rafter structure. The timber is all pre-cut to size and sub-assembled in the factory. The trusses are constructed entirely out of timber of small section—some 3 in. × 2 in., but mostly 3 in. × 1½ in. They are brought from the factory in two halves (Fig. 10 shows a trailer load) and the roof is completely assembled on a jig at ground level on the site (Fig. 8) and lifted into position by the crane (Fig. 9). An important point to note is that when a roof is hoisted into position the stresses set up in it are different from those which occur when it is in position and under load. Extra, temporary, bracing is used under load. Extra, temporary, bracing is used to take these stresses.

SHOP FRONT, MESSRS. GEORGE DOLAND LTD., STATION ROAD, HARROW

early the outer ouses minovide

e fact leans etely and cladare that e end so as vork. foret the e the numi.e., veral sture

this

"It's ever joists letely

units

(the

ussed

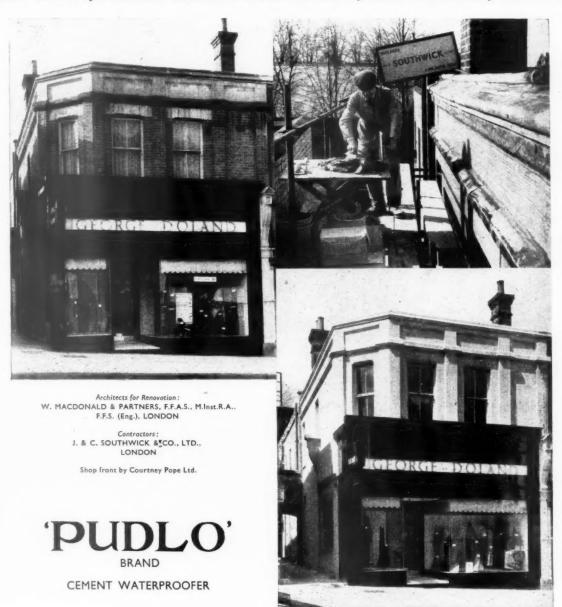
re-cut

ut of 2 in., ought shows

letely n the y the

note

n and s used



THE new waterproofed cement stucco to this palatial shop front is in striking contrast to the black armour plate glass and will retain its clean stonelike appearance indefinitely. It is impervious to moisture and dirt and its surface is washed clean by each shower of rain. Although the Architect informed us that he had specified 'PUDLO' Brand Cement Waterproofer for many years with complete satisfaction, he was also very pleased in receiving our up-to-date specifications, one of which he worked to in this case, and the Builders also are regular users of our product. Write for this specification and also for others dealing with the cure of dampness in walls. We will send you copies, post free, upon request.

KERNER-GREENWOOD & COMPANY, LIMITED KING'S LYNN Sole Proprietors and Manufacturers NORFOLK

The word 'PUDLO' is the registered Trade Brand of Kerner-Greenwood & Co., Ltd., by whom all articles bearing that Brand are manufactured or guaranteed



BISON

helped to speed the building of the

ABBEY STEEL WORKS

CONCRETE LIMITED

Precast Floor Specialists since 1919

LEEDS

Hounslow

LICHFIELD

EDINBURGH

FALKIRK

Constreliminatop second 16). The first, but be hoise At one be easies to they longer.

The wof timb

be an window There fitted w

After and the er in sit tiling. The beat which as the you be variou. The the properties of the propert

may

Exper

roof (Scal Constructing the roof at ground level eliminates the need for scaffolding. So the top section of the chimney is also built at ground level and hoisted into position (Fig. 16). The bricklayers laughed at the idea at first, but it was found that 8 chimneys could be hoisted and fixed in 2½ hours. At one stage, the carpenters said it would

be easier to build the roof in the normal way, so they were allowed to try—it took much longer.

WINDOWS

The windows are unusual. The frames are of timber, but opening sashes are of metalin this case, aluminium. This is claimed to

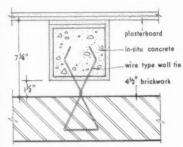


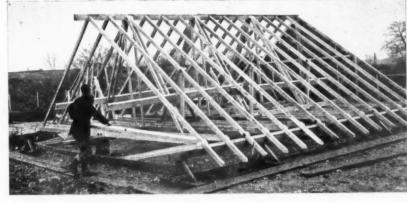
Fig. 6. Plan at typical column. $(Scale: \mathbf{I}_2^{1''} = \mathbf{I}' \circ '')$

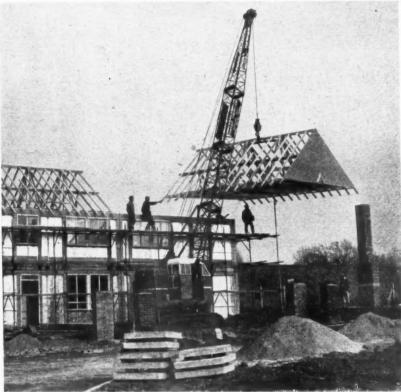
be an economical arrangement and the windows appear to function satisfactorily. There are no fanlights but the casements are fitted with handles with a 2-point nose, for providing minimum ventilation when required.

THE ERECTION PROCEDURE

After the foundation slab has been poured and the free-standing chimney stacks built, the erection of the prefabricated shells, the in situ frames and the roofs, including tiling, of 3 pairs of houses takes only 5 days. The brick cladding takes 3 bricklayers one week per pair of houses. The setting out is most important: if inaccurate, then angles which should be right angles are not. But, as the building manager put it, "If it's right, you have no trouble at all," in fitting the various prefabricated units into position. The only scaffolding required, except for the portable aluminium scaffold used for erecting the free-standing chimneys, is that used for the brick cladding, (see P. 206). Experiments are being carried out with various different types of scaffolding and it may be decided that simple trestles serve the purpose adequately.

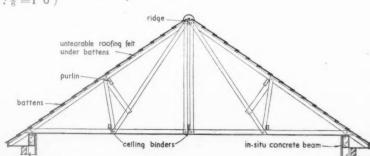
purpose adequately.

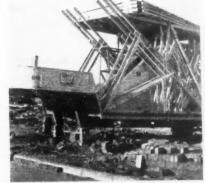




The roof. Top (Fig. 8), fabrication at ground level. Above (Fig. 9), hoisting the roof into position by crane.

Below, Fig. 7, section through roof showing details of truss. (Scale: \frac{1}{5}"=1' \omega")





Above, Fig. 10, a trailer load of roof components.



THE FALKIRK

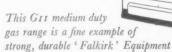
"Now if I were a Captain of Industry...

I'D PUT IN 'FALKIRK'
HEAVY DUTY COOKING EQUIPMENT"

TNDUSTRIAL RELATIONS' was a phrase uncoined when Sir Francis Drake was sailing rings round the Armada lumbering its way up Channel, but his probable attitude can be judged by his well-known order: "I must have the gentlemen to haul and draw with the mariner, and the mariners with the gentleman. I would know him who would refuse to set a hand to a rope." If Sir Francis were in charge of a modern industrial staff he would sing out loud and clear for 'Falkirk' cooking equipment to provide hot, adequate wholesome meals. 'Falkirk,' acknowledged experts in this field, make cooking appliances for every known type of fuel: gas, steam, electricity, solid fuel and oil. Craftsmanship, experience and fine material ensure that 'Falkirk' equipment stands up to long years of exacting trouble-free service.

"FALKIRK" SERVICE FOR CATERERS

Catering problems vary. Canteens, hospitals, hotels, clubs and cafés cater for different needs. That is why 'Falkirk' maintain a permanent staff of experts to prepare individual plans for every type of kitchen. Representatives are located all over Britain to give advice, supervise installation, inspect and provide maintenance when the kitchens are finally in operation.



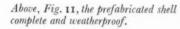
IRON CO. LTD. FALKIRK, SCOTLAND

Mortimer House, 37/41 Mortimer Street, London, W.1. 40 Hanover Street, Leeds 3 18 Leigh Street, Liverpool (Proprietors: Allied Ironfounders Limited)



furi





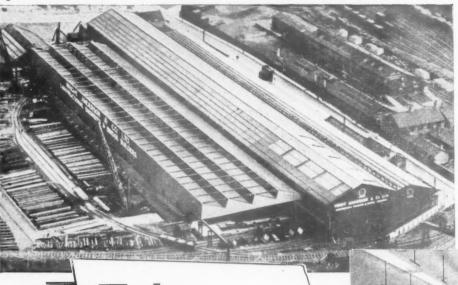


Above, Fig. 12, tiling completed (except end courses) before brickwork commenced. Right, Fig. 13, brickwork nearly completed. (N.B. No further scaffolding required; chimney has already been placed in position by crane.)





repare tatives istallaitchens



Take a look at us-

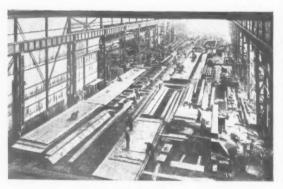


DESIGN

You will readily see from these illustrations that "Wright Anderson" have ample facilities to deal with all types of modern structural steelwork, light, medium or heavy—from Design to Erection.

Our Works are equipped with the latest machinery to ensure "Service with Quality, Speed with Reliability". We take pride in the thought that every job we tackle is in the best traditions of constructional steelwork.

Let us discuss your projects with you.



FABRICATION

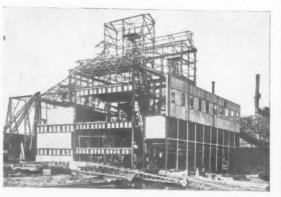
Wright Anderson & C°L T°

CONSTRUCTIONAL ENGINEERS AND BRIDGE BUILDERS
GATESHEAD 8, CO. DURHAM

Phone: Gateshead 72246 (3 lines) Grams: "Construct, Gateshead"



London Office: Regent House, Kingsway, W.C.2 Phone: HOLborn 9811



ERECTION

porty we

34 thick

concrete

first fl

first fle

3/8 pi

3/8 p

gro

PAF virt sist to this

> sid ver are ties uit

COMMENT

The contractor's Building Manager (C. H. Stidworthy) and the General Foreman (C. Marr) were equally enthusiastic about the whole affair.

whole affair.

The workmen were not picked in any way. They were ordinary tradesmen and labourers accustomed to working on traditional houses. Dubious at first, the men gradually grew enthusiastic as they saw the rate at which they were getting the houses up. This bears out experiences on other sites where non-traditional house-building systems have been used. It is most important for the success of work of this kind that the men should work as a team; a good team spirit had cerwork as a team; a good team spirit had certainly developed on this site.

It has been suggested that the plumbers and electricians might feel that their status as craftsmen was threatened by working on houses where all they have to do is to assemble prefabricated units, for all the piping is pre-bent and all wiring cut to length and sub-assembled in the factory. But this and sub-assembled in the factory. But this feeling has not arisen; on the contrary, the men like the work and appreciate the improved working conditions—the cleanliness and the absence of draughts (due to the windows being delivered ready-glazed).

Said a foreman plumber—"Of course, I wouldn't like to be on this work all my life. I've been in the trade 30 years and there's no job you would want to do indefinitely, but this is certainly the way to build . .

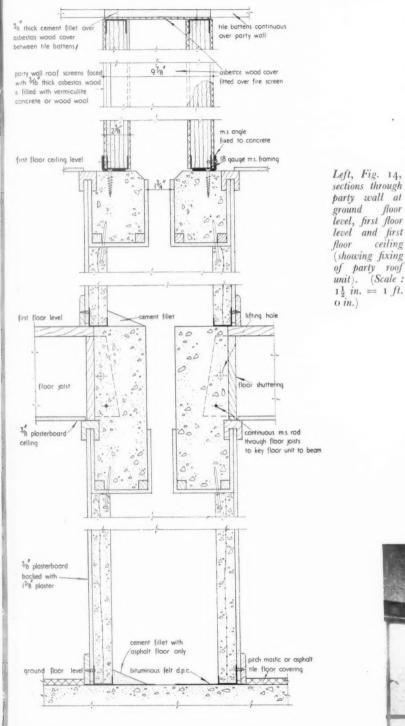
ADVANTAGES OF THE SYSTEM

floor

ceiling

It is claimed that, compared with traditional houses, houses built by this system save about 40 per cent. in total man hours, including factory work and site work. The overall time cycle on the site is 4 months, i.e. 4 months after work commences on the site the first house is ready for occupation. After this, houses are completed at the rate of 8 per week.

Another advantage claimed is that the bricklayers work is simplified and that there is, virtually, no cutting of bricks to be done. The bricklayers themselves confirmed this, saying, "this is real straightforward work ... it is quite true we don't have to cut any



PARTY WALLS

Each house of a semi-detached pair is virtually separate. For the party wall consists of 2 halves, 2 in. apart, one belonging to each house. Up to 1st floor ceiling level this consists of a 2-in. gypsum plaster slab, reinforced with chicken wire. Above, i.e., in the roof space, the construction is different. the roof space, the construction is different. It consists of a light steel frame, faced each side with asbestos wood and filled with vermiculite concrete. The local authorities are satisfied with the fire-resisting properties of this construction, and the discontinuity of convergence of the construction and the discontinuity of convergence of the conve uity, of course, reduces sound transmission.

Right, living room of completed house. Note the convector fire, giving warm air to bedrooms (see details on p. 209).



WILLIAM MALLINSON & SONS LTD

Timber Veneers Plywood

THE THE PARTY OF T 130 - 150 HACKNEY ROAD

· LONDON · E.2

TELEPHONES : SHOREDITCH 8888-8811



laye the (see

the

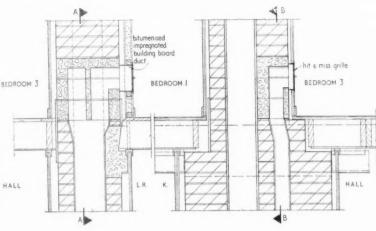
Th

and

few

It the all

Left, Fig. 15, sections through chimney stack at first floor level, showing warm air flues. (Scale: \(\frac{1}{2}\) in. = 1 ft. 0 in.)



Right, kitchen of a completed house, with door to living room just visible on right.



bricks." Another advantage, from the brick-layer's point of view, is that, except where the columns occur, the cavity is 7 in. wide (see Fig. 6) and the bricklayer can put his whole arm in to remove excess mortar with his trowel and prevent droppings—a far more reliable method than the traditional use of a batten in 11-in, cavity brickwork. (At the columns the cavity is 1\frac{1}{4} in. wide.)

As mentioned above, the roof goes on before the bricklayers start work and they are, therefore, protected from the weather by the over-hanging eaves. It has been found that they could work in all weathers, except frost—surely a most important consideration in this country.

There are no plasterers on the site at all. The plasterboard to the first floor ceiling can be fixed by carpenters as it is not skimmed afterwards.

Many architects have little faith in the ability of building operatives to work cleanly, and one would imagine that a lot of mess might be made when the *in situ* concrete is poured into the beam and column casings. In fact very little is spilled. There were a few splashes on window cills, but these were removed by the painters when they cleaned up prior to painting. Incidentally, spray guns are used throughout for giving the plasterboard its final coat (the undercoats are applied in the factory).

similarly, breakages of the factory-glazed windows are rare and the cost of replacing a few panes (and a few panes always manage to get broken even on traditional sites) is negligible compared with the advantages of factory glazing which is better and more economical.

It is easier to organize a bonus scheme on these houses than on traditional houses, and all the work has, in fact, been bonused.

FUTURE DEVELOPMENTS

One of the few criticisms made by the local borough surveyor is that the houses lack variety. But designs are on the drawing board for terrace groups, containing some 3-bedroom and some 4-bedroom houses, with small 2-bedroom houses at each end. The use of bay windows and alternative types of porch are also under consideration as methods of introducing variety. The borough surveyor also mentioned what he calls a "remarkable new advance" which may be incorporated in future development of this system of building. This will be the use of pre-cast plaster panels instead of plasterboard and a pair of experimental houses on these lines are about to be erected on the same site. No doubt we shall be hearing more of this in due course.

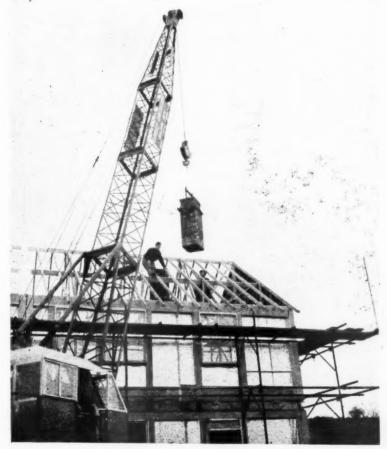


Fig. 16. Top section of chinney, built at ground level, being hoisted into position by mobile crane.

Buildings Illustrated

Factory and ancillary buildings at Salfords, near Redhill, Surrey, for The Monotype Corporation Ltd. (Pages 190-191.) Architects: Leo O. L. Hannen & Partners, L.R.I.B.A., A.I.ARB. Consulting Engineers for mechanical and electrical services: G. H. Buckle & Partners. General Contractor: H. Bacon & Son Ltd. Sub-contractors: Excavation, G. S. Faulkner & Sons Ltd.; foundations, reinforced concrete, plumbing, H. Bacon & Son Ltd.; dampcourses, Ruberoid Co. Ltd.; roof trusses, Structural & Mechanical Development Engineers Ltd.; roof lining, Anderson Construction Co. Ltd.; bricks, G. Fox & Son: steel and aluminium anical Development Engineers Ltd.; roof lining, Anderson Construction Co. Ltd.; bricks, G. Fox & Son; steel and aluminium rectors, special roofings, Carter-Horseley (Engineers) Ltd.; artificial stone, Kendell's Stone & Paving Co. Ltd.; structural steel, The English Bridge & Structural Engineering Co. Ltd.; fireproof construction, Smith's Fireproof Floors Ltd.; roofing felt, The Ruberoid Co. Ltd.; partitions, Aygee Ltd.; glass, Pilkington Bros. Ltd.; patent glazing, The British Challenge Glazing Co.; woodblock flooring, Horsley Smith & Co. (Hayes) Ltd.; patent flooring, Morth British Rubber Co. Ltd.; waterproofing materials, Sika Ltd.; central heating, Z. D. Berry & Sons Ltd.; boilers, La Mont Steam Generator Co. Ltd.; electric wiring and light fixtures, Rashleigh boilers, La Mont Steam Generator Co. Ltd.; electric wiring and light fixtures, Rashleigh Phipps & Co. Ltd.; ventilation, Z. D. Berry & Sons Ltd.; sanitary fittings, John Bolding & Sons Ltd.; door furniture, Nettlefold & Sons Ltd.; casements, Crittall Manufacturing Co. Ltd.; Skeet & Neffes, Lenscrete Ltd.; generating plant, English Electric Co. Ltd.; main control gear, British Thomson-Houston Co. Ltd.; main control gears. Brookhirst Co. Co. Ltd.; main control gears, Brookhirst Co. Ltd.; iron staircases, The English Bridge & Structural Engineering Co. Ltd.

Abbey Steel Works, Margam, Port Talbot, South Wales, for the Steel Company of Wales Ltd. (Pages 195-202.) Consulting

Architects: Sir Percy Thomas & Son, P.P./A.R.I.B.A. Co-ordinating Consulting Architecis: Sir Fercy Indinas & Son, P.P.A.R.I.B.A. Co-ordinating Consulting Engineers: International Construction Co. Ltd.; Consulting Civil and Structural Engineers: W. S. Atkins & Partners. Consulting Electrical Engineers: McLellan & Partners. Quantity Surveyors: Gardiner & Theobald Among the principal contractors. Theobald. Among the principal contractors and sub-contractors engaged on the Abbey Works and the remodelled Margam Works works and the remodelled Margam Works were the following:—General Contractors: George Wimpey & Co. Ltd., John Laing & Sons Ltd., John Morgan (Builders) Ltd., Sir Robert McAlpine & Son., Andrew Scott & Son. Steelwork Contractors: Dawnays Son. & Son. Steelwork Contractors: Dawnays Ltd., Dorman Long & Co. Ltd., Sir William Arrol & Co. Ltd., T. C. Jones & Co. Ltd., Braithwaite & Co. Ltd., The Fairfield Shipbuilding & Engineering Co. Ltd., A. E. Watson & Co. Ltd., Connies & Meaden Ltd., Rees & Kirby Ltd.; Precast floors and roofs, Concrete Ltd., Fabricrete Products Ltd., hollow tile floors, Penarth Concrete Co.; bricks, Ebbw Vale Brick Co., Star Brick & Tile Co., Tondu.; reconstructed stone, Penarth Concrete Co., Cloucester Stone Co.; steel windows & roof lights, Henry Hope & Sons, The Crittall Gloucester Stone Co.; steel windows & roof lights, Henry Hope & Sons, The Crittall Manufacturing Co. Ltd., Williams & Williams Ltd., John Williams & Son Ltd., pressed metal, Henry Hope & Sons Ltd., Bernard Hastie & Co. Ltd., Williams & Williams Ltd.; insulating screeds & plasters, Dohm Ltd., Vermiculate Ltd., Meta-Mica Ltd.; roofing, Ragusa Asphalte Paving Co. Ltd., William Briggs & Sons Ltd., Pure Rock Asphalte Co.; plastering, W. A. Telling, Plasterers Ltd.; flush doors, Leaderflush Ltd., Saro Doors Ltd., Southerns Ltd.; joinery, A. Hurley & Sons, J. Nicholas, Percy Simmons; glazing, Welsh Glass Co.; decoration, Ian Williams, Metallization Ltd.; wood block flooring, Acme Flooring & Paving Co. (1904) Ltd., Horsley Smith & Co. (Hayes) Ltd., Stevens & Adams Ltd.;

floor & wall tiling, Carter & Co. Ltd.; granolithic paving, Johnson, Pure Rock Asphalte, Jaconello Ltd., Marble Mosaic Co.; composition flooring, Korkoid Decorative Floors, Jaconello Ltd., Marble Mosaic Co.; composition flooring, Korkoid Decorative Floors, Semtex Ltd., Accotile; WC cubicles, steel, Henry Hope & Sons Ltd., Williams & Williams Ltd; sanitary fittings, Associated Clay Industries Ltd.; drying room racks, James Gibbons Ltd.; Ironmongery, James Gibbons Ltd.; suspended ceilings, Acousti-Cellotex, Horace W. Cullum & Co. Ltd., John Bland, Bowaters; sprayed ceilings, Turners Asbestos Cement Co. Ltd.; metal balustrading, John Williams & Sons Ltd.; Bernard Hastie; metal racking, John Williams & Sons Ltd.; decorative metal stair balustrades, Morris Singer Co., Birmingham Guild Ltd.; faience, Star Brick & Tile Co. Ltd., Carter & Co. Ltd.; glass domes, Pilkington Bros. Ltd.; roof lights, glass/cove, J. A. King & Co. Ltd., Lenscrete Ltd., Verlith Construction Ltd.; roller shutters, Haskins, Picketts, A. L. Gibson Ltd.; folding gates, Bolton Gate Co. Ltd.; lifts, Waygood-Otis Ltd., Express Lifts Co. Ltd.; heating installation, J. C. Hitt & Sons, G. N. Haden & Sons Ltd., Carrier-Ross Engineering Co. Ltd.; electrical installation, Drake & Gorham Ltd., J. W. & E. Morris & Sons, W. J. Eurse & Co. Ltd. installation, Drake & Gorham Ltd., J. W. & E. Morris & Sons, W. J. Furse & Co, Ltd.; laboratory furniture, T. Dryden, North of England School Furnishing Co. Ltd.; main England School Furnishing Co. Ltd.; main entrance gates, Bayliss, Jones & Bayliss Ltd.; catering equipment, F. E. Bartlett & Sons; strong rooms, The Chatwood Safe & Engineering Co. Ltd.; metal partitioning, The Chatwood Co. Ltd.; Roneo Ltd.; Portland stonework, E. Turner & Sons; fire extinguisher systems, The Pyrene Co. Ltd.; sewage plant, Adams Hydraulics; paints & distempers, I.C.I. Paints, Walpamur Co., Paripan Ltd., Vitretex Ltd.; vacuum systems, Lamson Tube Co.; steel doors Dreadnought Fireproof Doors (1930) Ltd.; steel sheeting, Johnson Bros. (Steel erectors) Ltd.; piling. Johnson Bros. (Steel erectors) Ltd.; piling. The Franki Compressed Pile Co. Ltd.

Consu

Sir

Consu W. 5



ANN'S STREET, WESTMINSTER, S.W.I.

Telephone: ABBEY 4661 (10 lines)

Use PARIPAN PRODUCTS

for

ALL INDUSTRIAL & DECORATIVE PURPOSES



Slabbing Mill Motor Room

PARIPAN PRODUCTS

were used at

THE ABBEY STEEL WORKS
of

THE STEEL COMPANY of WALES LTD

Consulting Architects:

ill wish

ency of

NEERS

reatham

rano-

halte, comloors, steel

Wil-Clay lames bons lotex,

John irners strad-

rnard ades, Ltd.: ter & Ltd.; Co. A. L. Gate press Ltd. W. & Ltd.; th of main Ltd.: Sons oning. Portfire Ltd.; Co.. stems. ought piling,

Sir Percy Thomas & Sons, P.P./A.R.I.B.A.

Consulting Engineers:

W. S. Atkins & Partners



PARIPAN LIMITED LONDON & EGHAM



offer you co-operation and friendly advice.

329. PUTNEY BRIDGE RD., PUTNEY S.W.15.

BLINDS (PUTNEY) DEAN'S

Tel: PUTney 3772



THE BRITISH MAGNESITE FLOORING CO. LTD. 60. SILWOOD STREET, LONDON S.E. 16

Telephone: BERmondsey 3031

FOR INFORMATION ON

T

tl

Ou of

Write for this 16 page publication PRESENTING IN CONCISE FORM

- **PROPERTIES**
- B.S.S. SPECIFICATION DETAILS
- APPLICATION DETAILS
- WEIGHTS OF VARIOUS GAUGES

COPPERTURES ETC. ROWNSONS ROWNSON'S TUBES ARE THE MOST ECONOMICALLY PRICED TUBES AVAILABLE

ROWNSON, DREW & CLYDESDALE LIMITED 225 UPPER THAMES STREET, LONDON, E.C.4



Established 1819

If You Have

Woodworm and Dry Rot Problems

VISIT OR WRITE TO

RENTOKIL WOODWORM and DRY ROT CENTRE

(Suite S)

23, BEDFORD SQUARE, LONDON, W.C.I

Tel: LANgham 5455/6

Rentokil Ltd. Fetcham, Leatherhead, Surrey Tel: Leatherhead 4021/2.

books

an illustrated catalogue of books on architecture, planning building practice and kindred subjects will be sent on application to THE ARCHITECTURAL PRESS

9-13 Queen Anne's Gate Westminster SW1

The Laboratory Furniture for

the Abbey Works Test House

was supplied by

ES

IITED

E.C.4

Rot

ГО

n d R E

RE,

d, Surrey

ce

SS

SW1

THE NORTH OF ENGLAND

SCHOOL FURNISHING CO. LTD.

Our experience in the designing, manufacturing and installing of Laboratories for Industrial Works, Universities and Schools is unrivalled. Our advice and knowledge is at your service. Let us quote you. Works, Darlington, telephone: 2708. London Office, telephone: Holborn 5221.



BIRMINGHAMEBLACKBURN
CONSTRUCTION - CO - LTD

ARMOURY CLOSE, BORDESLEY GREEN, BIRMINGHAM 9 - AND AT HARLEY ST., BLACKBURN

Dohm Vermiculite

was used at ABBEY STEEL WORKS, PORT TALBOT

FEATHERWEIGHT AGGREGATE

Concrete, Plaster & Loose Fill

SLASHES DEADWEIGHT INCREASES INSULATION

SCHOOLS, FLATS, HOSPITALS FACTORIES, POWER STATIONS, ETC.

* DOHM

■167 VICTORIA STREET, S.W.1. VIC. 1414/5/6 & 7913

all-round warmth



Space Heaters distribute

FOR HOME,
OFFICE
OR WORKSHOP

THERMOVENT

uniformly agreeable warmth into every corner. The elements are not exposed, there are no fans, the casing remains quite cool and there is no wall blackening: inset models can safely be built into walls or furniture. Specify Thermovent for domestic,





Thermovent

commercial or industrial heating.

• ELECTRIC SPACE HEATING

The Thermovent Technical Advisory Service offers assistance in the planning and testing of space heating equipment for buildings of all kinds. Write for details.

E. K. COLE LTD., 5 VIGO STREET, LONDON, W.I.

WOOD MOSAIC

OFFICES SCHOOLS HOSPITALS FACTORIES WOODBLOCK OORING

DURABLE DECORATIVE ECONOMICAL GUARANTEED

INDUSTRIAL FLOORING SPECIALISTS EOMAN ST. S. E. 8 TELEPHONE: BERmondsey 1144 (6 lines)



A rafter in the roof of Chichester Cathedral

showing damage by the Death Watch Beetle.

Expert treatment of

timber decay

The insidious workings of the Death Watch beetle are often not apparent until serious damage has been done. Only the scientific use of a penetrating and persistent insecticide will eradicate these borers. "WIKAMOL" polychlornaphhalene can bel confidently recommended and the experience and technical skill of our staff is at your disposal.

Send for free Technical Brochure "The Control of INSECT and FUN-GAL DESTROYERS OF TIMBER."

For advice and further details write to :-

RICHARDSON & STARLING LTD.

Members of the British Wood Preserving Association
HYDE STREET • WINCHESTER Tel: 253

Knowledge impresses - we take trouble to know

R. DURTNELL & SONS, LTD., BRASTED, Nr. Sevenoaks, KENT Tel.: Brasted 105-6.

SEVENOAKS, St. John's Hill. Tel.: Sevenoaks 3186. OXTED, Station Road East. Tel.: Oxted 498.

By using

"Cretestone

CONCRETE BONDING GYPSUM PLASTER

you save the cost of hacking concrete to provide a mechanical bond

Full information and complete specifications available on request.

GYPROC PRODUCTS LIMITED

Head Office: Westfield, Upper Singlewell Road, Gravesend, Kent. Telephone: Gravesend 4251-4. Telegrams: Gyproc, Gravesend.

Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow, S.W.1. Telephone: Govan 2141-3. Telegrams: Gyproc, Glasgow.

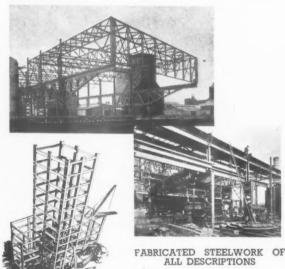
London Office: Morris House, 1-5 Jermyn Street, London, S.W.1. Telephone: Whitehall 8073/4

Makers of "PARISTONE" Browning Plaster (Haired, Unhaired and Metal Lathing Qualities),

"PARISTONE" Wall Finishing Plaster.

"GYPSTONE" Board Finishing Plaster.

CONSTRUCTIVE PROOF



- FACTORY BUILDINGS
- CONVEYORSBUNKERS
- GANTRIES GARAGES, Etc.

LAMIN

FINISH

ROOF

MASTI

EXCE

Telegra

A.G.B.ALLTON & C? LTD CONSTRUCTIONAL ENGINEERS

URE BANK-RIPON-YORKS P H O N E . - R I P O N - 2 O 2

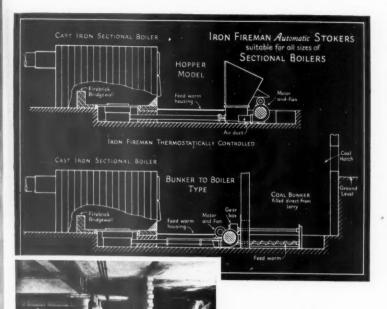
PARR SITE - ST HELENS - LANCS PHONE - ST. HELENS - 4821

38 WATERLOO RD.

WOLVERHAMPTON

HEAD OFFICE & WORKS

W O R K S



Sectional Hot Water and Steam Boilers fired by Iron Fireman Stokers

We illustrate a typical arrangement drawing of an Iron Fireman stoker on a Sectional Heating Boiler, and picture an actual installation.

Iron Fireman stokers are firing ALL TYPES OF SOLID FUEL BOILERS throughout the Country for they are recognised as the most successful Automatic Coal Stokers in Britain. They embody all that is finest in engineering skill and performance; and, because Iron Fireman engineers first introduced automatic stoking, they are the men most likely to solve your heat problem.



Automatic Coal Stokers

ASHWELL & NESBIT LTD., BARKBY ROAD, LEICESTER

LONDON: 12 Gt. James Street, Bedford Row, W.C.1. MANCHESTER (13): 184 Oxford Road. BIRMINGHAM (4): 12 Whittall St. LEEDS (6): 32 Headingley Lane. GLASGOW: 133 Douglas St. C2.

The ASPHALTE with a Service that Excels in every way



LAMINATED FELT ROOFINGS WITH VARIOUS FINISHES • PITCHMASTIC • TAR PAVING • ASPHALTE ROOFING, TANKING ETC., IN NATURAL ROCK OR

MASTIC ASPHALTE . COLOURED ASPHALTE PAVING OR FLOORING

EXCEL ASPHALTE CO LTD Broadway Chambers, Hammersmith, W.6

Telegrams: "CESLYM,", LONDON.

Telephone: RIVerside 6052 (4 lines)

HALL WIDE SPAN BUILDINGS

FOR CANTEENS . STAFF RECREATION ROOMS . WORKSHOPS & LIGHT WORK



Hall's are frenowned for their timber buildings not only as manufacturers but as prime designers and pioneers. Your needs receive the personal attention of those responsible for the high Hall standard and any building purchased is backed by the reputation, skill, and integrity of Halls of Paddock Wood. Building for Industry, Education, Sport, Municipal or Constructional needs. Site offices and Contractors' Huts also supplied. NO MATERIAL LICENCES NEEDED.

Let us quote you for your requirements, write.

PADDOCK WOOD
TONBRIDGE KENT

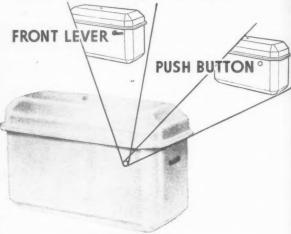






TO 2 NEW SYPHONIC FORDHAMS

Two new stars in the Fordham range. The LSF, a low-level syphonic cistern with an attractive chromium plated handle on the front, and the LSPB, the only one of its kind operating a syphon, for those who prefer push-button operation. Both models have all the well-tried Fordham features, so send today for the fully illustrated catalogue sheet to add to your file.



Creators of the first-makers of the latest seamless steel cistern. FORDHAM PRESSINGS LTD., DUDLEY RD., WOLVERHAMPTON. Telephone: Wolverhampton 23861.

intend you to specify Sash Windows, avoid future Cord troubles by ordering.



Sash Cords do not break — they rot. Stop the Rot—fit "EVERLASTO"

Specified by Housing Directors, Architects, and Builders

BRITAIN'S SUPER SASH CORD

* Weatherproofed by special process

* Weatherproofed AT NO EXTRA * Non Stretch * Durable **Rot Proof** * Low Long Cost Registered Trade Mark

No. 519412 Weatherproof and Rot Proof



ENDLESS CORD STRONG · DURABLE Ask for details and prices

Also Ideal for Colour Poles, Aerial Poles, Inside Clothes Airer Rails, etc.

> Made in all lengths Write for details

JAMES LEVER & SONS LTD Everlasto Cordage Works · Delph St. Bolton

CLASSIF Advertisem Manager, 13. Queen A should reac morning for Replies to see of "The given above

25a. pe

LO Applicatio 2580 basic a Department mined accor

mined accolingagemen
ment Super
dates will b
ment to the
vacancies.
All rates
at present
Successful
in the desi
drawings fc
storey flate.
Architect's
Forms of
Director of
minster l
envelope r
Canvassing

Canvassing
COUN
DIRECT I
APPOIN
Applicati
ment, at Grade VII
(£735 × £25Building I
ment of th
will be in
The appp
Scheme of
Conditions
varied fro varied fro of the L 1937.

The suc pass a me will be su Applicar
whole of '
direct last schools as
ition, alter
under the
Applicar
tion with
sive expet
and be 1
ministratibe thoroution, estit
the purch
Applicar
fessional
with the
ence may
undersign
1961.

Canvasse
disqualif;

Town Cle 30th J

Applica an ASSI Grade V Prefere of the F to the 1937. Applications applied to the 1937 applications of the under the

July,

Applic Draught Chief E Applic preferat an Arci Pendi national body, t per ann and ex Applic ments (

returne

CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Israger, "The Architects' Journal," 9, 11 and it Queen Anne's Gate, Westminster, S.W.L. and hould reach there by first post on Friday norming for inclusion in the following Thursday's

MS

TON.

fy re . .

RD

ble wo. ost

our side etc. paper.
Replies to Box Numbers should be addressed are of "The Architects' Journal," at the address are of "The

Public and Official Announcements 25s. per inch; each additional line, 2s.

LONDON COUNTY COUNCIL.
Applications are invited for positions of ABCHITECTURAL ASSISTANT (salaries up to S80 basic a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Biggagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

stes will be eligible for consideration for appointment to the permanent staff on the occurrence of resancies.

All rates of pay up to £600 a year (basic) are at present subject to an addition of 10 per cent. Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes, cottages and multiscrey flates), and will be employed in the Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed avelope required and quote reference A.A.1). Cavassing disqualifies. (316)

COUNTY BOROUGH OF BARNSLEY.
DIRECT LABOUR BUILDING DEPARTMENT.

APPOINTMENT OF BUILDING MANAGER.
Applications are invited for the above appointment, at a salary in accordance with A.P.T., Grade VIII, of the National Scales of Salaries (2738-225-2310 per annum). The Direct Labour Building Department will be a separate Department of the Corporation, and the person appointment will be in full charge thereof.

The appointment will be subject to the Council's Scheme of Conditions of Service, to the General Conditions of Service, to the General Conditions of Service within the Corporation as varied from time to time, and to the provisions of the Local Government Superannuation Act, 1397.

The successful candidate will be required to

1937.

The successful candidate will be required to pass a medical examination, and the appointment will be subject to two months' notice on either

will be subject to two months' notice on either side.

Applicants must be capable of managing the whole of the building works to be carried out by direct labour, both in the erection of houses, schools and other buildings, and in the renovation, alteration and maintenance of all properties under the control of the Council.

Applicants must either have held a similar position with another Local Authority or had extensive experience with a large Building Contractor, and be highly competent in management, administration and the control of labour. He must be thoroughly experienced in building construction, estimating, costing of building works, and the purchase of plant and materials.

Applications, giving age and full details of professional qualifications and experience, together with the names of three persons to whom reference may be made, should be submitted to the undersigned not later than Monday, 27th August, Canyassing, either directly, or indirectly, will

Canvassing, either directly or indirectly, will A. E. GILFILLAN, Town Clerk.

A. E. GILFILLAN,
Town Clerk's Office, Town Hall,
Barnsley,
30th July, 1951.

CITY OF GLOUCESTER.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of an ASSISTANT ARCHITECT. Salary A.P.T.,
Grade V (£570-£620 per annum).
Preference will be given to Associate Members of the B.I.B.A., and the appointment is subject to the Local Government Superannuation Act,
Applications stating.

1937.
Applications, stating age, whether married or single, training, qualifications, experience, previous appointments and present position, together with copies of recent testimonials, should reach the undersigned not later than Monday, the 29th August, 1951.

Suffolk House, Greyfriars, Gloucester.

July, 1951.

soffolk House, Greyfriars, Gloucester.

July, 1951.

LONDON ELECTRICITY BOARD.

DRAUGHTSMEN.

Applications are invited for positions as Draughtsmen in the Architect's Section of the Chief Engineer's Department in Central London.

Applicants should be neat draughtsmen, and preferably have had several years' experience in an Architect's office.

Pending grading of the posts under the national agreement of the appropriate negotiating body, the commencing salary will be from £400 per annum inclusive, according to qualifications and experience.

Application forms obtainable from Establishments Officer, 46, New Broad Street. E.C.2, to be returned completed within 10 days. Please enclose addressed foolscap envelope and quote Ref. EST/V/1256/A on all correspondence.

COUNTY BOROUGH OF WEST HAM.

Applications are invited for following posts on permanent establishment of Department of Borough Architect and Planning Officer in connection with Reconstruction Programme of the Borough.

Borough Architect and Planning Officer in connection with Reconstruction Programme of the Borough.

ARCHITECTURE:
SENIOR ASSISTANT ARCHITECT (TWO).
A.P.T., Grade VIII (£735×£25-£310).
SENIOR ASSISTANT ARCHITECT. A.P.T.,
Grade VII (£685×£25-£760).
Applicants should be A.R.I.B.A., having considerable experience in large Housing and Education works and Public Buildings, and should be capable of taking complete charge of contracts.
ASSISTANT ARCHITECT. A.P.T., Grade VIV (£657×£25-£710).
ASSISTANT ARCHITECT. A.P.T., Grade V/Va (£570×£15×£15×£20-£620).
Applicants should be A.R.I.B.A. or Registered Architects, and have had experience in large Housing and Education works and able to supervise contracts.

PLANNING:
SENIOR ASSISTANT (PLANNING). A.P.T., Grade VIII (£755×£25-£760).
SENIOR ASSISTANT (PLANNING). A.P.T., Grade VIII (£755×£25-£760).
Applicants should be A.R.I.B.A. and A.M.T.P.I., and experience in the planning work entailed in the reconstruction of a war damaged and obsolete area.

GENERAL ASSISTANTS. TECHNICAL (Architecture and Planning). General Division Scale: £150 (age 16), £245 (age 21), £425 (age 30).
Applicants should be probationers of the R.I.B.A. Previous experience in an Architect's office is desirable, but not essential. Applicants should state their position regarding military service.

West Ham Town Hall. Stratford, E.15. 4086

BRACKNELL DEVELOPMENT CORPORATION (BRACKNELL BERKS).

Applications are invited for the following appointments:—

(1) CHIEF ASSISTANT ARCHITECT, at a commencing salary of £1.200 p.a. The successful candidate will be responsible for the control of a large drawing office staff engaged on a wide variety of work both architectural and planning, and for the co-ordination of a large building programme.

variety of work both architectural and planning, and for the co-ordination of a large building programme.

(2) SENIOR ARCHITECT. Salary £960×£50—£1,060 p.a. The successful candidate will be responsible for the control of that section of the department engaged on planning and all architectural work other than housing.

The posts will be superannuable under the Local Government Superannuable under the Loc

EASINGTON RURAL DISTRICT COUNCIL.
ENGINEER'S DEPARTMENT.
Applications are invited for the following permanent appointments:—
(a) SENJOR ARCHITECTURAL ASSISTANT.
Grade A.P.T.. V (£570-£620 per annum).
(b) ARCHITECTURAL ASSISTANT. Grade A.P.T.. IV (£530-£575 per annum).
Applicants for both appointments must have had previous Municipal experience, have been trained in the office of a Municipal Engineer.
Architect or Surveyor, be experienced in Municipal Housing and General Architectural work, and have the qualifications specified by the National Conditions of Service.
The appointments are subject to the National Scheme of Conditions of Service and the Local Government Superannuation Act. 1937. The successful applicant in each case will be required to undergo a medical examination.
If required, housing accommodation will be provided.
Forms of Application may be obtained from the undersigned, and must be returned endorsed for the appointment for which application is made, and accompanied by copies of two recent testimonials, to reach the undersigned not later than first post on Tuesday, the 4th September, 1951.

J. W. GRAY.

Clerk of the Council.

WELWYN GARDEN CITY AND HATFIELD DEVELOPMENT CORPORATION. ASSISTANT QUANTITY SURVEYOR. Applications are invited for the appointment of Assistant Quantity Surveyor, at a saiary of £800

Assistant Quantity Surveyor, at a sasary or £390 per annum.

Applicants should be experienced in taking-off quantities for housing schemes, commerciat, industrial and public building, and in the preparation of Bills of Quantities, Estimates, Certificate Valuations and Final Accounts.

Preserence will be given to Members of the Royal Institution of Chartered Surveyors.

The appointment is superannuable and terminable by one month's notice on either side.

The successful applicant will be assisted in obtaining housing accommodation if required. Applications, giving age, quantifications and full details of present and past experience, salaries and appointments held, together with the names of three persons to whom reference may be made, should be addressed to the General Manager at Midland Bank Chambers, Welwyn Garden City, Herts., and be received by 4th September, 1951.

SINGAPORE IMPROVEMENT TRUST.
PLANNING OFFICERS.
(1) TWO PLANNING OFFICERS (A and B) are required by the Singapore Improvement Trust, the appointments in the first instance being on a three-year agreement. Age preferably under 30 years.

the appointments in the first instance being on a three-year agreement. Age preferably under 30 years.

(2) Applicants for both posts must be qualified as A.M.T.P.I. Additional requirements are as follows:—Post A: Experience as a statutory planning officer with a Local Planning Authority. Post B: Architectural training, and should preferably be an A.R.I.B.A.

(3) Salary scale: \$500-\$1,000 per month, the point of entry depending on the age, qualifications and experience of the appointee. Expatriation allowance \$110-\$190 per month, according to basic salary. Cost-of-living allowance \$9 per cent. of the first \$200 p.m. of basic salary, plus (i) single officers 40 per cent. of next \$400 and 25 per cent. of next \$400 of basic salary (max. allowance \$330 p.m.); (iii) married officers (not children) 55 per cent. of next \$400 and 45 per cent. of next \$500 of basic salary (max. allowance \$555 p.m.); (iii) married officers (with children) 75 per cent. of next \$400 and 65 per cent. of next \$100 of basic salary (max. allowance \$555 p.m.). An allowance will be paid to cover cost of duty transport. All allowances are subject to revision. \$1 (Malayan) equals 28. 40. For example a married officer (with children) on a basic salary of \$590 p.m. would draw equivalent of £1,655 lbs. per annum, including present allowances.

(4) Strict medical examination.

of \$1,655 10s. per annum, including present allowances.

(4) Strict medical examination.

(5) Provident Fund, to which the appointee must contribute 7½ per cent. of basic salary; the Trust contributes a minimum of 7½ per cent., rising by stages to 20 per cent. after 20 years' service.

(6) Leave and passages in accordance with Regulations.

(7) Quarters (with heavy furniture) are provided at a rental of 8 per cent. of salary, or a housing allowance (12½ per cent. of salary, or a housing allowance (12½ per cent. of salary) paid in lieu.

(8) Applications in duplicate, with full personal and technical information, and copies of three recent testimonials (also in duplicate), to Messrs. Peirce & Williams (Agents to the Trust), 1, Victoria Street, London, S.W.1, before Tuesday, the 4th September, 1951.

LIVERPOOL REGIONAL HOSPITAL BOARD.

Applications are invited from suitably qualified persons for the appointment of SENIOR ASSISTANT ARCHITECT, in the Regional Architect's Department, situated at 88, Church Street, Liverpool, 1.

Salary: £750×£25—£850 per annum.

TANT ARCHITEAU. II.
Department, situated at 88, Church Street, Live.
Department, situated at 88, Church Street, Live.
Department, situated at 88, Church Street, Live.
Applicants must be Associates of the Royal Institute of British Architects, and preferably have had experience in the design and construction of hospitals, and must be canable of carrying out and advising on large building contracts.
The appointment is pensionable and the successful candidate may be required to pass a medical examination.
Applications, stating age, education, qualifications, experience, present and previous appointments, salary, together with the names and addresses of three referees, should be sent to the undersigned at 19, James Street, Liverpool 2, to be received not later than 30th August 1951.
VINCENT COLLINGE.

Secretary to the Board.

BURGH OF ALLOA.

APPOINTMENT OF SENIOR ARCHITECTIVAL ASSISTANT.

Applications are invited for the appointment of Senior Assistant Architect. on the staff of the Council's Architect. at a salary of £490-£535, placing on grade according to experience.

Applicants must be Registered Architects. Preference will be given to candidates who are Members of the R.I.B.A., and who have knowledge of Local Authority Housing Design. Bxperience in Quantities is essential.

The post will be superannuable, and the successful applicant will be required to pass a medical examination. Applications, giving age qualifications and experience, accompanied with the names and addresses of two persons to whom reference may be made, should be sent to Mr. W. H. Gillespie, L.R.I.B.A., Burgh Architect, Municipal Buildings, Alloa, not later than 31st August.

WILLIAM MALTMAN.

Town Clerk.

CITY AND COUNTY OF NEWCASTLE-UPONTYNE.

CITY ARCHITECT'S DEPARTMENT.

The City Architect will be pleased to hear from Architects possessing a contemporary outlook and considerable aptitude in matters of architectural design and construction in connection with the following vacancies in the Housing and Education Sections of the Department:—

HOUSING:

ONE SENIOR ASSISTANT ARCHITECT.

A.P.T., Grade VIII (£735-£310), for Normal Housing.

A.P.T., Grade VIII (2705)
Housing.
TWO SENIOR ASSISTANT ARCHITECTS.
A.P.T., Grade VII (£685-£760), for Normal

Housing.

TWO SENIOR ASSISTANT ARCHITECTS.
A.P.T., Grade VII (£685-£760), for Normal Housing.
ONE ASSISTANT ARCHITECT. A.P.T., Grade VI (£645-£710), for Multi-storey Flats.
This Section is under the control of a Chief Assistant Architect in charge of Housing, responsible for two sub-sections dealing with (a) anextended programme of Normal Housing, and (b) new schemes of Multi-storey Flats.

ONE SENIOR ASSISTANT ARCHITECT.
A.P.T., Grade VII (£685-£760).
ONE ASSISTANT ARCHITECT. A.P.T., Grade V (£570-£620).
ONE ASSISTANT ARCHITECT. A.P.T., Grade IV (£530-£575).
The work of this Section includes the design and construction of a large Technical College and a Grammar School, in addition to the normal Schools programme.
The appointments will be subject to the National Conditions of Service as adopted by the City Council; to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side.
The successful candidates will be required to pass a medical examination.
Applications, stating position applied for, par-

examination.

Applications, stating position applied for, particulars of training, qualifications, experience, present and past appointments, together with copies of two recent testimonials or the names and addresses of two persons to whom reference may be made, should be addressed to George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1, not later than the 31st August, 1951.

JOHN ATKINSON.

Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1. 2nd August, 1951.

Applications are mentioned permanent appointments in the Architect's Department of the Board's Headquarters (a) DEPISON 1.

 staff: —
 (a) DIVISIONAL ARCHITECTS.
 Salary

 A.P.T., VIII (£685-£760).
 (b) ARCHITECTURAL ASSISTANTS.
 Salary

 A.P.T., IV (£480-£525).
 (c) JUNIOR OUANTITY SURVEYOR.
 Salary

 A.P.T., IV (£480-£525).
 (d) SENIOR ENGINEER.
 Special Grade (£2900-£200).

(2800-6900).
(e) ENGINEERING DRAUGHTSMAN. Salary
A.P.T., IV (£480-£525). IV (£480-£525). salary scales are at present under

A.P.T.. IV 6480-6525).

(These salary scales are at present under review). National Health Service conditions and superannation apply to each post.

Applicants for posts (a) must be Registered Architects and have passed the Final Examination of the R.I.B.A. They should have had wide experience in design, planning and construction in the preparation of working drawings for important hospital buildings; and should possess administrative ability.

Applicants for posts (b) should be of R.I.B.A. Intermediate Examination standard, and have had sound practical drawing office experience.

Applicants for post (c) should be of R.I.C.S. Intermediate Examination standard (Quantities Sub-Division), and should have experience in taking off and working-up Bills of Quantities and the settlement of final accounts.

Applicants for nost (d) must hold the Associate Membershio Certificate of either the Institute of Mechanical Engineers or Institute of Heating and Ventilating Engineers, and must be competent to undertake the preparation of heating, ventilating, electrical, and all other associated hospital engineering services. The person appointed will also act in an advisory canacity to the Board's Architect and, under his direction, will be responsible for the supervision of the engineering staff.

Apolicants for post (e) should be Graduates of the Institute of Heating and Ventilating Engineers, with practical drawing office experience in the layout of engineering services.

Applicants for post (e) should be Graduates of the Institute of Heating and Ventilating Engineers, with practical drawing office experience, and the names and addresses of not more than three referees, should be received by the undersigned not later than 25th August, 1951.

J. GIRBON.

Secretary of the Board.

1. North Parade. Parsonage Gardens.

Manchester. 3.

HERTFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Abolications are invited for the appointment of a SENIOR ASSISTANT ARCHITECT. Grade VII (£585-£760). Applicants need not have had previous Local Government experience.
Applications, together with the names of three referees, should be addressed to the County Architect, County Hall, Hertford, Herts., to be received tot later than the first post on Thursday, 30th August, 1951.

SEDGLEY URBAN DISTRICT COUNCIL.
APPOINTMENT OF QUANTITY SURVEYOR.
Applications are invited for the following appointment in the Department of the Engineer and Surveyor, at a salary in the A.P.T. Division Grade VII. (2685–2750 p.a.)
The appointment will be on the temporary staff, but is likely to be of several years duration.
Applicants must be fully qualified, preferably by the Final Examination of the Royal Institution of Chartered Surveyors (Quantities Division) and have had extensive experience in the preparation of Bills of Quantities, measuring up and dealing with final accounts for Housing Contracts, The Council is prepared to consider the provision of housing accommodation for the person appointed, if necessary.
Applications stating age, qualifications and experience with a copy of one recent testimonial and names of two persons to whom reference can be made, must be received by the undersigned, not later than Monday, 3rd September, 1951.
K. R. F. NEWTON,
Clerk and Solicitor to the Council.
Council House, Sedgley. Via Dudley. 4448
COUNTY BOROUGH OF HUDDERSFIELD BOROUGH ARCHITECT'S DEPARTMENT.
APPOINTMENT OF QUANTITY SURVEYOR.
Applications are invited for the above appointment at a salary in accordance with Grade VI of the National Scales of Salaries, commencing at 2645 per annum and rising to 2710 per annum. Housing accommodation will be provided for the National Joint Council, and the appointment is subject to the rovisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Applications endorsed, "Quantity Surveyor" together with the names and addresses of two

examination,
Applications endorsed, "Quantity Surveyor" together with the names and addresses of two persons to whom reference may be made should be delivered to the Borough Architect, High Street Buildings, Huddersfield, not later than 3rd September, 1951. HARRY BANN, Town Clerk.

Town Hall, Huddersfield.

CITY OF BELFAST.

CITY SURVEYOR'S DEPARTMENT.
Applications are invited for the following posts:

(a) SENIOR ASSISTANT ARCHITECT. Candidates must be Associates of the Royal Institute of British Architects. The salary attached to the office is £688 per annum rising by annual increments to a maximum of £793 per annum (salary scale under review).

(b) ASSISTANT ARCHITECT. CLASS I. Candidates must be registered architects. The salary attached to the office is £680 per annum rising by annual increments to a maximum of £793 per annum (salary scale under review). The commencing salary scale under review. The commencing salary will be determined in the light of the qualifications and experience of the person appointed.

Appointments will be subject to the conditions prescribed in the Council's Grading Scheme for Officers and in the case of (a) subject also to the Belfast County Borough Council (City Surveyor's Staff Qualifications) Order (N.I.), 1941.

Superannuation contributions at the rate of 6 per cent. of remuneration will be payable.

Preference will be given to ex-Service candidates possessing the required qualifications provided the Council is satisfied that such candidates can, or within a reasonable time will be able to, fill the posts efficiently.

Forms of application and conditions of appointment may be obtained from the City Surveyor at Room 39, City Hall, Belfast.

Applications in envelopes endorsed "Appointment of my form, or all or witten, direct or indirect, will, if proved to the satisfaction of the appointing authority, disqualify a candidate for appointment.

JOHN DUNLOP, Town Clerk.

JOHN DUNLOP, Town Clerk. City Hall, Belfast

LIVERPOOL REGIONAL HOSPITAL BOARD.
Applications are invited for the appointment of
DRAUGHTSMAN in the Regional Architect's Department situated at 88, Church Street, Liver-

pool, 1.

Applicants must be competent Draughtsmen.
with a knowledge of building construction, and
must have had previous experience in an Architect's omce.
Salary: Grade A.P.T. I, £390×£15—£435 per
annum. (The salary scales are at present under
review!)

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

Applications, stating age, education, qualifications, experience, present and previous appointments and salary, together with the names and addresses of three referees, should be sent to the undersigned at 19, James Street, Liverpool. 2, to be received not later than 30th August. 1951.

VINCENT COLLINGE.

Secretary to the Board.

4111

IMPERIAL WAR GRAVES COMMISSION IMPERIAL WAR GRAVES COMMISSION. Applications are invited for the post of LEADING ARCHITECTURAL ASSISTANT, Candidates should have several years' experience in an Architect's office, preferably have reached at least intermediate R.I.B.A. or equivalent standard and be capable of supervising the work of a small team of Draughtsmen. Salary scale \$2570 \times 220 - 2675 per annum (point of entry according to age and experience) plus extra duty allowance of 3 per cent. of salary for 45½-hour week.

week.
Applications to be addressed to Appointments
Officer, Imperial War Graves Commission,
Woodburn House, Woodburn Green, High Wycombe,

GLAMORGAN COUNTY COUNCIL.
Applications are invited for the following permanent appointment, at Headquarters, County Hall, Cardiff.

One SENIOR PLANNING ASSISTANT—up to Grade A.P.T. VI—according to qualifications and

Grade A.P.T. VI—according to qualifications and experience.

The appointment is subject to the National Scheme of Conditions of Service, and to the staffing conditions of the County Council from time to time in force.

Applications, stating age, training, qualifications, experience and present salary, and accompanied by two testimonials, should be sent to the County Planning Officer, Mr. E. John Powell, M.I.C.E., M.I.Mun.E., at this address, and received not later than fourteen days after the appearance of this advertisement.

D. J. PARRY,
Glamorgan County Hall, Cardiff,
3th August, 1951.

BOROUGH OF SLOUGH.

stn August, 1991.

BOROUGH OF SLOUGH.

ASSISTANT ARCHITECT, Grade A.P.T. V
For further particulars apply Borough Engineer,
Town Hall, Slough, Bucks. Tel.: Slough 23831.

Applications are invited for the posts of ASSISTANT ARCHITECTS 2710-2810 on the staff of the Chief Architect Planner, N. Tweddell, A.R.I.B.A. to work on neighbourhood development housing and factories for the new town. Applicants should be members of the R.I.B.A., Town Planning experienced and qualifications would be an advantage. Appointments which are superannuable will be within the salary range stated according to qualifications and experience. Subsistence allowances are payable in addition to salary in approved cases (up to a maximum of 6 months) until arrangements are made for family accommodation within 10 miles of the Corporation offices, Applications (on the special form obtainable from the Chief Architect) should reach the General Manager, Basildon Development Corporation, Gifford House, Pitsea, Essex, by 29th August, 1951.

CRAWLEY DEVELOPMENT CORPORATION

ment Corporation, Gifford House, Pitsea, Essex, by 29th August, 1951.

CRAWLEY DEVELOPMENT CORPORATION. ARCHITECTURAL VACANCIES.
Applications are invited for vacancies in the Chief Architet's Department in (a) Grade IV (salary £605—£825 p.a.) and (b) Grade V (salary £440—£580 p.a.). Commencing salaries will be determined by qualifications, age and experience. Contributory superannuation.
Applicants for (a) should be fully qualified and have good general experience in design. construction and planning, and for (b) should have reached the R.I.B.A. Intermediate Examination standard and have laid good general experience should be obtained from the first full architecture. Application form and post full architecture of the Company of th

LONDON ELECTRICITY BOARD.

DRAUGHTSMAN.

Applications are invited for the above position in the North-Western Sub-Area.

Candidates should be experienced in the following in relation to distribution systems up to 11 kV:—(a) Plant and cable layout work. (b) Diagrams. (c) Cable surveys and wayleaves.

The commencing salary, which is provisional, pending agreement with the appropriate negotiating organisations, will be in accordance with qualifications and experience, and will be within the range £300/£500 per annum inclusive. Application forms obtainable from Establishments Officer. 46, New Broad Street, E.C.2, on receipt of addressed foolscap envelope, to be returned duly completed within 7 days. Please quote Ref. EST/V/1296/A on envelope and all correspondence.

BOROUGH OF WEMBLEY.

correspondence.

BOROUGH OF WEMBLEY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Salary: National Scales. A.P. and T., Grades I. II or III (£440×£15—£485 p.a., £470×£15—£515 p.a., or £500×£15—£545 p.a.), according to qualifications and experience. In addition, London "weighting" allowance is payable.

Applications, endorsed "Architectural Assistant," must be received by the Borough Engineer and Surveyor, Town Hall, Wembley, by the 25th August, 1951. Names and addresses of three referees should be given and any relationship to a member or senior officer of the Council must be disclosed. Canvassing disqualifies.

COUNT Application a PLANNII I, £440-£485 according to the person apportunity of the person apportunity have had Developmen The appo the Local and the

and the Application County Pla should be 8th Septem

County Ha

COUNCIL
COUNT
Applicati
appointmen
(1) ASSIS
2735 by ar
annum. A
tects and r
tute of B
given to
design of
(2) ASSIS
Salary scal
per annum
Final Exar
Surveyors
wide exper
Quantities
(3) CLER
annual incu

annual inci Each ap and the su medical Condition cation are should be 10 a.m. on Canvassi or indirect County Bu

6th Augu COUNT Applicati (a) SEN1 VI (£645-£ (b) ARC) (£470-£515 (c) ARCI

(2440-2485 (d) JUN General D (e) SENI VII (2685-4 (f) ASSI Grade V (g) SENI OFFICER. (h) JUN General D Applicati Applicati Berger, Di Civic Cent not later t THE ROSCO
The Countries app

Further undersigne tions (one

HEME PLANN Applicati DRAUGH'

200 × £15 ting office,

The appoint Corp.

Service (w. Government to one moside.) side. Contribu

tunity of
Government
provided.
Housing
course to
Applicat
qualification
f two per
and endo
undersigne

Westbrook

ISLE OF ELY COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the appointment of a PLANNING ASSITANT. Salary A.P.T., Grade according to qualifications and experience. The person appointed will be required to work on the Development Plan, and applicants should therefore have had experience in the preparation of a Development Plan for a rural county.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the passing of a medical examination. Application forms may be obtained from the County Planning Officer at this address, and should be sent to him not later than Saturday, 8th September, 1951.

R. F. G. THURLOW,
Clerk of the County Council.
County Hall, March.

be,

to

nal the rom icato rell,

acil. 4144

4154

the dell, elop-own. B.A., ions are

nce. n to num

ecial ould elep-ssex, 4155

ON.

the IV lary be ence.

con-have ation ence. I be B.A and ve. 4156

ition

ollowp to

es.
ional,
oriate
fance
ill be
usive.
blish2, on
pe rePlease
d all
4157

R'S

L des I.

-£515 quali-ondon

Assis-gineer 25th

three nip to ast be 4115

should be sent to the not hater than saturacy, should be sent to the not hater than saturacy, when so the county that the coun

(a) SENIOR ASSISTANT ARCHITECT. Grade 2645-2710 p.a.).

ASSISTANT ARCHITECT. Grade II ARCHITECTURAL ASSISTANT. Grade J

(c) ARCHITECTURAL ASSISTANT. Grade J (£440-£485 p.a.). (d) JUNIOR ARCHITECTURAL ASSISTANT General Division (£150-£425 p.a.). (e) SENIOR QUANTITY SURVEYOR. Grade VII (£685-£760 p.a.). (f) ASSISTANT QUANTITY SURVEYOR Grade V (£570-£620 p.a.). (g) SENIOR ASSISTANT PLANNING OFFICER. Grade VII (£685-£760 p.a.). (h) JUNIOR PLANNING ASSISTANT General Division (£150-£425 p.a.). Applications, on forms obtainable from L Berger. Dip.Arch., A.R.I.B.A., Borough Architect. Civic Centre, Southampton, should be returned not later than 27th August. 1951. 4135

THE UNIVERSITY OF LIVERPOOL. ROSCOE CHAIR OF ARCHITECTURE. The Council of the University of Liverpool invites applications for the Roscoe Chair of Architecture.

teture.
Further particulars may be obtained from the undersigned, by whom twelve copies of applications (one in the case of overseas candidates) should be received not later than 17th November,

STANLEY DUMBELL.
Registrar.
4105

HEMEL HEMPSTEAD DEVELOPMENT
CORPORATION.
PLANNING OFFICER'S DEPARTMENT.
Applications are invited for the post of
DRAUGHTSMAN (male or female) in the scale
200×215 to 2420. Previous experience in a drawing office, preferably a planning office, is essential.
The appointment will be subject to the Development Corporation's staff rules and conditions of
serice (which are broadly similar to the Local
Government Officers' "Charter"), in particular
to one month's notice of termination on either
side.

lo one month's notice of termination on either side.

Contributory superannuation with an opportunity of entering or continuing in Local Government Superannuation Scheme will be provided.

Housing accommodation may be offered in due ourse to the successful applicant, if required. Applications, giving full particulars of age, walifications and experience, together with names of two persons to whom reference may be made, and endorsed "Planning," should reach the indersigned not later than 24th August, 1951.

W. O. HART.

Westbrook Hay, Hemel Hempstead, Herts. 4104

COUNTY BOROUGH OF ROCHDALE.
APPOINTMENT OF ASSISTANT QUANTITY
SURVEYOR.
Applications are invited for the appointment of
Assistant Quantity Surveyor in the Department
of the Borough Surveyor, in accordance with
Grades III to IV of the A.P.T. Division of the
National Scales

of the Borough Surveyor. In accordance of the Borough Surveyor, in accordance of the National Scales.

The salary range is \$500 to \$675 per annum, and the successful applicant will be appointed to the Grade appropriate to qualifications and experience. Applicants should have passed the Intermediate Examination of the R.I.C.S. (Quantities Section), and must have had experience in abstracting and billing and measurement of works on site. Experience in "taking off" would be an advantage.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, and to the selected candidate passing a medical examination. Canvassing is prohibited, and candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating age, qualifications, and full particulars of experience, together with the names and addresses of two persons to whom reference may be made, and endorsed "Assistant Quantity Surveyor," must be delivered to the Borough Surveyor, Town Hall, Rochdale, not later than Monday, 3rd September. 1951.

K. B. MOORE.

Town Clerk.

COUNTY OF BANFF.
ARCHITECTURAL AND PLANNING
DEPARTMENT.
Applications are invited for the undermentioned
posts in the County Architect and Planning
Officer's Department, Cluny Square, Buckie:—
(a) CHIEF ASSISTANT PLANNING OFFICER.
Salary £700, rising by annual increments of
£25 to £800.
(b) SENIOR QUANTITY SURVEYOR.
Salary £700, rising by annual increments of £25
to £800.

(c) ARCHITECTURAL ASSISTANT. Grade VI r VII, depending upon qualifications and ex-

(c) ARCHITECTURE.

(c) ARCHITECTURE.

(c) Are viii and continued by the control continued by the continued b

mitted to the undersigned by 3rd Sentember, 1951.

R. J. CUMMING.

R. J. CUMMING.

County Buildings. Banff.

EAST RIDING OF YORKSHIRE COUNTY

COUNTY PLANNING DEPARTMENT.

Applications are invited for the undermentioned appointments:

(a) SENIOR PLANNING ASSISTANT. A.P.T.,

Grades V-VI (£570-£710 per annum). The commencing salary will be fixed according to experience and qualifications. Candidates must he hassociate Members of the Town Planning Institute or hold equivalent qualifications. The Officer appointed will be required to provide a car and a travelling allowance will be paid in accordance with the scale adopted by the County Council.

(b) PLANNING ASSISTANT. A.P.T., Grade I (£440-£485 per annum). Candidates should have had practical experience in a planning, architectural or engineering office, and be capable draughtsmen and colourists.

The appointments will be to the permanent staff and are subject to the National Joint Council's conditions of service as adopted by the County Council. The appointments will be to the paramation of the subject to the Local Government Superannuation Act, 1937. Selected candidates will be recuired to pass a medical examination to the satisfaction of the County Medical Officer of Health. Applications, stating age, qualifications and experience, should be received by the undersigned not later than Tuesday, the 28th August. 1951. and should be accompanied by conies of two recent testimonials. Canvassing, either directly or indirectly, will be a disqualification, and relationship to any member or senior officer of the Council must be disclosed.

T. STEPHENSON.

County Hall, Beverley.

4132

COUNTY BOROUGH OF NORTHAMPTON.

County Hall, Beverley.

COUNTY BOROLIGH OF NORTHAMPTON.
JUNIOR ARCHITECTURAL ASSISTANTS.
A.P.T., I-III (£440-£545).
Applications for above permanent posts, stating age, qualifications, experience, past and present aboointments and salary, with names of two referees, should reach J. L. Womersley, A.R.I.B.A., A.M.T.P.I., Borough Architect and Town Planning Officer, Guildhall, Northampton, by 25th August.

C. E. VIVIAN ROWE

C. E. VIVIAN ROWE.

WEST SUFFOLK COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the County Architect's Department. Salaries as indicated in accordance with the National Joint Council Salary Scales, position on scales according to qualifications and experience, viz.:—

(a) ASSISTANT COUNTY ARCHITECT.

A.P.T., Grade VIII (£735-£810).

(b) ARCHITECTURAL ASSISTANT. A.P.T., Grade V (£570-£620).

(c) ASSISTANT HEATING ENGINEER.

A.P.T., Grades III-IV (£590-£575).

Applicants in respect of (a), who should note that the appointment of Deputy is at present vacant, should be fully qualified and have had considerable experience in architectural design, construction and preparation of specifications, and be capable of assuming full responsibility and supervision of the day-to-day work of the Department, which is mainly concerned with new school, police and health building work, and general maintenance and improvements to County Buildings.

This appointment will be terminable by two

police and health building work, and general maintenance and improvements to County Buildings.

This appointment will be terminable by two months' notice in writing on either side.

Applicants in respect of (b) should preferably be Associates of the Royal Institute of British Architects.

Applicants in respect of (c) should be capable of calculating heat losses, preparing schemes and working drawings under supervision, and a knowledge of electrical work would be an advantage. The latter appointments will be terminable by one month's notice in writing on either side.

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

Forms of application may be obtained from the County Architect, 13, Westgate Street, Bury St. Edmunds, by whom applications, together with the names of two referees, should be received not fater than the 14th September, 1951.

L. G. H. MUNSEY, Clerk of the County Council.

Shire Hall, Bury St. Edmunds.

August, 1951.

DERBYSHIRE COUNTY COUNCIL.

August, 1951.

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for an appointment of an ARCHITECT on A.P.T., Grade VI. Applications to reach this office not later than 27th August, 1951, on forms to be obtained from F. H. Crossley, County Architect, St. Mary's Gate, Derby. Crossley, County A Derby. 16th August, 1951.

Derby.

16th August, 1951.

COUNTY BOROUGH OF SOUTHAMPTON.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT. Grade A.P.T., VI (£636-£710).

(b) ARCHITECTURAL ASSISTANT. Grade A.P.T., IV (£530-£875).

(c) ARCHITECTURAL ASSISTANT. Grade A.P.T., II (£470-£515).

(d) JUNIOR ARCHITECTURAL ASSISTANT. Grade A.P.T., II (£470-£515).

(d) JUNIOR ARCHITECTURAL ASSISTANT. General Division (£150-£425).

Applicants for (a) must have had experience in housing design, layout, construction, and the administration of contracts, and must be Associate Members of the Royal Institute of British Architects.

administration of contracts, and must be Associated Members of the Royal Institute of British Architects.

Applicants for (b) and (c) should have had experience of Local Authority Housing, and preference will be given to student members of the Royal Institute of British Architects.

Applicants for (d) must be in possession of the School Leaving Certificate, and preference will be given to candidates with some Architectural Drawing Office experience.

The appointments will be subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities for Administrative, Technical, Professional and Clerical Services: to the Local Government Superannuation Act, 1937; to the successful applicants passing a medical examination, and to termination by (a). (b) and (c) one month's notice and (d) one week's notice on either side.

Applications, stating age, experience, qualifications, and war service (if any), together with conies of three recent testimonials, should be submitted to the Borough Engineer and Surveyor, Civic Centre, Southampton, not later than Monday, 27th August, 1951.

Civic Centre, Southampton.

Livic Centre, Southampton.

4126

Civic Centre, Southampton. July, 1951.

Architectural Appointments Vacant Innes or under, 7s. 6d.: each additional line 2s.

TWO JUNIOR ASSISTANTS required. September. for permanent posts in General Practice. Good prospects for proved ability. Mark application envelopes "Assistant." Box 4004

AN INDUSTRIAL ARCHITECT is required by a large firm in the Manchester area for responsible work on development and supervision of work in progress. Knowledge of Quantities an advantage. Interesting post with good prospects. Applicants, aged 28/35, should be experienced in the design of modern industrial building. Please write full particulars, including experience, qualifications, training and salary required, to Box 4080.

A RCHITECTURAL ASSISTANT required im-mediately. Car driver. Starting salary 2500-2500, according to experience. Apply with full details to Deacon & Laing, 9, St. Paul's Square, Bedford.

Square, Bedford. 4071

A RCHITECTURAL DRAUGHTSMAN required in Hounslow office. Must have good knowledge of building construction. Reply, stating age, experience, and salary required. Box 4081.

VACANCY for articled Pupil in practice in the Borough of Bexley. Good educational standard required. Apply to L. F. Halton, L.R.I.B.A., 57, High Street, Bexley, Kent. 4102

CAPABLE ASSISTANT required for busy Architectural practice, within 12 miles of London, N.W. Kent area. Apply in writing, giving details of experience, age, salary, etc., to Box 4101.

giving details of experience, age, salary, etc., to Box 4101.

A PPLICATIONS are invited for the appointment of experienced ARCHITECTURAL ASSISFANTS, to work under the Staff Architect in Leeds for a large National Institution. Age between 28 and 35 years. Must be all-round men, able to prepare drawings, write specifications, and carry through interesting alteration works, including supervision. Wide scope and responsibility for men anxious to broaden their experience. Permanent pensionable positions for selected applicants after preliminary trial. Apply in writing, with full particulars of age, education, training and experience, and if available for interview, to Box 4129.

JUNIOR ARCHITECTURAL ASSISTANT required, Intermediate standard. Must be good draughtsman, with sound knowledge of building construction, and able to prepare finished drawings from rough sketches; some knowledge of surveying and levelling an advantage. Box 4120.

JUNIOR ARCHITECTURAL DRAUGHTS.

MAN required for Albert E. Reed & Co., Ltd., Aylesford Paper Mills, Larkfield, Maidstone.

SENIOR ASSISTANT required for Architect's office in Sheffield. Salary offered £600-£700, according to age, qualifications and experience. Box 4150.

EXPERIENCED SENIOR ARCHITECTURAL ASSISTANT required, to take charge of small drawing office engaged mainly in industrial work. Hasker & Hall, 55, Queen Anne Street, W.L.

ENIOR ASSISTANT required to train as Manager. Particulars of qualifications, etc., to Box 4139.

SENIOR ASSISTANT (single) required for progressive office. Position will lead to Chief Assistant. Replies, with details of experience and qualifications, to Box 4138.

A SSISTANT about to take Final (R.I.C.S. or R.I.B.A.) required in City office. At least two years' office experience necessary. Salary by arrangement. Opportunity to handle School and Hospital contracts. Box 4436.

ARCHITECTURAL ASSOCIATION SCHOOL OF ARCHITECTURAL ASSOCIATION SCHOOL OF ARCHITECTURE.

POST OF PRINCIPAL.

PPLICATIONS are invited for the post of Principal of the Architectural Association School of Architecture. Applicants should be, or should have been recently, practising as Architects. It is intended to offer a salary of between 21,500 and £2,000 p.a., according to qualifications. Any appointment made will take effect not earlier than 10th September, 1952. Applicants should send full particulars of their qualifications and experience to the Secretary, Architectural Association, 36, Bedford Square, London, W.C.I, to reach him before 1st September, 1951.

ASSISTANT required in small office. Approximately of Intermediate standard. Commencing salary £400, rising to £600, according to progress. Replies to Box 4140.

UALLFIED or experienced ASSISTANT required in Architect's Department of Multiple

DISTRIBUTION OF THE PROPERTY O

are requested to furnish details of training, age, experience, to Box 4137.

ARCHITECTURAL ASSISTANTS required for Watford office. Salary £500 to £1,000 per annum. Five -day week. Write giving full details of qualifications and experience. Box 4149.

Architectural Appointments Wanted

Architectural Appointments Wanted
STUDENT R.I.B.A., Final standard, 5 years'
full time training, some office experience,
seeks position S.W. England. Fifteen miles Bath
preferred. Box 217.

INDUSTRIOUS 3rd year evening Student requires position in progressive Architect's
office. Pref. London area. Experience in design,
working drawings, etc. Box 220.

RefSTERED ARCHITECT, Dip. Arch. (31),
school trained, good office experience in all
types of work, design, working drawings, site
supervision, academy drawings and perspective
sketches, seeks job with design prospects in
London area. Salary 2656 p.a. Box 218.

EXPERIENCED ARCHITECT, L.R.I.B.A.,
desires responsible appointment. Accustomed
to large contracts. Box 222.

SSOCIATE (25), school trained, seeks re-sponsible position (not Municipal). York-re woollen district. 2 years' post-graduate erience. Box 221.

experience. Box 221.

A RCHITECT (Dipl. Arch. and Dipl. Town Planning, Lvpl., A.R.I.B.A., 29, married) with 4 years' experience in office administration, dealing with clients, site supervision, working drawings, design, seeks progressive position in England or abroad. Box 219.

Other Appointments Vacant 4 lines or under, 7s. 5d.; each additional line, 2s.

CLERK OF WORKS for Building Maintenance Department of large Food Factory. Must be good draughtsman, able to prepare schemes, details and estimates. Age 25 to 35 years. Salary up to £625, with biennial increments, subject to satisfactory service. Five-day week. Apply to the Clerical Manager, Huntley & Palmers, Ltd.

RAUGHTSMAN, age not less than 25, required for Pickfords, Surveyor's Department in London. Duties mainly commercial works up to £2,000 in all parts of the country. Ability to prepare Specifications an advantage, but professional qualifications not necessary around £500 p.a., or higher if warranted. Alternative Saturdays; canteen facilities. Apply in writing, with full details of experience and salary required, to Surveyor, Pickfords, 205, High Holborn, W.C.I.

Holborn, W.C.1.

ECRETARY to Business Manager of Design Research Unit. Good education, speeds and experience all essential. Age 25/35. Apply in writing to 37, Park Street, W.1.

EQUIRED by well-known Ecclesiastical Contractor, skilled man, accustomed to Preparation of Drawings, Estimating and Costing, expert Woodcarver; responsible but highly paid job to right man. Write, stating experience, to Box 4130.

Affalor man. Write, starting experience, to Bot 4130.

A FEW vacancies exist at Armstrong Siddeley Motors, Coventry, for fully experienced DRAUGHTSMEN, who are better than ordinary at all types of surveying and designing. The work is interesting, of first-class National importance, and concerns the designing of all kinds of industrial buildings and factory services. Good salaries will be offered to those qualified to undertake this work, and travelling expenses will be paid to those selected for interview.

SECRETARY, S/H Typist, with tracing ability, required in Architect's office. Progressive position. Age 25/26. 'Phone Park 5610.

MOULDEX

FOR

RUBBER PLASTIC

OR

IOINTLESS FLOORS

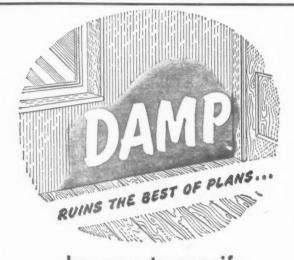
IMMEDIATE INSTALLATION AND DELIVERIES FROM STOCK

MODERATE ESTIMATES CAN BE SUBMITTED AT PRE-INCREASE PRICES

OUR EXPERT WILL CALL UPON REQUEST

BRITISH MOULDEX RUBBER CO. LTD. 28/30 HYTHE ROAD, WILLESDEN, N.W.10

Tel.: LADbroke 2454



.. be sure to specify

BITUMEN DAMPGOURSE

'laid in a minute ... lasts as long as the wall' PREVENTS DAMP AND DRY ROT

WILLIAM BRIGGS & SONS LTD. DUNDEE. LONDON: VAUXHALL GROVE, S.W.8 Branches at Aberdeen, Edinburgh, Glasgow, Leicester, Liverpool, Norwich

DESIGN Archit organisation giving deta

A lines or u PROGRE PROGRE (A.A. frustration Models, Per Anything is satisfaction.

ARCHIT seeks Typing, Conductives, Conductive

FREE-L.

Iving in
Inter. and A RCHIT Edwa Studios, 183

FREE L Archi and build car and co D RAUG free la Experience etc.; high able. Box

4 lines or MILNE Offers to I FOR SA

ments, etc Phone KI YOUNG for I requires u sutherland

4 lines or A. J. and Clos 9-107 St WINF AS and Labe Bight Che to the Fe

FRENC Upper To CAPAC Macling. Con London R Ed

4 lines or R. I.B. Crockett, F.R.S.A. tuition. Street. St THE GL. DEPA POST

The Did Day Course is afternoon courses in afternoon courses hinstitute. Only compassed the profession eering, admission A limitabove or amination admitted

external Institute Fees: Part-Lectr The C Monday. prospect for enro from the College, DESIGNER/DRAUGHTSMAN required in the Architect's office of a leading exhibition organisation. Please write in the first instance giving details of age and experience to Box 4116.

York-duate

Town
ried)
ation,
rking
in in

nance
Must
emes,
alary
ct to
ly to
Ltd.
4079
i, rement
ts up
ty to
proalary

erna-y in alary High 4093

4093 esign peeds pply 4152

Con-para-xpert ob to Box

deley enced inary The aport-ds of Good ander-ill be 4122

4122 pility, essive 4118

Services Offered

4 lines or under, 7s. 6d.; each additional line. 2s PROGRESSIVE Group of Chartered Architects (A.A. & Poly.) seeks relief from daytime frustration in public office. Exhibition Work, Models, Perspectives, Working Drawings, Surveys. Anything interesting considered. Own car. No satisfaction, no money. Box 4074.

A RCHITECT'S Wife (above), trained Secretary, seeks part-time employment at home. Typing, Correspondence, Specifications, Bills of Quantities, Schedules, etc. Reasonable remuneration. Box 4075.

QUALIFIED ENGINEER has capacity available for Civil and Structural Design. Box

FREE-LANCE Work sought by two young ARCHITECTURAL ASSISTANTS, married, living in Central London. Both with R.I.B.A. Inter. and 5 years' office experience. Box 4097.

RCHITECTURAL MODELS and Dioramas. Edward J. Ashenden. A.R.C.A., 15, Chenil Studios, 183, Kings Road, S.W.3. Tel.: Flax 6103.

REELLANCE Surveyor offers Services to Architects requiring accurate surveys of land buildings, levelling, contouring, etc.; own car and complete equipment.

PRAUGHTSMAN / PERSPECTIVIST offers tree lance services. Any work undertaken Experienced Presentation, Brochures, Lettering, etc.; high class. Reasonable. Specimens available. Box 4131.

For Sale or Wanted

For Sale or Wanted
tines or under. 7s. 6d.; each additional line. 2s
MILNERS' Strong Room Door for Sale,
approx. 6 ft. 6 in. by 3 ft.; installed 1936.
Offers to Britannic Assurance Co., Ltd., Arbroath.
4151

FOR SALE—Adj. Drawing Desk (D.E.), with adj. light attached and cabinet for instruents, etc. Perfect condition. 210 or near offer. Phone KIN, 8814.

YOUNG Australian Architect (married), here for London University Post-graduate Course, requires unfurnished flat.—Reply P. C. Keys, 94, Satherland Avenue, W.5.

Miscellaneous

Miscellaneous

4 Bisss or under, 7s. 6d.; each additional line, 2s

A J. BINNS, LTD.. Specialists in the supply

and fixing of all types of Pencing. Gates
and Claskroom Equipment. Harvest Works
(Shiff) 88 Panl's Road N'I Cannohury 266.

WINKFIELD MANOR NURSERTES.
ASCOT. lay out Rock and Formal Gardens
and Labourless. "Allweather" Tennis Courts.
Bight Chelsea Gold Medals since 1947. Contractors
to the Festival of Britain. Winkfield Row 393.

TRENCH POLISHERS.—Wm. Burton's. for
every style of polishing. 26. Foulser Road.
Upper Tooting. S W 17. BAL. 3968. 2517.

CAPACITY available for Architectural Design,
Machinery. Electronic, Precision Engineering. Complete drawing office. R. Yates, 35.
London Road. Stevenage.

Educational Announcements

Educational Announcements

4 lines or under, 7s. 6d.; each additional line, 2s.

P. I.B.A. and T.P.I. EXAMS.—Stuart Stanley,

I.B.A. and T.P.I. EXAMS.—Stuart Stanley,

M.A., F.R.I.B.A. M.T.P.I., T.P.Distn.

Tutor Sch. of Arch. Lon. Univ.). and G. A.

Crockett, B.A., A.R.I.B.A. (Medallist). A.M.T.P.I.,

F.R.S.A., prepare students by correspondence
tuition. Stuart Stanley & Crockett. 10, Adelaide
Street. Strand. W.C.2. TEM. 1603'4.

The Grasgow SCHOOL OF ARCHITECTURE.

DEPARTMENT OF TOWN PLANNING.

POST GRADUATE COURSE FOR THE

DIPLOMA IN TOWN PLANNING.

The Dinloma may be taken either as a Full-time
Day Course of one session (5 terms) or as a
Fart-time Course of two sessions. The Part-time.

Course involves a minimum attendance of two
afternoons and three evenings per week. Both
courses have been approved by the Town Planning
Institute.

Only candidates who have qualified for the
Degree or Dinloma in Architecture or who have
passed the Final Examination of the recognised
professional body in (a) Architecture; (b) Engin
eering, or (c) Surveying, are eligible for
admission.

A limited number of candidates, qualified as
above or who have passed the Intermediate Pro-

admission.

A limited number of candidates, qualified as above or who have passed the Intermediate Examination of the Town Planning Institute, may be admitted to lectures only in preparation for the external Final Examination of the Town Planning

external Final Examination of the Town Planning Institute.

Fees: Full-time Day Course, £42: payable, £10 10s. for Summer Term. £31 10s. for remainder of Course.

Part-time Course: £21 per 3ession.

Lectures only. Each subject £1 10s. per term. The Courses will commence in the College on Monday, 1st October. 1951, at 5.30 p.m., when prospective candidates should present themselves for enrolment. Further particulars may be had from the Secretary (T.P.), The Royal Technical College, Glasgow.

THE School of Planning and Research for Regional Development announces a Course especially designed to prepare students for the INTERMEDIATE EXAMINATION of the Town Planning Institute. Commencing date Monday, October 8th, 1951. There will be 5 terms; during term time tuition will be given on two evenings per week. A panel of experienced tutors will cover all the subjects in the Intermediate syllabus by lectures, tutorials and studio work. Application for further particulars should be obtained from the Secretary of the Intermediate Course, School of Planning, 34, Gordon Square, London, W.C.1.

INTER, FINAL & SPECIAL FINAL

Postal Courses in all subjects of the 1951 exam sylla-bus (including Professional Practice) are conducted by THE ELLIS SCHOOL OF ARCHITECTURE
Principal: A. B. Waters, M.B.S. G.M., F.R.I.B.A. 103B, OLD BROMPTON RD., LONDON, S.W.7

QUANTITY SURVEYING

Postal Courses for R.I.C.S., I.A.A.S., and I.Q.S. Exams in all subjects of each syllabus. Tuition by well qualified tutors under the direction of the Principal, A.B. Waters M.B.E., G.M., F.R.I.B.A. Descriptive booklet on request.

THE ELLIS SCHOOL
103B, OLD BROMPTON RD., LONDON, S.W.7 and at Worcester

LINOLEUM

Information Sheets 19/GI, 2, 3 & 4

Reprints available on application to:-

Linoleum Manufacturers' Association, 273/287, Regent Street, London, W.I.

by **MORRIS** Herbert Morris Ltd

Loughborough

Engineering branches in London, Glasgow, Manchester, Birmingham, Leeds, Sheffield, Newcastle, Cardiff, Bristol, Dundee, Liver-pool, Nottingham, Bury St. Edmunds, Belfas &

GIVE UNFAILING SERVICE

MADE BY GEORGE ELLISON LIMITED . PERRY BARR . BIRMINGHAM . 228





PROFESSIONAL ADVANCEMENT STUDY through COURSES

LC.S. Home Study Courses help the professional man to further his career. They include many courses for Membership Examinations of the various technical bodies. Brilliant successes have been recorded in the spheres of architecture, building, and surveying.

Here are some of the subjects in which we offer fully qualified instruction:-

Architecture
Architectural Drawing
and Designing
Building Contracting
Building Construction
and Interior Work
Building Construction
and Quantitie
Building Specifications
Quantity Surveying
Civil Engineering

Surveying and Mapping Plan and Map Draughtsmanship Structural Engineering Concrete Engineering Structural Drawing Construction Draughts-manship Sanitary Engineering Air Conditioning Heating and Ventilation

Special Courses for the examinations of the R.I.O.A.
I.O.B., R.I.C.S., Inst.C.E., I.M.E. (Building Inspectio.s)
Inst.Struct.E., I.Q.S., Inst. Clerk of Works, etc.
Examination students are coached till successful. Write to-day for free booklet describing our Course in any of the subjects mentioned above. Generous Discount granted to members of H.M. Forces

International CORRESPONDENCE SCHOOLS

Dept. A.J. International Buildings. Kingsway London, W.C.2.



Alphabetical Index to Advertisers

Aderington Brick & Tile Co., The	PAGE lxix lxii	Ellison, George, Ltd. Ellis School of Architecture, The Empire Stone Co., Ltd. Etchells, Congdon & Muir, Ltd. Evode, Ltd.	PAGE lxix lxix xxxvii	Mills Seaffold Co., Ltd. Morgan, John (Builders), Ltd. Morris, Herbert, Ltd. Nash-Kelvinator New Era Publishing Co., Ltd.	PAGE lxxii xlvii lxix xxxviii xxiv
Anglo-Scottish Construction Co., Ltd Architectul Press Ltd., The xxx, lx, lx	cix, xliv	Excel Asphalte Co., Ltd. Exfoliators (Vermiculite), Ltd	lxiii	North of England School Furnishing Co., Ltd.	lxí
Armstrong Cork Co., Ltd	lxiii	Falkirk Iron Co., Ltd., The	ziv	Paragon Glazing Co., Ltd Paripan, Ltd	xlii lix
Austin, James, & Sons (Dewsbury), Ltd. Austins of East Ham, Ltd.	vi	Franki Compressed Pile Co., Ltd., The	lxiv	Peglers, Ltd. Pennycook Patent Glazing & Engi-	XXX
Automatic Pressings, Ltd. Aygee, Ltd.		Furse, W. J., & Co., Ltd	lxix	porn & Dunwoody, Ltd.	xx
Bath Cabinet Makers & Arteraft, Ltd Berry, Z. D., & Sons, Ltd.	x1	Gas Council, The	xlix	Pridorite, Ltd. Pritchett & Gold & E.P.S. Co., Ltd	ix
Birmingham & Blackburn Construction Co., Ltd.	lxi	Greenwood's & Airvac Ventilating Co., Ltd.	3-41	Radiation Group Sales, Ltd	viii
Bitulae, Ltd. Bowker, S. O., Ltd. Braby, Frederick & Co., Ltd.	lxx xxi	Gyproc Products, Ltd	lxii	Rentokil, Ltd. Richardson & Starling, Ltd.	lxii
Bradford, Thomas, & Co., Ltd. Briggs, Mfg. Co., Ltd.	xlviii lxviii	Hall, Robert H., & Co. (Kent), Ltd Hammer, Geo. M., & Co., Ltd Hardwood Flooring Mfrs, Association,	lxiii	Roynson, Drew & Clydesdale, Ltd	lxxi lx
British Insulated Callender's Cables, Ltd. British Magnesite Flooring Co., Ltd.	xxii	The	xi xlii	Ruberoid Co., Ltd., The	xxxiii
British Plimber, Ltd	xxix	Hollis Brothers, Ltd. Hollway, W. F., & Brother, Ltd.	lxiv	Sankey, Joseph, & Sons, Ltd.	iv
British Trolley Track Co., Ltd Broads Manufacturing Co., Ltd.	xxxvi	Hope, Henry, & Sons, Ltd	lii	Saunders & Taylor, Ltd	lvii xxiii
Brown, Donald (Brownall), Ltd	xliii	Horsley Smith & Co. (Hayes), Ltd Ibstock Brick & Tile Co., Ltd	xlviii	Scutt, Wilfred T. (Sales), Ltd Semtex, Ltd.	
Carron Company	XXV	Insulite Products Corporation, Ltd International Correspondence Schools	lxix	Shanks, E. O., & Sons, Ltd Smith & Pearson, Ltd	
Cement Marketing Co., Ltd., The Carter & Co., Ltd.	xxvii	Kent, John (London), Ltd.	xxxiv xxxi	Smith & Wellstood, Ltd Solignum, Ltd.	xxxii
Celotex, Ltd. Cole, E. K., Ltd.	lxi	Kerner-Greenwood & Co., Ltd King, Geo. W., Ltd	liii xxxviii	Staines Kitchen Equipment Co., Ltd	ii xlvi
Colt Ventilation, Ltd Concrete, Ltd.	liv	Kingfisher, Ltd Kinnear Shutters	vii xlix	Sutcliffe Speakman & Co., Ltd Tarmac, Ltd.	
Costain, Richard, Ltd Deans Blinds (Putney), Ltd	lx	Laing, John, & Son, Ltd Leatherflor, Ltd	ii	Taylor, R., & Co. (Ironfounders), Ltd Thames Plywood Mfrs., Ltd.	lxiv
De La Rue, Thomas, & Co., Ltd Dignus, Ltd. Docker Brothers		Lever, James, & Sons, Ltd. Lilly, Walter, & Co., Ltd.	lviii	Timber Development Association, Ltd. T.M.C. Harwell (Sales), Ltd.	xvii x
Dohm, Ltd. Downing, G. H., & Co., Ltd.	lxi	Linoleum Manufacturers' Association Lion Foundry Co., Ltd Loft Ladders, Ltd.	lxix xxxii xxviii	Tretol, Ltd. Tucker, J. H., & Co., Ltd. Turner, E., & Sons, Ltd.	xxxvi
Dreadnought Fireproof Doors (1930), Ltd.		McAlpine, Sir Robert, & Sons, Ltd McCarthy & Sons, Ltd	xli lxix	Turners Asbestos Cement Co., Ltd United Paint Co., Ltd., The	XXXXX
Dunlop Rubber Co., Ltd Durasteel, Ltd	xlv	Magnet Joinery, Ltd	lvii	Venus Pencil Co., Ltd., The Versil, Ltd.	lxxi xx
Durtnell, R., & Sons, Ltd Eagle Pencil Co., Ltd	lxii	Marley Tile Co., Ltd., The Marryat & Scott, Ltd.	xii	Vigers Bros., Ltd	xviii
Edison Swan Electric Co., Ltd., The	xxxv xlvi	M. & B. Plastics, Ltd	xvi	Ward, Thomas W., Ltd	ixix
Elgood, E. J., Ltd					
Miscellaneous Property, Land and Sales, see Ixvi, Ixvii, Ixvii, Ixvii.					

ACCESSORIES ARE IN SHORT SUPPLY

If your Wholesaler can't always supply your Tenby requirements
"off the shelf", don't blame him.

Shortages of raw material and increasing demands are making it very difficult for us to keep everyone adequately supplied. We are doing our best, and you can help us by remembering that . . .

Tenby

A clip on the wall is worth a gross on the floor.

ELECTRICAL
ACCESSORIES

S. O. BOWKER LTD.
19-21 Warstone Lane, Birmingham 18
Tel: CENtral 3701

GGE.

IXIII
IVIII
IVIII
IVIII
IXIII
IXIII
IXIII
IVIII
IVIII
IVIII
IVIIII
IVIIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIIII
IVIIII
IVIIIII
IVIIII
IVIIIII
IVIIIII
IVIIII
IVIIIII
IVIIIII
IVIIIII
IVIIIII
IVIIIII
IVIIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIIII
IVIIII
IVIIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII
IVIIII

THE

THE



Pressure proofed by patented process and tested at every stage. Only proven leads go into Venus Drawing Pencils stage. Venus

A patented colloidal process removes all grit and impurities—they must be smooth

ACCURATE

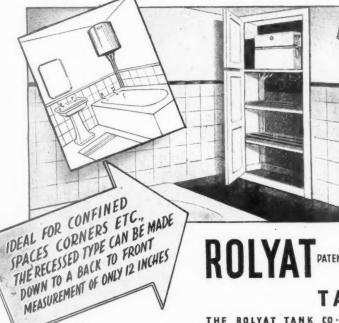
Accurate through and through-graded and tested by experts, Venus Drawing Pencils make the right mark every time

THE PENCIL WITH THE CRACKLE FINISH



THE VENUS PENCIL CO., LIMITED, LOWER CLAPTON ROAD. LONDON, E.5

A COMPLETE HOT WATER SYSTEM ONE TANK



LOCAL AUTHORITIES Simplicity for Plumbing, Compactness for limited spaces, Accessibility after fixing, and far greater Heating Efficiency are the characteristics of the Rolyat system which have outmoded the tank and cylinder and convinced heating engineers and local authorities throughout the country of its

SPECIFIED BY MORE THAN 300

Several types and sizes are available for both Hard and Soft water areas and in various designs and capacities.

The manufacturers will be pleased to send complete specifications on

ROLYAT PATENT HOT WA TANKS

THE ROLYAT TANK CO. LTD . CROMWELL ROAD . YORK

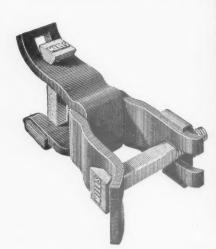
supériority.

lxxi

FOR SCAFFOLD SERVICE

right

on time





SIMPLY CALL UP

TELEPHONE YOUR NEAREST DEPOT

BELFAST • BIRMINGHAM • BOURNEMOUTH • BRADFORD
BRIGHTON • BRISTOL • CANTERBURY • CARDIFF
COVENTRY • CROYDON • DUBLIN • GLASGOW • HULL
ILFORD • LIVERPOOL • LOWESTOFT • MANCHESTER • NEWCASTLE
NORWICH • PORTSMOUTH • PLYMOUTH • READING • SOUTHAMPTON
SWANSEA • YARMOUTH

Steel and Aluminium
Scaffolding for sale,
contract, or hire. Every
requirement met also
for ancillary equipment,
including: Shuttering
Steel Props
Trench
Struts
Splitheads
Hoists
Concrete
Mixers
Cradles
Builders' Hand Carts

Barrows . Trestles, etc.

MILLS SCAFFOLD CO. LTD., Head Office and Depot: TRUSSLEY WORKS, HAMMERSMITH GROYE, LONDON, W.6 • Tel: RIVerside 5026/9