ARCHI



tandard

contents

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

and COMMENT NEWS

Diary News

Astragal's Notes and Topics

Letters

Societies and Institutions

SECTION TECHNICAL

Information Sheets Information Centre

Current Technique

Duestions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

BUILDINGS CURRENT

STATISTICS HOUSING

Architectural Abbointments Wanted and Vacant

No. 30611 **TVOL.** 118 ARCHITECTURAL PRESS 11 and 13, Queen Anne's Gate, Westminster, W.1.'Phone: Whitehall 0611

> Price Is. od. Registered as a Newspaper.

ZDA

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

Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1. Sloane 8266 IHVE Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1. Sloane 3158/1601 Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston 2450 HBD

ILA I of Arb

Institute of Landscape Architects. 12, Gower Street, W.C.1.
Institute of Arbitrators. 35/37, Hastings House, 10, Norfolk Street,
Strand, W.C.2. Temple Bar 4071
Museum 7197/5176
6851 IOB 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. 14, Great James' Street, W.C.2. Chancery 7718 IRA ISF Chancery 7718 LIDC Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.

Whitehall 7264/4175 London Master Builders' Association. 47, Bedford Square, W.C.1. Museum Modern Architectural Research Group (English Branch of CIAM) Secretary: LMBA Museum 3891 MARS

Gontran Goulden, Building Centre, 26, Store Street, W.C.1.
Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.
Ministry of Education. Curzon Street House, Curzon Street, W.1.
Ministry of Health. 23, Savile Row, W.1. Museum 5400 MOA Whitehall 3400 Mayfair 9400 Regent 8411 MOE MOH Ministry of Housing and Local Government. Whitehall, S.W.1. Whitehall 4300 Ministry of Labour and National Service, 8, St. James' Square, S.W.1. Whitehall 6200 Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933 MOHLG MOLNS MOS Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Mayfair 9494
Ministry of Works. Lambeth Bridge House, S.E.1.
Reliance 7611
Natural Asphalte Mine-Owners and Manufacturers Council. MOT MOW

NAMMC 94-98, Petty France, S.W.1. Abbey 1010 National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 4813
National Buildings Record. 37, Onslow Gardens, S.W.7. Kensington 8161
National Council of Building Material Producers, 10, Princes Street, S.W.1. NAS NRR NCBMP

National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041/ **NFBTE** Langham 4041 4054 NFBTO

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

NHBRC Langham 4341 NPL Molesev 1380

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, NSA NSAS City 1476 Abbey 1359 S.W.1. NT National Trust for Places of Historic Interest or Natural Beauty

Political and Economic Planning.
Reinforced Concrete Association.
Royal Incorporation of Architects in Social 1.1. Social 2.1. Whitehall 0211 PEP Whitehall 7245 RCA RIAS Reinforced Concrete Association. 94, Petty France, S.W.1. Abbey 4 Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Abbey 4504

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 RIBA RICS

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. RFAC Whitehall 3935 RS RSA Regent 3335 Trafalgar 2366 Sloane 5134

RIB Wimbledon 5101 Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.
Society for Cultural Relations with the USSR. 14, Kensington Square, SBPM Victoria 2186 SCR 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

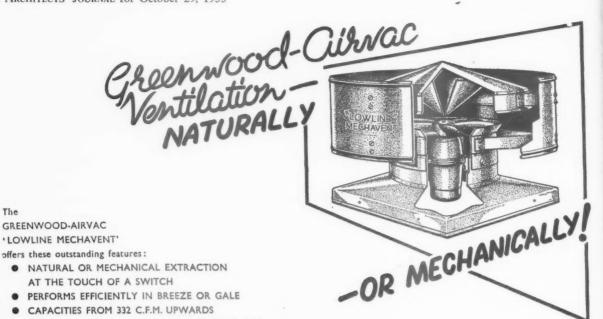
Mansion House 3921 SIA Structural Insulation Association. 32, Queen Anne Street, W.1. Society of Industrial Artists. 7, Woburn Square, W.C.1. Langham 7616 SIA SNHTPC Langham 1984 Scottish National Housing. Town Planning Council.

Hon. Sec., Robert Pollock, Town Clerk, Rutherglen. Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.
Holborn 2646 **SPAB**

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

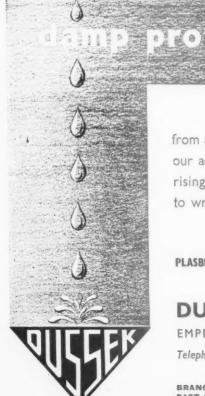
Timber Development Association. 21, College Hill, E.C.4. City 4771
Town Planning Institute. 18, Ashley Place, S.W.1. Victoria 8815
Timber Trades Federation. 75, Cannon Street, E.C.4. City 5051
War Damage Commission. 6, Carlton House Terrace, S.W.1. Whitehall 4341
Zinc Development Association. Lincoln House, Turl Street, Oxford. Oxford 47988 TDA TPI TTF WDC

The



The 'LOWLINE MECHAVENT' Extractor forms yet another link in the chain of GREENWOOD-AIRVAC ventilating equipment for every application, including ductwork and kitchen canopies.

GREENWOOD'S AND AIRVAC VENTILATING COMPANY BEACON HO 0 CHANCERY 8135/6/7



BASES TO SUIT FLAT, RIDGE OR SLOPING ROOFS

protection..and Dussek

There is a Dussek Bitumen product to repel damp penetration from all vulnerable points in any type of Building. We will gladly give our advice on problems concerning protection of buildings from rain, rising damp or condensation, and Architects and Builders are invited to write for pamphlets listing the Dussek range and its applications.

PLASPHALT & BITITE . BITROL Bitumen Solution PLASBESTOS Bitumen Emulsion · COLADE Bitumen Emulsion · WATERPROOFER P.B.7

DUSSEK BITUMEN & TAROLEUM

EMPRESS WHARF BROMLEY-BY-BOW LONDON E.3

Telephone: ADVance 4127 Telegrams: 'TRINIDITE', Bochurch, London

BRANCHES, ASSOCIATED COMPANIES AND AGENTS IN AUSTRALIA, BELGIUM, BRITISH EAST AFRICA, DENMARK, NEW ZEALAND, FINLAND, NORWAY, SOUTH AFRICA, SWEDEN dm DR.155



k

TD.

ration y give rain, nvited tions.

R P.B.7

N E.3

WEDEN Im DR.155

atter as th facir prob

tech mate exte

BRO most It co Tung water with and MUI scrul provinced



TOF





Whether your PAINT problem concerns colour, texture or durability...

EVERY ASPECT of the application of paint receives more attention today than ever before. New considerations, such as the functional value of colour, and the need for special surfacing mediums for special purposes, have given rise to new problems. It is to solve these problems that the John Hall Colour and Technical Advisory Service exists. A highly skilled technical staff is here to advise, entirely free of charge, on all matters concerned with painting and decorating, even to the extent of undertaking research work on special problems.



BROLAC enamel finish paint is the most waterproof paint obtainable. It contains hankol, which is based on Tung Oil, world famous for its water-resistant properties. Brolac withstands even sea air, city smoke and kitchen steam.

MURAC Matt Oil Finish, with its scrubbable, scratchproof surface, provides the ideal finish for walls needing constant washing and cleaning, such as in schools and hospitals MURAC P.E.P. (Plastic Emulsion Paint) is a matt finish that can be washed or scrubbed, needs no primer, leaves no smell, dries out in under 2 hours. For direct application to

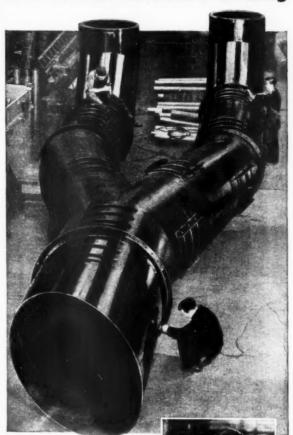
new work—
plaster,
as bestos,
brick or stone





JOHN HALL & SONS (BRISTOL & LONDON) LTD . HENGROVE, BRISTOL 4

Harveys have the Craftsmen - and the Capacity to undertake all forms of Ducting



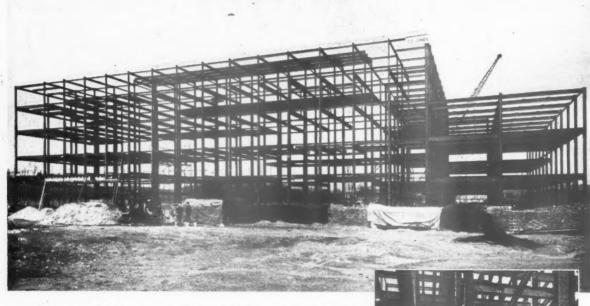
Industrial ironwork takes many forms which need the sure hand of a skilled worker—one who combines practical experience with modern methods

to ensure a first-class result. Whether your requirements are giant ducting, casing for shafts and gearing, or what you will, Harveys can do the job and do it NOW. Send your enquiries along for immediate attention.

Harvey

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

1903-1953 FIFTY YEARS OF SERVICE TO INDUSTRY



The first phase of the New Brewery for South Wales & Monmouthshire United Clubs Brewery Company Limited, Brynsadler, Pontyclun, Monmouthshire

Consulting Engineer: Sydney Culverwell, Esq. General Contractors: John Morgan (Builders) Ltd.

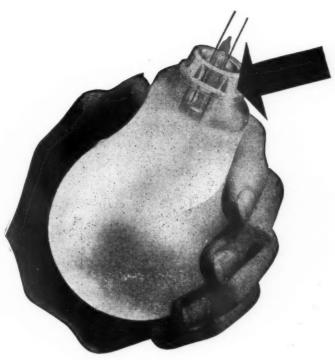
Steelwork FABRICATED and ERECTED by



AND COMPANY LIMITED



WOOD LANE, LONDON, W.12 Tel: SHEpherds Bush 2020 . BUTE STREET, CARDIFF Tel: Cardiff 28786 . TREORCHY, GLAMORGAN Tel: Pentre 2381



Othing left to chance...

MOULDED SEAL. The production of a strong, permanent bond between the metal cap and the glass bulb of Royal "Ediswan" Lamps is achieved by the use of specially designed "keys" moulded in the glass.

Ediswan Engineers are successfully applying this technique to a greater range of types than ever before.

* This is but one example of the intricate' operations in the manufacture of Royal "Ediswan" Lamps, calling for the highest degree of technical skill and the utmost care and precision. Nothing is left to chance—only the finest materials are used and there is strict control at each stage of manufacture.

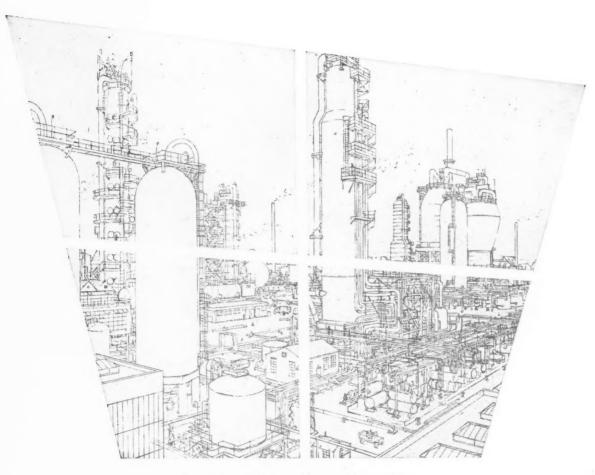
"EDISWAN"

381



The Edison Swan Electric Co. Ltd., 155 Charing Cross Road, London, W.C.2

Member of the A.E.I. Group of Companies



Count the oil refineries with Williams & Williams windows

... and steel doors and door frames: Coryton and Fawley, Isle of Grain, Grangemouth, Llandarcy, Thornton, Shellhaven, Stanlow, Birkenhead—to mention only those in Britain. There are more abroad, making 30 in all. For in the oil industry as in so many other industries, one good job has led to another . . . and another.

METAL WINDOWS

WILLIAMS & WILLIAMS

MEMO: Steel is free. You can arrange quich delivery of metal windows by contacting any of our 19 offices in Great Britain. Each office will also give you personal service, estimating, technical co-operation and supply fixing teams on site. Williams & Williams Ltd., Reliance Works, Chester

behindhand?



Are you sure YOU aren't?

Who is

How long is it since you made a thorough search on your premises for scrap iron and steel? Remember that wherever machines are used there will be scrap.

You can make bricks without straw - but not without steel. Practically every building material, from cement to wooden beams, is made with the help of steel iron and steel machines. And the steel-makers cannot make enough new steel without scrap. Is your scrap going to help?

Obsolete machines and equipment, redundant buildings, in fact everything containing iron and steel which has outlived its effective purpose - all this is scrap and should be sent off to your local scrap merchant as soon as possible.

Search your works for it and turn it in. You will be doing yourselves a great service.

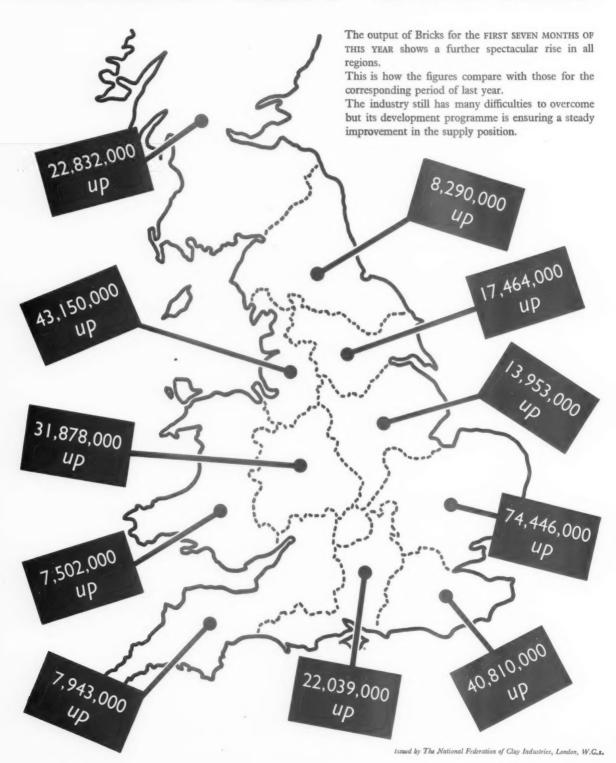
VISIT STAND NO. 508

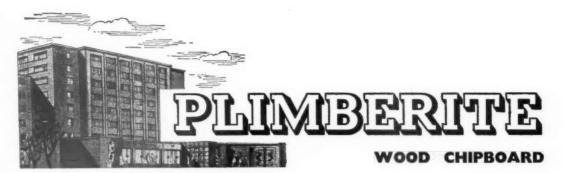
IN THE NATIONAL HALL GALLERY

at the Building Trades Exhibition, Olympia, Nov. 18-Dec. 2 and see what STEEL is doing to help the national effort.

Issued for the STEEL SCRAP DRIVE by the British Iron and Steel Federation and the National Federation of Scrap Iron, Steel and Metal Merchants.

Millions more BRICKS





AND FACTORY

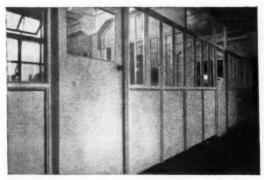


Speed up your conversion work with Plimberite and cut partitioning costs. A sheet (8 ft. x 4 ft. in thicknesses of 1" and 1") of this versatile resin-bonded wood chipboard cuts readily to fit any angle, thus saving you time, trouble and money. Manufactured under heat and pressure to a density of 50 lbs/cu. ft., Plimberite is rigid, flameproof, with good sound and thermal insulating qualities. Moisture movement and load tests, carried out on Plimberite by the Department of Scientific and Industrial Research prove its stability and strength. The surface of Plimberite, so ideal for painting, is also suited, because of its pleasing appearance, to staining, waxing and varnishing. To ensure best decorative results, ask for specifications of various finishes. Complete technical data on Plimberite is available from the manufacturers.



.G.R.





Offices constructed with \(\frac{3}{2}\)-in. PLIMBERITE and timber framing, by Messrs. Batger & Co., Confectionery Manufacturers, London, E.I.

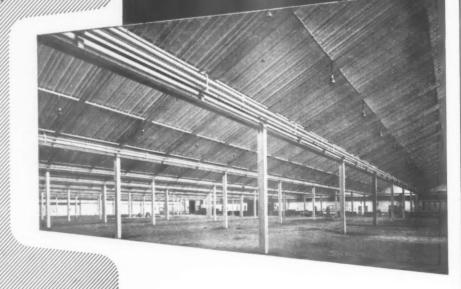
BRITISH PLIMBER LIMITED

20 Albert Embankment . London . S.E.II . Reliance 4242





EST. 1850



JAMES AUSTIN & SONS (Dewsbury) LTD

THORNHILL IRON & STEEL WORKS • DEWSBURY • YORKSHIRE TELEPHONE: 1750 (5 LINES) • TELEGRAMS: AUSTINS DEWSBURY

Flooring 'Standards' by HOLLIS

WOOD BLOCK . HARDWOOD STRIP

PARQUET FLOORS

-the key to stability in timber

The stability of a building depends on its foundations—the stability of timber, upon seasoning. It may commone by 'girdling' standing trees. It may continue to a small degree in the log, but most important is seasoning after conversion Essential requirements for this are—solid foundations to piles, correct 'stickers' and careful building of stacks, to take advantage of drying winds.

The timber for HOLLIS floors is given the most meticulous

attention at this initial stage. It is followed by precisional standards in kiln drying and manufacture . . . whilst installation is carried out by expert and experienced craftsmen.

And behind all—the HOLLIS SERVICE—built up throughout 60 years, and country-wide in scope.





HOLLIS BROS LTD

HULL: CRAVEN HALL · LONDON: 150 HOLBORN · E.C. I LEICESTER: ULVERSCROFT ROAD · BIRMINGHAM: CAMBRIDGE STREET

Approved contractors for SEMASTIC decorative tiles (Product of a Dunlop Company)

ROBERTSON Q-PANELS

Robertson Q-Panels offer a 95% reduction in dead load weight and a 33% reduction in heat losses, when compared with a conventional II" cavity wall.

This latest addition to the Robertson range of products provides the designer with a unique medium for architectural expression.

The ease and speed with which large areas of Q-Panel are erected permit earlier utilisation of building space.

Literature sent on request

ROBERTSON THAIN LTD

ELLESMERE PORT . WIRRAL . CHESHIRE

Sales Offices:

LONDON, GLASGOW. BELFAST. BIRMINGHAM. NEWCASTLE, LIVERPOOL, SHEFFIELD, MANCHESTER, CARDIFF and EXMOUTH
Agents in most countries throughout the world







The **DERWENT**Combination Grate

One economical fire provides heat for large oven, fast-boiling plate with extension hob and hot closet.

Ample domestic hot water and controlled room warmth. Overnight burning.



B33 and B22 BOILERS

Waterway encircles fire and gives high output per sq. ft. of heating surface. Bright clean finish, minimum cleaning. B.33 has steel waterjacket, B.22 cast iron.

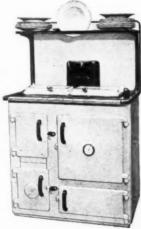
IS THERE A



IN THE HOUSE!



The perfect all-purpose stove for cooking, water heating, space heating. Burns any solid fuel and can be regulated for overnight slow burning.



The MILFORD Oven-over-Fire Combination Grate

For space heating, water heating, cooking; boiling space for 5 saucepans. Flue cleaning without removing oven.





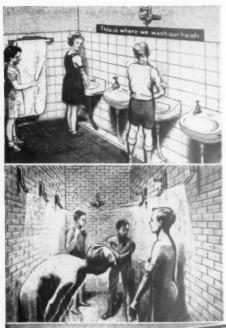
For further information on any of these Ministry approved appliances, please write for individual leaflet.

GLOW-WORM

GLOW-WORM BOILERS LTD. • DERWENT FOUNDRY • MILFORD • Nr. DERBY

London Showrooms: 22-24 BUCKINGHAM PALACE ROAD, S.W.1

BPC



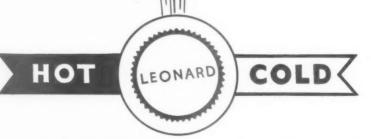




Leonard
THERMOSTATIC VALVES
for AUTOMATIC mixing
of hot and cold water







The Leonard Thermostatic Mixing Valve automatically mixes hot and cold water to give warm water at the right temperature for use. The thermostat keeps the temperature of the warm water steady, preventing those sudden changes from hot to cold and back again, which are always uncomfortable and often dangerous. Fuel cannot be wasted by using water that is too hot.

Leonard Thermostatic Mixing Valves are specified by leading architects, engineers, Government and municipal authorities.

Please write for pamphlet No. 2/A

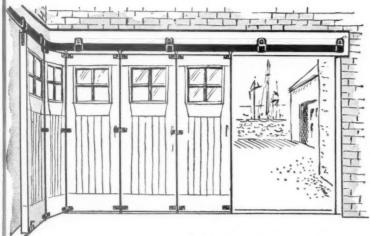
WALKER CROSWELLER & CO., LTD. Whaddon Works, Cheltenham Glos.

FOR ALL CONTRACTS



COBURN

SYSTEM



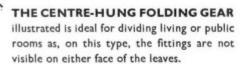
ROUND-THE-CORNER GEAR



GEAR



ROUND-THE-CORNER GEAR is ideal for use in garages and similar buildings and our range varies from the lightest door-size to a type suitable for bus garages.

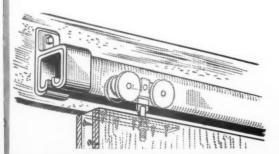


THE STRAIGHT-SLIDING GEAR is shown on the left and is possibly the most simple of all sliding door gears and can be used on single, double or triple tracks.

Send for illustrated literature and questionnaire



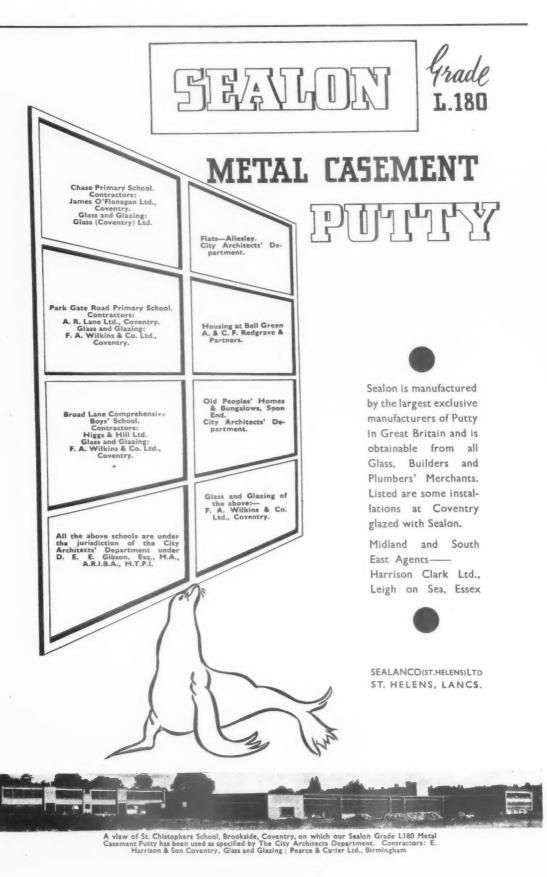
CENTRE HUNG FOLDING GEAR



STRAIGHT SLIDING GEAR

THE BRITISH TROLLEY TRACK COMPANY, LTD.

COBURN WORKS . COPPERFIELD ST. . LONDON. S.E.I. . Tel. WATERLOO 4311 (3 lines)



The N

SU

The whice with

asser

Lath "PA stan insu One

Make (Hair Grade Plaste Plaste



'Builder' Photograph

The N.A.A.F.I. Club Lincoln, Architects: Messrs. Joseph F/F.R.I.B.A. Contractors: William Moss and Sons Ltd.

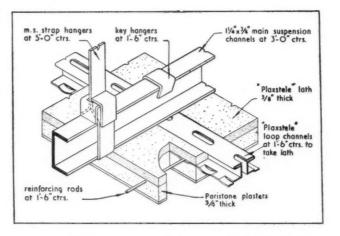
"PARISTONE" PLASTER gives the suspended ceiling to this Ballroom

high fire resistance

The ceiling is built on the "PLAXSTELE" system, which combines the use of "PLAXSTELE" Lath with patented suspension and jointing members assembled as shown in the isometric sketch. The Lath, which is \(\frac{3}{6}'' \) thick, is plastered with \(\frac{3}{4}'' \) of "PARISTONE" Plaster, thus providing a substantial ceiling with a smooth finish, good thermal insulation value, and high fire resistance (B.R.S. One hour. Grade D).

BUILDING EXHIBITION, OLYMPIA November 18—December 2 Stand No. 149 Row G GRAND HALL

Makers of Paristone Browning Plaster (Haired, Unhaired and Metal Lathing Grades), Paristone Wall Finishing Plaster, CRETESTONE Concrete Bonding Plaster, GYPSTONE Board Finishing Plaster GYPLITE Vermiculite Insulating Plaster (Undercoat and Finishing Grades).



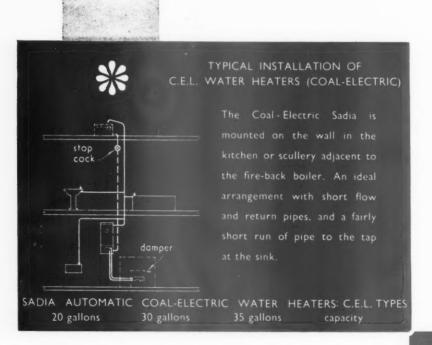
GYPROC PRODUCTS LIMITED

Head Office: Westfield, Upper Singlewell Road, Gravesend, Kent. Telephone: Gravesend 4251-4. Telegrams: Gyproc, Gravesend. Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow, S.W.I. Telephone: Govan 2141-3. Telegrams: Gyproc, Glasgow. Midland District Sales Office: East Leake, near Loughborough. Telephone: East Leake 231. London Office: Morris House, 1-5 Jermyn Street, London, S.W.I. Telephone: Whitehall 8073-4.

Current Hot Water Problems

If it takes two tons a term to heat a home—can dad have hot water every morning?

Yes indeed—a Sadia Coal Electric Water Heater will provide the family with hot water whenever they need it. The Sadia stores the fire-heated water efficiently, preventing heat loss. When the fire has been out for some time, or in the Summer months, the Sadia automatically heats the water to a predetermined temperature. . . in short it is superbly efficient and economical in operation. Architects and builders will particularly appreciate the simplicity with which Sadia is installed—no complicated piping to make heavy demands on materials and man hours. And of course there are no fumes or flues to bother about; the Sadia is a compact, self-contained unit. Our expert engineers are always ready to discuss with you the installation of any type or size of Sadia Electric Water Heating Unit for household or business use.





Efficient cork insulation. Welded copper tank, tested to 100 lbs. per sq. inch. Steel Sheet container, stove enamel finish. Automatic thermostat control.

SADIA

Hot Water by Electricity

There's a natural answer

Write to:

AIDAS ELECTRIC LTD.

SADIA WORKS: RODWELL ROAD, NORTHOLT, GREENFORD, MIDDLESEX. Phone: WAXLOW 1607
Scottish Agents: W. Brown & Co. (Engineers) Ltd., 89 Douglas St., Glasgow, C.2. Manufactured in S. Africa by: Sadia Water Heaters (Pty) Ltd., 3-5 Newton St., Village Main, Johannesburg

SUPPLIED READY FOR PLACING

... without cutting or fitting

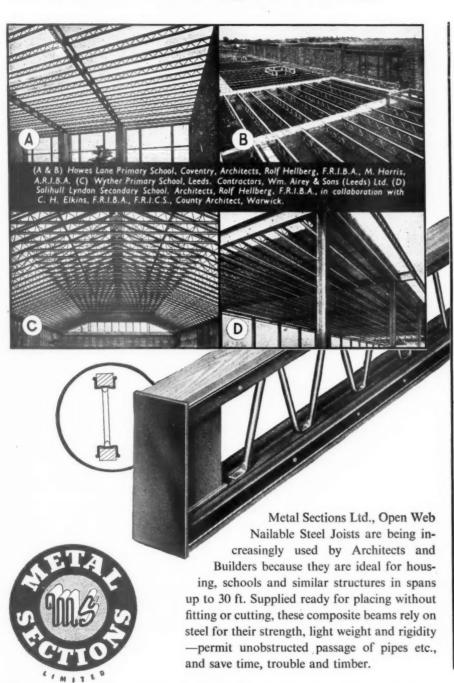
ls

ues

use.

ured

bury





METAL SECTIONS LTD.

can undertake the manipulation and fabrication of sections into components or sub-assemblies, finished in a variety of ways by rust proofing, painting, plating, etc. Below are a few examples:—

Partition frames, Picture rails. Dado rails and skirtings. Corner Beads for Plaster. Wall panel frames. Door frames and trims. Gutters and Window trims. Nonstandard window glazing sections, Glazing bars. Shutter laths. Sliding door runners. Precast concrete forms. Panel retaining trims. Miscellaneous trims and decorative finishing strips. Cover strips. Fixing strips for wall and ceiling linings. Prefabricated house, school, etc. sections. Snap or clipon mouldings. Special reinforcing rods. Fireplace surrounds. Special flashings. Laths. Floor and Roof decking. Aluminium roofing panels. Stair treads and risers. Venetian Blind laths. Louvres. Doors. Window weather strips. Drawer slides. Conduit ducts. Furniture and Kitchen equipment sections.

Full details on request to: METAL SECTIONS LTD. OLDBURY, BIRMINGHAM Tel. BROadwell 1541



OPEN WEB NAILABLE STEEL JOISTS



The World is our market

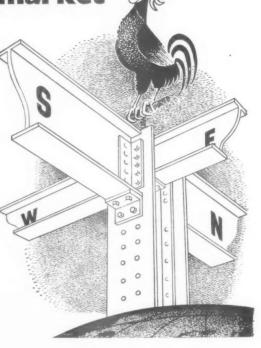
A considerable flow of all types of steel structures leave the Gateshead Works of Wright, Anderson, destined for all parts of the world.

We are confident that our long experience and knowledge of designing and fabricating steelwork to meet exceptional conditions overseas will be of the greatest value to all prospective customers, and will result in a saving of time and money on any project entrusted to us.

Here are a few typical Contracts carried out by us during recent years for a important Industrial and Civic Organisations and Government Departments, both at Home and Overseas . . .

Power Houses—Chemical and Furnace Plant, Steel-producing Plant,
Short Span Bridge Construction, Framework for Overhead Travelling and
Dockside Cranes, Single- and Multi-Storey Buildings, Hangers of all types,
Tanks (including Oil Storage and Refinery Tanks), Towers—Chimneys—
Hoppers—Bunkers—Pipework—Pylons—Observatory Domes—and
Constructional steelwork of almost every type.

Home and Overseas enquiries are invited.



WRIGHT, ANDERSON

CONSTRUCTIONAL ENGINEERS AND BRIDGE BUILDERS, GATESHEAD 8, CO. DURHAM



Tel: Gateshead 72246 (3 lines) 'Grams: "Construct, Gateshead'" London Technical Offices: Regent House, Kingsway, W.C.2. Tel: HOLborn 9811

- I Single Track Railway Bridge in course of construction and trial erection prior to shipment overseas.
- 2 View across part of our Main Construction Bay, showing Fabrication Steel Work ready for shipment.



CONTRACTORS TO GOVERNMENT DEPARTMENTS, N.C.B., BRITISH RAILWAYS, N.G.B. AND CROWN AGENTS FOR THE COLONIES.



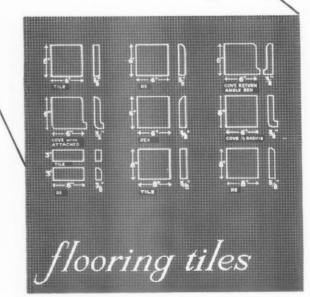
811



Call it what you will. A setting for comfort—a bird's eye view of a kitchen fitted with the simple elegance that boasts of usefulness too. A setting further enhanced and made complete by the use of the new Royal Venton Flooring Tiles, designed for fine appearance and exceptional service.

Presenting the 8 inch Tile

The Manufacturers of the famous Royal Venton fireplaces and sanitary ware are proud to introduce their new range of Flooring Tiles, available now in a complete series, together with the new 8 in. all-purpose tile manufactured from specially prepared materials to withstand hard wear. Yet another product from the House of Royal Venton, with particular application for corridors, kitchens, public buildings, etc. Leaflet and details upon request.



ROYAL VENTON

STEVENTONS TILERIES LTD.

HIGH CARR, CHESTERTON, NEWCASTLE, STAFFS. Tel. No.: CHESTERTON 68136.
ASSOCIATED WITH

JOHN STEVENTON & SONS LTD. BURSLEM STOKE-ON-TRENT Telephone: Stoke-on-Trent 84261/62. Telegrams: Steventon, Burslem, and at Middlewich, Cheshire.





The imaginative use of colour has been one of the most distinctive features of development in architectural technique of the last two decades.

A limiting factor in practice has been the absence of any absolute standard of colour classification and comparison. It is, therefore, with genuine pleasure that we can announce the successful outcome of several years of applied research in this field.

The Ministry of Education has standardised a range of 47 colours and classified them according to the Munsell system. Our technical experts were privileged to co-operate with the Ministry in making this selection, which we now produce from nine basic tinters of proved fastness. The complete range is available in super-gloss and semi-gloss finishes, and a selection of colours can be supplied in flat oil paint, washable water paint and Vydok Emulsion finish.



The scope of this important development is described in a booklet entitled "Colour with a purpose," which also contains much interesting matter concerning some of the latest developments in colour usage. A copy, together with a range of colour chips, will gladly be sent to any architect upon request.



The Ministry of Education has applied the name "Archrome" to the new colour range and has included much valuable data about it in their Building Bulletin No. 9 (Colour in School Buildings).

DOCKER BROTHERS.

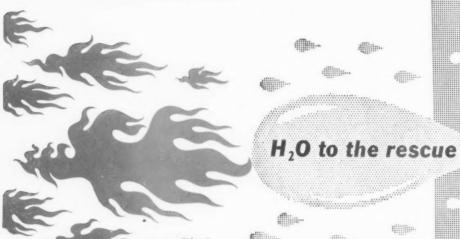
Makers of Paints, Lacquers and Varnishes for every purpose



LADYWOOD · BIRMINGHAM 16

In buildings of all types, 'Paramount' Insulating Plaster Board affords a high degree of protection against fire

Gypsum, which forms the core of Paramount Plaster Board, contains 20% of chemically combined water and, consequently, cannot burn. When attacked by fire, the process of calcination is so slow that flame spread is greatly retarded and the extent of loss appreciably curtailed.



Tests conducted in accordance with B.S.476 place

Paramount Fire-resisting Insulating Plaster Board in the highest classification for resistance to flame spread . . . a cogent reason for its widespread use by progressive

Architects and Builders.

Factory roofs and walls, lined with 'Paramount' Insulating Plaster Wallboard, fixed by the 'Paraclip' System, have greatly increased thermal insulation and five-resistance. The capital outlay is quickly recovered by the fuel economy achieved.

THE BRITISH PLASTER BOARD LIMITED

SOUTHERN SALES OFFICE MORRIS HOUSE, I-5 JERMYN STREET, LONDON, S.W.I. Telephone: Whitehall 9821



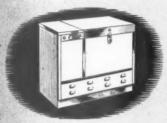
NORTHERN SALES OFFICE BIRKENHEAD ROAD, WALLASEY, CHESHIRE Telephone: Birkenhead 4411











The Aquadale fully Automatic Dish Washer.



21' Wide Sinks with Double Bowls, Drainers and Tapholes.



18' Wide Sinks with Single Drainer — Reversible.

SETTING the highest standard in attractive, modern kitchen equipment, the "DALE" series of Kitchen Cabinets and Sinks make an immediate appeal to every houseproud woman. Beneath the sleek attractive exterior of each cabinet—admirably finished in white or green hard-cream stove enamel, which will neither peel nor crack—lies a dustproof, rustproof construction in Aluminium and Stainless Steel. Full details of PAUL Kitchen equipment are given in our latest illustrated leaflet. May we send you a copy?

Our Showrooms at No. 7, Royal Arcade, Old Bond Street, London, W.1. where a range of PAUL Kitchen equipment can be seen and enquiries answered.



W.H.PAUL LTD BREASTON, DERBY

MAGNET covers the whole field

From Land's End to John o'Groats, there is no building project in any part of the country that Magnet Service cannot benefit.

Quick to install and keenly priced, Magnet standardised joinery, doors, windows, cupboards, etc., are a double saving on time and money.

Three well-equipped factories and large stocks of kilned and air-dried timber combine to make Magnet Service the fastest ever, throughout the entire country.

*Write for free literature to . . .

WHITLEY STREET, BINGLEY, YORKS Phone: Bingley 3547 (3 lines)
LOVE LANE, ASTON, BIRMINGHAM Phone: Aston Cross 3291
LONDON ROAD, GRAYS, ESSEX Phone: Tilbury 77 (5 lines)

MAGNET LIMITED

INDUSTRIAL PLANT and SUPPLIES

BOILERS and

PIPES and FLANGES

STEEL and ALLOY
SCAFFOLDING
and LADDERS

WELDED and
RIVETTED VESSELS

AIR and GAS RECEIVERS

ASBESTOS
PACKINGS and
JOINTINGS

and allied items of static industrial plant... are obtainable from Wards' Industrial Plant Depots at Sheffield, Silvertown, Glasgow and Briton Ferry. In this field, as in others, economical used plant is usually

available at these centres.

Stock Lists of new and Secondhand Industrial Plant available on request.

THOS.W.WARD LTD

INDUSTRIAL PLANT DEPARTMENT ALBION WORKS - SHEFFIELD

London Office - BRETTENHAM HOUSE · LANCASTER PLACE · STRAND · W.C.2



At The Sign of the Ked Dragon

STAND NO 226 ROW 'K'

Within the Building Exhibition At Olympia in London

Gentlemen engaged in the design and erection of residences and other buildings will find an interesting display and be able to gather information about the Metal Windows and Metal Partitions manufactured by us under our trade names—Jonwindows and Lita Partitions.

'JONWINDOWS' 'LITA' Partitions

JOHN WILLIAMS & SONS (CARDIFF) LTD

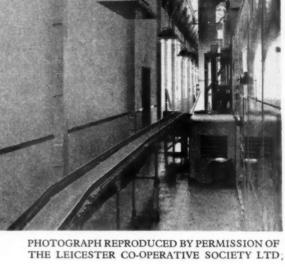
London Office: BANK CHAMBERS, FINSBURY PARK, N.4

Phone: ARCHWAY 2294

Grams: DISSOLVING, LONDON

CMQUX REGD TRADE MARK

GLAZED CEMENT WALL FINISH



Maux leads the way in Leicester . . .

Wall surfaces which can be cleaned quickly and easily—and kept clean easily—are essential in a building devoted to the production of food. It is not therefore in the least surprising that The Co-operative Wholesale Society Ltd. (Architect's Dept.) specified Emalux for the wall finish of their new bakery at Leicester—one of the most up-to-date in the world. The glass-hard, fadeless, non-dazzle but light-reflecting glaze of Emalux adds practical beauty to long wall-vistas—enhanced here by the Glazalux glass tile band in a contrasting colour. Skilled Emalux craftsmen can apply these finishes to almost any wall..



Write for the Emalux brochure

JOHN ELLIS & SONS LTD

21 NEW WALK, LEICESTER.

'PHONE 56682



Grayed LIMPET ASBES



COUNCIL CHAMBER, BELFAST CITY HALL.

The ceiling illustrated has been treated with Sprayed Limpet Asbestos to reduce reverberation, and shows the excellent finish which can be obtained by this method of acoustic treatment.

Sprayed Limpet Asbestos is used wherever a Sound Absorbent Surface is required, and because of its Fire-proof and Vermin-proof qualities, it is especially suitable for use in Hospitals, Offices, Swimming Baths, and in other places where reverberation is excessive.

Newalls Sprayed Limpet Asbestos is also widely used for Acoustic Correction in Cinemas, Churches, and other Auditoria.

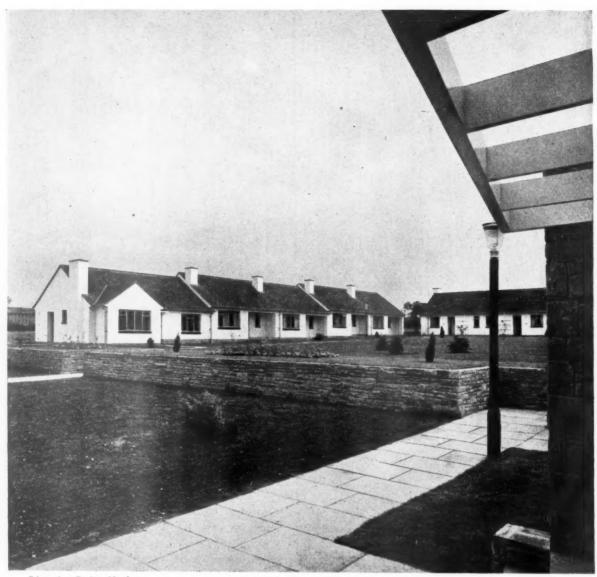
Newalls Insulation Co. Ltd., maintain a fully equipped Sound Laboratory for the investigation of problems connected with the use of Acoustic materials.



NEWALLS Insulation Co. Ltd.

HEAD OFFICE: WASHINGTON , COUNTY DURHAM A MEMBER OF THE TURNER AND NEWALL ORGANISATION .

OFFICES & DEPOTS AT: LONDON, GLASGOW, MANCHESTER, NEWCASTLE, BIRMINGHAM, BELFAST, BRISTOL & CARDIFF



Johannesburg Gardens, Manchester.

Architect: A. Mackenzie, L.R.I.B.A., Director of Housing, Manchester Corporation.

For over twenty years SILEXINE Stone Paint has been used with outstanding success as a protective and decorative surface finish both in this country and overseas. On this Manchester Housing Estate SILEXINE Stone Paint has been used throughout to protect the external walls. It is easy to apply, has remarkable lasting qualities and gives real protection against damp. It can be applied direct to most surfaces,

including new or old cement, concrete, bricks, asbestos, etc. SILEXINE Stone Paint can also be used effectively for interior work where a stone finish texture is required. Supplied in a range of twelve attractive colours. (Special shades to order.)



Notes on surface preparation are given in a booklet which will gladly be sent on request. This booklet also contains a report on tests carried out by the Building Research Station. Information regarding other Silexine Products, particularly S.P.E.C. (Silexine Plastic Emulsion Coating) a durable, satin-like finish for interior walls, is also freely available.

SILEXINE PAINTS LIMITED 81 RICHFORD, STREET, LONDON, W.6. Shepherds Bush 4461-2



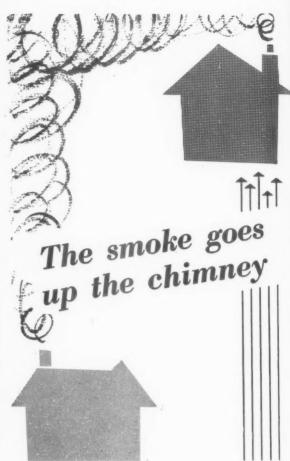
Really old boy you should try the New Angle with

They can help you

ECONA MODERN PRODUCTS LIMITED

AQUA WORKS · HIGHLANDS ROAD · SHIRLEY · BIRMINGHAM

TELEPHONE & TELEGRAMS : SOLIHULL 3078



The smoke goes up the chimney, so does warm air, but need it? The Airdun Convector Fire traps waste heat in a specially designed jacket, giving warm air which is distributed to other points in the house requiring heat. Why not incorporate the AIRDUN Convector Fire in your future designs? We will be delighted to advise you regarding specifications, installation, etc.



AIRDUN CONVECTOR FIRE

For full particulars write to

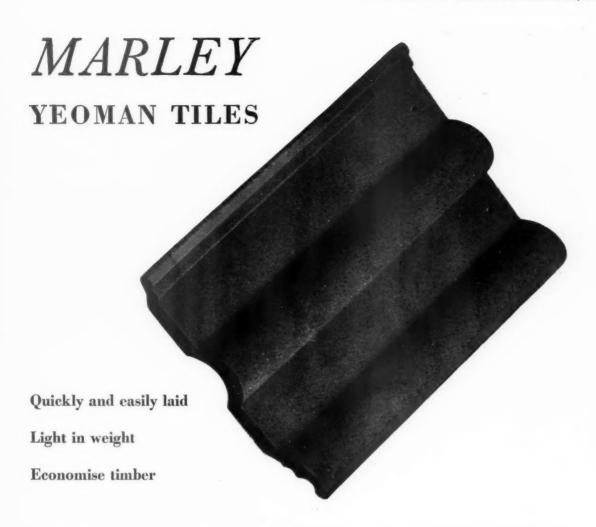
A L E X A N D E R D U N N L I M I T E D

Uddingston, Scotland. Telephone Uddingston 500

RE

E D





TECHNICAL DATA						
Gauge Lap	No. of Tiles		Feet Run of Batten		Approx.Weight of Tiling in lb.	
	per sq.	per sq. yard	per sq.	per sq. yard	per sq.	per sq. yard
3"	92.5	8.3	90	8.1	1,000	90
4"	100	9.0	98	8.8	1,100	99
5"	109	9.8	107	9.6	1,200	108
	4"	Dap per sq. 3" 92.5 4" 100	per sq. per sq. yard 3" 92.5 8.3 4" 100 9.0	of Barbara persq. persq. persq. persq. 3" 92.5 8.3 90 4" 100 9.0 98	per sq. per sq. per sq. yard 3" 92.5 8.3 90 8.1 4" 100 9.0 98 8.8	of Batten of Tilin per sq. per sq. per sq. per sq. yard 3" 92.5 8.3 90 8.1 1,000 4" 100 9.0 98 8.8 1,100

Yeoman tiles have a variable gauge which should be utilised to avoid cutting tiles at top courses. Send for full details and specifications. All Marley tiles are surfaced with coloured mineral granules which ensure natural weathering and beauty. And all Marley tiles are covered by the Marley dual guarantee: (1) That Marley tiles will not laminate or decay for 50 years. (2) Free maintenance of roof tiling fixed by Marley craftsmen for ten years.



"Not for an age-but for all time"

The Marley Tile Company Ltd., Riverhead, Sevenoaks, Kent. Sevenoaks 2251-6 MARLEY
Scotland: Bishopbriggs 1093 Wales: Pencoed 376 Northern Ireland: Belfast 24447 Eire: Dublin 51794

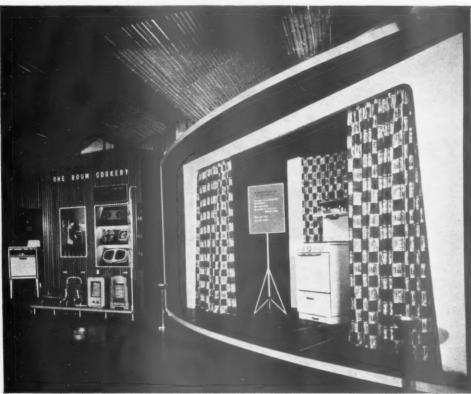


Exhibit designed by Montague Reed, M.S.I.A. Contractors: David Esdaile & Co., Ltd.

Setting for the special presentation of the latest designs in appliance development.

Gas in the design for living



Information

The new enlarged gas and coke exhibit at the London Building Centre is now open. In it visitors will find the latest information on the use of gas and coke, mainly for domestic, but also for commercial purposes. Also shown are approved methods of gas and coke installation, together with examples of the latest equipment. A technical representative is available to answer queries and there is a comprehensive reference library. Visits from individuals or parties are welcomed, (prior notice of a visit from an organised party will be appreciated).



Lounge



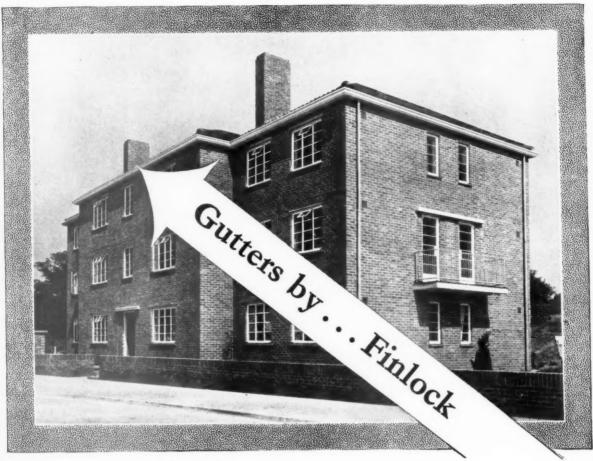
ISSUED BY THE GAS COUNCIL, I GROSVENOR PLACE, LONDON, S.W.I. TELEPHONE: SLOANE 4554

e of in

re
of
s.
er
is

54

* You'll see them on all the best modern buildings . . .



Royal Borough of Tunbridge Wells. Flats on Ramslye Estate.

THE development and use of the Combined Finlock Gutter and Lintol is a significant post-war trend.

Finlock combines a very fine appearance with savings on Maintenance, Bricks, Timber, and first cost.

Finlock has been specified on many prize-winning designs, and is being used by upwards of 1,000 Local and Education Authorities, County Councils, Development Corporations, War Office, Admiralty, Air Ministry, Ministry of Works, Gas and Electricity Boards, etc., etc.

SERVICE

Free assistance available on any site.

ESTIMATING

We take off quantities and are completely responsible for seeing that correct goods arrive on site at stated time.

DELIVERIES

Our transport covers the British Isles with a 24 hour service.

FINLOCK PRE-CAST



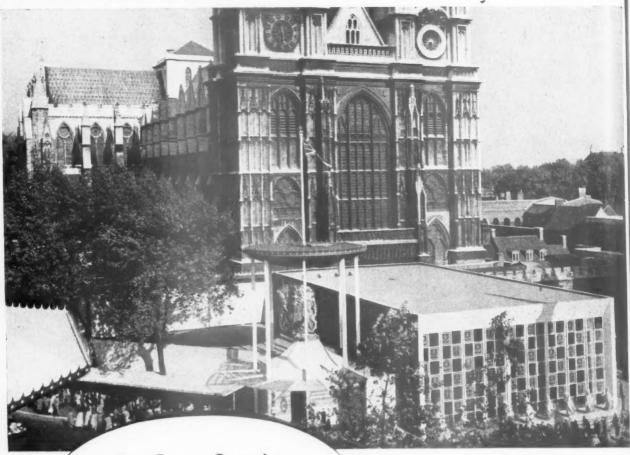
CONCRETE

FINLOCK GUTTERS LTD.

Head Office: FINLOCK HOUSE, 25 FRANT RD, TUNBRIDGE WELLS, KENT. Tele: Tunbridge Wells 3396/7/8/9

7 Works for speedy deliveries to any part of Great Britain. Crewkerne, Somerset. Leeds, Yorkshire. Edinburgh, Scotland. Cwmbran, South Wales. Royston, Herts. Tunbridge Wells, Kent. Belfast, Northern Ireland.

DHB



On Great Occasions
Briggs Roofs take
pride of place

1953 Coronation Annexe,.
Westminster Abbey,
Architect: Eric Bedford, C.V.O.,
A.R.I.B.A. Ministry of Works,
Contractors: John Mowlem and Co., Ltd.

Who

hall

The

tion

the

CO

Interesting NEW developments in roof construction will be seen at OUR STAND No. 23/33, Row "B"
—Building Exhibition, Olympia.

This dignified and imposing Annexe to Westminster Abbey is another example where expert craftsmanship has earned for Briggs their unassailable position as leaders in the field of Roof Covering.

Architects who wish complete technical data on "BITUMETAL" Aluminium Deck and Multi-layer Bitumen Roofing should contact our nearest Area Manager.



WILLIAM BRIGGS & SONS LIMITED

London, Vauxhall Grove, S.W.8 Regd. Office Dundee

OFFICES & DEPOTS ALSO AT ABERDEEN · BELFAST · BRISTOL EDINBURGH · GLASGOW · LEICESTER · LIVERPOOL · NORWICH



d

n

er

r.

D

ee

CH

COX & CO. (WATFORD) LTD. WATFORD-BY-PASS, WATFORD, HERTS. Telephone: WATFORD 5631



BEACON STANDARD WINDOWS

We belong to the British Metal Window Manufacturers' Association, which is a guarantee that our products are of an approved standard so that they will satisfactorily perform their functions over long periods of time with a minimum of maintenance.

Beacon Standard Windows conforming to B.S.S. 990 are now available from stock in the majority of sizes, from our Works, or from our Agents throughout the United Kingdom. The full range of these windows is covered by our Catalogue No. 90. This Catalogue also describes and illustrates Beacon Standard Doors and other ancillary products.

All Beacon Standard Windows, unless otherwise specified, are rust proofed by the application of a zinc sprayed finish using the "metallization" wire process and finally coated with a zinc chromate based paint before leaving our Works. This lengthens the life of the metal by protecting it against the effects of corrosion and it also safeguards the scheme of decoration from the unsightly effects which result from corrosion taking place. This process saves a contractor as much as \pounds_4 on an average sized house by reducing the time and material which otherwise is expended if these initial processes are not carried out by the manufacturer.

This announcement is addressed to Architects, Municipal Authorities, Consulting Engineers and Contractors, for whose benefit we maintain a full staff of experienced representatives whose services are always available to deal with specific enquiries.



JOHN THOMPSON
BEACON WINDOWS LIMITED
WOLVERHAMTON

JASEAL

ROOFING SERVICE

makes roofs, of every type, as good as new, in the shortest time, at the lowest cost



The AQUASEAL Roofing Service contracts for the repair or complete renovation and waterproofing of roofs of all types, in any part of the country. Based on the use of AQUASEAL liquid bitumen proofing—impervious to atmospheric fumes and climatic extremes it provides all the advantages of a new roof, at only a fraction of the cost. It is applied by experienced operatives who do not interfere with the existing roofing (except for minor repairs and fillings) and do not hinder employees beneath. Used for over 25 years on government offices, public buildings, hospitals and factories.

AQUASEAL ROOFING SERVICE

ntee orm

ty of hese acon

of a nate the hich ized

are

and

rices



BERRY WIGGINS & CO. LTD. BREAMS BUILDINGS, FETTER LANE, LONDON, E.C.4. Telephone: HOLborn 0942



THE BOROUGH POLYTECHNIC NEW WING

Architects: NORMAN & DAWBARN, F.R.I.B.A.

was a job requiring the closest co-operation between the Architects and HAMMERS. Five floors of laboratories were planned and installed to schedule, complete with all electrical work and plumbing.

HAMMERS offer ninety-five years of Craftsmanship in woodwork, and the reputation for producing the best quality "mid-twentieth century" furniture and fittings.

HAMMERS Directors and Staff would be pleased to call to discuss your woodwork problems.

"You can trust Hammer's personal service"

Geo. M. Hammer & Co. Ltd.

Crown Works, Hermitage Road, Harringay, STAmford Hill 6691-2. London, N.W.4.

Craftsmen in woodwork since 1858;



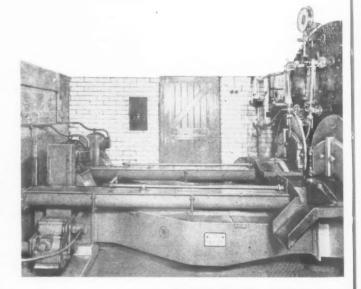
FACTS

- I. Iron Firemen engineers introduced automatic coal stoking to this country.
- The Iron Fireman is available in various models and over 30 sizes to suit every need.
- 3. An Iron Fireman soon pays for itself in fuel saved.
- A user has stated: "Every time you sell an Iron Fireman you are doing the user a good turn".

FIGURES

A recent computation for the comparative cost of producing 1,000,000 B.Th.U.'s per hour is as follows — Coal fired by Iron Fireman ... 78 pence Oil ... 92 pence

For convenience, cleanliness, fuel economy, safety and durability the Iron Fireman is unexcelled. It is built to the finest standards of British engineering and when installed becomes an integral part of the heating plant itself. The fullest technical advice on the most suitable type of machine to suit your boiler may be had from any of the offices listed below.



For <u>proved</u> fuel economy—





ASHWELL & NESBIT LTD., BARKBY ROAD, LEICESTER

LONDON: 12 GREAT JAMES STREET, W.C. I MANCHESTER 13: 184 OXFORD ROAD

LEEDS 6: 32 HEADINGLEY LANE

BIRMINGHAM 4: 12 WHITTALL STREET GLASGOW: 103 DOUGLAS STREET, C.2 Steelwork by

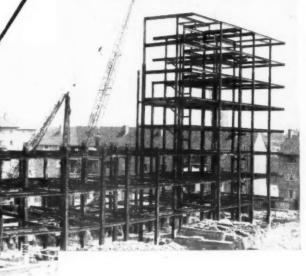
NIC

ects and stalled to

and the

kers

TER L STREET REET, C.2



RUBERY OWEN

Arundel Street Flats, Portsmouth.

Photograph shows steelwork in course of erection for eight storey block of flats for Arundel Street Development Area, Portsmouth.

Contract comprises a total of 300 tons of steelwork.

Architect:— Peter Mc G. Corsar, A.R.I.B.A., in association with Frank Mellor, F.R.I.B.A., (City Architect, Portsmouth Corporation).



a name in Structural Steelwork

RUBERY, OWEN & CO. LTD., DARLASTON, SOUTH STAFFS.

Telephone: Darlaston 130

London Office: 102-108, Clerkenwell Road, E.C.I. Telephone: Clerkenwell 8384-5

also at BIRMINGHAM · COVENTRY · SOUTHAMPTON

A NEWS CHRONICLE PUBLICATION

"New

Elizabethan Homes'

EDITED BY MARGARET SHERMAN

A BOOK of particular interest to all who are professionally concerned with the design and construction of modern homes, their equipment and furnishing.

CONTENTS INCLUDE:-

Reproductions and specifications of fourteen designs for houses in the 1,000 sq. ft. range that emerged from the News Chronicle Home Planning Competition and a plan for a house which can be expanded by stages.

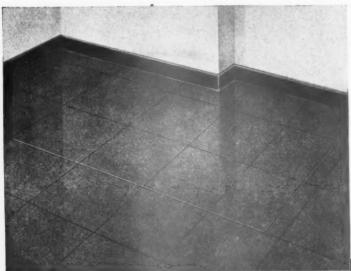
Articles by Dr. Stephen Taylor, Desmond Donnelly, M.P., Paul Bareau and experts on heating, lighting and furnishing.



ON SALE NOW AT ALL NEWSAGENTS AND BOOKSTALLS

Also available:—

Large Scale Lithograph Reproductions of the ten designs featured in the Competition. Price 1/3 each, 10/- set of ten, from News Chronicle Books Department, 12/22, Bouverie Street, London, E.C.4



BROADSTEL COVERS

PATENT No. 606014

After a period of acute shortage of sheet steel the BROADSTEL COVER is now readily available for prompt delivery.

Designed for filling on site to match the surrounding floor or paving. Highly resilient to impact and almost invisible when installed.

Detailed Brochure sent on request.

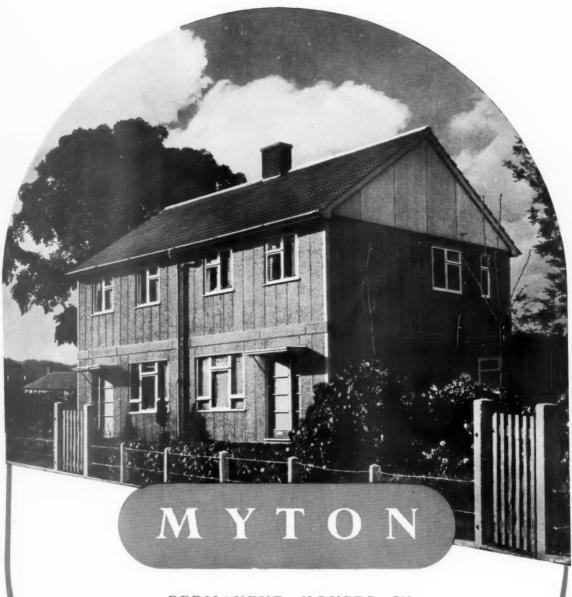
for paved surfaces

BROADS

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

lines)





PERMANENT HOUSES IN THE NEW TRADITION

The Myton New Traditional House is the result of a building technique which effects a considerable saving of scarce materials and site labour, yet maintains the aesthetic appeal of the best traditional architecture. Enquiries are invited for specifications, bills of quantities and plans.

MYTON LIMITED, Building and Civil Engineering Contractors

HEAD OFFICE: Newland, Hell Branches at LONDON JURMINGHAM and SUNDERLAND

The new 'MANSION' SLIDING ROLLERS

SIMPLE · SILENT · SMOOTH

superbly made for wardrobes, partitions and interior doors.

Rustless throughout, silent operation.

Minimum thickness 1½"; capacity 112 lbs.

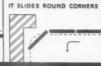
Write for list CM which also illustrates "Cabnet" rollers for Cabinets, Showcases and Cupboards.

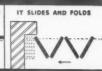
Henderson sliding door gear

P. C. HENDERSON LTD TANGENT WORKS BARKING ESSEX









8 205/91

RS

loors.

ers

LDS

205/91

THE

No. 30

As: bogg for whis anev University to t able with

the will —un clas



THE ARCHITECTS' JOURNAL

EDITORIAL BOARD: (1) Consulting Editor, F. R. Yerbury, O.B.E., Hon. A.R.I.B.A. (2) Town Planning Editor, Dr. Thomas Sharp, L.R.I.B.A., P.P.T.P.I. (3) House Editor, J. M. Richards, A.R.I.B.A. (4) Executive Editor, D. A. C. A. Boyne. (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.

GUEST EDITOR: (8) Prof. Ian Bowen.

Specialist Editors*: (9) Planning (10) Practice (11) Surveying and Specification (12)
Materials (13) General Construction (14) Structural Engineering (15) Sound
Insulation and Acoustics (16) Heating and Ventilation (17) Lighting (18)
Sanitation (19) Legal.

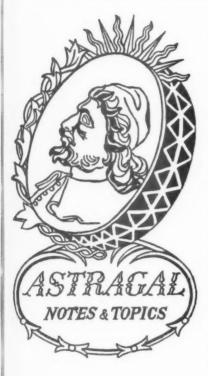
ASSISTANT EDITORS: (20) Chief Assistant Editor, Kenneth J. Robinson, (21) Assistant Editor (Buildings), L. F. R. Jones, (22) Assistant Editor (Information Sheets), H. N. Hoskings, A.R.I.B.A., (23) Assistant Editor (News), Sam Lambert, (24) Assistant Technical Editor, M. Jay, (25) Photographic Department, E. R. H. Read, H. de Burgh Galwey, (26) Editorial Secretary, Monica Craig.

* 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

No. 3061 October 29, 1953 Vol. 118

Subscription rates: by post in the U.K. or abroad, £2 10s. 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.



CAMBRIDGE PRE-VISITED

ASTRAGAL'S mind had barely stopped boggling at the LCC's excellent plans for the South Bank when it was whisked off to Cambridge, to boggle anew at Sir Hugh Casson's scheme for University Development. Not that one expects anything less than exciting from Sir Hugh; but the care and imagination with which he and his partner, Neville Conder, prepared their report to the University are really remarkable. You can see this report, together with sketches, plans and a model, at the Senate House, and even some of the most tradition-bound among you will surely be won over by this scheme -unless, of course, you insist on neoclassical buildings for the University City, in which case we must part company for the rest of this note.

What springs to your mind when you think of Cambridge? Dignified Courtvards? Water-side settings? Serene buildings? Bustle? Bicycles? Quiet lawns? All these things have been remembered by Sir Hugh and his partner, as you will learn from the notes and illustrations in this issue. Let me quote from the report: "Courtyard planning . . . with its continually changing views and intricately arranged building patterns of different sizes, silhouettes, colours and textures, keeps the eye constantly alert and interested." "A Water Square . . . upon this inland site . . . not only sets a mood of serenity for the buildings immediately around it, but will, we hope, be an 'off-stage' presence for the whole of the site-its sudden glitter catching the eye, sometimes perhaps almost unawares, from an upper window or between the shoulders of buildings." "The larger lecture halls and the raised faculty block shall be serene, timeless and almost monumental in feeling, in contrast to the rougher and less sophisticated character of all other buildings." "No attempt is made to hide parked cycles which, when grouped in suitable numbers, in appropriate surroundings, give a feeling of liveliness. Low trees . . . will assimilate their intricacy and linear qualities."

And so on: nothing has been forgotten, from the avoidance of monotony within the site, by the use of varying levels and textures, to the relating of the site to other college buildings, so that it may become "more integrated

with the University of the future," a University in which, as Professor Pevsner has pointed out, the "Backs" may become "Fronts." But the piece de resistance of this thorough report is a Visual Tour of the proposed buildings. You will get some idea of the effectiveness of this townscape tour (by sketch and word) from the notes based on it on pages 534-535. If presentation alone could sell this scheme to the University, it is as good as bought. It has already been recommended for acceptance by a committee appointed by the University's Building Syndicate. ASTRAGAL adds his own small voice to the recommendation, and takes heart from the knowledge that the site is so placed that no one can raise any objection on the grounds that the proposed buildings would clash with existing ones.

Footnote. ASTRAGAL overheard two students of the Cambridge School of Architecture enthusing lyrically over the scheme. Their reason? The proposed School of Architecture will be placed next door to the canteen.

BUILDING IN AMERICA

ASTRAGAL has been looking at a copy of Building in USA: Post War Architecture, edited by Professor H. R. Hitchcock and Arthur Drexler, and published by the Museum of Modern Art. It is a beautifully produced book for which a lot of the credit must, of course, go to the photographers, especially to Ezra Stoller, and to Alvin Lustig who designed the book. We are familiar with most of the buildings—though there are a few fresh ones, such as the fine Hodgson house at New Canaan



WINDOWS PLUS

strong, bronze fittings simplicity in design and first-class manufacture hot-dip galvanized finish &

HOPE Quality

HENRY HOPE & SONS LTD.

SMETHWICK, BIRMINGHAM & 17 BERNERS STREET, LONDON, W.1

Two p

by Ph sented The pl and n the pl an al

My r too sr perha more this d sible cleare

Man about consu poure comes profes bodie sion

But the b

deal impro thing exper These the la

the n pictur forme obser

featu





Two public rooms on the recently-launched Greek ship, T.S.S. Olympia. Left, the "Atlantic Bar," designed by E. Lazarides (Greek architect) and A. McInnes Gardner. Right, the Winter Garden, the work of the same designers.

by Phillip Johnson—but they are presented with tremendous imagination. The photographs were chosen to reveal and not to conceal the buildings, and the photogravure process gives them an almost third-dimensional quality.

My main criticism is that the plans are too small for legibility and though it is perhaps unnecessary in this type of more popular book to economize in this direction, it should have been possible to make one or two of them clearer.

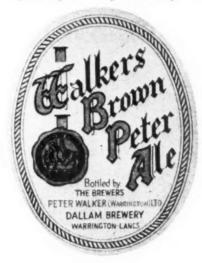
ALE LABELS

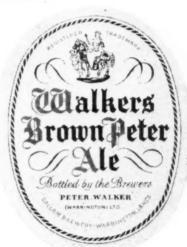
Many consumers of beer complain about the premises on which it is consumed, the vessels into which it is poured, and the containers in which it comes to the bar. The architectural profession has been one of the loudest bodies of complaint, and the profession will have to do most of any improving which is done when economic circumstances permit.

But while very little can be done on the bricks and mortar side, a good deal is being done here and there to improve the appearance of small things, particularly if they are highly expendable things like bottle labels. These have come on tremendously in the last year or so, under the leadership of a few enlightened brewers. But the movement is now spreading. The pictures here show a label craftily reformed by Edward Bawden (you will observe that practically every major feature of the old design has been re-

tained—even to the rope border—but the whole affair has been effectively modernized), a nice round self-confident affair by Milner Gray (the pioneer in the field) and a rather elegant one designed, one is led to believe, to make the bottle look handsome on the dinner table at home.

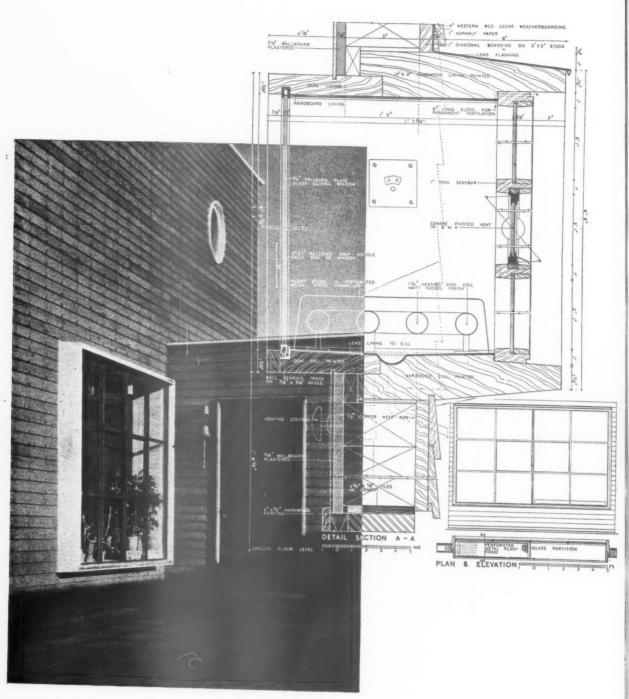
Below, left and right, a label before and after treatment by Edward Bawden. Bottom, left and right, labels by Milner Gray. See note above.











Working Details

Some of the working details which have been printed in the JOURNAL are published in book form today. This volume of collected details, which is the first in a series to be published by the Architectural Press, contains photographs and drawings on facing pages, $8\frac{1}{4}$ in. wide and $11\frac{3}{4}$ in. deep. It is thoroughly indexed, and is bound so that it will lie flat—and stay flat—when opened. More information is given in the editorial opposite. The drawing

superimposed on the photograph above is, of course, considerably reduced. It shows a double window to the dining room of a house near Halland, Sussex, which was designed by Serge-Chermayeff. The window is in two sections. One half is double glazed with special heating and ventilation to house tropical plants, which stand on a perforated metal plant stand. The other half has single glazing.

As the himself the Mo wants a anythin not afforment. that a the from some elevers a

In spi 8-h.p. j aloof a want to expensi O.E. ti Price c sumer; some i doubt y catalog saying

PUBLIC.
It is, of Verithat A graph which in the explain étoile has juited donne lever preten. Punch

Just vehicle sell its (if rep rate) s length

now.

about

NEARLY A BUYER'S MARKET

As the years go by ASTRAGAL finds himself spending less and less time at the Motor Show, where all the cars he wants are far beyond his pocket and anything under £1,500 (which he cannot afford either) is just so much transport and quite devoid of any excitement. However, it is pleasant to see that a few makes still have things at the front that look like radiators, and some even have old-fashioned gear levers and not yards of bent wire.

In spite of the export drive and the 8-h.p. price war the salesmen remain aloof and disdainful, though if you want to write a cheque for something expensive they will stop fingering their O.E. ties and speak quite tolerantly. Price cuts are always fun for the consumer; one day we might even get some in the building industry. No doubt you are as tired as ASTRAGAL of catalogues with stickers on the cover saying "All prices plus 15 per cent."



PUBLICITY FOR ARCHITECTS?

It is, no doubt, because the Chateau of Versailles is of architectural interest that ASTRAGAL was sent the photograph which appears here. The legend which the manufacturer of the vehicle in the foreground sent with the picture explains that La Camarge "danseuse étoile" of the time of Louis Quatorze has just left Versailles and meets the 1954 model in the park and then (I quote this cold) "Charmée, elle abandonne son carrosse pour se faire enlever par un beau marquis." (Don't pretend you can't read that-even Punch has a joke in French every week now. But hang on till young Roderick gets in from school, he can tell you about the car as well.)

Just why the manufacturer of a vehicle which will certainly be able to sell itself on its merits in any market (if reports of its performance are accurate) should need to go to this sort of length to sell his product, is a mystery.

conlining

igned

One

on to metal

POINTS FROM THIS ISSUE

Proposals for Cambridge University	Develo	pment	page	es 52	3 and	529
Further refinements for $Bucklersbury$	House	• •		.* *	page	536
New policy at Liverpool School					page	536
The future of Paddington Basin	• •				page	537

The Editors

WORKING DETAILS

TOO many architects, when faced with a problem that is new to them, waste time or bungle a job because they do not know where to find the results of experiments that other architects have carried out on the same lines. This is a curious state of affairs and is—to say the least of it—unfair to the client. What man would place himself in the hands of a lawyer, if he thought that his defendant had no access to precedents that might be quoted? What sick man would trust a doctor who wasn't quite sure where he had heard of a similar case, but decided to have a stab—if you will pardon the expression—at the thing, anyway?

The client always expects the professional man to be adept at browsing by the library shelf labelled "What Has Been Done Before." The experience of others does not necessarily provide a ready-made answer to our own problems. (Work would be dull if we expected it to.) But it helps us to conserve our energies. It saves us from wearying ourselves with needless drudgery and gives us a starting point for solving our problems, as well as a stimulus to do the job—for few things are as intellectually stimulating as following the working of someone else's mind.

As most readers will know, the Journal has, for many years, printed Working Detail Sheets, showing how particularly interesting architectural problems have been solved. Some readers may remember that before the war a collection of published details were collected and issued in book form. The book is now out of print, but a new volume* is on sale from today. This volume, which includes a small number of the details that appeared in the earlier book and a very few others that were published in the Journal before 1939, consists mainly of details from post-war issues of the paper. They are classified under nine headings:— Windows, Doors, Staircases, Walls and Partitions, Roofs and Ceilings, Furniture and Fittings, Balconies, Covered Ways and Canopies,

Doors, Staircases, Walls and Partitions, Roots and Ceilings, Furniture and Fittings, Balconies, Covered Ways and Canopies, and Heating. Succeeding volumes will contain items not only under the same heading, but under additional headings as well; thus the series will provide architects with a gradually accumulating reference library of records of solutions to old and new problems.

FOCUS ON

Bank Bu.

ZEL, hu... artist Marguet. Sir Edvin C.

ZEL, how. all France Helipy, Langley J.

ZEL, Rosald France Helipy, Langley J.

ZEL, Rosald France Helipy, Langley J.

ZEL, Langley J.

Y O U

The Journal's Guest Editor, Professor Bowen, continues to give results of his enquiry into the state of the architectural profession. (The names shown in the headpiece above were taken at random from the Architects' Register and are not related to the article.)

Guest Editor:

Professor IAN BOWEN

PRINCIPALS AND ASSISTANTS

BY what yardstick can progress in the profession be measured?

By what yardstick can progress in the profession be measured? The purely economic criterion—earnings—has, perhaps, some meaning, as a rough indication of the social function successfully performed by the individual architect, but financial gain is hardly acceptable as the complete equivalent of success. Financial reward sometimes depends more on business ability than on the social or æsthetic value of an architect's work, but there is no known method of measuring æsthetic standards and, certainly, defining such standards is not a job for the economist.

Some of the economic and social factors that affect the architect's career can be described, but the architect is not simply a producer who supplies society with a standard commodity—he has both to originate, and to supervise the processes of production—and his dual function as an artist and a man of affairs makes any simple statement of the factors that make for "success" as difficult as the definition of that term itself.

As a first approximation, it may be assumed that the successful architect is, at least, a principal in his own office, or holds equivalent rank in public employment. (The converse, of course, is not necessarily valid—all principals are not necessarily successful architects.)

Among registered architects, there is, undoubtedly, a higher proportion of principals to assistants in private offices

than in public ones. The figures from our sample are:

	Principals	Qualified, Registered Assistants, (Senior and Others)				
Private Practice Local Government Central Government Commercial Practice	Per cent. 75 21 30 33	Per cent. 25 79 70				

In interpreting this table, several points must be borne in mind. First, the register of architects does not include all qualified persons, and it is the assistant or junior in a private office who is most likely not to be on the register, since his occupation does not require the official or public designation of "architect."* Thus, the table may exaggerate the ratio of principals to assistants in private offices.

Second, it is difficult to define the term "principal" in public offices; the nearest definition does not coincide with that of a principal in private practice. Of our sample, a number of principals had left private practice for public employment, probably bettering themselves financially by doing so, but more than half of them failed to become "principals" in their new employment.

The high ratio of assistants to principals in public offices indicates that many, indeed the great majority, of public architects must be prepared to make a career of being an "assistant." Few of these architects are fully aware of this limitation on their prospects of advancement. Yet the fact that many architects transfer to public practice suggests that these "assistants" are (allowing for the security of public employment) better off financially than many private principals.

The apparently low proportion of assistants to principals in private practice does not necessarily reflect better prospects of promotion in that field. As stated above, our survey may make the proportion seem smaller than it really is; moreover, it is partly a reflection of the small average size of the private office. There are, of course, promotions from time to time in private offices, but assistants in these offices are somewhat pessimistic as to their prospects.

AGE AT PROMOTION

One reason for this pessimism appears to arise from the broad age-distribution of the profession, particularly in relation to the ages at which promotion to a principal's grade would have taken place in the past. In both public and private practice, it would seem, from past experience, that the chances of becoming a principal fall off rather rapidly after the age of 40. In the sample, 89 per cent. of principals in private practice and 73 per cent. of those in public practice reached their higher status as principals at 40 years of age or less. In both kinds of employment, the chances of

promotion seem to have been best for those aged between 25 and 40.

On the whole architects in private

of the

many jur

Our sur

appears coming a It is p likely, th

later, w

disadvar

dividual

on aver

tect see

chances

EXPAN

Future

advance

partly o

die or

PR

On the

by Sir

ment

bridge

the U

believe

On the whole, architects in private practice have become principals at a somewhat earlier age than those in public offices. Most registered assistant architects in private practice are in the age group 24 to 33 years, which indicates that private practice has had a greater attraction for new entrants to the profession than public practice. This may partly be the result of the fact that there is a greater chance of becoming a principal in private practice than a principal in a public office, although even this chance is small enough to give rise to considerable dissatisfaction.

The main point that emerges is that, so far as past experience is a guide, the chances of becoming a principal do not increase with advancing age, even in public offices, where there is a somewhat greater tendency for promotion to be linked with seniority.

EDUCATION AND PROMOTION

To sum up our conclusions so far: Under the registration system, an architect must have passed the RIBA final examination or its equivalent. His best chances of becoming a principal occur before he is more than 40 years of age. The quickest way to gain his necessary qualification is by full-time study; a combined course of studies usually takes a little longer, and partime (office-trained) students normally take longest to qualify. It is clear, therefore, that the present regulations favour the school-trained architect.

This conclusion is clear from the evidence that has been set out. It is not to be refuted by the present distribution of principals in the schooltrained and non-school trained categories, for the present high proportion of non-school trained principals still reflects the large number that were able to "beat the gun," and become principals without taking RIBA finals. It is no exaggeration to say that, in one respect, the Registration Act seems to have struck a most serious blow at the development of private practices. The man of talent, struggling to educate himself, and at the same time to earn his way, can no longer practise on his own account until he has taken the qualifying examination. The type of person who might have started a practice very young, and acquired his education part-time, is not encouraged. Under the present system, the older age of qualification for part-time students means that few of them can risk starting a practice on their own, for they are likely to have families by the time they are qualified.

The profession is at present in the odd position, moreover, of having an assistant staff that is, on paper, and on average, more highly qualified than its principals. This, combined with the increased difficulty of attaining a principal's position, seems to lie at the root

* In government offices it is often necessary for assistants to be registered for purposes of salary rating.

of the frustration expressed by so many junior registered architects.

Our survey has shown that the school-trained architect has had, and still appears to have, a better chance of becoming a principal than the part-timer. It is possible, though not perhaps likely, that office-trained finalists may later, with their greater practical experience, make up for their relative disadvantages—some of them individually will certaintly do so. But, on average, the school-trained architect seems likely to retain his better chances of economic advancement.

EXPANSION OR CONSTRUCTION

Future opportunities for the economic advancement of architects depend partly on the rate at which principals die or retire, and partly on the rate of

growth in the demand for architects' services. On neither of these points can the sample throw any direct light, and they must, therefore, be discussed on a rather broad basis. It can be seen already that, if the growth of the profession ceased, advancement would depend entirely on the death rate and retirement rate of principals, and that the prospects of advancement for assistants would not be very favourable.

On the other hand, it must be emphasized that the increase in the amount of formal training now required will, in the long run, improve the status of the profession. It may be, as some of our figures suggest, that the economic value of training received has tended to decline (since many of those who have taken it must, perforce, accept subordinate positions for a number of years), and it may be, as

some argue, that the training is not as suitable for those who have to accept subordinate posts as it would be if they were soon to become principals, but the advantages of the undoubted improvement in educational standards in the profession will help to off-set these possible disadvantages.

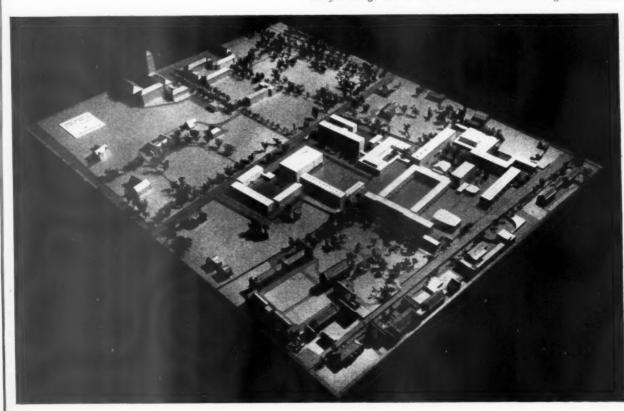
The problem of measuring the extent of overcrowding in the profession is complicated by two facts: first, that the apparent increase in the size of the profession is partly due to increased qualifying and registration amongst assistants (there are more qualified assistants, but not necessarily proportionately more assistants with ambition than there were in 1938); secondly, that some assistants who qualify do not register. The first fact tends to exaggerate the extent of the problem; the second tends to underrate it.

PROPOSALS FOR UNIVERSITY OF

CAMBRIDGE DEVELOPMENT

On the following pages are details of a scheme prepared by Sir Hugh Casson and Neville Conder for the development of a 13·2 acre site at Sidgwick Avenue, Cambridge. A committee appointed by the Building Syndicate of Cambridge University has recommended that the University should accept the scheme. The architects believe that a secret, walled city—however attractivewould be out of place here, for no group of Faculties and Lecture Rooms can afford to be too sharply separated from the living stream of University Life. So they rejected the idea of devising a self-centred layout and planned their proposed buildings so that they would be related to the University Library, Selwyn College and Newnham College.

From the south-west. The University Library can be seen to the north. Selwyn College lies to the west and Newnham College to the east.



in the h indihad a ants to . This act that ming a han a

though

to give

est for

orivate

s at a

n pub-

sistant

on.

de, the
do not
ven in
sometion to

o far:
a archiA final
His
incipal
O years
ain his
all-time
studies
d partormally
s clear,

lations ect. m the It is schoold cateportion als still ere able become finals. that, in t seems blow at actices. to edu-

ctise on ken the type of a pracred his buraged. e older art-time em can ir own, iilies by

time to

the odd n assisand on than its with the a printhe root

CAMBRIDGE UNIVERSITY DEVELOPMENT

The notes on this and the following pages are based on the report prepared by Sir Hugh Casson and Neville Conder.

A group of Faculties and Lecture Rooms of this size and complexity demands formality in its setting. This formality has been obtained by a simple and direct layout. Within this controlling framework, however, the buildings are grouped in a coherent, but basically informal—and perhaps even mildly argumentative—manner. This informal grouping permits greater freedom of design to the architects of the buildings. The informality is also an asset in a longterm programme, where needs are likely to change, for alterations can easily be made without undue disturbance of the basic scheme. The site will be developed in four stages over many years, and care has been taken to ensure that the development looks complete and satisfying in itself at each stage.

COURTYARD TRADITION

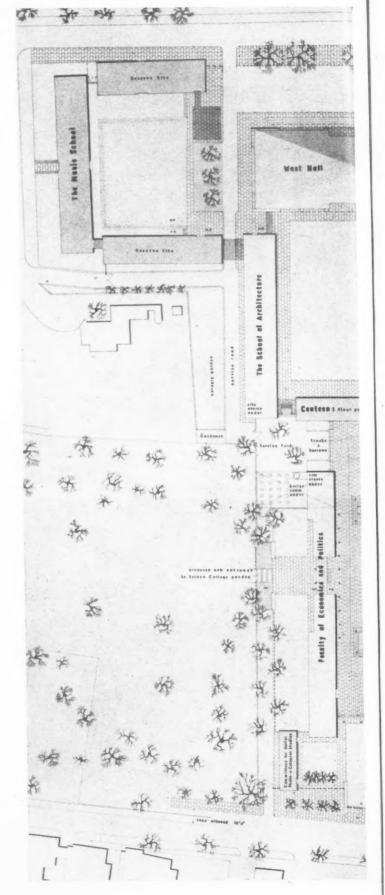
Because the buildings on this site are all similar in function, size and height, it is necessary to prevent them from looking monotonous. Therefore, two principles have been followed. (1) The large lecture halls, which could have been placed in one block, have been "extricated" and carefully dispersed to provide those points of architectural interest which would otherwise be lacking. (2) Courtyard planning, which is traditional to Cambridge, has been adopted throughout the site. This with its continually changing views and intricately arranged building patterns of different sizes, silhouettes, colours and textures, keeps the eye constantly alert and interested and gives the impression that the site is larger than it is.

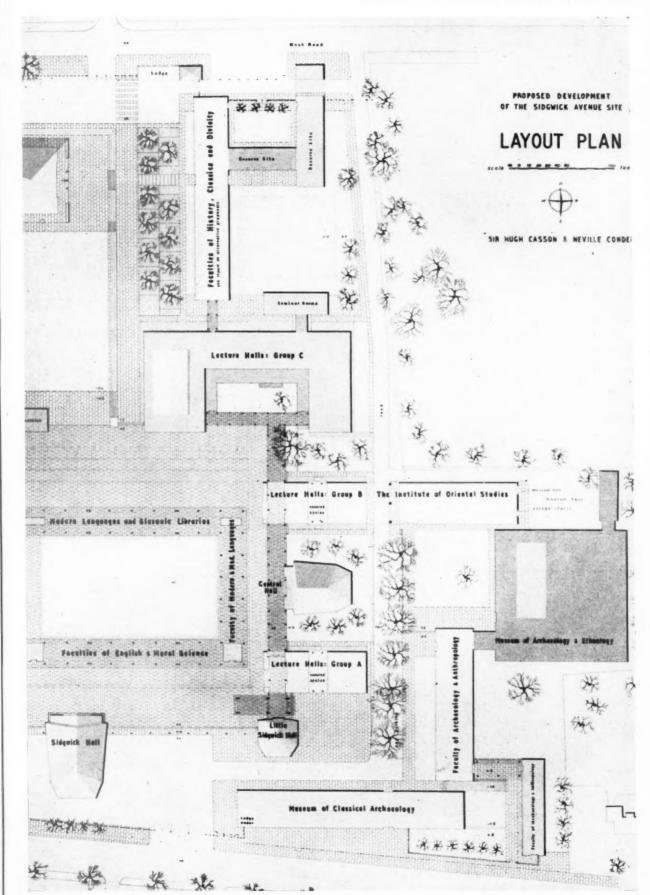
ARCHITECTURAL CHARACTER

The larger lecture halls and the raised faculty block should be serene, timeless and almost monumental in feeling, in contrast to the rougher and less sophisticated character of all other buildings. The first group might well be faced with stone, crisp in outline, delicate in detail and smooth in texture, while the other buildings, which provide a strong setting for their more delicate neighbours, could exploit the rich texture of brickwork. Most of the buildings that should be light in feeling are used to flank or to punctuate the main visual axis, thus increasing the feeling of "penetrability" through the site.

Lecture Halls

The dispersal of lecture halls over the site is not only æsthetically pleasing but also useful. There are no long internal corridors and there is little like-





Section A-A (includes 2 halls of type D; 2 type G; 8 type H; I common room).

Molf 12 Hall F1 Hall F2 Some D Some

Section B-B (includes 2 halls of type D; 1 type E; 2 type F; 2 type G; 2 type H).

CAMBRIDGE UNIVERSITY DEVELOPMENT

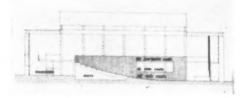
TYPES OF HALL
B: 400 seats
C: 300 seats
D: 250 seats

E: 150 seats Little Sidgwick Hall: 150 seats

F: 80-100 seats

G: 50 seats

H: 15 seats



the b econo In the space the s store this is vided page of 3,2 sq. ft.

The

can I

used

pools

winte

sists

form.

socke

of de

to gi

usabl

to al

desk

Section C-C (69 perimeter seats; 18 side seats; 315 well seats).

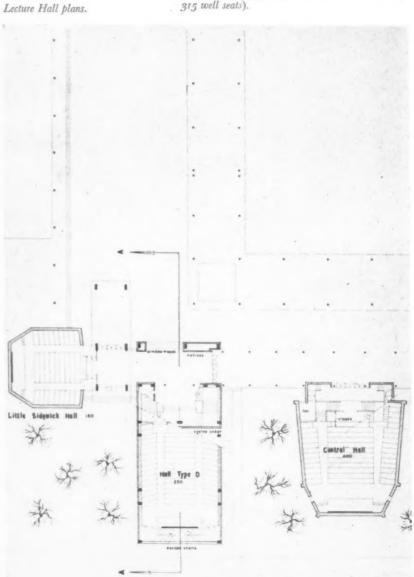
lihood of pedestrians getting into "traffic-jams." In addition, alternative escape stairs are easily arranged.

All halls seating more than 100 are tiered. No halls have balconies as the architects wanted to get the best daylighting conditions for the full length of all rooms. Raked floors are arranged as one continuous upward sweep, so that the audience shall appear to the lecturer as an entity.

Examination Halls

Several of the smaller lecture rooms (Group C on page 531) will be combined for use as examination halls. However, rooms of seminar size are not considered the best to select for this purpose. The ratio of wall-to-floor space is high, and the resultant room shapes are liable to be unpleasant and unsuitable for one or other of the two Furthermore, if corridor walls have to be removable to achieve adequate size and a tolerable shape for the resultant combined hall, the technical difficulties are increased, and the seminar rooms may well have the atmosphere normally associated with temporarily sub-divided office space. It is simpler to arrange for folding walls in one direction only. Taking 3,000 sq. ft. as the optimum size for an examination hall, the architects have selected rooms of the 100-seat and 150-seat sizes for adaptation, so that when they are grouped in threes, only two sets of sliding walls are required to open up a space of suitable size. Halls seating 150 are equipped at the back with counterbalance frames of tiered seating that can be bolted up or down-the underneath surface of the seating forming a presentable wall when the space is used for exami-

Of the various possible systems considered for the provision of removable walls together with adequate sound insulation, the duplication of two light, sliding folding partitions is selected as



the best from the point of view of economy, easy handling and reliability. In the proposals, two partitions are spaced apart to prevent "drumming"; the space between them provides a store for examination furniture when this is not in use. The three halls provided on this system (2/1B Group C, page 531) give usable flat floor areas of 3,250 sq. ft., 2,750 sq. ft., and 2,630 sq. ft.

The 400-seat hall (C-C opposite page) can be adapted for examinations by the use of a system similar to that used for converting public swimming pools into dance halls during the winter months. The auditorium consists of a "well" within a level platform. Posts are inserted in prepared sockets to reduce spans and sections of decking are then laid over the well to give a level floor. This gives a usable floor area of 2,750 sq. ft. in the well area, which can be increased to about 4,200 sq. ft. if the perimeter desks are made to be removable.

ts;

Description of Hall

West Hall (1,000 seats) (see page 530) has not been planned in detail, but it is intended that the auditorium shall slope up away from the stage at the west end, with scenery doors opening to the service road. The entrance hall, encased in glass walls, fits under the east end of the auditorium with its floor-level raised only a few inches from the surface of the Water Square. Sidgwick Hall (400 seats) (see page 531) has not been planned in detail. It is intended that it shall be similar in general form to Central Hall, but with entrance halls and cloakrooms provided on a more generous scale, to allow its use for social occasions in the evening.

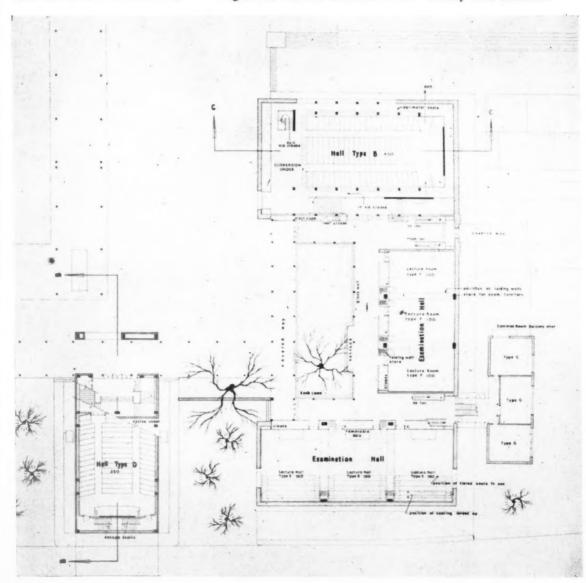
Central Hall (300 seats) is a self-contained building, with its own cloak-room accommodation. The walls are thick, bearing the weight of the roof without a structural frame, and insulating the hall against external noise. High-level, recessed windows in the

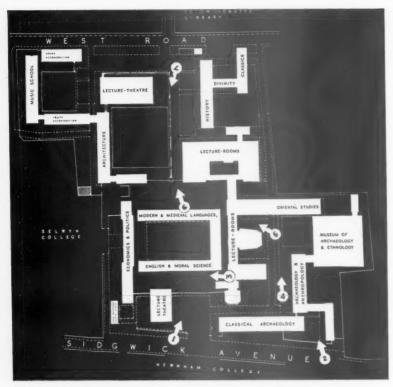
rear part of the hall will be supplemented by top light.

Little Sidgwick Hall (150 seats) is a miniature edition of Central Hall. It shares cloakroom accommodation with the halls in Group A (see page 531) to which it is linked by an enclosed entrance hall.

Halls Group A and B (see page 531). The accommodation contained within these buildings, and within the other composite structures is listed in the key on the opposite page. The structural frames are housed within the two skins of a double wall, and the halls are further insulated from road noises by the arrangement of secondary escape stairs at the east end of each block. The common room on the second floor of Group A has a small balcony and faces west, overlooking the Sidgwick Avenue forecourt.

Group C (see page 531). The special nature of the rooms in Group C has already been described.





Viewpoints for sketches

CAMBRIDGE UNIVERSITY DEVELOPMENT

A Tour of the Site

The sketches shown here have been prepared to show the nature of the layout and not the exact form and appearance of the buildings, for which no design drawings, apart from preliminary planning studies, have yet been prepared.

Sketch 1.—If you approach the site from the west, along Sidgwick Avenue, this is the view you will have as you approach the entrance. It is wide open and dramatic. From the entrance courtyard rise the steps serving the Paved Platform, its surface broken only by the green of the central lawn and the pattern of shadows thrown by the Faculty building poised lightly above it. This three-sided group—the internal proportions of which are similar (on plan) to the main courtyard of St. Catherine's College-presents to the outside world a smoothly sheathed and almost entirely unbroken façade. But the eye can pass beneath and beyond the buildings that close the courtyard and catch a sparkle of the Water Square.

Visual Hint

Sketch 2.—If, on the other hand, you approach the site from the other end of Sidgwick Avenue, you will have an appetite-whetting view before you reach the entrance. Across a miniature lawn and thence through a linking canopy can be seen the Museum of

Archæology and Ethnology, in its setting of grass and shrubs—a visual hint of what lies within the site.

Selwyn College Link

Sketch 3.—If you look towards the Faculty of Economics and Politics from this point you will see that the building is pierced centrally at ground level. This is done to provide a link with the gardens and buildings of Selwyn College, which lie beyond.

Friendly Bustle

Sketch 4.—This part of the site is likely to be both busy and crowded at certain times of the day. This mood of bustle is emphasized by the architectural character of the buildings and the spaces between them, all of which are kept intimate and friendly. On both sides of the road, beneath the trees, are hard standings for cycles and an occasional car. From here access to the lecture rooms is quick and direct.





Sketo courty activi Paved

Water Sket surfac atmo From can le towar chara in for just p gener some site. the 1 water On t sketc small floor cycle to t Facu five could asser and lawn depa Wes pren that the sket the 1 tecti tion grou leve flect

> Fare Sk bou and ing Wa win

to patt





Platform Approach

its

the om ing rel. the ryn

at

ec-

he

are

oth

are

an to

ct.

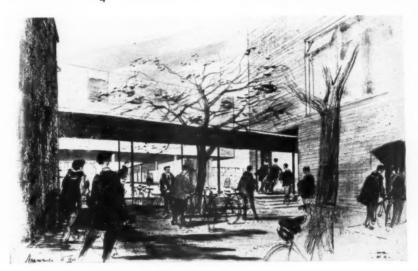
Sketch 5.—From this tree-shaded courtyard, with its atmosphere of activity, a few steps lead up to the Paved Platform.

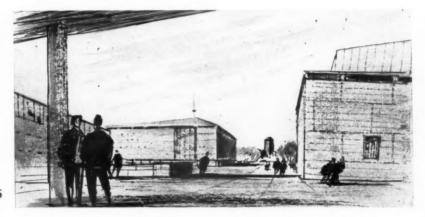
Water Square

Sketch 6.—On the Paved Platform the surface is hard to the feet and the atmosphere is formal and geometric. From here, at the centre of the site, you can look north over the Water Square towards the Library Tower. The character of the Square is more relaxed in form and larger in scale than the one just passed. The open spaces are more generous—appropriately, for here are 5 some of the largest buildings on the site. Alongside the path which skirts the pool, giant steps descend to the water's edge, facing the afternoon sun. On the other side of the path (right of sketch) marches a formal group of small trees. These are set in a cobbled floor to provide shelter for the parked cycles or the occasional car belonging to those using the building of the Faculty of History, which perhaps rises five storeys from the pavement. This could be the highest building on the site, for here the eye demands an assertive note to contrast with the flat and linear quality of the surrounding lawns, water, and pavement-a point of departure for the visual journey across West Road to the New Library, and a 6 preparation for the powerful scale of that building. Closing the fourth side of the Water Square (background in sketch) is the West Hall, treated (like the town hall in a city square) in architectural isolation, because of its functional and visual importance. The ground floor foyer is placed at water level, the wide windows allowing reflections from the sunlit water outside to weave their perpetually changing patterns across the ceiling.

Farewell Glance

Sketch 7.—As you reach the northern boundary of the site you can turn back and have this view. The History Building is on your left and—across the Water Square—the low building with 7 windows on to the pool is a cafeteria.









LEEDS

Part-Time Chair of Architecture at University

Leeds University Council has decided to establish a part-time chair in architecture in order to qualify for a bequest made in 1933 to endow such a chair. The council has yet to decide on the duties of the holder, who has yet to be appointed. It is stated by the University that the holder may well be a structural engineer. The term of the appointment will be limited to between three and five years. It is intended that the lectures given should be open to the members of the City of Leeds School of Architecture. tecture.

LIVERPOOL

New Policy at School of Architecture

Students at the Liverpool School of Architecture entering the advanced part of the course in the fourth year will be allowed to undertake specialist study and research. This was announced by Professor R. J. Gardner-Medwin at the beginning of the present sess.on. For the first term this year students

Above, the shopping centre on the King's Heath Neighbourhood, Northampton. The sixteen shops will serve a population of 5,000 living on a 527-acre site. The net density is 42.52 persons per acre. The standard shop has a frontage of 18 ft., a sales area of 396 sq. ft. and a store of 288 sq. ft. Over the shops there are 2 two-bedroom flats of 790 sq. ft. and 6 three-bedroom flats of 878 sq. ft. and 14 maisonettes of 792 sq. ft. Designed by J. L. Womersley, lately borough architect of Northampton; assisted by Geoffrey Hopkinson, lately deputy borough architect, H. J. Rymill, Ivan Morris and P. C. R. Bryan. The King's Heath Estate will be illustrated fully in a later issue of the

in the fifth year are to choose seminar courses in any two of the following fields of study:—Theory of civic design, theory of landscape design, structural engineering (in relation to architecture), building science, industrial design, workshop production, preservation and repair of ancient buildings, tropical building and housing. As Liverpool draws many students from Asian countries (there are six in the first and second years at present) the last subject will be of special interest. There are plans for developing tropical building and building science studies interest. There are plans for developing tropical building and building science studies as post-graduate work. The Liverpool School of Tropical Medicine is very interested in problems of tropical housing. The Faculties of Engineering and Science will work with the School of Architecture in building science studies.

MOHLG "

Re-sale Restrictions on Houses Lifted

Licences authorizing the construction of new houses or the conversion of existing premises into dwellings are now to be issued without any condition restricting the figure at which they may be sold or let, it was stated by the Minister of Housing and Local Government last week. From December 20, 1953, condilast week. From December 20, 1953, condi-tions as to the price and rental imposed in licences already issued and land charges created in accordance with Section 8 of the Act of 1945 will cease to be enforceable and entries in the Land Charges Register will accordingly be cancelled. The authoriza-tion does not affect premises subject to the Rent Restriction Acts.

IBC

Exhibition "Lost"

The exhibition of Contemporary Spanish Architecture which was to open at the Building Centre last Tuesday has had to be postponed as the material has not yet arrived in this country.

The entry for the competition for sea-front flats at Dover, illustrated on page 479 of the JOURNAL for October 15, was the work of B. W. Lamb and R. M. Welton, not B. W. Lamb and R. W. Wetton, as stated. The entry illustrated on page 481 was the work of Bruno Newton and Robert Purdew. The contribution of Colin St. John Wilson and Peter Carter to this scheme was of a purely advisory character. advisory character.

President's Inaugural Address and Presenta-tion of London Architecture Bronze Medal. At the RIBA, 66, Portland Place, W.I. 6 p.m. NOVEMBER 3

Indian Students Hostel: Criticism. Chairman, J. M. Richards; speaker, Ralph Tubbs. At the ICA, 17-18, Dover Street, W.1. 8.15

Round the Table. Exhibition at the Tea Centre, 22, Regent Street, S.W.1. (Sponsor: COID.) Weekdays, 10.30 a.m. to 6 p.m.; Saturdays, 12.30 p.m.

UNTIL NOVEMBER 20

Watercolours by Sir Hugh Casson. Exhibition at the AA, 36, Bedford Square, W.C.1. Weekdays, 10 a.m. to 6 p.m.; Saturdays, until 2 p.m.

UNTIL NOVEMBER 20





Designs for Bucklersbury House before and after the carrying out of refinements and improvements following criticisms by the RFAC. The design on the right came before the RFAC on October 14; it now has no further comments to make. The model will come before the Court of Common Council on November 19. (The architect is Owen Campbell-Jones.)

In 10 by th that and comp

taker in pr Gord

TH PA By Ke Wh besid

serve

help coun

it p

gard veni used origi tion this But nece app space whe

Ver Bro Uni with a fo

TH

It

In 1951 it was decided that since Paddington was so deplorably short of public open space the area bounded by the Regent's Canal, the arm to Paddington and Warwick Avenue, should be compulsorily purchased for that purpose and the buildings on it demolished. In view of objections raised, a public enquiry was held and plans showing what the Paddington Borough Council proposed to do with the space were shown. The compulsory purchase order was upheld and site clearance began. Artists' studios were among the buildings taken down. The site has now been cleared, marking pegs have been put in place and levelling is now in progress. What is happening? On the following pages Kenneth G. Browne, (who did the sketches), and Gordon Cullen show what might happen, and what they would prefer to happen, to this unique open space.

THE FUTURE OF PADDINGTON BASIN

nises

hout

ment ondi-

d in arges the

will

rizathe

nish

o be

ront

W

The

irely

ntadal.

p.m. ER 3

nair-

bbs. 8.15

ER 4

Tea

sor:

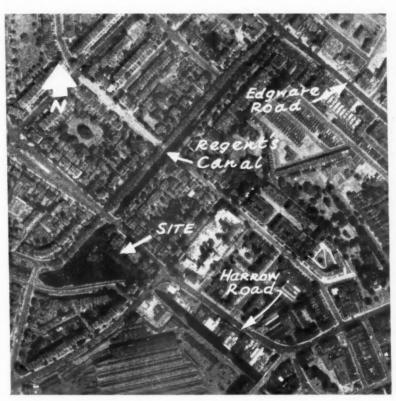
20

Exlare, lturBy Gordon Cullen and Kenneth G. Browne

While we are glad that the open space beside Paddington Basin is to be preserved and not built upon, we cannot help wondering how the borough council proposes to develop the site. Is it preparing a standard ornamental garden, complete with kiosk and convenience, or will some imagination be used? We understand that the scheme originally proposed by the borough council was on the lines of the illustration below, right. It is said that this scheme has been slightly revised. But more than a slight revision is This is quite the wrong approach to the planning of an open space which cannot be matched anywhere else in London.

THE TRUE CANAL SCENE

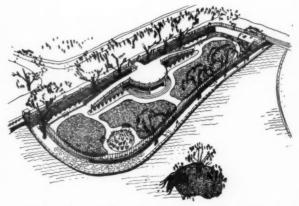
It is the true canal scene—"London's Venice," in the words of Robert Browning. At this point the Grand Union Canal widens out and the site, with its adjacent small island, is held in a fork where the canal divides; an arm



Aerial view of site.



A recent view showing the site cleared and levelled, ready for marking out.



A typical lay-out of the kind that Paddington Borough Council has had in mind for the site.

extends down to Paddington Basin, and the canal proper continues as the Regent's Canal. The scene is busy with the movement of barge traffic. Should such a site be rubber-stamped with the familiar paths, bedded flowers, shrubs and heavy, all-enclosing railings?

RESTORATION OF VITALITY

In built-up areas the presence of water is something to be prized not squandered. When, moreover, the water is "live", not purely ornamental, as in the case of a canal, there are additional attractions. A canal forms a visible link with all kinds of widely separated places, conjuring up pictures of the countryside through which it has passed, whilst the barge traffic provides an unhurried activity unusual and welcome to the town scene: an invitation to loiter.

The type of development we favour and illustrate on pages 539 and 540 would have as its main aim the restoration of vitality to Paddington Basin. Mooring and repair facilities should be provided for canal craft used for pleasure; the Basin should become a London centre for those who spend their spare time afloat on the canals of England. But the site would not be monopolized by the boating centre. It would provide just that degree of busy-ness, that "men at work "atmosphere, which Londoners find so conducive to lounging, watching and relaxing. (Incidentally, last summer two converted narrow boats, which were successfully operated on regular sightseeing canal cruises from this spot showed that the public would welcome such a scheme.) In addition the risk of drowning would be minimized (no small consideration in view of a recent accident); a proper quay, with attendant and moored boats, would be much safer than the present crumbling bank.

ARTISTS' STUDIOS

Apart from the quay, repair yard and ships' chandlers, the area would be planned with public sitting and strolling space and might have playground facilities for children. In addition, a block of artists' studios—with a north aspect and an entrance at road level—could replace those demolished in the site clearance. The flats that are now being built would serve to screen the site from the industrial area nearby.

It may be argued that this scheme would be more costly than a standard public garden. Certainly the initial outlay would be expensive, but the artists' studios, chandler's yard and pleasure-barge quay would bring in money, whereas the public garden alone would be a complete liability. Even if a scheme of this nature cannot be carried out immediately, whatever is done now should act as a foundation for eventual development on the lines we have suggested. We must not have just another rubber-stamp park.



Looking west from the towpath south of the site. Compare this with the view of 1849 on page 540.



The site from the west. The flagpole marks the island. In the foreground is a converted narrow boat now used for pleasure trips.



Looking from the bridge, at the north-west end of the site, towards Edgware Road.



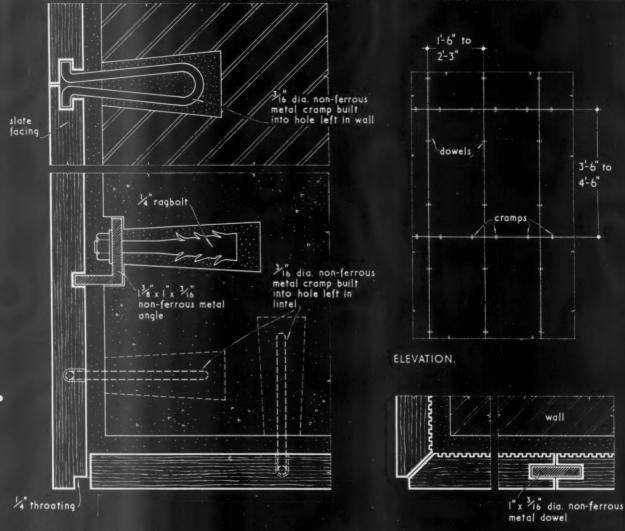
ad.



3-6" to 4-6"

STONE NATURAL SLATE

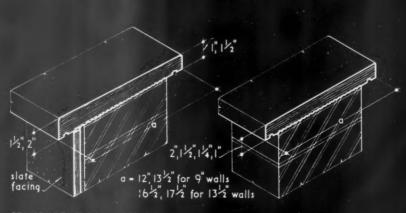
The Architects' Journal Library of Information Sheets 439. Editor: Cotterell Butler, A.R.I.B.A.



SECTION THRO' WALL AND SOFFIT.

SLATE FACING.





STANDARD SLATE COPINGS.



SLATE CREASING.

5.B1 · WINCILATE · SLATE FACING, COPINGS AND CREASING

This Sheet describes the use of slate for wall facing and illustrates standard copings and creasing. Sheet 24.Z1 describes Wincilate slate window sills and their use with various types of window.

Material

Slate is a particularly suitable material for facing walls as, unlike many other natural stones, it can be obtained in slabs only $\frac{3}{4}$ in. thick. It is chemically inert and non-porous and does not warp, shrink or rot, qualities which also recommend it for copings and creasings, as it reduces the need for damp-proofing.

Facing

Sizes of slabs: For ease of handling it is recommended that slabs should be from 3 ft. 6 in. to 4 ft. 6 in. long and 1 ft. 6 in. to 2 ft. 3 in. wide. Larger sizes may be obtained if required.

Fixing: The drawings on the face of the Sheet show the principles of fixing slate facings, although many design variations are possible.

The slabs are held by non-ferrous metal cramps, grouted into prepared holes in the supporting structure. The cramps are inserted at the horizontal joints in the slabs and in vertical joints where additional support is needed, as in the soffit detail shown in the drawing on the face of the Sheet. Vertical joints are otherwise supported and aligned by non-ferrous metal dowels as illustrated. After the slabs are secured, the space behind should be grouted with 1:3 cement/sand mortar to form a solid bedding. The backs of the slabs are scored to provide a key for the mortar.

Where the lower edge of the facing does not receive direct support from the structure, the lowest course of slabs should be supported by a non-ferrous metal angle, ragbolted into the wall. The drawing on the face of the Sheet shows this method of supporting slabs over an opening.

Soffit: On surfaces where the slabs are hung horizontally all joints should be amply supported by cramps.

Weathering: Where there is a set-back in the surface to be faced, the slabs should be bedded on the horizontal projection with a slight fall, to act as a weathering, the underside of the outer edge being provided with a 4-in. check throating where it is jointed to the vertical slabs below.

Standard Copings

The drawings on the face of the Sheet show the standard slate copings, which are available in lengths up to 7 ft., weathered or flat. A throating is provided under each long edge of all copings and the undersides are scored to provide a key for bedding.

Creasing

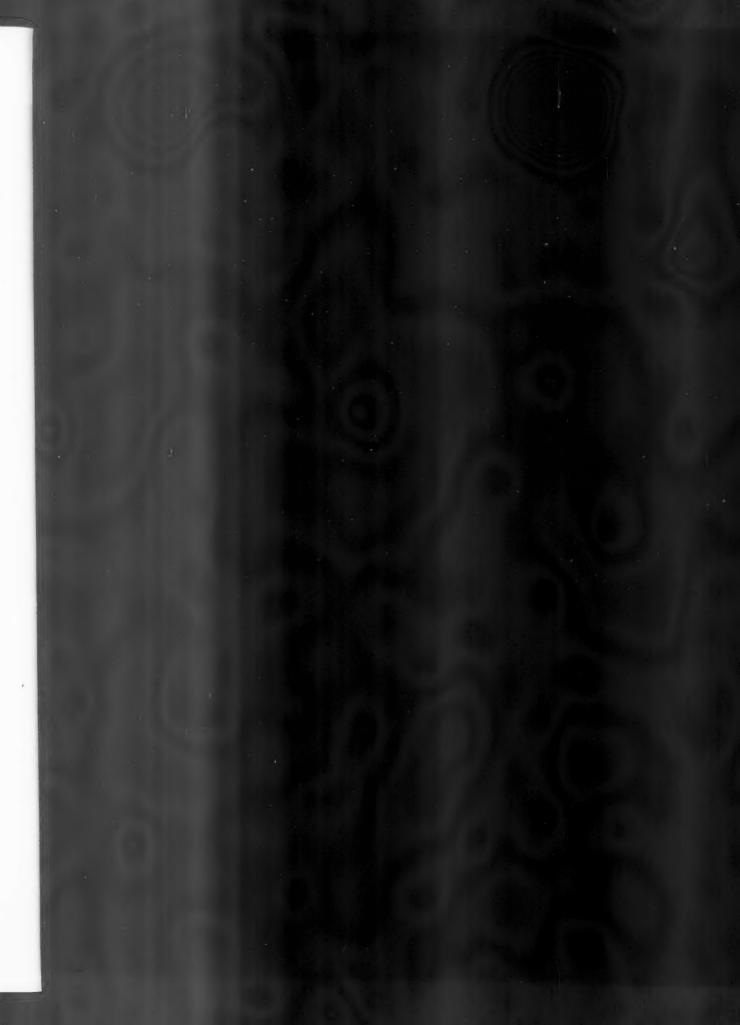
This is designed, as shown in the drawing, for setting $4\frac{1}{2}$ in. into the wall and the thickness of the front edge is $\frac{3}{4}$ in., so that it may be used with Wincilate slate sills.

Compiled from information supplied by:

The Bow Slate and Enamel Company Limited.

Address: British Railways Bow Depot, Old Ford Road, Bow, London, E.3.

Telephone: Advance 2203-5.





The Architects' Journal Library of Information Sheets 440. Editor: Cotterell Butler, A.R.I.B.A.

REVISED 29.10.53

RE			The state of the s				
-	for thermal or sound insulation	0.25	2 ¹ / ₂ (type 250) 4 ¹ / ₄ (type 425) 6 (type 600)	sizes within the limits 72 in, x 42 in.	1,12,2,2,2,5,3,3,2,4	glass wool mat lightly bonded with resin: made in three densities	resin-bonded semi-rigid slab
	as for bitumen-bonded mat	0.25	3	rolls: 10 yd. long x 1yd. wide	2/4	bitumen-bonded mat enclosed in treated kraft paper	bitumen quilt
tion, Antonia.	for thermal insulation of walls, ceilings and floors in both prefabricated and traditional constructions: for sound insulation in concrete floating floors	0.25	3	rolls: 10 yd. long x 33 in., 36 in., 42 in., 48 in. wide or cut to suit joist spacing	- 1	glass wool mat lightly bonded with bitumen	bitumen- bonded mat
Cotteren Bu	for cavity packing	0.26	3	bags: 14 lb, 28 lb. bales: about 36 lb.	1	glass fibres in loose form	loose wool
	for thermal insulation of roof spaces and attics: material laid between joists	0.30	-72	rolls: 6 yd. long x 12 in., 14 in., 16 in., 18 in. wide	4	mat of felted glass wool fibres	house insulation
and the second second	as for quilt, light (for hospitals and places where a high degree of sound insulation is necessary)	0.25	s)	rolls: 10 yd. long x 1 yd. wide	7.7	as for quilt, light	heavy
	as for quilt, light (for hotels, schools, institutes etc.)	0.25	. 2	rolls: 15 yd. long x 1 yd. wide		as for quilt, light	medium
	for sound insulation of floors, walls, partitions and ceilings	0.25	S .	rolls: 15 yd. long x 1yd. wide	~1/4	glass wool mat stitched between treated kraft paper	quilt, light
	APPLICATIONS	thermal conduct- ivity B.Th.U./ sq.ft/hr/	nominal density 1b/cu.ft.	STOCK SIZES OR QUANTITIES	nominal thickness inches (uncom- pressed)	DESCRIPTION	TYPE

Manufacturer: Fibreglass Limited.

FIBREGLASS- INSULATING MATERIALS.

8.E1 ·FIBREGLASS· INSULATING MATERIALS

This Sheet supersedes Sheet 8.E1 published 24.1.52. It describes the general properties of Fibreglass insulating material. The table on the face summarises the primary characteristics of the various forms in which the material is available.

Material

Fibreglass consists of glass drawn into flexible fibres and is entirely inorganic, non-hygroscopic, unaffected by moisture and will not rot or cause corrosion of any surface with which it may come in contact. It offers no sustenance to vermin and is non-inflammable.

Thermal Conductivity

National Physical Laboratory tests have been carried out on this material. The thermal conductivity figures quoted on the face of the Sheet are based on these tests. Copies of the actual reports may be obtained from the manufacturer.

Applications

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

Trade Name

The word 'Fibreglass' is a trade mark.

Compiled from information supplied by:

Fibreglass Ltd.

reglass Ltd.

Head Office: Ravenhead, St. Helens, Lancs.
Telephone: St. Helens 4224.
Telegrams: Fibreglass, St. Helens.
London Office: 63-65, Piccadilly, W.1.
Telephone: Hyde Park 2115.
Telegrams: Fibreglass, Piccy, London.
Glasgow Office: 136, Renfield Street, Glasgow, C.2.
Telephone: Douglas 2687.
Telegrams: Fibreglass, Glasgow

Telegrams: Fibreglass, Glasgow.

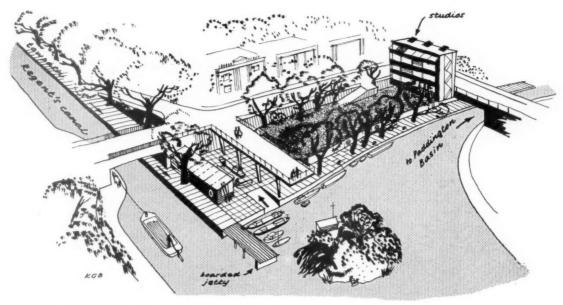
Manchester Office: 11, Piccadilly, Manchester, 1.

Telephone: Blackfriars 8863.

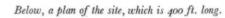
Birmingham Office: Piccadilly Arcade, New Street, Birmingham, 2.

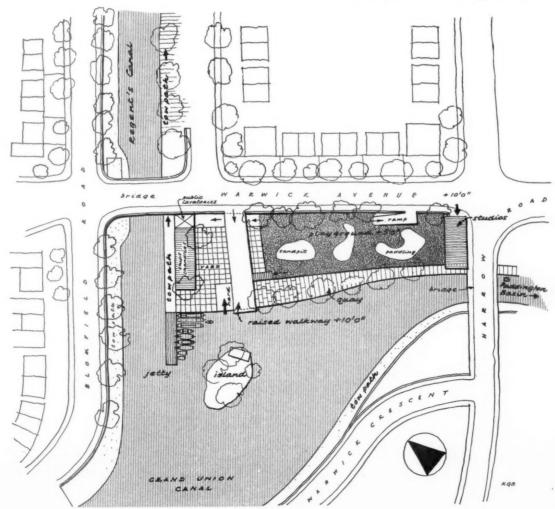
Telephone: Midland 0464.

Newcastle Office: 16, Dean Street, Newcastle-upon-Tyne.
Telephone: Newcastle 20938.
Dublin Office: 21, Merrion Square North, Dublin.
Telephone: Dublin 67060.



Above, a view of the site from the west, with suggested treatment.







The proposed layout, looking north-west, showing the raised walkway connected to the road, and the narrow-boat moorings.

roce her sug

Below, pleasure canal boats sketched at Paddington basin in 1849. (Reproduced from the Illustrated London News.)



ASSEMBLY HALL

at SECONDARY SCHOOL, HEADSTONE LANE, HARROW, MIDDLESEX designed by JOHN and ELIZABETH EASTWICK-FIELD, assistant architect, A. BAYNES

in collaboration with C. G. STILLMAN, county architect

consulting structural engineer, F. J. SAMUELY, quantity surveyors, CRUMP and TRINICK

The Blackwell school was designed originally as a comprehensive secondary school, but while under construction it was changed to a secondary modern school for 900 pupils. The classrooms, practical rooms and dining rooms were occupied before the assembly hall and administrative block, illustrated here, were begun. The brief given to the private architects for these phase II buildings included the suggestion that the assembly hall, administration block and gymnasia (not illustrated here) should be designed to act as a foil to the standard construction of classrooms and to add variety to the scheme.

raised rings.

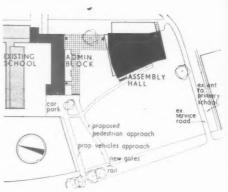
The assembly hall from the south.



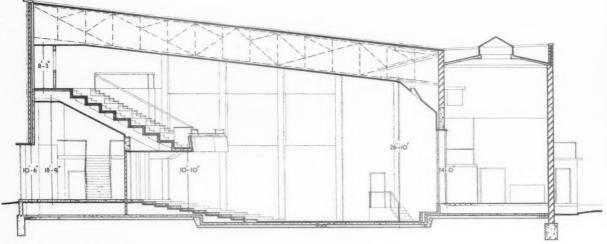
ASSEMBLY HALL

at SECONDARY SCHOOL, HARROW, MIDDLESEX designed by JOHN and ELIZABETH EASTWICK-FIELD

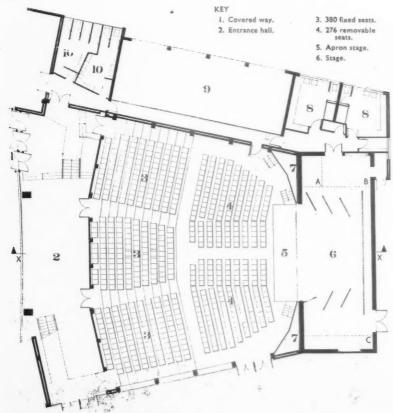
CONSTRUCTION.—Walls of load-bearing brickwork, piers in Staffordshire blue engineering bricks. The side wall piers are post-tensioned with two high tensile steel rods running in tubes through the centre of each pier. This was done to avoid the use of sectional steel or concrete requiring shuttering, and to keep the piers slender. They are 18 in. by 13½ in. by about 35 ft. high. Tensioning was carried out by the Lee McCall system and is thought to be the first instance of post-tensioning of brick piers. The balcony consists of r.c. beams spanning



Site plan

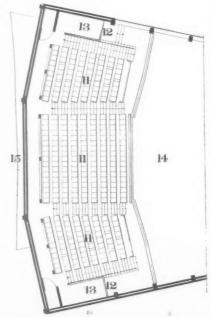


Section X-X [Scale: #" = 1'0"]



- Ground floor plan [Scale: 4" = 1' 0"]

- A. Lighting platform over.
- B. Fan chamber over.
- C. Fly gallery over.
- 7. Sliding panels.
- 8. Dressing room.
- 9. Cycle store.
- 10. Lavatories.
- 11. 303 fixed seats.
- 12. Exit.
- 13. Platform over exit
- 14. Auditorium under.
- 15. Line of canopy.



Balcony plan

the hall. cons deck run ther

> Floo and and hall peri pan

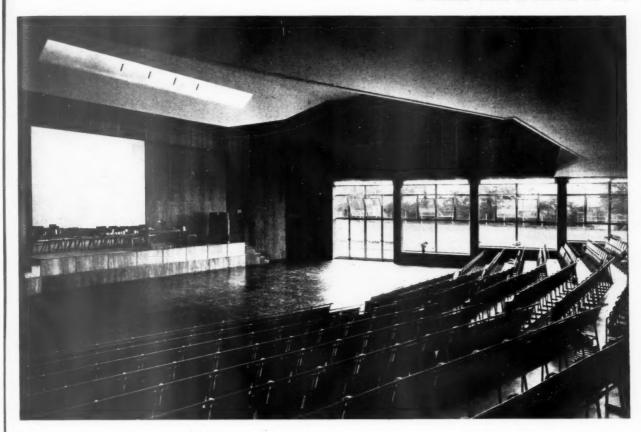
stag plas

FIN

GE tec bri roo cor

> up 50 ap

fol



the vestibule and cantilevered over the rear of the hall. The stage roof is of in situ r.c. stressed skin construction. The hall roof is of strawboard decking carried on steel trusses. Two main trusses run parallel from front to back of the hall and there are secondary trusses at right-angles to these.

FINISHES.—Facing bricks are London stocks. Floor finishes: linoleum stuck to screed in vestibule and stepped part of hall floor, muhuhu hardwood blocks on flat hall floor, parana fine strips on stage and granolithic in cloakrooms. Side walls of the hall are finished 1-in. woodwool, rear walls \(\frac{1}{2}\)-in. perforated fibreboard tiles, proscenium opening panels of \(\frac{1}{2}\)-in. elm veneer plywood, cellulosed, stage walls are fair-faced brickwork. Ceilings are plastered. Windows are purpose-made steel.

GENERAL.—As steel was scarce when the architects started work they decided to use load-bearing brickwork combined with precast r.c. floors and roofs. The only steelwork used is in the roof construction of the assembly hall. The architects were told that the hall would probably be used as follows. In school hours:— for morning assembly of up to 1,100 pupils and staff, for group activities of 50 to 100 pupils for 2 or 3 hours per day, for films on approximately 10 occasions per year and for dress

rehearsals on about 10 occasions per year. In the evenings: by the school for clubs and societies, frequently, for school plays and films for parents on about 12 evenings per year and for inter-school competitions and festivals on another 12 occasions. Also in evenings by the public for plays, music, dancing and meetings on 30 occasions per year and also for meetings, whist drives, rehearsals, etc., attended by members of local societies. It was known at the outset that the school would specialize in drama, music and dancing, and it was considered important to meet as nearly as possible the often conflicting requirements of these activities.

DESIGN.—The conception of the hall was based largely on the following three principles:

(I) Where as many as 960 seats have to be provided in a school hall, it is essential to have ramped seats for at least half this number if all the audience are to be able to see and hear properly what is going on at the front of the hall. (2) A flat area of 1,800 sq. ft. is sufficient for dancing and free activity for one or two classes during teaching periods, and the rear part of the ground floor may therefore be ramped. (3) A wedge-shaped plan and the inclusion of a balcony enable the farthest seats to be kept within a reasonable distance from the stage, but if a formal stage arrangement is to be used at any time, excessive





Top, auditorium looking towards the stage. Above, two views of the entrance hall.









Top, from the north-west; on the left the covered way linking assembly hall and administration block. Centre, roof terrace over ground floor cycle stores and cloakrooms on east side of assembly hall. Above, school dramatics, using the portable stage boxes. Left, free movement taking place on the level area in front of the stage. Floor heating coils are used in the hall and vestibule and the whole of the roof space acts as a ventilating duct. There is a fan chamber over the stage.

width is a disadvantage, particularly near the front, and the shape must be fairly symmetrical.

Care was taken to plan the hall in such a way as to enable it to be filled and emptied quickly; in particular the staircases were arranged so as to lead to the front and lower part of the balcony rather than to the back of it, so as to avoid lengthy staircases. On the steppings a fixed tip-up chair was used. There was then no light and cheap tip-up chair on the market and a new pattern was specially designed by the architects, in collaboration with the manufacturers.

Sliding wooden screens conceal the stage, but leave an ample forestage. These screens not only provide a hard reflecting background for speech and

music, but also give a more satisfactory appearance than an empty stage or drawn curtains. The steppings are raised enough to allow most of the flat part of the floor to be seen from the seats. A display of dancing, for instance, could be held on this floor in front of the closed proscenium doors. Boxes are provided, which can be arranged in a number of different ways for formal or informal drama, or for making a temporary stage for concerts.

THE STAGE.—The architects received valuable help in the detailed design of the stage, including stage scenery and lighting, from the Planning Advice Department of the Arts Council of Great Britain. The stage, including the wings, is 20 ft. deep and 56 ft. in width and the proscenium opening 28 ft. wide and 14 ft. high. The stage is 26 ft. 6 in. high. This height is insufficient for flying all the scenery, but it does allow the scenery and lighting to be hung from a grid, and borders to be flown.

STAGE LIGHTING.—The stage, although designed to the minimum dimensions recommended by amateur drama specialists, is nevertheless large compared with stages of most other schools, and the cost of providing what is considered a useful but minimum amount of stage lighting equipment is in the region of £600. It was decided therefore to provide under the contract only a switchboard and wiring, leaving the school to buy the actual fittings.

Sect

Sec

Abo

seen

una

ACOUSTICS.—Hope Bagenal was consulted on the acoustic treatment of the interior of the hall. The ultimate choice of a wedge-shaped—rather than rectangular—plan meant that more absorbents than usual were required to avoid return-focusing of sound waves in the front of the hall. It resulted in a fairly low reverberation time. This, however, was not a disadvantage, since in a school hall it is better to have a low reverberation time which enables speech to be heard clearly, than a longer reverberation time which would give music more singing tone, but would make speech less intelligible.

In contrast with most theatres, which have walls unpierced by windows, surfaces broken up by tiers, boxes and mouldings, upholstered chairs and thickly carpeted floors, it was difficult in this hall to find sufficient wall space for the required acoustic absorbents. It was decided therefore to use materials of high absorbing capacity on the side and rear walls, and to make the ceiling and panels beside the stage, hard reflectors. The side walls are panelled in 1 in. woodwool slabs nailed to 3 in. by 1 in. battens fixed to the brickwork, and the rear walls are finished

ASSEMBLY HALL

at SECONDARY SCHOOL,
HARROW, MIDDLESEX
designed by JOHN and
ELIZABETH EASTWICK-

FIELD

1545

earance
The
of the
e seats.
held on
n doors.
ed in a
l drama,
oncerts.

valuable cluding Advice Britain. eep and g 28 ft. n. high. scenery, see hung

designed amateur mpared cost of inimum e region e under leaving

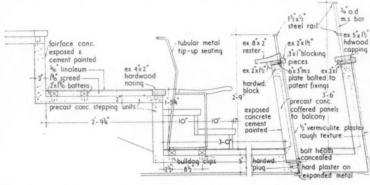
I on the

I. The
er than
that than
using of
ulted in
ver, was
as better
as speech
on time
ne, but

we walls
by tiers,
thickly
to find
acoustic
materials
ar walls,
se stage,
elled in
battens
finished

facings 2nd stock side cols post tensioned (Staff. blues) bottom chord of main girder ceiling cross bearers balcony raker splayed ends begins to raker beams air extract grilles plaster on lath on l'channel framing BALCONY bricks red end bricks Staff. blues plaster on lath on channel framing fibrous plaster balcony raker beamsair circulation grilles oir circulation grilles Staff, blue brick col. ENTRANCE HALL AUDITORIUM fir heating coils centre line of balcony?

Section on centre line and plan A-A of underside of balcony [Scale: 12" = 1'0"]





Section through steppings, seating and balcony front, and, on right, front at gangways $\{scale: \frac{1}{2}^n=l'\ 0^n\}$

Above right, the auditorium seen from the stage. Below, the underside of the balcony under construction. Below right, r.c. beams which carry the precast concrete stepping units, seen extreme right.

with perforated fibreboard tiles stuck direct to the brickwork. The balcony front is plastered in vermiculite plaster, and like the rear walls, it is shaped in such a way as to prevent the concentration of returning sound waves to the front of the hall.

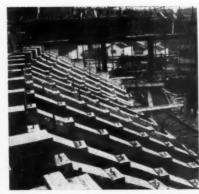
The calculated reverberation times, with a full

audience, are as follows:

Frequency c.p.s.	125	500	2000	4000
RT in seconds	1:35	0.0	0.85	0.8

LICENSING.—The hall has been designed so as to meet the requirements of the entertainments









Left, the entrance hall of the administration block. The light fitting and the ceiling design in dark red, yellow and greygreen were designed by the architects. Below, the covered way which links the assembly hall to the administration block.

ASSEMBLY HALL

at SECONDARY SCHOOL, HARROW, MIDDLESEX
designed by JOHN and ELIZABETH
EASTWICK-FIELD

licensing section of the County Engineer's Department, for the issue of an annual music dancing licence and an occasional stage play licence. These requirements are mainly concerned with the layout of seating and the dimensions of steppings and gangways, the width and provision of exits, emergency lighting and exit signs, the design of electrical

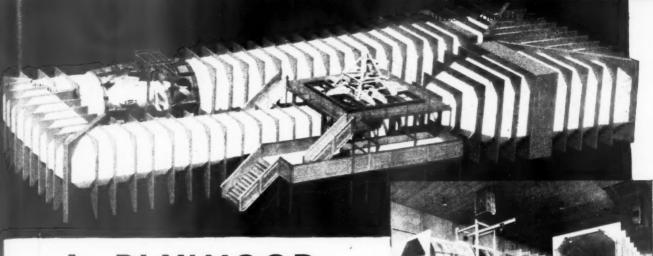
and ventilating equipment and the provision of fire appliances.

General contractors, Anglo-Scottish Construction Co, Ltd. For sub-contractors, see page 552.



trance minis-The nd the n dark l grey-ssigned intects. overed ks the to the block.





A PLYWOOD WIND-TUNNEL

The wind-tunnel at the College of Aeronautics, Cranfield, covers a floor area of 7,500 sq. ft. and its circuit length is 300 ft.; the main section is large enough to admit a double-decker 'bus, and the cross section is chiefly octagonal although it changes to circular at one part.

Since the size is so great as to make it impossible to photograph the whole installation, the above illustration is taken from a scale model.

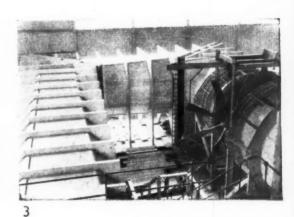
The other views show: (2) the partly built tunnel, with transition from circular to octagonal shape; (3) a corner, showing part of the tunnel completed; (4) looking along the aligned frames before the walls were fitted.

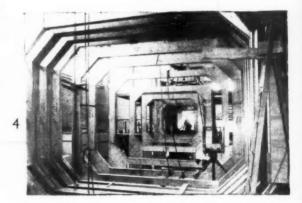
Flexoply $1\frac{1}{2}$ -inch laminated packings were bolted to the alloy frames and to these packings were screwed Flexo [1-ply shell panels, beech-mahogany-beech, a total of 1-inch thick. The accuracy demanded was such that all frames were set up by theodolite, and the coarsest tolerance in this 300ft. long structure was plus or minus $\frac{1}{8}$ in.

Much of the plywood had to be moulded in order to effect the transitions in cross-section, nearly 12,000 sq. ft. of Flexo ply-wood, weighing more than 20 tons, were used, and secured by more than 50,000 screws.

In laminating the Flexo plywood, $2\frac{1}{2}$ tons of 'Beetle' adhesives were used, and the illustrations are reproduced by permission of the Ministry of Works.

Ministry of Works photographs; Crown copyright reserved.





月上三〇

NDUSTRES

FLEXO PLYWOOD INDUSTRIES LTD., SOUTH CHINGFORD, LONDON, E.4.

xlvii

Telephone: Silverthorn 2666 (7 lines)

(Associated with Cork Manufacturing Co. Ltd.)



Forodo Stairtreads at Bentalls' Kingston-on-Thames

In any setting



Waltham Cross.
Flooring Contractors: Semiex Ltd.
Architect: Howard Leicester F.R.I.B.A.

Lea Valley Growers Association,

FERODO Stairtreads

are unobtrusively safe ...

BUILDING TRADES
EXHIBITION—OLYMPIA
November 18th—December 2nd.
STAND 55

Ferodo Stairtreads obey the dictum that governs all ready-made fittings which must take their place in an overall design—they are completely functional yet merge into their surroundings.

Never do they intrude . . . Never do they jar the eye.

The only obvious thing about them is the high degree of safety they provide; a firm, reassuring foothold, edged with the quiet gleam of the aluminium nosing, gently indicating the edge of the step.

Ferodo Stairtreads wear so well too, standing up to years of continual use and needing only a quick wash or brush down to look as if they had been fitted the day before. Send for samples and a copy of our Stairtread Catalogue No. 888.

TWO NEW COLOURS

In addition to red, green, grey, blue and white composition and brown fabric, Ferodo Stairtreads are now available in black and brown compositions.

FERODO non-slip Stairtreads

FERODO LIMITED · CHAPEL-EN-LE-FRITH · A Member of the Turner & Newall Organisation xlviii

TECHNICAL SECTION

Once again the UK has demonstrated its unwillingness to participate fully in the work of the UNO (Economic Commission for Europe) Housing Sub-The recent session of the sub-committee, held in Geneva, was noteworthy for the attendance of delegates from 21 European countries, including the USSR, Poland, Roumania, Yugoslavia and Hungary, yet the UK was not represented.

This is particularly regrettable in view of the excellent contributions which the UK has, on various occasions in the past, made towards the work of the sub-committee-contributions which have frequently earned us tributes from other delegations.

At the session referred to, the sub-committee adopted a programme of work for its three working parties—on the Development of Housing Policy; the Cost of Building; and Housing and Buildings Statistics—and an important discussion took place on the subject of rent policy. Practically every delegation took part in this discussion, and a set of conclusions were drawn up and adopted.*

This is a subject which has been much studied and argued about in the UK and it is, therefore, most unfortunate that there were no UK delegates present. Their contributions to the discussion would have been extremely welcome and valuable, and if they could have taught more than they could have learnt, this would have been all the more reason for attending.

8 ESTIMATING materials' prices

week's This special feature

ch must

rge into

; a firm,

, gently

needing

ads

rganisation

Current prices for measured work will appear on Nov. 19. Prices of materials and measured work last appeared in the Journal on Aug. 6 and Aug. 20, 1953, respectively.

Current rates of wages and market prices of materials prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors. for measured work will be published in the JOURNAL for Nov. 19. The most recent of Professor Bowen's analyses of fluctuations in the prices of building materials appeared on April 23.

Rates of Wages last rose on February 2, 1953 and are now as follows:-

LONDON DISTRICT		Craftsmen	Labourers
Within 12 miles radius		3s. 8d.	3s. 2½d
From 12-15 ,, ,,		3s. $7\frac{1}{2}$ d.	3s. 2d.
LIVERPOOL and DISTRICT		3s. 8d.	3s. $2\frac{1}{2}d$.
GRADE CLASSIFICATIONS A	A^1	A ²	A ³
Craftsmen 3s. $6\frac{1}{2}$ d.	3s. 6d.	3s. 5½d.	3s. 5d.
Labourers 3s. 1d.	3s. 0½d.	3s. 0d.	2s. $11\frac{1}{2}d$.
		(annelm.	ad on mana 640)

(continued on page 548)

^{*} A summary of these conclusions will appear in next week's JOURNAL.



Here's the secret

"INSULIGHT" Double-Glazing Units are the practical answer to a big problem in heat conservation - namely, heat losses through window glazing.

They combine the functions of both window and thermal insulator. Each unit consists of two panes of glass separated by a hermetically sealed cell of dry air. The double glass, with the air-space between, reduces heat losses by as much as 50%.

'INSULIGHT'

double - glazing units

Consult the Technical Sales and Service Department at St. Helens, Lancs., or Selwyn House, Cleveland Row, St. James's, London, S.W.I. Telephones: St. Helens 4001; Whitehall 5672-6. Supplies are available through the usual trade channels. "INSULIGHT" is the British registered trade mark of Pilkington Brothers Ltd.

SPECIAL NOTE

Make sure that your frames are of sufficient width. Details can readily be obtained from Pilkington Brothers Ltd., or your window frame manufacturer.

"INSULIGHT" Double-Glazing Units are relatively less expensive when bought in large pane sizes.

PILKINGTON BROTHERS LIMITED

ST. HELENS, LANCS.



Prices Those

CONC

Portlar Rapid Alumi Abo paper

Floor

Home mi Extra

BR

Bel

Prices vary according to quality and the quantity ordered.

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

CONCRETOR

Portland to B.S. 12, 6 tons and over	per ton	95/-
Rapid hardening to B.S. 12, 6 tons and over	99	103/-
Aquacrete water repellant, 6 tons and over	99	127/6
Aluminous to B.S. 915, 1 ton lots	29	299/6
Snowcrete, 1 ton lots	99	255/6

Above prices include for delivery to Charing Cross in non-returnable paper bags or cotton sacks.

Aggregate and Sands, etc. (Full Loads)

to B.S. 882, Table 2	nd gra	ded sh		per yard cub	e 18/3
11" Ditto		****		,,,	17/3
4" Sharp washed sand to B.	S. 882	Table		22	20/10
Brick hardcore			****	22	9/6
(For Sands for Bricklayin	g and	Plaste	ring, se	e respective	trades)

Floor Blocks

			4"	6"	7"
Floor blocks, 12" ×	12"	per 1,000	693/-	936/-	1,081/-

Reinforcement

r and	upward	s, ex	per ton	£32	18	0
	****	****	22	£1	7	0
eter	****		99	£1	14	6
	****		0.9	£2	2	0
****	***		29	£2	9	6
	****	****	**	£2	17	0
	****		22	£3	4	6
			22	£3	12	0
****	****	***	**	£5	2	0
	r and to sidin	r and upward	eter	eter	r and upwards, ex : siding per ton £32 , £1 , £1 , £2 , £2 , £2 , £2 , £2 , £2 , £2 , £2 , £3	r and upwards, ex r siding per ton £32 18 £1 7 eter , £1 7 eter , £2 2 , £2 9 , £2 17 , £2 17 , £2 17 , £3 4

Fabric Reinforcement

	16.35 lb.	9.32 lb.	4.71 lb.	1.83 lb.
Steel wire mesh fabric to B.S.				
1221, Part A, per yd. super	7/91	4/6	2/33	1/61

BRICKLAYER

			Com	non Br	icks			
Third stocks		****	****	****	****	pe	r 1,000	127/4
Rough stocks	****	****	****		****	****	99	163/4
Mild stocks	****	****	****	****	****	****	99	207/10
Sand limes Phorpres pres	and I	Moddomo		0 + = 0		****	99	$\frac{110}{6}$ $\frac{110}{-}$
Belgian	sea 1	riettons			****	****	99	$\frac{110}{-}$
neikien	****	****	****			****	29	212/0

Facing Bricks

Hand-selected sand limes		****]	per 1,000	145/9
Phorpres rustic Flettons	****	****			**	135/-
Stocks, first hard	****	****	****		**	254/10
Stocks, second hard		****		****	29	238/10
Southwater pressed sandfa	aced re	ds			**	285/-
Dorking pressed sandfaced	d multi	icoloure	d facir	igs	9.9	239/6

Engineering Bricks

Lingfield engineering wirecuts. Grade 'B' Southwater engineering No. 2 (second quality		per 1,000	218/6
pressed)		99	282/6
Blue pressed bricks to B.S. 1301	****	22	501/-

Glazed Bricks

White, Ivory	or Br	own (o" v 6)7" v	41" delix	harar		Be	est q	uali	dy.
London st			0 ^ 4	-8 ^	as denv	crea			£	8.	d.
Headers	****	****		****	****	****	per	1,000	63	0	0
Stretchers Seconds qua	lity,	above	price	s less		****		,,	64	0	0

BRICKLAYER (continued)

The Architects' Journal for October 29, 1953

Limes and Sands

†Lime, greystone, to B.S. 890	****	****	per ton	1 ton lots 110/6
†Lime, chalk, ditto	****		99	110/6
*Lime, hydrated, ditto	****	****	99	123/-
Washed pit sand to B.S. 1200	****	****	per yardcube	20/10

 Including paper bags.
 Hire of jute sacks charged at 1/6 and credited at 1/6. If left, charged at 1/9.

Sundries

10 s.w. gauge galvanized butterfly type wall ties to	
B.S. 1243 per 1,000 85/6	
Wall ties, galvanized, $8'' \times \frac{3}{4}'' \times \frac{1}{8}''$, to B.S. 1243 per cwt. 85/-	
Damp proof course slates: Imported Welsh	
Size 14" × 9" per 100 43/- 77/-	
", $14'' \times 4\frac{1}{2}''$ ", $21/ 34/6$	
Hessian base bitumen damp course to B.S.	
743 per yard super 5/1	
$9'' \times 3'' 9'' \times 6'' 9'' \times 9''$	P
Terra-cotta airbricks each 1/3 2/6 6/-	
Galvanized cast-iron airbricks , 3/2 5/3 7/10	
Galvanized cast-iron hit-and-miss	
ventilators ,, 3/1 6/1 7/10	
Wall reinforcement supplied in standard rolls containing 25 yards line	al
+ 9" wide black is namped	

† 2" wide black japanned per roll 3/4 † $2\frac{1}{2}$ " wide black japanned 4/2 † Greater widths pro rata $2\frac{1}{2}$ " price, carriage paid on orders of £7. Discount for quantities.

Partitions, etc.

	2"	21"	3"	4"	
Clinker concrete, solid to B.S. 492 per yard super	3/5	4/-	4/8	5/10	
Hollow clay to B.S.	0/0		1/0	0/10	
1190 (keyed) ,,	4/3	4/6	5/-	_	
Moler (keyed)	13/-	13/9	14/6	17/6	
Building blocks (keyed) :-	,	,	,	,	4"
6 cavity	****	per v	ard su	per	6/7
Normal quality mandmant alaba		1" 11"	2"	21"	3"
Minimum delivery, square yards,	Ę	500 400	325	275	250
nor rid curor		5/- 6/6	8/-	9/2	10/3

PAVIOR

2" coarse gravel for paths per yard cube	22/3
1" fine ditto	23/9
Clean granite chippings to B.S. 1201, Table 4	,
(in 5-ton loads) per ton	44/9
Red quarry tiles $6'' \times 6'' \times 7''$, to B.S. 1286 per yard super	13/3
Ditto $6'' \times 6'' \times \frac{6}{8}''$, to B.S. 1286	11/-
Buff quarry tiles, $6'' \times 6'' \times \frac{7}{4}$, to B.S. 1286	16/6
Ditto $6'' \times 6'' \times \frac{5}{4}''$, to B.S. 1286	14/-
Hard red paving bricks, 2" per 1,000	452/6
Ditto 1½" ,,	427/6

DRAINLAYER

Clay Land Drain Pipes to B.S. 1196

				3"	4"	6"
Pipes in 12" lengths	****	****	per 1,000	199/-	261/-	541/-

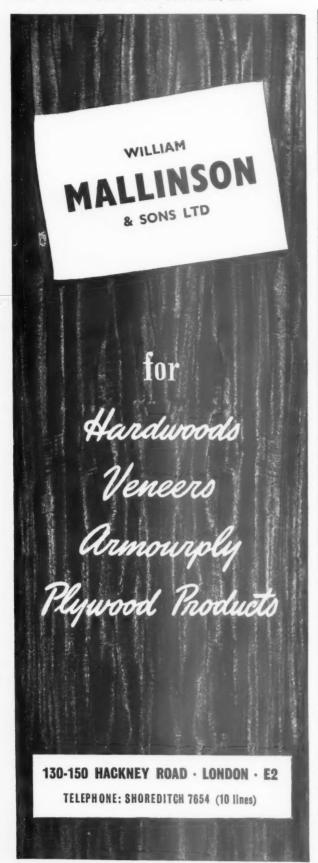
Salt Glazed Stoneware Pipes and Fittings

The following percentages to be added to the Standard List prices.

	Orders for 2 tons and over	Orders under 2 tons 100 pieces upwards	Orders under 2 tons less than 100 pieces
Seconds Quality	67½% less 15%	971% less 15%	107½% less 15%
Best Quality	671%	971%	1071%
British Standard Quality	671% + 10%	$97\frac{1}{2}\% + 10\%$	$107\frac{1}{2}\% + 10\%$
Tested Quality			
British Standard Tested	$67\frac{1}{2}\% + 47\frac{1}{2}\%$	$97\frac{1}{2}\% + 47\frac{1}{2}\%$	$107\frac{1}{2}\% + 47\frac{1}{2}\%$

Cast Iron Drain Pipes and Fittings

Sock	et and	spigot p	ipes to	B.S. 43	7:			
		per 9 ft.		9 fts.	6 fts.	4 fts.	3 fts.	2 fts.
1	1	17	4"	60/3	43/10	34/5	26/4	21/1
2	0	1	6"	89/6	69/-	54/4	43/4	32 6
3	3	21	9"	164/-	137/6	115/9	88/10	

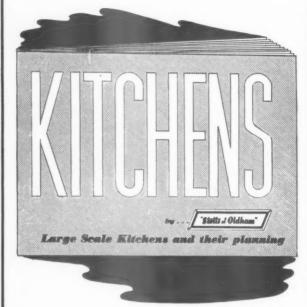


BUILDING EXHIBITION · OLYMPIA · NOV 18 - DEC 2

See our Exhibit on STAND 100 · ROW E

Are you planning LARGE SCALE CATERING?

Then you need this Free Booklet



This 28-page booklet is a complete step-by-step guide to planning and equipping large-scale kitchens for schools, hospitals, hotels, restaurants, industrial and institutional canteens. Send now for your copy (ref. no. AA.33) to be sent free of charge and remember that our Advisory and Planning Departments are always at your service.



JAMES STOTT & CO. (ENGINEERS) LTD., Vernon Works, Oldham, Lancs.

DRAINI

Toni

*Bends (
*Single j
*Intercep
*Gullies
*Extra f

Standard ware pip

• The

Order

C.I. coa and f 497, C C.I. co frame Grade

Coated B.S. Galvan Coated B.S. Galvan

MASO

Blocks
Add for
Temple
to 4
Temple

Price per

Monk' St. Ale Delive

Whith Delive

4½" × groce 9" × 2" ×

3" × 5" × 6" ×

SLA

20"

DRAINLAYER (continued)

Tonnage Allowances :-

Orders up to 2 tons nett.

	4"	6"	9"
*Bends (short radius) as Fig. No. 4 each	6/3	13/-	40/-
*Single junctions as Fig. No. 18 ,,	11/-	22/6	69/-
*Intercepting traps as Fig. No. 33 ,,	30/-	50/-	123/-
*Gullies ordinary trapped "P" ,,	14/6		
*Extra for 4" vertical back inlet ,,	4/3		
*Grease gully trap ,,	121/-		
• These prices are subject to 1211% plu	ısage.		

Channels in Brown Glazed Ware.

Standard list + same discounts as "Best" quality salt-glazed Stoneware pipes.

White Glazed Channels

Orders under £30, makers list value. Standard list + 10%.

Manhole covers and frames

	Size of load	Unit price
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A each C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497,	35 tons	175/5
Grade B each	5 tons	93/5
Size of load		Double seal Flat type
Coated manhole cover and frame to B.S. 497, Grade C, $24'' \times 18''$ each 1 ton	32/-	45/8
Galvanised ditto, 24" × 18" each 1 ton	57/6	80/9
Coated manhole cover and frame, to B.S. 497, Grade C, $24'' \times 24''$ each 1 ton	48/11	73/-
Galvanised ditto, $24'' \times 24''$ each 1 ton	89/2	126/6

MASON

guide ools,

ional to be

y and

vice.

Lancs.

Yorkstone	
Building quality Robin Hood and Woodkirk Blue St	one.
Blocks scrappled, random sizes per foot cube	11/4
Add for blocks to dimension sizes ,,	1/4 (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) ,,	12/8
Templates with sawn beds, sawn one edge, ,,	14/8
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads)	57/2
Bath stone in random blocks	
Monk's Park per foot cube	6/8
St. Aldhelm Box Ground ,,	7/8
Delivered on rail at South Lambeth station.	
Portland stone in random blocks, average 20 feet cu	be
Whitbed per foot cube	7/5

Artificial Stone to B.S. 1217

$4\frac{1}{2}'' \times 4''$ Sill, sunk, w	reather	red, th	hroate	d and	:	
			****	****	per foot run	3/-
9" × 3" Ditto			****		99	4/6
$2'' \times 12''$ Coping,	weath	nered	and	twice		
throated				****	99	4/-
3" × 12" Ditto				****	#7	6/-
$5'' \times 12''$ Saddleback	coping	g, twi	ce thr	oated	9,	9/-
6" × 12" Ditto					9.9	10/-

SLATER, TILER AND ROOFER

Delivered on rail at Nine Elms Station.

					Slates			£	s.	d.
16"	×	10" Best	Bangor Slat	tes to	B.S. 680	per	1,000 actual	50	9	3
20"	×	10" Ditto			****		99	78	19	9

SLATER, TILER AND ROOFER (continued)

Tiles

Hand-made sandfaced 10%" × 6%" red roofing	tiles	
	per 1,000	322/-
Machine-made sandfaced best red tiles	-	
with continuous nibs, $10\frac{1}{6}$ " \times $6\frac{1}{2}$ "	>>	289/-
Bridgwater hand made red sandfaced		
pantiles, in 6 ton loads	99	818/-
Bridgwater hand made red sandfaced		
Double Roman tiles, in 6 ton loads	23	1,126/6
Concrete plain tiles, $10\frac{1}{2}'' \times 6\frac{1}{2}''$	99	159/-
Ditto interlocking tiles, $15'' \times 9''$	99	457/-
Ditto Double Roman Tiles	99	800/-

Asbestos-cement

*6" corrugated	she	ets, grey	****	****	per	yard	super	5/6	3
*Prices are discount.	for	minimum	two-ton	loads,	and	are	subject	to	$2\frac{1}{2}\%$

Felt

Reinforced roofing felt to B.S. 747 pe	r yard sup.	1/7
Roofing felt (1-ply bitumen) to B.S. 747, Part I	**	1/6
Bituminous hair felt to B.S. 747, Part II	99	2/9

CARPENTER AND JOINER

	Wall boards
I" Imported Fibre board	5,000 to 15,000 sq. ft.
(per 100 sq. ft.)	41/6
"Imported Hardboard (per 100 sq. ft.)	45/-
18" Imported Hardboard (per 100 sq. ft.) 65/-
" Semi compressed asbestos cemer	nt flat
building sheets, grey	per yard super 2/11
* ‡" Ditto	3/11
*Prices are for orders of 2 tons and discount.	d over. Subject to 5% trade
Sundries	

"Sisalkraft" standard grade	****	****	ре	r yard sup.	$-/10\frac{1}{2}$
"Sisalkraft" subsoil grade		****	****	**	-/61
"Sisalation" single sided	****	****	****	22	1/101
"Sisalation" double sided	****	****	****	**	2/10
* Fibre glass Bitumen-bonded		***	****	12	1/114

^{*} Price is for orders value £5 and over.

Timber

Softwood for C		price)	****	per s	td.	£90
Softwood for J Tongue and C		looping	(ditto)	**		£100
*First Quality		iooring	per ft.	cube	25/- to	
*Teak	 	****	29		40/- to	

^{*} Prices vary considerably depending on specification.

Standard Panelled and Glazed Wood Doors to B.S. 459, Pt. I

Type 4	size 2' 6" ×	$6'6'' \times 1\frac{1}{2}''$	****	each	34/3
Type $2 \times G$	size 2′ 6″ \times	$6'$ $6''$ \times $2''$	****	**** 89	41/6
Type $4 imes G$	size 2′ 6″ \times	$6'$ $6''$ \times $2''$	****	**** 91	47/6
In lots of f	rom 1 to 11 is	clusive.			

Wood Windows

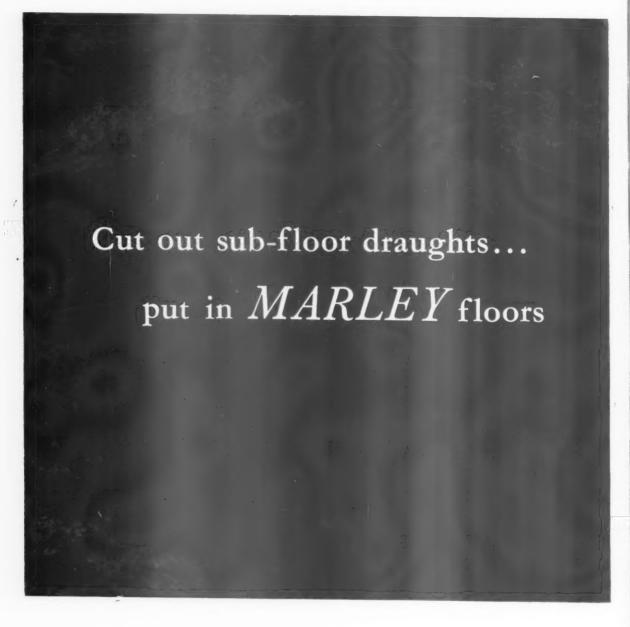
N	26 V	size $1'51''\times2'61''$	04+0		each	23/2
2	26 V	size 4' 0\frac{1}{2}" \times 2' 6\frac{1}{2}"		****	99	46/4
N	40 V	size 1' $5\frac{1}{4}$ " \times 4' $0\frac{1}{4}$ "	****	***	99	26/4
3	40 V	size 5' 11½" \times 4' 0¼"	****	****	**** 99	81/11
4	40 V	size 7' $10\frac{1}{4}$ " \times 4' $0\frac{1}{4}$ "		****	**** 92	103/-
	T 1 . 0					

In lots of from 1 to 20 inclusive

	Auchen Units	
No. 1	size 3′ 6″ × 2′ 8″ × 1′ 7″ ea	ch 178/-
No. 2	size $3'6'' \times 2'8'' \times 1'7''$,	, 123/5
No. 4	size 2'8" × 1'9" × 1'7" ,	, 109/2
No. 5	size $3' \cdot 10'' \times 1' \cdot 9'' \times 1' \cdot 7''$,	, 94/10

142/10

No. 7	size	6'	6"	×	1'	9"	×	1'	7"
Prices	include fo	r t	ops	a	nd	pli	ntl	hs.	
In lots	of from 1	to	15	i	ach	ngi	VA.		



There's nothing like-MARLEY



The Marley Tile Company Ltd., London Road, Riverhead, Sevenoaks, Kent. Telephone: Sevenoaks 2251
Scotland: Bishopbriggs 1093. Wales: Pencoed 376. N. Ireland: Belfast 24447. Eire: Dublin 51794

STEE

Basis p

Extra 9" > 3½"

3½ × 18 10″ 4″

4") 43" 4") 3")

PLAS

Thistle Gypst Parist Dit Sirapi Dit Keene Keene

Sharp Cow I Expa me

Galva Hessi

> The i Stand Crear Eggs

PLU

Hot lot Di Zine

Rain

Gutt

T

Rain 2' (

> 8' (10' (

STEEL AND IRONWORKER

Basis price for rolled steel joist sections, in 10 ft. to 50 ft. lengths ex mills per t	£ con 29	8. 10	d. 6	
Extra for sizes :— $9'' \times 7''$		5	0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		10 15	0	
$4'' \times 2\frac{1}{2}'', 5'' \times 3'', 22'' \times 7'', 4\frac{1}{2}'' \times 4\frac{1}{2}''$, , , , , , , , , , , , , , , , , ,	1	0 5	0	
$4'' \times 4'', 6'' \times 3''$, , , , , , , , , , ,	$\frac{1}{2}$	10 0	0	
$\frac{4^{\tilde{g}} \times 1_{4}^{3\tilde{g}}}{3'' \times 1_{2}^{4''}}$	3	0 10	0	
Basis price for angles ex mills per	29	9	6	
" " " solid steel columns " "	31	9	6	

All delivered Station or Siding.

PLASTERER

FLASTERER	Plaster and	Cement		
			1-ton	6-ton loads
Thistle (browning) to B.	S.1191, Class B	per ton	loads 149/9	126/6
Gypstone to B.S.1191,		2.2	101/-	1
Paristone (haired) to B.S. Ditto (unhaired)		3.7	$\frac{103}{6}$ $\frac{101}{-}$	ex Works Kent.

Gypstone to B.S.1191, Class B	101/-	
Paristone (haired) to B.S.1191, Class B	103/6	ex Works,
Ditto (unhaired)	,, 101/-	Kent.
0: '4 / D C 1101 Cl C	., 146/3	124/6
Ditto (fine) to B.S.1191, Class C	,, 154/3	132/6
Keene's Pink to B.S.1191, Class D	,, 195/3	
Keene's White to B.S.1191, Class D	200/9	
Cullamix (Tyrolean Finish), 1-ton lots	.,	
and upwards per ton	from 182/9	to 216/3
	,	

Sundvice

Sharp washed sand to B.S.1198	per yard cube 20/10 per cwt 97/6
Expanded metal lathing, $9'$ $0''$ \times $2'$ mesh \times 24 gauge 25 to 149	$0'' \times \frac{3}{8}''$ per yd. sup. 2/6\frac{1}{4} 150-299 300-599 Over 600
Plasterboard (base board) yards per yard super 2/9	$\begin{array}{ccc} \text{yards} & \text{yards} & \text{yards} \\ 2/5 & 2/4 & 2/3 \end{array}$
I' Insulating wallboard, per yard super — Galvanized lath nails 14 G	3/7 3/5 3/3 per cwt. 117/-
Hessian Scrim cloth in 100-yard rolls, 3½" wide	per roll 7/9

Wall Tiles

The following prices are subject to 221 per cent. add	ition :-
Standard quality white glazed 6" × 6" × 3" per y	
Cream glazed 6" × 6" × 3"	20/6
Eggshell or glossy glazed 6" × 6" × 1"	,, 26/3

PLUMBER

Lead as	nd (opper				
3½ lb. and upwards milled sheet le of 5 cwts, to under 1 ton in sheet			per c	wt.	129	9/3
Hot rolled copper sheeting in 1-				£	B.	d.
lots $(4' \times 2')$ sheets), to B.S.899		23 wire gauge,	per ton	321	5	0
Ditto		24 wire gauge,	,,,	324		
Zinc sheeting in 1-ton lots		14 gauge	**	104	15	0

Cast Iron Goods

Percentage Adjustment on List :	No.	3200 A.B.	1/5/52	2.
Rainwater Goods (painted or unpainted)	****	****	Plus	71%
Soil goods (coated or uncoated)	***	***	Plus	71%

Mild Steel Rainwater Goods

					Standard Lis
Gutters	(under 1	00 lengths)	****		Less 25%
Pipes and Fittings	(,,	,,)	****	****	Less 25%

Asbestos-Cement Rainwater Goods

The following prices are subject to $12\frac{1}{2}\%$ trade discount. Orders over £30 are subject to $17\frac{1}{2}\%$ trade discount.

Rainspates Pines

	uer Pipe				1	Diameter	
			2"	21"	3"	4"	6"
2' 0" 1	engths	****	3/6	3/9	4/6	6/6	12/- each
3' 0"	**	****	4/6	5/-	5/9	8/-	16/- ,,
4'0"	99	****	5/6	6/-	7/-	10/-	20/- ,,
6' 0"	99	****	7/-	7/6	9/-	12/-	24/- ,,
8'0"	99	1119	9/-	9/9	11/6	16/-	32/-
10'0"		0.00	11/-	12/-	14/-	20/-	40/- "

PLUMBER (continued)

Gutters.

Short lengths of gutte to 4' 0" as 11 yards, and				as 1	yard;	from 2	0"
Half round gutters per yard run	3"	4"	$\frac{4\frac{1}{2}''}{2/10}$	5" 3/4	6" 4/8	8 5/9	

INTERNAL PLUMBER

Lead pipe (basis, weights) in	coils 5 c	wts. to under	1 tor	1.	
up to 4" bore to B.S.602	***		***	per cwt.	130/6
Light lead pipe ditto	****	****	****	per cwt.	132/-
Drawn lead traps with brass	screw e	ye, to		-	,
B.S.504		1"-6 lb. 11"	6 lb.	11"-6 lb.	2"-7 lb.
S. trap 1½" seal	eacl	a 5/10	6/51	7/81	13/14
P. trap 1½" seal	99	4/7	5/-	6/3	10/5
Extra for 3" deep seal "S"		1/3	1/51	1/8	2/6
Extra for 3" deep seal "P"	trap "	-/10	$1/0\frac{7}{2}$	1/01	1/8

Screwed and Socketed Steel Tubes and Fittings for Gas, Water and Steam, etc.

Fittings and tubes ordered in long random lengths are subject to the following trade discounts :— $\,$

Tubes:		1	" to 4"	Fittings:			
Class B	****		181%	Lightweight		plus	31%
" C		****	61%	Heavyweight	****	plus	3½% 11%
Galvanized	Class B		61%	Galvanized:			70
99	,, C		153%	Lightweight	9=+0	plus	151%
Galvanized				Heavyweight	****	plus	223%
			us 35%			-	- / -
Copper tub	ing to B.	S.659	and 1386.	Basic price per lb			2/33

GLAZIER

Sheet G	lass, cut	t to size	(ordi	nary	glazing	quality), to	B.S.	952,	Section A
18 oz.		****	****			****	per	foot	supe	r -/51
24 oz.	****		****	****	****	****		22		-/71
32 oz.	****	****	****	****	****	****		99		1/-

Polished Plate Glass, ordinary substance, approximately $\frac{1}{4}$ ", to B.S.952, Section A.

In plates not e	xcee	ling:	Glazing quality	Selected	Silvering	
2 ft. super			per foot super	3/7	4/3	5/1
5 ft. super	****		,,	4/5	5/2	6/2
*45 ft. super			97	5/1	5/9	6/11
*100 ft. super			99	5/6	6/9	8/10
* Thatas since		ml - 4	an assertion 16	00 64	100 !-	

* Extra sizes, i.e., plates exceeding 100 ft. super or 160 in.one way, or 96 in., both ways at higher prices.

1 figured rolled and cathedral, to B.S.952, Section B—standard patterns, white	per foot super	-/9
3 " or 1" rolled plate, patterns, white	,,	1/-
15" or 1" rolled plate, patterns, white 15" or 1" rough cast, patterns, white 1" Georgian wired cast, patterns, white,	99	1/-
		2 (2)
Section D	99	1/2
4" Georgian wired polished plate, Section D	99	4/10
1" wired cast	99	1/2

Attention is drawn to reductions in certain glass prices offered by manufacturers for acceptance of specified minimum quantities of one size and substance delivered to one address at one time.

PAINTER

White ceiling di	stemper		****	****	****	per	cwt.	29/-
Washable disten	nper	****	****	****	****	per	cwt. from	112/-
Primer, general	purpose			****	****	per	gallon	33/6
Ready mixed wl	hite lead	l paint		****	****		,,	60/-
Flat oil paint	****	****			****		99	41/-
Emulsion paint	****				****		**	44/-
Hard gloss paint	t:							
Undercoat	****	****	****				99	42/-
Finishing	****	****			****		99	46/-
White Portland	cement	paint	****	****		per	cwt.	71/-

Jawains Elisabe

Readers requiring up-to-date information on building products and services may complete and post this form to the Architects' Journal 9, 11 and 13, Queen Anne's Gate, S.W.1

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal." (BLOCK LETTERS, and list in alphabetical order of manufacturers names

Please ask manufacturers to send further particulars to :-

NAME

PROFESSION or TRADE

ADDRESS

AP 29.10.53

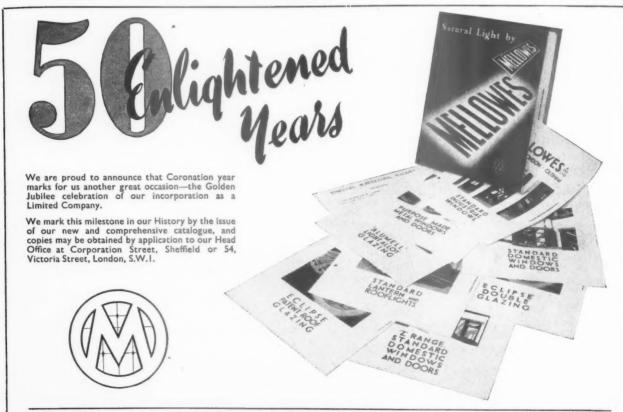
MELLOWES & CO. LTD.

Buildings Illustrated

Assembly Hall and Administration Block, Blackwell Secondary Modern School, Headstone Lane, Harrow, for the Middlesex County Council. (Pages 541-546.) Architects: John and Elizabeth Eastwick-Field, B.A., A./A.R.I.B.A. Assistant Architect: A. Baynes, A.R.I.B.A., in collaboration with C. G. Stillman, F.R.I.B.A., County Architect. Consulting Structural Engineer: F. J. Samuely, suiting Structural Engineer: F. J. Samuely, B.SC., A.M.I.C.E., M.I.STRUCT.E. Heating, ventilating and electrical services designed by County Engineer's Dept. Quantity surveyors: Crump & Trinick. General conveyors: Crump & Trinick. General contractors: Anglo-Scottish Construction Co. Ltd. Sub-contractors and suppliers: heating, William Freer Ltd.; electrical, G. W. Franklin & Son Ltd.; suspended ceilings, W. H. Colt (London) Ltd.; balustrades, Light Steelwork (1925) Ltd.; sanitary ware, Adamsez Ltd.; stock bricks, Cement Marketing Co. Ltd.; paint, Leyland Paint & Varnish ing Co. Ltd.; paint, Leyland Paint & Varnish Co. Ltd. Assembly Hall: steelwork to roof James Bros. (Hamworthy) Ltd.; windows, Williams & Williams Ltd.; woodblock floor, Horseley Smith & Co. (Hayes), Ltd.; linoleum floor, Marbolith Flooring Co. Ltd.; roofing, Neuchatel Asphalte Ltd.; roof decking, Stramit Boards Ltd.; preeast concrete, Holland & Hannen and Cubitts Ltd.; seats, Cox & Co. (Watford) Ltd.; glass, James Clark & Eaton Ltd.; stage electrical equipment, The Strand Electric & Engineering Co. Ltd.; Strand Electric & Engineering Co. Ltd.; stage scenery, The Hall Manufacturing & Supply Co. Ltd.; duct covers, Broad & Co. Ltd. Gymnasia and Administration Block: Ltd. Gymnasia and Administration Block: reinforced concrete construction, Holland & Hannen and Cubitts Ltd.; wood floors, Vigers Bros. Ltd.; wood windows, D. Burkle & Sons Ltd.; metal windows, Henry Hope & Sons Ltd.; gym equipment, Educational Supply Association Ltd.; floor and roof units (Bison), Concrete Ltd.; sprayed vermiculite ceilings (Pyrok), C. & T. Painters Ltd.; asphalt, Neuchatel Asphalte Ltd.; felt roofing, William Briggs & Sons Ltd.; rainwater goods, Vitre-flex Ltd.; changing room equipment, Cloak-room Equipment Ltd.; asphalt resin tiles, Armstrong Cork Co. Ltd.; 6-in. rug-faced clay blocks, London Brick Co. Ltd.; "Ston-ite" rendering, Callow & Keppich.

Announcements

H. Geoffrey Round, A.R.I.B.A., is now in private practice at 53, Oxford Street, Weston-super-Mare, where he will be pleased to receive trade catalogues and technical literature (Tel.: Weston-super-Mare 617). The Cement Marketing Co. Ltd. is making a 16 mm. sound colour film "The Manufacture of Portland Cement" available for loan. The film has been made by Vista Films Ltd. for The Blue Circle Group of Companies. The film opens with pictures of the Group's central research laboratories at the Group's central research laboratories at Stone, near Greenhithe, and sequences are shot in a number of the twenty-six cement works belonging to the group. The film works belonging to the group. The film goes on to show the methods of winning raw materials; it follows through the various processes—mixing the limestone and clay, or chalk and clay, with water into cement slurry, storing and testing the slurry, cement sturry, storing and testing the sturry, feeding the sturry into the huge rotary kilns where drying, decarbonating and calcining takes place transforming the sturry into cement "clinker." The red hot clinker is seen passing into coolers, and afterwards to clinker stores from where it is conveyed to the mills (at which stage a small proportion of company in added) and around the storing of the storing o of gypsum is added) and ground to become Portland cement. It is then conveyed to storage silos from where it is loaded into storage silos from where it is loaded into bulk delivery vehicles or fed to the packing plant. The film will be loaned, free of charge, to interested borrowers on application to:—Publicity Department, The Cement Marketing Co. Ltd., Portland House, Tothill Street, S.W.1. Application should be made well in advance of the booking date.



SHEFFIELD

LONDON

OLDHAM

ods, Vitrent, Cloakresin tiles, rug-faced l.; "Ston-

n t s s now in d Street, be pleased technical

re 617). is making he Manu ilable for by Vista Group of pictures of ratories at ences are cement The film f winning ough the stone and vater into the slurry, tary kilns calcining urry into clinker is crwards to

proportion to become nveyed to aded into the packing d, free of n applicathe Cement

House,

should be

king date.

MAI

nveyed to

Combined Centering and Reinforcement for **ARCHED FLOORS** Note: The carrying capacity of a joist is increased a dia. rods over joists at 12°cc to " cover to rods. approx. 20% when prevent surface cracking over joists. embedded in concrete. P.C. Concrete 0 Curved Hy-Rib 1" P.C. Render-For thickness of concrete and gauge of Hy-Rib for various spans see table R. CROSS SECTION OF SLAB. TYPE DI ALTERNATIVE DETAIL Note: Wherever possible concrete floor AT R.S.J. TYPE D2 surface should be 2" above top flange of steel joist. a"dia. rods at 12" centres Curved Hy-Rib For spacing of temporar bearers see table below SKETCH SHEWING SLAB TYPE DI Span Spacing of temporary timber supports. None required for spans up to 3' 0" One required for spans from 3' 0" to 4' 6" Cord of Hy-Rib Two required for spans from 4' 6" to 6' 6" = span minus 14 Three required for spans from 6' 6" to 8' 0" (FIG 1.) Write for a copy of the HY-RIB Handbook

THE TRUSSED CONCRETE STEEL CO. LTD., TRUSCON HOUSE, LOWER MARSH, LONDON, S.E.1. Tel: WATErloo 6922



There is virtually no limit to the applications of McKechnie extrusions in brass, bronze and nickel silver. Constant supervision at all stages of manufacture ensures uniform quality and minute closeness to size, thus eliminating further machining and saving time, tools and labour. Can McKechnie Metal Technique help you to solve your production or machining problems?

★ See our Exhibit at The London Building Centre, Store Street, London, W.I.

MCKECHNIE

BROTHERS LIMITED

14, BERKELEY STREET, LONDON, W.1 Telephone: Mayfair 6182/3/4.

Metal Works: Rotton Park Street, Birmingham, 16.

Other Factories: Widnes, London, South Africa, New Zealand.

Branch Offices: London, Leeds, Manchester, Newcastle-on-Tyne,
Gloucester, Paris.





Help to cut housing costs

mm AIN IN

OUT

OF E

D

N

is being

therings

epresen-Depart-

s of the

Autumn

e include

guests?

ckson's ion Co.

tleford,

London oria St.,

ACE

- LOWEST INITIAL COST 'PRESTEX' joints cost less than any comparable joints.
- LABOUR COSTS reduced—simply insert copper tube (BS659) and tighten with ordinary spanner.
- SAFETY and SIMPLICITY joints do not weaken copper tube or restrict bore; can be made and re-made with the same copper cone.
- RELIABILITY PROVED-millions used during the past 20 years. Approved by Ministry of Works, Metropolitan Water Board, and most leading authorities.

Full range of patterns and sizes (1"-2"). Compare these typical list prices:

1" 40 Str. C/C Coupling1/4	a each
3" 40I/8	33
½" 41 Str. C/Iron/Fem1/2	
3" 42 Str./Male Iron/C1/5	2 33
1" 44 Elbow, C/C	
1" 50 Tee, C/C ends	
1" 58X Backplate Elbow, C/Iron2/7	1 22
1" 59 Stopcock C/C BS 1010	
3" 35 Tank Coupling	

DELIVERY EX-STOCK

Ask your merchant for trade discounts. In case of difficulty, a postcard to us at Doncaster or London will bring you a catalogue and the name of your nearest stockist.



The name is the guarantee

BELMONT WORKS . DONCASTER

London Office: Prestex House, Marshalsea Road, S.E.I



YOU CAN CONCRETE

IN 25° OF FROST

Important constructional work and housing must continue in frosty weather. Sealocrete Double Strength Premix Solution provides the maximum safety available. Even for cement mortar for brickwork and cement renderings, the setting time

of the cement mortar or cement rendering is accelerated with the object of enabling it to be set before the frost can affect it. You can continue work under any conditionsand finish it in the shortest possible time. Specify Sealocrete from now on-right through the winter.





SEALOCRETE PRODUCTS LIMITED

ATLANTIC WORKS, HYTHE ROAD,

Tel: LADbroke 0015/6/7 LONDON, N.W.10 Grams: "Exploiture, Wesphone, London."

Building Exhibition Olympia-Stand No. 191 Row H.

CERAMIC TILE

for Permanent Beauty



The most exacting requirements can be met from the Jeffrey range of Glazed Tiles.....

Warm Tones.....

Satin Smooth Surface.....

Glowing Colour.....

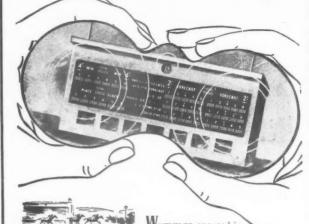
MANUFACTURED BY

JEFFREY TILES LTD

HEREFORD

SAMPLES AVAILABLE ON APPLICATION - Tel: HEREFORD 3688

Focus on Setright



Whenever engaged in the erection and reconstruction of Horse and Greyhound Racecourses remember the name of Setright Registers Limited who have long experience in the manufacture of Totalisator equipment. We are not only makers of equipment for various sports but our mechanism can also be applied for use in industry.

Further details are obtainable from

SETRIGHT REGISTERS LTD

CLAREMONT WORKS, CLAREMONT ROAD, WALTHAMSTOW, LONDON, E. 17

Telephone: Larkswood 2189. Telegrams: Sefaregist, Walt, London

AN ASSOCIATION OF ARTIST CRAFTSMEN

MAKERS OF PRINTING BLOCKS IN LINE

HALFTONE AND COLOUR

ARTISTS · PHOTOGRAPHERS



THE ENGRAVERS GUILD LTD

WINDSOR HOUSE · CURSITOR STREET · LONDON · E.C.4



Designing concrete reinforcement

is a specialist service to entrust to Rom River. Working under the same roof in the closest co-operation with their supply, bending and fixing departments, the Rom River designers have long experience in interpreting architects' plans with full practical knowledge of shuttering and concreting and the current availability of steel. Thus they eliminate site difficulties from the start.

ROM RIVER reinforcement service

design . . . supply . . . bending . . . fixing

Please write for Service Brochure

NE

OUR

HERS

LTD

THE ROM RIVER CO. LTD., 3-16 Woburn Place, London, W.C. at
Telephone: TERminus 7877. Telegrams: Romrisco, Westcont, London



In order to overcome certain of the disadvantages associated with both 'spigot and socket' and 'conical flanged' pipes, the Royal Doulton Potteries have introduced an improved method of coupling. Butt-ended pipes with ground end faces are coupled together by means of bolts passing through malleable iron or light alloy flanges permanently secured to the stoneware pipe. Advantages of this form of construction

- No change of section which might lead to weakness
- Lengths can be cut and flanges fixed on site if required
- The greater the pull on the bolts, the greater the grip of the flange on the pipe

Where fixed flange jointing is applied to Royal Doulton Acid Proof Stoneware pipes, these pipes retain all their outstanding qualities: These include:

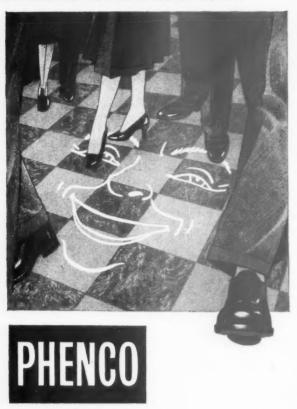
- Resistance to all corrosive chemicals except hydrofluoric acid and hot caustic alkalis
- Corrosion-proof throughout thickness
- Easy to keep clean and contamination-free
- Superior mechanical strength
- Economical in outlay and upkeep

Write for details to:

DOULTON & CO, LIMITED, Industrial Ceramics Division, Dept. BE Doulton House, Albert Embankment, London, S.E.1.



include:



laughs at heavy traff;

THIS TOUGH HARD-WEARING PLASTIC based on special blends of plastics, is the natural choice for kitchens, business and industrial premises, hotels and restaurants. Schools, hospitals and laboratories also fall within its wide range of applications. Phenco is easily laid on wood, cement, concrete, stone and metal floors. Supplied in rolls 8 yds. by 12 yds. by 36in., or in tiles 12in. square. Write now for fully descriptive literature and PUT YOUR FOOT DOWN-INSIST ON PHENCO!

Naturally resistant to fire Proof against Oil, Grease, Spirits, Chemicals Easy to clean

Resilient, Non-slip and quiet Over 20 lovely colours, Plain or Marbelized

Tested to British Standards Specifications (476-1932, 386-1936, 810-1938) for wear, indentation, pliability, noninflammability, and water and oil absorbtion, and is resistant to grease, acids and alkalis.

Phoenix Rubber Co. Ltd.

91 BISHOPSGATE, LONDON, E.C.2.

Phone: London Wall 3564 & 1622. Grams: Phenrub, Stock, London. Works: 2K Buckingham Avenue, Trading Estate, Slough, Bucks.



SIX CONCRETE ADVANTAGES

LOW COST

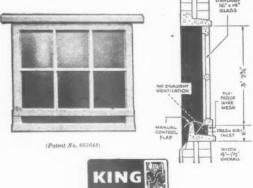
FLY PROOF

NO PAINTING

NO-DRAUGHT VENTILATION

NO HINGES

GOOD LOOKS

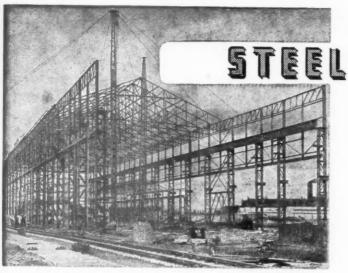




PRECAST CONCRETE WINDOWS for Farm and Factory

COVERED BY BRITISH PATENTS

Write for Leaflet P.W.51 to: GEO. W. KING LTD., 318 ARGYLE WORKS, TEL: STEVENAGE 440 STEVENAGE, HERTS.



Factory by Scottish Industrial Estates Ltd., for John Brown & Co. Ltd. (Land Boiler Division).

Architects: Messrs. Wylie, Shanks & Wylie, Glasgow.

In structural steelwork, as in shipbuilding, there is a Clydeside tradition—a craftsman's pride which is handed down from generation to generation. The Clyde Structural Iron Company helped forge Clydeside's steps to fame more than half a century ago and the Company is still maintaining and extending this tradition in most countries throughout the world. "Clyde" buildings are indeed Clydebuilt.

Telephone: Scotstoun 1817 (3 lines) Telegrams: Corrugated, Glasgow. Codes: A.B.C. 5th Edition, Lieber's

MODERN STEEL FRAMED BUILDINGS

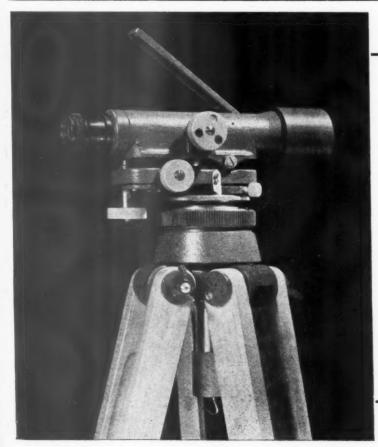
. . . are the specialty of the Clyde Structural Iron Company.

This large Engineering shop erected on behalf of the LAND BOILER DIVISION of MESSRS. JOHN BROWN & CO. LTD., of CLYDEBANK, is one example.

At home and abroad constructional steelwork is undertaken for warehouse buildings, workshops, factories, stores, mills, haysheds, bridges, pithead frames, piers, tanks and fencing.

Designs and estimates for any type of steel building will be prepared and submitted free of charge.





WATTS 'QUICKSET' LEVEL

An inexpensive and very portable level for general work. Its modern design with ball base and tilting telescope allows it to be set up and used rapidly and accurately even by less skilled workers.

0.01 ft. can be observed at 300 ft., and horizontal angles laid out to $\frac{1}{2}^{\circ}$. A tangent screw is fitted and the azimuth scale can be set to zero. The telescope has 1: 100 stadia. Weight

of instrument and tripod only 8½ lbs.

Please write for list AJ/78 to

HILGER & WATTS LTD

WATTS DIVISION

48, Addington Square, London, S.E.5

Member of the Export Marketing Company SCIEX.

THE ARCHITECTS' JOURNAL for October 29, 1953

For high-class flooring blocks and strip flooring in all timbers.



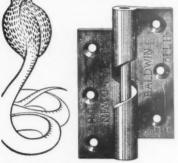


J. H. and F. W. GREEN LTD., CHARLTON SAWMILLS

SINGLETON, CHICHESTER (Singleton 232/3). The selection, Kilning, and manufacture are entirely controlled on the same premises



FOR SMOOTH, SILENT RISERS . . .



FIX

BALDWIN'S

RISING HINGES

Sole Manufacturers:
BALDWIN, SON & CO. LTD., STOURPORT-ON-SEVERN

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

EXHIBITION DESIGN

Edited by Misha Black, O.B.E. Contributors: Misha Black, O.B.E., Basil Spence, F.R.I.B.A.; James Holland, F.S.I.A., Adrian Thomas, Richard Guyatt, Lynton Fletcher, M.A., J. Mortimer Hawkins, M.I.E.S.; H. F. Clark, A.I.L.A., Dorothy Goslett, Austin Frazer.

THE PURPOSE OF THIS BOOK IS to show what are the essential qualities of a good exhibition and how to achieve them. It contains over 300 illustrations—photographs, drawings and plans—of well designed recent exhibitions grouped under 'Trade Fairs', 'Public Exhibitions', 'Propaganda Exhibitions', 'Travelling Exhibitions', and 'National and International Exhibitions'. The technique of exhibition design is covered comprehensively and in detail. Each chapter is written by an expert in his own field. The mass of information the book contains will be of value to the professional exhibition designer and equally to the exhibition promoter.

Bound in full cloth boards. Size 9\subseteq ins. by 7\frac{1}{2} ins. Second, revised, edition 195 pages over 300 illustrations.

Price 25s. net, postage inland 10d.

THE ARCHITECTURAL PRESS

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

.. for all electrical installations

Head Office: 39 Victoria Street, London, S.W.I. Tel: ABBey 8080 (8 Lines)

Branches: Manchester, Bournemouth, Glasgow, Birmingham, Southampton, Cardiff, Sheffield, York, Newcastle, Bristol.

FERROGRAN STEEL FACED

Manufactured

in Red Buff & Grey

12" × 12" 11 & 2" thick

The top surface being heavily impregnated with steel

product of

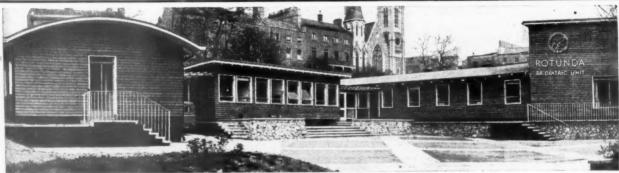
まれなのののなける

for LONG LIFE UNDER HEAVY TRAFFIC CONDITIONS

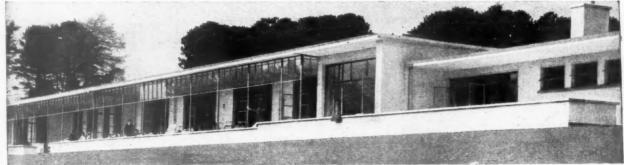
EAGLE WORKS, WEDNESBURY, STAFFS. WED. 0284, 5 LINES HEAD OFFICE:

TELEPHONE: LONDON OFFICE: ARTILLERY HOUSE, ARTILLERY ROW, LONDON, S.W.I TELEPHONE: ABBEY, 3816, 5 LINES

SPECIALISTS IN INDUSTRIAL FLOOR SURFACES FOR OVER A QUARTER OF A CENTURY



Rotunda Hospital, Dublin: New Radiatric Unit. Architect: Alan Hope, B.Arch., A.R.I.B.A.



Architect: Alfred Phillips, M.R.I.A.I. Newcastle Sanatorium, Co. Wicklow.

Steel Windows by Building in Ireland ...?

STRUCTURAL ENGINEERS AND MAKERS OF FINE STEEL WINDOWS. NEWCOMEN WORKS, OSSORY ROAD, DUBLIN GATES AND RAILINGS.

lxi

tion, irely rises

itors: .B.A.; Clark,

ol.



DAMPCOURSES

to B.S.S. 743

Approved by all Government
Departments and Local
Authorities

Supplied in rolls 24 feet in length and cut to any width required.

"PERMALUME" (Aluminium and Hessian Base) "A Super Dampcourse." Combined Hessian and Aluminium base that affords complete protection.

"PERMASEAL" (Hessian Base) Specially selected and blended bitumens reinforced with a strong hessian base. Efficient and economical.

"HOUSING" (Fibre Base) High grade bitumen dampcourse with a bitumen-impregnated fibre base. Widely specified for housing schemes.

"LEAD - BITU" (Lead and Hessian or Fibre Base) Bitumen (hessian or fibre base) reinforced with lead. Particularly suitable for moisture-bearing subsoils.

"ASBEX" (Asbestos Base) The bitumen - impregnated asbestos base assures absolute non - perishability. Withstands "settling" and vibration.

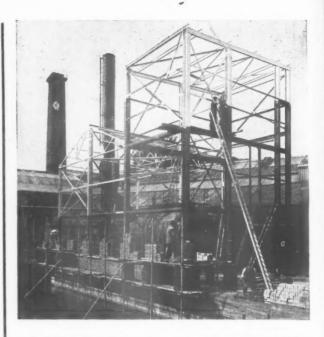
* ALSO "WATERSEAL" Reinforced (Slaters') Underlining.

SAMPLES AND PRICES FROM

PERMANITE LIMITED

455, OLD FORD ROAD, LONDON, E.3

Works: LONDON and HERTFORD Telephone: ADVANCE 4477 (10 LINES) Telegrams: PERMAPHALT EASPHONE LONDON



STRUCTURAL STEELWORK

FOR INDUSTRIAL AND AGRICULTURAL BUILDINGS

CROGGON & CO.

230, UPPER THAMES ST., LONDON, E.C.4
Central 4381/3 Works: Colnbrook

ESTD. 1835

the

building exhibition silver 25th jubilee

Patron: His Royal Highness the Duke of Edinburgh-President: Howard Robertson, M.C., A.R.A., S.A.D.G. President of The Royal Institute of British Architects.

Nov. 18th—Dec. 2nd, 1953. Olympia, London.

THE BUILDING TRADES EXHIBITION LTD., 4, VERNON PLACE, HOLBORN 8146/8 LONDON, W.C.1.

worth

looking

into ...

How TIMBER can replace STEEL in structural work







The hampering effect of the steel shortage can be minimised by the use of more timber for trusses, lattice girders, bracing members, etc. This technique is possible through "Bat" Timber

of the Connectors—providing immensely strong efficient joints—real engineering practice in timber.

Study the diagrams and it can easily be observed how the "Bat" Connector when bolted 'bites' into the wood. If you would like to know more about the possibilities of timber in structural work send for leaflet—free to all architects.









INGS

ESTD.

835

TIMBER CONNECTORS

AUTOMATIC PRESSINGS LTD.
Bat Works, Blackheath, Birmingham, Staffs.

APIZ (R)



Waldon Emulsion Wall Paint is in a class by itself . . . very easily applied, it dries in an hour to an odourless beautiful satin or semi-gloss finish; becomes water-resistant, scrub resistant, and weatherproof in a day or two. More and more decorators are turning to WALDON. Are you one of them?

This fine Emulsion Paint is only one of the many Smith and Rodger Products for decorators.

SMITH & RODGER

LIMITED



32-38 ELLIOT STREET, GLASGOW C.3.

CITY 6341-2 'SMITROD' GLASGOW C.3.

LAFONE SECONDARY MODERN GIRLS' SCHOOL, FELTHAM

ARCHITECT: C. G. Stillman, A.R.I.B.A. (Middlesex County Architect)



-ANOTHER COLTERRO CONTRACT

This assembly hall has a freely suspended cambered ceiling, the curved sides of which finish in lighting coves containing continuous fluorescent tubes — COLTERRO is excellent for curved work.

COLT DESIGN, FIX & SERVICE CEILINGS, WALLS & FABRICATED STRUCTURES WITH ...

Backed by the resources of the Colt Organisation, Write now for full details.

W. H. COLT (LONDON) LTD., SURBITON, SURREY. Telephone: ELMbridge 6511-5

COLTERRO CLAY LATH

CLASSIFIED ADVERTISEMENTS

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

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

Public and Official Announcements

25s. per inch; each additional line, 2s.

The engayement of persons answering these adarctisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Ayency if the applicant is a man aged 18-64 inchisive or a woman aged 18-69 inclusive unless he or she or the employment, is excepted from the provisions of the Notification of Vacanies Order, 1952.

DENBIGHSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
The above County Council invites applications for the under-mentioned appointment in the County Architect's Department. Wrexham, viz.:
ONE ASSISTANT QUANTITY SUBVEYOR A.P.T. Division, Grade V. Salary 2595—2545

ONE ASSISTANT QUANTITY SURVEYOR,
A.P.T. Division, Grade V. Salary £95-£646
per annum.
Candidates must have passed the Intermediate
Examination of the Royal Institution of Chartered
Surveyors (Quantities Section), and have experience in "taking off" for all types of building
works undertaken by a County Authority.
In addition, he should be familiar with and
will be required to undertake, "working up" in
all stages, measurement of works on site, interim
certificates, and final accounts.
The appointment is subject to (a) the National
Conditions of Service for Local Government
Administration, etc., Officers; (b) the Local
Government Superannuation Act, 1937; (c) the
passing of a medical examination, and (d) one
calendar month's written motice on either side
to expire at the end of a calendar month.
Applications, giving age, qualifications and particulars of present and previous appointments,
and accompanied by copies of three recent testimonials, to be sent to the undersigned, by not
later than the 6th day of November. 1953.

W. E. BUFFON,
County Offices, Ruthin.

COUNTY BOROTICH OF DIDLEY.
OUANTITY SURVEYMOR ASSISTANTS

COUNTY Offices, Ruthin.

COUNTY BOROTICH OF DUDLEY.
OUANTITY SURVEYING ASSISTANTS.
Applications are invited from suitably qualified
persons for two appointments of Quantity Surveying Assistants in the Borough Architect's Department.

ment.

(1) Grade IV (£555 to £600).

(2) Grade III (£525 to £575).

Forms of Application, which may be obtained from me, should be returned completed not later than Friday, 6th November, 1953,

P. D. WADSWORTH,

Town Clerk

The Council House. Dudley.

P. D. WADSWORTH.

Town Clerk.

16th October, 1953.

COUNTY COINCIL OF HINTINGDON

APPOINTMENT OF DEPUTY COUNTY

ARCHITECT.

Applications are invited for the appointment of Deputy County Architect at a salary of 2950 × 450 (3) to 4.100 per annum. subject to satisfactory service. There will be travelling allowance on the Council's approved scale.

Candidates must have passed the Associate Membership examination and be Corporate Membership examination and be Corporate Members of the Royal Institute of British Architects.

The person appointed will be required to have had considerable experience in the design. construction and maintenance of County Buildings including Schools. Police, and Public Health properties, together with administrative duties.

The position will be subject to the terms of the Local Government Superannuation Act 1937 (as amended by the Act of 1953) and the person appointed will be required to pass a medical examination.

The appointment will be terminable by three calendar months' notice in writing on either side.

amination.

The appointment will be terminable by three calendar months' notice in writing on either side. Applications giving the names of three referees and stating age, present position and salary, technical qualifications and examinations and details of experience, are required to be submitted so as to reach the undersigned by not later than first post on Monday, 16th November, 1953.

Canvassing in any form will be prejudicial to the applicant.

County Buildings, Huntingdon.

JOHN KELLY,
Clerk of the County Council.
9847

County Buildings, Huntingdon. 9847

TTRONE COUNTY EDUCATION

COMMITTEE.

Apolications are invited for the following appointments:—

(1) ARCHITECTURAL ASSISTANTS. of Intermediate R.I.B.A. standard. Experience will determine noint of entry to salary scale, £400× £20 to £600 p.a.

(2) ARCHITECTURAL DRAUGHTSMEN, with at least two years' experience. Salary up to £400 p.a., according to experience.

Application forms and conditions of appointment may be obtained from the Chief Education Officer. Education Offices, Omach, Co. Tyrone, N. Ireland. Applications should reach him by Monday, 2nd November, 1953.

LINDSEY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Vacancy on permanent staff for QUANTITY
SURVEYOR, Grade A.P.T., Va and VI (£625-£735),
for persons holding the Final B.I.C.S., or Grade
A.P.T., IV (£555-£600), for persons holding the
Intermediate B.I.C.S.

N.J.C. Conditions of Service. Canvassing will
disqualify. Relationship to member or senior
officer of the Council to be disclosed in writing
with application.

disquanty
officer of the Council to be discussed...
with application.
Applications, stating age, qualifications and experience, with names of two persons to whom reference can be made, to be sent to me not later than 7th November, 1953.

A. RONALD CLARK. A.R.I.B.A.,
A.M.T.P.I.,
County Architect.
9821

County Offices, Lincoln.

ST. GERMANS RURAL DISTRICT COUNCIL.

ENGINEERING ASSISTANT.

Applications are invited for the appointment of Engineering Assistant in the Engineer and Surveyor's Department. Salary commencing at £575, increasing by three annual increments of £15 to a maximum of £620.

Applicants to have passed the Intermediate Examination of the Institution of Municipal Engineers or hold an equivalent qualification. Candidates should have had considerable experience in preparation of main drainage and sewage disposal schemes, and experience in works of water supply will be an advantage.

The appointment will be subject to the N.J.C. Conditions and the Local Government Superannuation Acts, and to one month's notice on either side.

An essential user allowance (up to 10 h.p.) is attached to this appointment, where the successful candidate provides his own motor car.

Applications, stating age, qualifications, present and past appointments, together with names of two referees, must be sent to the undersigned by the 2nd November, 1953.

WILFRID L. BROAD.

Clerk of the Council.

Council Offices. Lower Port View,
Saltash, Cornwall.

9th October, 1953.

Ton Builders.

Tenders are invited for the erection of a new Infants' School at Clase, Swansea. Drawings and General Conditions of Contract may be inspected at the Borough Architect's Office, The Guildhall. Swansea to whom application by builders wishing to tender should be made with a deposit of £5 on Pefore Saturday, "the November, 1953. Bills of Quantities, when ready, will be issued only to those who so apply. The Guildhall. Swansea to those who so apply. The deposit will be refunded after delivery of a bona-fide Tender (not subsequently withdrawn) and the return of all documents.

Tenders must be delivered to me on or before he date stated in the Form of Tender, and in accordance with directions to be issued.

No guarantee is given that the lowest or any other Tender will be accepted.

The Guildhall, Swansea.

20th October, 1953.

BOROUGH OF CHESTERFIELD (Architects' Department) requires, under N.J.C. Service Conditions, ASSISTANT QUANTITY SURVEYOR, salary 2525-2570 (A.P.T., III). Applicants should possess the Intermediate Examination of the Royal Institution of Chartered Surveyors, (Quantities Section). Post pensionable. Medical examination. Apply, giving age, education, appointments held (with dates and salaries), and names of two referees, to Royough Engineer and Surveyor, Town Hall, Chesterfield, by 7th November, 1953. Canvassing disqualifies, RICHARD CLEGG.

Town Hall, Chesterfield.

Town Hall, Chesterfield.

JONDON COUNTY COUNCIL.

ARCHITECT'S DEPAR'MENT.

STRUCTURAL ENGINEER (21 027 to 21.168) required to investigate new structural techniques and experimental methods with snecial regard to multi-storeyed buildings. Application form, for return by 30th November from Architect (AR/EK/SEH/5), County Hall, S.E.I. (1146)

SKEGNESS HRBAN DISTRICT COUNCIL.
ARCHITECTURAL ASSISTANT, GRADE V
(559-5645).
Applications are invited from suitably qualified
persons for the appointment of Architectural
Assistant in the Engineer and Surveyor's Depart-

Assistant in the Engineer and Surveyor's Department.

The appointment will be subject to the National Scheme of Conditions of Service the provisions of the Local Government Superannuation Acts and the bassing of a medical examination.

Applicants should have had experience in the preparation of blans, designs, details and sperifications for the architectural work normally undertaken by an Urban Authority, including the preparation of quantities.

Applications stating age, analifications, experience, etc., together with copies of two recent testimonials, to be delivered to the undersigned not later than 14th November, 1953.

IVOR M. CULE,

Clerk to the Council,

Town Hall, Skegness.

Town Wall. Skegness. 22nd October, 1953.

BOROUGH OF RICHMOND (SURREY). Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT on the established staff of the Borough Engineer and Surveyor at a salary in accordance with A.P.T. Division, Grade II. of the National Scale of Salaries, i.e., £495-£540 per annum, together with appropriate London area weighting according to

TE!

requir Depar Londo

COUL

App ASSIS (£495) staff The notice Local

succe

App withi

> B App

tions CIV Const Car detai slab subw drain

annu

EN CHA No. Sen Mech ment

(iii

Sal accor ment (£433

TRIO No. Car para

tion E.H. The annu Agre The the r Ap

be 1

App ASSI Grad risin of £

p.a. Pr

passe Roya ing

prep

work
Th
visio
the
a me
Ap
perie
recei
Arch
King

Salaries, i.e., 2737-200 proper appropriate London area weighting according to age.

The appointment is subject to the provisions of the National Scheme of Conditions of Service and the Local Government Superannuation Act.

Applicants should have passed the Intermediate Examination of the R.I.B.A. or hold some other Diploma in architecture, and should have had experience in an architect's office.

Applications, stating age, qualifications and experience, with particulars of present and previous appointments, should be delivered, together with the names of two referees, to the undersigned not later than Monday, 9th November, 1953.

Canvassing will disqualify. Candidates shall, when making application, disclose in writing whether to their knowledge they are related to any member of the Council or senior officer.

The Council is unable to assist in the provision of housing accommodation.

CLIFFORD HEYWORTH.

Town Hall, Richmond, Surrey.

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

SENIOR ARCHITECTURAL ASSISTANT.
Applications are invited for the permanent appointment of Senior Architectural Assistant, in the Department of the Engineer and Surveyor, at a salary in accordance with A.P.T., Grade V, i.e., £595 p.a., rising to £645 p.a., plus London "weighting," amounting to £20 p.a. at arge 21.25 years and 230 p.a. at age 25 years and 230 p.a. at age 25 years and over. The commencing salary for the appointment is in accordance with the minimum of the scale.

Preference will be given to applicants who have passed the Intermediate Examination of the R.I.B.A. and who have had experience of housing work with a local authority.

Forms of application may be obtained, upon receipt of a stamped addressed envelope, from the Engineer and Surveyor, Town Hall, Hayes, Middlesex, to whom completed applications must be returned by 9th November, 1953. The envelope containing a request for a form of application should not be endorsed.

A. E. HIGGINS,
Clerk of the Council.

BOROUGH OF HEYWOOD.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

SENIOR ARCHITECTURAL ASSISTANT.
Applications are invited for the above-mentioned permanent appointment in the department of the Borough Engineer and Surveyor, at a salary in accordance with Grade V (£595-£645) of the Scale of Salaries.

Applicants must have passed the Final of the R.I.B.A. Examination, or hold an equivalent qualification, and must have had considerable experience in housing, general architectural work, quantities and final accounts.

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

The successful applicant will be required to pass a medical examination.
Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials and appropriately endorsed, should reach the undersigned not later than Monday, 9th November, 1953.

W. R. PARKER,

Town Clerk.

W. R. PARKER, Town Clerk. Municipal Buildings, Heywood. 16th October, 1953.

BOROUGH OF CROSBY.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
ARCHITECTURAL ASSISTANT.
Applications are invited from persons holding an appropriate qualification for the above appointment. Salary in accordance with the National Scale of Salaries, viz., A.P.T., IV (1955 to 2600).
Applications, on forms obtainable from the undersigned, to be delivered not later than noon on Friday, the 6th November, 1933.
HAROLD O. ROBERTS,
Town Clerk.

Town Hall, Waterloo, Liverpool, 22.

NATIONAL COAL BOARD, East Midlands Division. Architects' Department, Nottingham, require either a QUANTITY SURVEYOR, Grade II, £600×225—£650×230—2900. Must be Corporate Member of R.I.C.S. Or QUANTITY SURVEYING ASSISTANT, Grade II, £525×£25—£650, exceptionally to £800.
Candidates should have passed Intermediate R.I.C.S. with not less than 3 years' subsequent practical experience. The appointment is temporary—minimum period of two years. Grading and salary according to qualifications and experience.

polications, stating age, education, qualifica-tions, experience, present appointment and salary, to Secretary, N.C.B., East Midlands Division, Sherwood Lodge, Arnold, Notts., 14 days after publication date. Mark envelopes "S.V. 262." Original testimonials should not be sent. 9825

EY).
ment of
e estabnd SurA.P.T.
cale of
er with er with

sions of sions of rice and et. mediate ne other ave had

and ex-nd pre-together ersigned 953. s shall, writing lated to cer. the pro-

CH, Clerk, 9797 BAN CANT ermanent ssistant, Surveyor, Grade V. London age 21-25 nd over. ent is in cale. who have London of the

pe, from l, Hayes, ons must 33. The form of Council

EYOR'S TANT. nentioned int of the salary in the Scale

al of the equivalent erable ex-ral work, the pro-annuation cil's Con-notice in

quired to ns and exree recent ed. should Monday, KER, Clerk.

RVEYOR'S

ns holding ve appointNational 55 to £600).
from the than noon

erts, own Clerk. 9802 Midlands ottingham £600×£25— Member of

NT, Grade ntermediate subsequent nt is tem-

and salary, s Division, days after 'S.V. 262." nt. 9825

BOROUGH OF HORNSEY.
TEMPORARY ARCHITECTURAL ASSISTANT required for Borough Engineer and Surveyor's Department, A.P.I.V. (£625-£675 including London Weighting). Commencing salary accord-

LORGON Weighting). Commencing salary according to experience.

Further particulars from Borough Engineer and Surveyor, Town Hall, Crouch End, N.s., to whom applications are to be returned by 12th November, 1965.

H. BEDALE, Town Clerk.

COUNTY COUNCIL OF NORTHUMBERLAND.

GOUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for post of JUNIOR
ASSISTANT ARCHITECT. A.P.T., Grade II
(£495×£15-£540 per annum), on the permanent
staff of the Department.

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

Application stating age, qualifications and
previous experience, accompanied by recent testimonials, should be forwarded to the County
Architect, County Hall, Newcastle-upon-Tyne,
within 10 days of the date of this advertisement.

within 10 days of the date of this advertisement.

9824

BRITISH ELECTRICITY AUTHORITY.

Applications are invited for the following positions within the Division:—
CIVIL ENGINEERING DRAUGHTSMEN,
Construction Department. (Vacancy No. 22/53.)

Candidates should have experience in design and detail of reinforced concrete structures, piled and slab foundations for heavy plant, culverts, cable subways, etc., for general building construction drainage and sanitation schemes, associated with office and administrative buildings.

The salary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

ENGINEERING DRAUGHTSMEN (ME-CHANICAL), Construction Department. (Vacancy No. 44/53.)
Senior Draughtsmen are required in the Mechanical Section of the Construction Department at North Wilford Power Station. Candidates should have experience in one or more of the following:—
(i) Design and layout of Power Station equip-

dates should have experience in one or more of the following:—

(i) Design and layout of Power Station equipment, including Turbo-alternators, boiler plant, coal and ash plant, and general station auxiliaries.

(ii) H.P. and L.P. steam and feed pipework. Condensing plant and feed heating systems. (iii) Conveyor plant, coal handling systems, and material handling of station auxiliary equipment.

Salary and conditions of service will be in accordance with the National Joint Board Agreement, Grade 5 (£567-£671 per annum) and Grade 6 (£433-£557 per annum) of Schedule D, according to experience.

experience.
ENGINEERING DRAUGHTSMEN (ELECTRICAL), Construction Department. (Vacancy No. 51/53.)

No. 61/53.)
Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. Switchgear, transformers, E.H.T. and L.T. switchgear, transformers, earlier, and L.T. switchgear, transformers, E.H.T. and L.T. switchgear, transformers, E.H.T. and L.T. and L.T. switchgear, transformers, E.H.T. and L.T. and L.T. switchgear, transformers, E.H.T. and L.T. and L.T

annum) of Schedule D of the National John Dock-Agreement.

The above positions will be pensionable within the provisions of the British Electricity Authority and Area Boards Superannuation Scheme.

Applications should be submitted on the official form, which may be obtained from the Divisional Establishments Officer. British Electricity Authority, Barker Gate, Nottingham, and should be returned to the undersigned by the dates stated. Please quote Vacancy Number.

L. F. JEFFREY,

Divisional Controller.

9795

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of
ASSISTANT MAINTENANCE SURVEYOR,
Grade IV; at a commencing salary of £555 p.a.
rising by annual increments of £15 to a maximum
of £600 p.a., plus London Allowance of up to £30
p.a. according to age.
Preference will be given to applicants who have
passed the Intermediate examination of the
Royal Institution of Chartered Surveyors (Building Sub-Division) and they will be required to
prepare specifications, schedules of dilapidations
and detailed estimates for general maintenance
works.

and detailed estimates for general maintenance works.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 7th November, 1953.

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

W. W. RUFF,

Clerk of the Council.

County Hall, Kingston-upon-Thames.

STEPNEY M.B.C. require Three Architectural Assistants (Unestablished). Experienced in preparation of design, lay-out, working drawings, detailed specifications for housing schemes, etc. Must hold appropriate professional qualifications. Salary according to qualifications and experience, up to Grade A.P.T. VI (£670—£735 plus L.W.A.). Apply Borough Engineer, at Nos 227, 233, Commercial Road, E.I. 9815

233, Commercial Road, E.1.

2815

CITY OF BIRMINGHAM EDUCATION

COLLEGE OF ART AND CRAFTS.

Principal: Meredith W. Hawes, A.R.C.A., N.R.D.

BIRMINGHAM SCHOOL OF ARCHITECTURE.

Director of the School of Architecture:

A. Douglas Jones, Dip.Arch.(L'pool), F.R.I.B.A.,

Applications are invited for the appointment of

a FULL-TIME LECTURER in Architecture to

begin duty on 1st January next or as soon after

as possible.

Salary, in accordance with the Burgham Scale.

begin duty on 1st January next or as soon after as possible.

Salary, in accordance with the Burnham Scale for Grade "B" Assistants in Establishments of Further Education, at present £490 by £25 ±265 with additions for approved qualifications, training and professional experience. Breadth of vision, technical competence and enthusiasm are of the greatest importance.

Forms of application may be obtained from the Principal, College of Art and Crafts, Margaret Street, Birmingham, 3, on receipt of a stamped addressed foolscap envelope and must be returned not later than ten days after the appearance of this advertisement.

E. L. RESSELL.

E. L. RUSSELL. Chief Education Officer

BUCKS COUNTY COUNCIL.

Applications are invited for the following appointments on the staff of the County Archi-

BUCKS COUNTY COUNCIL.

Applications are invited for the following appointments on the staff of the County Architect:—

(a) BUILDING MAINTENANCE SURVEYOR. Salary in accordance with A.P.T., Grade VI, 2670-4735 p.a. Applicants should possess a sound knowledge of all building trades, should have had considerable experience in a similar capacity with a local authority, and should preferably possess some recognised professional qualification. The successful applicant will be required to reside and work in the High Wycombe area.

(b) ASSISTANT ARCHITECT.
Salary in accordance with A.P.T., Grade V, 2595-2645 p.a. The successful applicant will be required to work on a large and interesting building programme, including traditional and new building techniques.

The appointments are superannuable and subject to medical examination.

A weekly anowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications on forms giving furtner particulars of the appointment are obtainable from Mr. F. B. Pooley, County Architect, County Offices, Aylesbury, and returned by 9th November, 1953.

20th October, 1953.

20th October, 1953.

BURGH OF MOTHERWELL AND WISHAW.

HOUSING AND TOWN PLANNING

DEPARTMENT.

Applications are invited for the appointment of two ARCHITECTURAL and PLANNING ASSISTANTS. Applicants should have experience in contemporary oesign and be capable of preparing sketch plans and perspective drawings.

Preference with be given to candidates who have had training in a recognised School of Architecture. The salary shall be in accordance with grade A.P.T. I., 1.e., 4560 rising by three annual increments of £15 to £650 per annual, with placing on the scale according to experience and training. The appointment shall be subject to the Successful candidates shall require to pass the prescribed medical examination.

Applications giving full details should be submitted to the Director of Housing, Motherwell House, Hig

ALEXANDER MCINTOSH,
Town Hall, Motherwell.
22nd October, 1953.

MIDDLESEX COUNTY COUNCIL, COUNTY
ASSISTANT ARCHITECT'S DEPT.
ASSISTANT ARCHITECT'S DEPT.
ASSISTANT ARCHITECT required, A.P.T., V
(£595-£645 p.a., plus London weighting). Established, pensionable, subject to medical assessment
and prescribed conditions. Must be Registered
Architect and have general architectural experience, particularly of adaptation and extension
works. Application form from County Architect,
1, Queen Anne's Gate Buildings. Dartmouth
Street. S.W.1 (stamped addressed envelope
foolscap), to be returned by 5th November
(quoting M.629 A.J.). Canvassing disqualifies.

9804

Strees, foolscap), to be (quoting M.629 A.J.). Canvassing 9804

DERBY CORPORATION.

BOROUGH ARCHITECT'S DEPARTMENT.
ASSISTANT ARCHITECT, Grade VI. Salary 2670 to 2735 per annum, commencing at 2670 and national conditions of service.

Qualifications: Must be Associate R.I.B.A. Permanent staff appointment, subject to one month's notice and pensionable subject to medical examination.

Form of application obtainable from and to be returned to the Borough Architect, The Council House, not later than 16th November, 1953.

Canvassing disqualifies.

E. H. NICHOLS,

LANCASHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staft:—
(a) ASSISTANT LAND SURVEYORS, A.P.T., Grade V (£595-£645).
(b) SENIOR ASSISTANT QUANTITY SURVEYOR, A.P.T., Grade VII (£710-£785).
Application forms, to be returned by 21st November, 1955, obtainable from the County Architect, County Hall, Preston.

9823

CRAWLEY DEVELOPMENT CORPORATION require (a) JUNIOR ASSISTANT ARCHITECT, £465-£605 per annum, and (b) DRAUGHTS-MAN, £350-£465 per annum, and (c) DRAUGHTS-MAN, £350-£465 per annum, and (d) DRAUGHTS-MAN, £350-£465 per annum, and (e) DR

C. A. C. TURNER, Chief Executive.

STEVENAGE DEVELOPMENT CORPORATION require in the Chief Architect's Department
an experienced ARCHITECTURAL DRAUGHTSMAN. Salary. Corporation's Clerical Division
Scale, 2470-2515.
Housing accommodation available in due course

Applications, giving details of experience and names of two referees, should be sent to the Chief Administrative Officer, Aston House, near Stevenage, Herts., not later than Monday, 9th November, 1953.

Architectural Appointments Vacant

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

The engayement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Schedused Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-69 inclusive unless he or she is, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

A SSISTANT required for large general Architectural Practice with offices in Maidenhead. Some experience in specification writing essential. Salary £300 to £500, according to experience. Box \$335.

VACANCY arises for Articled Pupil (Architectural or Building Surveying) in City

tectural or Building Surveying) in City firm. Box 9468.

SENIOR ARCHITECTURAL ASSISTANT required by a Property Company in Uganda, East Africa; must be able to take charge of drawing office and be responsible for site surveys, the preparation of working drawings, specifications and details, etc. Hard furnished housing will be available and the successful candidate, subject to medical examination and contract, will be entitled to the following conditions:

Free medical attention and tree passages (not exceeding three admit fares) upon commencement and after each tour of three years, with three months paid home leave at termination of tour (six months if contract is to be renewed) and 14 days non-cumulative local leave per annum. A vountary 10 per cent. Provident Fund Scheme will be available. Applications, giving ful piotessional and domestic details and stating salary required should be addressed to:—The Secretary Consolidated Properties Ltd., P.O. Box 42, Xampala, Uganda.

A SSISTANT ARCHITECT, R.I.B.A. Final Standard, required immediately for West Country Practice. Applicants should have good experience and a contemporary outlook. Please give details of age, education, experience and salary required and enclose an example of recent work. Box 9800.

RCHITECTURAL ASSISTANT required for Working drawings and details.

work. Box 9800.

ARCHITECTURAL ASSISTANT required for working drawings and details. Sound knowledge of construction. Not less than five years' office experience. Knowledge of church design an advantage. Salary £555—£600. Apply R. Fairlie & Partners, 7, Ainslie Place, Edinburgh, 3.

A SENIOR ARCHITECTURAL ASSISTANT required, full experience in preparation of Working Drawings, Details, and supervision of office and Industrial Buildings in the London Area. Good knowledge of construction and design essential. Apply in writing giving full particulars of qualifications, age, experience and salary required to Box 9829,

PULLY QUALIFIED ARCHITECTURAL ASSISTANT required immediately for work on interesting contemporary project. Full details to Robert Potter, F.R.I.B.A., 21, The Close Salisbury, Wiltshire.

A SSISTANT required for general practice in North Devon, knowledge of housing an advantage. Salary £500 per annum. Box 9768.

SENIOR ARCHITECTURAL ASSISTANTS required with all round experience for London office. One required for office at Weston-super-Mare with experience of housing. Apply with full particulars of salary required, etc. Only men with first class experience need apply. R. H. Gallannaugh, L.R.I.B.A., 12, Grafton Street, W.1.

GEORGE WIMPEY & CO., LTD., invite applications for the following appointments in connection with Multi-Storey Flats and Maisonettes:—(1) SENIOR LEADING ASSISTANTS in Architects Department. Duties will involve responsibility in connection with preparation of sketch designs and working drawings. Salary 4800 upwards, according to qualifications and experience. (2) SENIOR ARCHITECTURAL ASSISTANTS. Duties will include preparation of working drawings and details. Salary range £650 to £800 according to experience and ability. Permanent appointments available, with good prospects. Write, giving brief particulars of qualifications and experience, and clearly stating for which appointment application is made, to the Staff Architect, 27, Hammersmith Grove, W.6.

A RCHITECTURAL DRAUGHTSMAN required, inter standard, for Multiple Shop Co., London. Experienced, surveys, working drawings & in. details. Canteen, permanency after qualifying period, state age, past experience and salary required. Box 9818.

after qualifying period, state age, past experience and salary required. Box 9818.

EXPERIENCED QUALIFIED ARCHITECT, degree or experience in quantity surveying, to take complete charge of technical development in connection with a new Patented Aluminium Roofing. Excellent salary and long term prospects. Age no barrier for competent applicant. First class references will be required. Applications to S. W. Ronald & Co. (London) Ltd., 329, High Holborn, London, W.C.1. Tel: HOLborn 2237.

9608

CO-OPERATIVE WHOLESALE SOCIETY LTD. ARCHITECT'S DEPARTMENT, LONDON. ASSISTANT ARCHITECT'S required of Intermediate R.I.B.A. standard, capable of preparing sketches, working drawings and details under supervision of Senior Architects.

The appointment is permanent and offers prospects of up-grading. Successful candidates will be required to undergo medical examination for compulsory superannuation scheme.

Applications stating age, experience, qualifications and salary required to W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society Ltd., 99, Leman Street, London, E.I.

A RCHITECTS Department, F. W. Woolworth
A & Co., Ltd., require the following assistants.

(1) ARCHITECTURAL of Intermediate Standard
or equivalent. (2) QUANTITY SURVEYOR or
BUILDERS' ESTIMATOR. Excellent working
facilities, staff dining arrangements, 5-day week.
Pension Scheme for suitable personnel. Apply
Staff Architect, F. W. Woolworth & Co., Ltd.,
47/49 King Street, Dudley, stating age, experience and salary required.

SSASTANT was sented.

JUNIOR UNQUALIFIED ASSISTANT wanted, aged 18/20, for West End Architect's office. good prospects, free lunch. Applicants should state where educated and present employment. Salary according to age and experience. Box 9839.

JUNIOR ARCHITECTURAL ASSISTANT required. Box 9539.

JUNIOR ARCHITECTURAL ASSISTANT required for medium sized general practice in West End. Applicants should be approaching Intermediate B.I.B.A. standard. Write, stating age, experience, and salary required. Box 9773.

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS required for Norwich private practice. Varied works in progress throughout Norfolk, Suffolk, Essex, and in London. Reply in writing, giving full particulars of qualifications, if any, age, previous experience, and salary required. Box 9701.

ARCHITECTURAL DRAUGHTSMAN required.

A RCHITECTURAL DRAUGHTSMAN required by The Bahrain Petroleum Co., Ltd. Applicants up to 40 years of age must be capable of rapidly producing study-drawings and perspective sketches of buildings, structures, land-caping features, etc. Knowledge of plumbing, sewers and general town planning an advantage. The commencing salary will be in accordance with qualification and experience. The Company providing free board, lodging and medical attention. The position is permanent with paid home leave every twenty-four or thirty months. Living costs are low and there is a kit allowance and pension scheme. Apply with full particulars of qualifications and experience to Box 9841.

A RCHITECTURAL ASSISTANTS. Simonarchitectural assistants interested in reinforced concrete industrial structures. The main fields covered are coal preparation plant, coke ovens, chemical plant, and power stations. The work offers excellent experience and good scope. A Pension Fund and D.O. Bonus Scheme are in operation. Apply, giving age and details of experience, to Staff & Training Division (Ref. S.H. 14), Simon-Carves, Ltd., Cheadle Heath, Stockport, Cheshire.

QUALIFIED ASSISTANT required in busy

undiffied ASSISTANT required in busy medium sized office in the Midlands. Experience in design of industrial buildings essential. State age, qualifications, and salary' required. Box 9778.

BRAUGHTSMAN, SHOPFITTING.—Preference on the control of t ARCHITECTURAL ASSISTANT required immediately in busy practice, North-East. Good draughtsman, experienced in surveys, sound construction and detailing. Salary according to experience. Full particulars, Box 9716.

Architectural Appointments Wanted Architectural Appointments Wanted
SENIOR ASSISTANT (45), A.A. trained.
Registered Architect. Wide general experience, mainly London. Excellent testimonials.
Responsible position required, London or Sussex.
Phone Hurstpierpoint 2165.

B.I.B.A., Dip.Arch. (36) seeks senior position in contemporary London office where there is scope for technical and constructional knowledge. Box 9809.

A RCHITECTURAL ASSISTANT, Finals next

RCHITECTURAL ASSISTANT, Finals next year, requires permanent position, Guildford/Woking area, used to full supervision, sketch to contract, drawings, specifications, etc. Excellent testimonials. Car owner. Box 795.

LIVERPOOL B.Arch. A.R.I.B.A. (26) woman. 2½ years' good experience contemporary and traditional. Co-operative, cheerful, serious worker. Good testimonials. Position required in London office. Box 797.

SENIOR ASSISTANT desires post, London or S.W. vicinity. Experienced surveys, sketches to complete working drawings. Site supervision, reporting, etc. Industrial, domestic and licensed premises. Salary £600—£700. Box 9844.

9844.
STUDENT R.I.B.A., two years full time school, four years comprehensive office experience, N.S. completed, seeks responsible post on contemporary work in south. Car driver. Minimum starting salary £500. Box 798.

R.I.B.A. D.A. Edin. (25), 7 years' office experience, seeks position, either permanent or temporary, in London office. Please reply to:—Elizabeth Evans, 38, Chelmsford Road, Dublin.

Other Appointments Vacant

Other Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.
The engagement of persons answering these
advertisements must be made through a becal
Office of the Ministry of Labour or a Scheduled
Employment Agency if the applicant is a man
aged 25-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment, is
excepted from the provisions of the Notification
of Vacancies Order, 1962.

EXECUTIVE required by well known Paint
Manufacturers for Architectural Department.
Knowledge of paint and architecture an advantage. Pension scheme in operation. Offices in West
End. Age 25 to 45 years. Particulars to Box 9842.

ADY TRACER, Westminster area, on professional side, required. Previous experience
of civil engineering work helpful. Would be
working with a small group of lady tracers. Age
under 30 preferred, but experience and ability the
major points—not age—on which selection and
salary will be considered. Please send details to
Box 9817.

MANAGER (aged 35-40) for new Regent Street
Showroom displaying Metal Sink Units and
complete Kitchens. Used to making quick freehand sketches whilst interviewing, and possessing
knowledge of plumbing and building detail necessary for discussion with Architects and General
Public. Apply stating age, salary required, previous experience, and any qualifications, to
Secretary, Wallis & Co. (Long Eaton) Ltd.,
Nottingham Road, Long Baton, near Nottingham.

PPORTUNITY occurs for applicant over 35 with interest in raising standards of design in industry. Energy, understanding of industrial production processes and organising ability essential; close association with Scotland and/or Scotlish industry will be added advantage. Commencing salary 2900-21,000, according to qualifications. Written applications, giving outline of career, to Establishment Officer, Council of Industrial Design, Scotlish Committee, 95 Bothwell Street, Glasgow, C.2.

A RCI

further Partner Heaton

4 lines A . I and C 96/107.

F. R.

partner: Box 981

OFF. Cofirm. Islange Rent E Box 984

NAM See Co., 3

A F

E 4 lines R. G. A M./A.M assn.). 10. Ade

Postal

103B

DE THE 51-53

STE For Clade DUR

Asbe detai

DURA

THE CO OPERATIVE WHOLESALE SOCIETY, LTD., invite applications for the appointment of a JUNIOR STRUCTURAL ENGINEERING ASSISTANT on the staff of the Manchester Architect's Department.

Applicants should have experience in detailing structural steel or reinforced concrete with design qualifications to Higher National Certificate standard or equivalent.

The appointment is permanent, with prospects of promotion. Successful candidate will be required to undergo a medical examination for entry into a compulsory Superannuation Scheme.

Applications, stating age, experience, qualifications and salary required, to be addressed to G. S. Hay, Esq., A.R.I.B.A., Chief Architect, Cooperative Wholesale Society, Ltd., 1, Balloon Street, Manchester. operative Wholesal Street, Manchester.

Street, Manchester. 9731

DeSIGN VACANCY.—W. M. de Majo requires experienced ASSISTANT DESIGNER, fully conversant with exhibition and showroom design. Must be capable of executing colour visuals, complete working drawings, and brief specifications. Experience of Typography and Display Design an advantage. Permanent, interesting opening for keen, industrious and imaginative man. Send specimens, with full details of experience and salary required, to Miss A. Boden, 33, Jubilee Place, S.W.3. Applications will be treated as confidential. Place, S.W. confidential.

confidential.

A GROUP of companies specialising in the actual manufacture, sale and distribution of rubber and plastic flooring of all types with a separate contracting organisation for laying these floorings, as well as carpets, linoleum, etc., require a Commercial Manager with a thorough knowledge of the flooring trade to administrate these companies. Applicants must have experience of executive control and administration and be capable of maintaining and developing the selling organisation to a level of high efficiency. Write with full particulars of qualifications, salary required, etc., to Box 9828.

etc., to Box 9828.

EXPERIENCED CLERK OF WORKS required to supervise erection of school buildings for Gold Coast, West Africa. Salary £1,200 per annum, with first class return passage, and free accommodation. Tour in the first instance two years, with paid leave at the rate of six days for each completed month of service. Please reply giving details of experience to Box 9833.

For Sale or Wanted

4 lines or under, 7s. 6d.; each additional line, 2s. RECONDITIONED EX-ARMY HUTS, and manufactured buildings. Timber, Asbestos, Nissen type, Hall type, etc. All sizes and prices. Write, call, or telephone, Universal Supplies (Belvedere), Ltd., Dept. 25, Crabtree Manorway, Belvedere, Kent. Tel.: Brith 2948.

Belvedere, Kent. Tel.: Brith 2948.

8893
PRINTING AND DEVELOPMENT MACHINE.

NE Halden 42 in. Carbon Arc Continuous
Electric Photo Copy Machine, with \(^1\) h.p.
Motor, wired for a.c. 230 V.1 phase. Also one
B. J. Hall 42 in. Electric Developing Machine,
with fractional h.p. Motor wired for a.c. 230
V.1 phase. In perfect condition. Would suit
Engineer, Architect, Surveyor, Builder and Contractor's office. All reasonable offers will be considered. Reply to Wilson Lovatt & Sons, Ltd.,
Clarence Street. Wolverhampton, or telephone
Wolverhampton 2065.

COMPACT MAYFAIR OFFICE BUILDING, 1,450 sq. ft. with garage. Quiet position, immediately off Park Lane. Price £9,850. Apply owner, Box 9827.

SURVEYOR, going abroad, desires to dispose of Practice. Fees past 3 years average £2,000 per year. Box 9812.

Services Offered

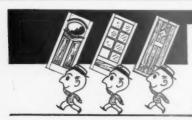
QUALIFIED SURVEYOR will undertake survey of Buildings and Sites, Levels, Preparation of Drawings, Specifications, Schedule of Repairs, Quantities, etc. LIV. 1839 or Box 9356.

EXPERIENCED REINFORCED CONCRETE DESIGNER/DETAILER is willing to prepare detailed drawings, typical calculations, etc., in spare time. Good references, qualifications. Box 9345. under, 7s. 6d.; each additional line, 2s FIED SURVEYOR will undertake

Box 9845.

A RCHITECTURAL MODELS. We shall be pleased to receive your commissions for either block layouts or detail work. Box 9845.

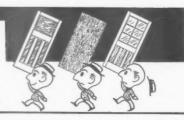
TYPING AND DUP. SPECIFICATIONS, SCH. OF DILAPS. promptly executed. Moderate charges, enquiries welcomed. N.W. LONDON TYP. BUREAU, 148, STRAND. COV. 2968.



DOORS DOORS DOORS

doors from the largest and most varied stock in the trade. Over 40 designs and 172 items.

LANGUEY BRYCE WHITE & CO. LTD. SOUTHALL 2231 Deseronto Wharf, Langley, Bucks. Also at London, Bristol, South



A RCHITECTURAL MODELS to scale. Houses, Factories, Hospitals, Schools, etc. For further information contact Brian Sharp & Partner, S./S.R.I.B.A., 114, Buckingham Road, Heaton Moor, Stockport. Tel.: HEA. 2094. 9820

SALE or the URAL of the ailing design incate

ospects be re-on for cheme. alifica-sed to ct. Co-3alloon 9751

9751 equires

design. s, com-cations. sign an ng for Send

Send ce and Jubilee tted as 9754 in the ttion of with a g these require be com-execu-capable

organi-te with equired,

equired ngs for 200 per nd free nce two lays for e reply

line, 2s.

S, and asbestos, i prices. Supplies

norway

CHINE.
ntinuous
n ½ h.p.
Also one
Machine,
a.c. 230
uld suit
nd Combe conns, Ltd.,
elephone
9753

LDING

position, D. Apply

dispose ge £2,000

line, 2s.

ine, 28.
Indertake rels. Prenedule of Box 9356.

NCRETE to preons, etc., fications.

shall be sions for 0x 9843. ATIONS, executed. N.W. D. COV. 9793

5863

Miscellaneous

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

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

• and fixing of all types of Fencing, Gates,

and Cloakroom Equipment. Harvest Works,

6/107, St. Paul's Road, N.I. Canonbury 2061.

R.I.B.A., Holborn area, contemporary out
look offers younger colleague share office

facilities. Arrangement might develop into

partnership. Replies treated confidentially.

OPERCON ACCOMMENT.

Box 9819.

OFFICE ACCOMMODATION adjoining Law
Courts. Strand, available for professional
firm. Excellent address. 300 sq. ft. and share
large General Office/Reception with Solicitors.
Rent £350 per annum inclusive. Small premium.

Box 9840.

NAMEPLATES in Bronze, Brass and Plastics.
Send for sketch and estimate. Austin Luce
Co., 321. Pinner Road, Harrow, Middlesex. 9816

PEW SITES Cornish Riviera, overlooking
glorious sandy beach; all services, close
main line, shops. Box 9826.

Educational Announcements

Educational Announcements

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

R. I.B.A. AND T.P.I. EXAMS.—Stuart Stanley

G. A. Crockett, M.A./B.A., F./F.B.I.B.A.
M./A.M.T.P.I. (Prof. Sir Patrick Abercombie in
assn.), prepare Students by correspondence.
10. Adelaide Street. Strand. W.C.2. TEM. 1603/4.

R. I.C.S., I.A.A.S., and I.Q.S. Exams.—Postal

Principal: A. B. Waters, M.B.E. G.M.,
F.R.I.B.A.), 103B, Old Brompton Boad, S.W.7.

KEN. 4477/8/9. Descriptive Booklet on request

INTER, FINAL & SPECIAL FINAL

Postal Courses in all or any subjects including Design and Professional Practice, Consultation arranged THE ELLIS SCHOOL
Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.
103B, OLD BROMPTON RD., LONDON, S.W.7
Phace: KER 1477/19/9.

Phone: KEN 4477/8/9

ELCOLIN

DECORATIVE FLOORING
VISIT, WRITE OR TELEPHONE

TILE FLOORING CENTRE 51-53 Westow Street, London, S.E.19 Telephone: LIVINGSTONE 8440

MINIMISE FIRE RISK WITH

DURASTEEL STRUCTURAL FIRE PROTECTION

For Partitions, False Ceilings, Lift Shaft, Cladding, Fire Check Doors, etc., specify DURASTEEL 3DF2 Composite Steel-&-Asbestos Sheeting. Send for data and test details to manufacturers :-

DURASTEEL LTD., OLDFIELD LANE, GREENFORD MIDDX. Tel. WAXIow 1051 (P.B.X)



IT'S CLEAN AS WELL AS CLEVER

Architectural drawings can be mounted and covered in a few minutes by the "Ademco" dry mounting and heat sealing process. It is clean and easy to do and drawings treated in this way have a longer life, will not easily crease or tear, and can be kept absolutely free from finger prints.

Ask your drawing office to write for full details today.



The Adhesive Dry Mounting Co. Ltd., Dept. A219, 26 Stamford Street, S.E.1. WATerloo 3484

" ADEMCO" is a registered trademark

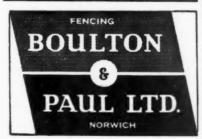
SIGNS and LETTERS

IN METAL, WOOD, PERSPEX.
PRODUCED IN OUR OWN UP-TO-DATE
WORKSHOPS BY SKILLED CRAFTSMEN
BUILT TO YOUR SPECIFICATION.

SIGN SERVICE 9, HIGH SREET,
BIRMINGHAM 23
Phones: Erdington 5234/5

FIBROUS PLASTERWORK OF **EVERY DESCRIPTION** ALLIED GUILDS

King Edward Square SUTTON COLDFIELD. Tel: Sut 3809







EXAMINATION CANDIDATES!

you are coached by until you pass

Students enrolling with I.C.S. for students enrolling with I.C.S. for examination courses are coached without extra fee until they pass. Many brilliant successes are gained each year in R.I.B.A., R.I.C.S., I.Q.S., I.Struct.E., I.Mun.E., Examinations. Fees are moderate and include all books required. Reduced Terms to H.M. Forces.

WRITE TODAY FOR FREE BOOKLET giving full details of YOUR examination or non-examination subject.

INTERNATIONAL CORRESPONDENCE SCHOOLS Dept. 5C, 71 KINGSWAY, LONDON, W.C.2

ANOTHER PRODUCT LONDON OFFICE: 167, VICTORIA ST., S.W.I TEL. VIC. 1000 SOMMERFELDS LTD. WELLINGTON . SHROPS . TELE 1000



Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Adhesive Dry Mounting Co., Ltd., The	lxvii	Flexo Plywood Industries, Ltd	xlvii	Pilkington Brothers, Ltd	xlix
Aidas Electric, Ltd	xviii	Fordham Pressings, Ltd.		Plywood & Timber Products Agencies,	- 3
Allied Guilds, The	lxvii	Furse, W. J., & Co., Ltd.	lxvii	Ltd	-
	TWAIT	Clas Council		Prodorite, Ltd.	Ixi
Anderson Construction Co., Ltd	1-	Gas Council	xxxiv	Rawlings Bros., Ltd.	1.44
Architectural Press, Ltd., The	lx	Glow-Worm Boilers, Ltd.	xiii		
Ashwell & Nesbit, Ltd	xl	Green, J. H. & F. W., Ltd	lx	Raylor Brothers, Ltd	
Austin, James, & Sons (Dewsbury), Ltd.	×	Greenwood's & Airvac Ventilating Co.,		Robertson Thain, Ltd	xii
Automatic Pressings, Ltd	lxiii	Ltd	ii	Rom River Co., The	lvii
Baldwin, Son & Co., Ltd	lx	Gyproc Products, Ltd	xvii	Ruberoid Co., Ltd., The	
Banister, Walton & Co., Ltd		Hall, John, & Sons (Bristol & London),	20.7.22	Rubery, Owen & Co., Ltd	ali J
Berry, Wiggins & Co., Ltd.	XXXIX	Ltd.	iii	Sealocrete Products, Ltd	le
	lxvii	Hammon Con M. C. Co. T.t.d.	xl	Sealanco (St. Helens), Ltd.	xvi
Boulton & Paul, Ltd		Hammer, Geo. M., & Co., Ltd	iii	Semtex, Ltd.	244
Briggs, Wm., & Sons, Ltd	XXXVI	Harvey, G. A., & Co. (London), Ltd			lvi
British Iron & Steel Federation	vii	Henderson, P. C., Ltd.	xliv	Setright Registers, Ltd	IVI
British Plaster Board, Ltd., The	xxiv	Hickson's Timber Impregnation Co.		Sharp Bros. & Knight, Ltd	7 140
British Insulated Callender's Cables,		(G.B.), Ltd	liv	Shurdcrete, Ltd	lviii
Ltd		Hilger & Watts, Ltd	lix	Sign Service	lxvii
British Plimber, Ltd	ix	Hollis Bros., Ltd	xi	Silexine Paints, Ltd	xxxi
British Trolley Track Co., Ltd., The	XV	Hope, Henry, & Sons, Ltd.	xlvi	Smith & Pearson, Ltd	lxi
Broad & Co., Ltd.	xlii	International Correspondence Schools	lxvii	Smith & Rodger, Ltd	lxiii
	lxvi	Toffner Tiles T 42	lvi	Smith, Thos. & Son, Ltd.	lxix
Bryce White & Co., Ltd.		Jeffrey Tiles, Ltd		Sommerfelds, Ltd.	lxvii
Building Trades Exhibition, Ltd., The	lxii	Jones, T. C., Ltd.	iv		LXVII
Cape Asbestos Co., Ltd	xxi	Kenyon, Wm., & Sons, Ltd		Southerns, Ltd.	
Celotex, Ltd.	-	King, George W., Ltd	lviii	Stelcon (Industrial Floors), Ltd	
Cement Marketing Co., Ltd., The		Laing, John, & Son, Ltd		Steventon, John, & Sons, Ltd	xxii
Clark, James, & Eaton, Ltd	XXXV	Lead Industries Development Council		Stott, Jas., & Co. (Engineers), Ltd	1
Clyde Structural Iron Co., Ltd., The	lix	Leatherflor, Ltd		Stramit Boards, Ltd	
Colt Ventilation, Ltd.		London Brick Co., Ltd		Taylor, Robt., & Co. (Ironfounders),	
Colt, W. H., & Co. (London), Ltd	lxiii	Macandrews & Forbes, Ltd.	lxix	Ltd.	
	LAIL	Macandrews of Forbes, Ltd.	lxvii		
Concrete, Ltd.		McCarthy, M., & Sons, Ltd		Thermacoust, Ltd	
Cox & Co. (Watford), Ltd	xxxvii	McKechnie Bros., Ltd	liv	Thermalite, Ltd.	
Crane, Ltd		Magnet Timber, Ltd	xxvi	Thompson, John (Beacon Windows),	
Croggan & Co., Ltd	lxii	Mallinson, Wm., & Sons, Ltd	- 1	Ltd	xxxviii
Docker Brothers	xxiii	Marley Tile Co., Ltd., The	xxxlii, li	Tile Flooring Centre, The	lxvii
Doulton & Co., Ltd	lvii	Mellowes & Co., Ltd	lii	Troughton & Young (Lighting), Ltd	
Dunn, Alexander, Ltd	xxxii	Metal Sections, Ltd	xix	Trussed Concrete Steel Co., Ltd	liii
Durasteel, Ltd	lxvii	Metropolitan-Vickers Electrical Co., Ltd.	lxviii	Tucker, J. H., & Co., Ltd.	
Dussek Bitumen & Taroleum, Ltd	ii	Mills Scaffold Co., Ltd.		Turner's Asbestos Cement Co., Ltd	
Econa Modern Products, Ltd.	xxxii		xliii	Val de Travers Asphalte Paving Co.,	
		Myton, Ltd.		T.td The	
Edison Swan Electric Co., Ltd	V	National Federation of Clay Industries		Ltd., The	
Elgood, E. J., Ltd.	lxvii	Newall's Insulation Co., Ltd	XXX	Vulcan Products, Ltd	-
Ellis School of Architecture, The	lxvii	Newman, Wm., & Sons, Ltd		Walker, Crosweller & Co., Ltd	xiv
Ellis, John, & Sons, Ltd	xxix	News Chronicle	xlii	Ward, Thos. W., Ltd.	xxvii
Engravers' Guild, Ltd., The	lvi	Paul, W. H., Ltd	XXV	Wheeler, F. H., & Co., Ltd	lx
Evode, Ltd	-	Peglers, Ltd.		Williams, John, & Sons (Cardiff), Ltd	xxviii
Ferodo, Ltd.	xlviii	Permanite, Ltd.		Williams & Williams, Ltd.	vi
Finlock Gutters, Ltd.	XXXV	Phoenix Rubber Co., Ltd.		Wright Anderson & Co., Ltd.	XX
FILIOUR GUOVETS, Intl	AAA V	I hochia ituobel Co., Ibu	14111	THE TENED PRINCIPOL OF CO., LIVE.	AA

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Property, Land and Sales Ixiv, Ixv, Ixvi, Ixvii.



for these

people

Best Light in the World...

DAYLIGHT

In his report for 1951 the Chief Inspector of Factories said that considerable attention had been paid to schemes for combining artificial and natural lighting. In some workshops the level of natural lighting had been found to vary between 250 and 1 lumen/sq. ft. over a distance of 25 ft.

They would work quicker, more accurately and with less strain if they had better light. Daylight hours present their lighting problems, and Metrovick Illuminating Engineers would be glad to help you solve them.

When daylight fades...METROVICK

METROPOLITAN-VICKERS ELECTRICAL COMPANY LIMITED St. Paul's Corner, 1-3 St. Paul's Churchyard, London, E.C.4

Member of the A.E.I. group of companies

PAGE
xiix

lxi

xii lvii
lvi
lvi
lvii
lxii
lxiix
lxiii
lxiix
lxiii
lxiix
lxiii
lixiix
lxvii

xxxviii
ixviii
xxxviii
xxxviii
xxxviii
xxxviii
xxxviii
xxxviii

302

I-

not turi spe

Sm

He

tro ove sm tha

qui the

Sh

238

T

Theory ..d Practice

With so many other things to distract him it is not surprising that the conscientious architect turns with relief to the question of finishes and specifies—in almost smug confidence—Thomas Smith & Son's products.

He knows that here, at least, there will be no trouble—for this family business has concentrated, over seven generations, on producing relatively small quantities of unique quality paints, rather than on turning out large quantities of popular quality. He knows, for instance, that with S.E.P. the almost extravagant theory of plastic emulsion coatings is *fully* sustained in practice.

S.E.P.

PLASTIC EMULSION PAINT

For interior and exterior application to existing and new surfaces, including new cement, new plaster, asbestos sheeting, bituminous coatings, brick and stone.

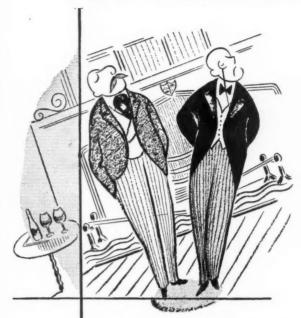
Shade cards and information on request. Our Technical Advisory Department offers a personal service to architects.

THOMAS SMITH & SON LIMITED

Makers of Fine Paints since the year 1790.

238-240 WHITECHAPEL ROAD, LONDON E.1. BISHOPSGATE 3717-9 and 0729.

Good 'connections'



are important

when connecting timber members it is most essential to see that you use . . .

"TECO

Patent No. 593945

DOUBLE BEVELLED SPLIT-RING &

"BULLDOG"

CIRCULAR TOOTHED-PLATE
(Regd. Design. No. 838743)

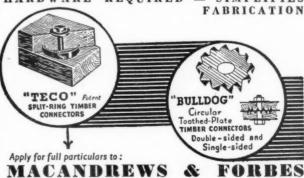
TIMBER CONNECTORS

The inclusion of these connectors in timber structures strengthen the joints by spreading the load over a large area of the timber members, increasing the load capacity, permitting reductions in timber dimensions and the amount of hardware, at the same time giving extra strength and stability to the finished structure.

"TECO" double bevelled split-rings and "BULLDOG" circular toothed-plate

TIMBER CONNECTORS make possible the designing of timber structures on an engineering basis for greater spans and loads than ever before.

EASY TO INSTAL — LESS TIMBER AND HARDWARE REQUIRED — SIMPLIFIES



2 CAXTON STREET, LONDON, S.W.1. TELEPHONE: ABBEY 4451/3



Horizontal tube inserted in Millframe Coupler. Half-turn the spring steel plate—it's fast!

Going up. The next Millframe slides quickly into position on the verticals of H-FRAME below.

Half-turn plate, tighten bolt, Millframes are then secured to give standard lift height of 6'.

Millframes of special light-gauge steel tube give high speed erection and dismantling.

Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6. (RIVerside 5026/9)

Agents and Depois: BELFAST BIRMINGHAM BOURNEMOUTH BRIGHTON BRISTOL CANTERBURY CARDIFF
COVENTRY CROYDON DUBLIN GLASGOW HULL ILFORD LIVERPOOL LOWESTOFT MANCHESTER
NEWCASTLE NORWICH PLYMOUTH PORTSMOUTH READING SHIPLEY SOUTHAMPTON SWANSEA YARMOUTH

