RCHITECT IRE



standard

contents

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

COMMENT NEWS and

Diary News

Astragal's Notes and Topics

Letters

Societies and Institutions

SECTION TECHNICAL

Information Sheets Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENTBUILDINGS

STATISTICS HOUSING

Architectural Appointments Wanted Vacant and

No. 30951 [Vol. 119 THE ARCHITECTURAL PRESS 9, 11 and 13, Queen Anne's Gate, Westminster, 'Phone: Whitehall 0611 S. W. I.

> Price Is. od. Registered as a Newspaper.

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

Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1. Sloane 8266 IGE Institution of Heating and Ventilating Engineers. 49, Cadogan Square. IIBD

Incorporated Institute of British Decorators. Drayton House, Gordon Street,
W.C.1. Euston 2450 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

Savare W.C.1. ILA I of Arb

Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197/5176
Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851 IOB IR IRA Institute of Registered Architects. 47, Victoria Street, S.W.1.

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

Lead Development Association. Eagle House, Jermyn Street, S.W.1. ISE

Undon Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891 Lead Sheet and Pipe Council. Eagle House, Jermyn Street, S.W.1. LMBA LSPC

Whitehall 7264/4175

Modern Architectural Research Group (English Branch of CIAM). Secretary:

Trevor Dannatt, 6, Fitzroy Square, W.1. Euston 7171

Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Whitehall 3400 MARS

MOA Ministry of Education. Curzon Street House, Curzon Street, W.1.
Ministry of Health. 23, Savile Row, W.1.
Ministry of Housing and Local Government. Whitehall, S.W.1. MOE Mayfair 9400 MOH Regent 8411 Whitehall 4300 MOHLG 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 Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Mayfair 9494 Ministry of Works. Lambeth Bridge House, S.E.1. Natural Asphalte Mine-Owners and Manufacturers Council. MOLNS MOS MOT

MOW NAMMC 94-98, Petty France, S.W.1. Abbey 1010 NAS

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. Abbey5111 NBR NCBMP National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041/4054 NFBTE

W.1. Langnam 4041/10034
National Federation of Building Trades Operatives, Federal House,
Cedars Road, Clapham, S.W.4. Macaulay 4451
National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 1693
National House Builders Registration Council. 82, New Cavendish Street, W.1.
Langnam 4451
Malegon 1380 NFBTO **NFHS**

NHBRC NPL

National Physical Laboratory. Head Office, Teddington Molesey 1380
National Sawmilling Association. 14, New Bridge Street, E.C.4. City 1476
National Smoke Abatement Society. Chandos House, Buckingham Gate,
S.W.1. Abbey 1359 NSA NSAS

National Trust for Places of Historic Interest or Natural Beauty.

42, Queen Anne's Gate, S.W.1.

43, Queen Anne's Gate, S.W.1.

44, Queen Anne's Gate, S.W.1.

45, Queen Anne's Gate, S.W.1.

46, Queen Anne's Gate, S.W.1.

47, Queen Anne's Gate, S.W.1.

48, Queen Anne's Gate, S.W.1.

49, Queen Anne's Gate, S.W.1.

40, Queen Anne's Gate, S.W.1.

41, Queen Anne's Gate, S.W.1.

42, Queen Anne's Gate, S.W.1.

43, Queen Anne's Gate, S.W.1.

44, Queen Anne's Gate, S.W.1.

45, Queen Anne's Gate, S.W.1.

46, Queen Anne's Gate, S.W.1.

47, Queen Anne's Gate, S.W.1.

48, Queen Anne's Gate, S.W.1.

49, Queen Anne's Gate, S.W.1.

40, Queen Anne's Gate, S.W.1.

41, Queen Anne's Gate, S.W.1.

42, Queen Anne's Gate, S.W.1.

43, Queen Anne's Gate, S.W.1.

44, Petty France, S.W.1.

45, Petty France, S.W.1.

46, Petty France, S.W.1.

47, Petty France, S.W.1.

48, Petty France, S.W.1.

49, Petty France, S.W.1.

40, Petty France, S.W.1.

41, Petty France, S.W.1.

41, Petty France, S.W.1.

41, Petty France, S.W.1.

42, Queen Anne's Gate, S.W.1.

43, Petty France, S.W.1.

44, Petty France, S.W.1.

45, Petty France, S.W.1.

46, Petty France, S.W.1.

47, Petty France, S.W.1.

47, Petty France, S.W.1.

48, Petty France, S.W.1.

49, Petty France, S.W.1.

40, Petty France, S.W.1.

40, Petty France, S.W.1.

40, Petty France, S.W.1.

40, Petty France, S.W.1.

41, Petty France, S.W.1.

42, Petty France, S.W.1.

43, Petty France, S.W.1.

44, Petty France, S.W.1.

45, Petty France, S.W.1.

46, Petty France, S.W.1.

47, Petty France, S.W.1.

47, Petty France, S.W.1.

48, Petty France, S.W.1.

49, Petty France, S.W.1.

40, Petty France, NT Whitehall 0211 Whitehall 7245 PEP Abbey 4504 RCA

Edinburgh 20396 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

RFAC Whitehall 3935 Regent 3335 Trafalgar 2366 RS RSA

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. W
Society of British Paint Manufacturers. Grosvenor Gardens, S.W.1.
Society for Cultural Relations with the USSP. 14, Versioners S.W.1. RSI Sloane 5134 Wimbledon 5101 RIB SBPM Victoria 2186

SCR Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.
Western 1571 Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244 School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3. SE SFMA

Mansion House 3921 Structural Insulation Association. 32, Queen Anne Street, W.1. Scottish National Housing. Town Planning Council. SIA SNHTPC Langham 7616

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.

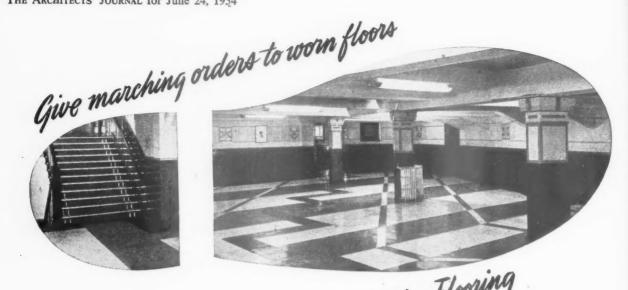
Holborn 2646

Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.

Temple Bar 5006

City 4771 SPAB TCPA

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 City 4771 Victoria 8815 City 5051 TPI ZDA

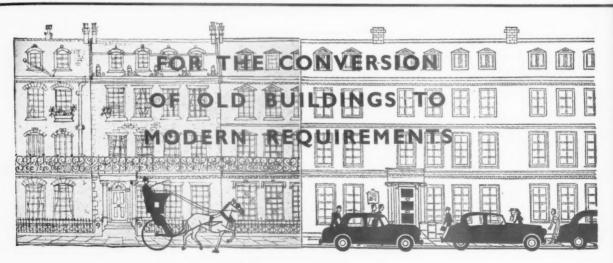


IOCO Rubber Flooring is practically permanent and will eliminate worn or shabby surfaces for as long as you are likely to look ahead. This is an enormous

saving in the long run and on these grounds alone is worthy of your most serious consideration. But it has much more to commend it: it is resilient, hygienic, non-skid and greatly reduces noise; it is easy to clean; it is decorative and is available in a variety of plain, tiled and marbled effects which can be adapted to suit any colour scheme. Surely all this adds up to one thing?—IOCO Rubber Flooring for YOUR next job! Our experts are at your service for laying anywhere in Great Britain. Write for 16-page Booklet "IOCO Rubber Flooring".

IOCO LIMITED ANNIESLAND . GLASGOW . W.3.





Remember

RAWLINGS BROS.



LIMITED

Head Office: 85 Gloucester Rd., South Kensington, London, S.W.7

Telephone: FREmantle: 8161 (10 lines)

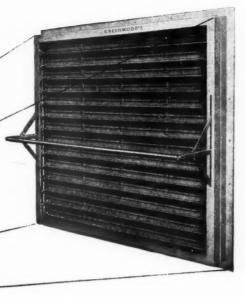
BUILDERS & ELECTRICAL CONTRACTORS

Members of L.M.B.A and E.C.A faces mous re to in a g?— Write



"9 square inches "
to 9 feet square"

by GREENWOOD-AIRVAC Louvres, Panels, Registers, Grilles, whether fixed or movable, Painted or Plated, Screw fixing or Built-in.

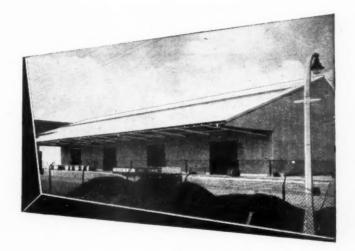


GREENWODD AND AIRVAC Ventilating Company Limited

CRAFTSMANSHIP IN STEEL

'Why' we are often asked, 'do you advertise when your order books are full?' The answer is quite simple. 'We take a craftsman's pride in a job well done.'

Big job, small job, whatever the size, wherever located; Whether structural steelwork or special fabrication, if it is placed in the care of Walker Bros. you can be sure of a job smoothly progressed to a satisfactory conclusion.



WALKER BROS
LIMITED
WALSALL STAFFS. TEL WALSALL S136

ESTABLISHED 1867

LONDON OFFICE: 66 VICTORIA ST., S.W.I. TEL.: VIC. 6049

Unrivalled for

DESIGN CONSTRUCTION DELIVERY PRICE SERVICE

UNICALOR

UNDERFEED

MAGNACALOR

(NO WEARING PARTS)

JOSHUA BIGWOOD & SON I

Head Office: WEDNESFIELD ROAD · WOLVERHAMPTON

Telephone: 24771

NORTH-EAST. B. Peace, 54 Benomley Crescent, Almondbury, Huddersfield. (Tel. No. Huddersfield 2035) NORTH-WEST. W. E. Bradley, 295 Chester Road, Manchester 15. (Tel. No. Blackfriars 9206)
WEST MIDLANDS. E. Edwards, 'Fairwood,' Eveson Road, Norton, Stourbridge. (Tel. No. Stourbridge

5583)

EAST MIDLANDS. R. L. MacGregor, 88 Westcotes Drive, Leicester. (Tel. No. Leicester 65372)

LONDON. H. C. Williams, Hope House, Great Peter Street, London, S.W.1. (Tel. No. ABBey 1833/5)
SOUTH-WEST. H. L. Boorne, 'The Ridge,' North Road, Bath. (Tel. No. Bath 2545)

SCOTLAND. J. Paton, Smail Sons & Co. Ltd., 62 Robertson Street, Glasgow, C.2. (Tel. No. Glasgow Central 0421)

IRELAND. P. J. Casey, 38 The Rise, Mount Merrion County Dublin. (Tel. No. Dublin 882587)



Booking Office for K.L.M. Royal Dutch Airlines in the "Time and Life" Offices in New Bond Street, London, W.I.

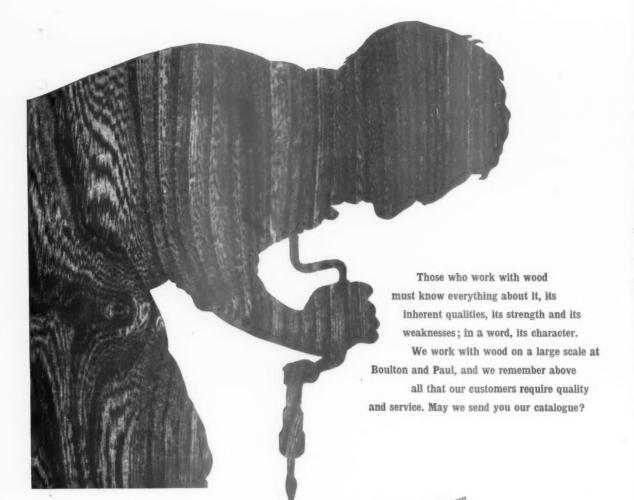
Architect, J. Stroud Foster Esq. A.R.I.B.A.

GEORGE PARNALL

AND COMPANY LIMITED

CRAFTSMEN AND DESIGNERS

SPECIALISTS IN JOINERY



when the joinery is by

BOULTON AND PAUL

NORWICH

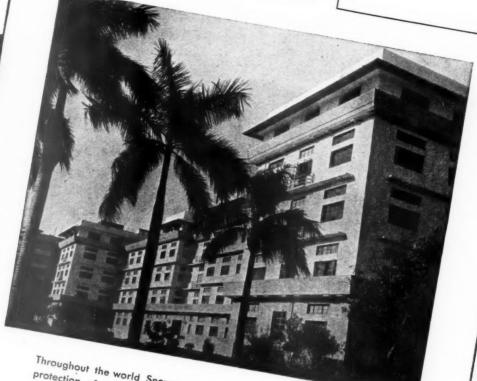
LONDON

BIRMINGHAM

... it's a first class job

CDC 161

Government of India Offices, Bombay



Throughout the world Snowcem is being used in the decoration and protection of buildings. This illustration is one of the many recent examples from India.

SNOWCEM is easily applied to concrete, cement rendering or suitable brickwork by brush or spray. Available in seven colours: White, Cream, Deep Cream, Buff, Pink, Silver Grey and Pale Green.

SNOWCEM WATERPROOF GEMENT PAINT

Decorates and protects at 10w cost BRITISH CEMENT IS THE CHEAPEST IN THE WORLD

Portland House, Tothill Street, London, S.W.1 or G. & T. EARLE LTD., WILMINGTON, HULL. THE SOUTH WALES PORTLAND CEMENT & LIME Co. Ltd., Penarth, Glam.

the

bright

WHEATLY



* triton QUARRIES

for high performance floors under all conditions—

9" x 4\fraced Quarry

Illustrated are two non-slip Quarries which have a wide range of application, particularly in industry.

The ribbed pattern is ideally suited for floors where water has to be drained away since the grooves provide readymade conduits to channels and drains. The shot-faced quarry will give high performance under heavy traffic conditions but is not intended to stand up to trucking with iron-shod wheels.

Both patterns made specially to order in either Red or Russet Brown colour.

An illustrated leaflet giving full details of the wide range of "Triton" Quarries and fittings, together with correct descriptions, key numbers and principal dimensions is freely available on request.

Specimens of Wheatly Tiling may be seen at the Building Centre, London. Wheatly products include Single-lap Roofing Tiles, Ridge Tiles (blue and red), Floor Quarries, Air Bricks and Briquette Fireplaces.

6" x 6" Ribbed Quarry

WHEATLY & COMPANY LIMITED

SPRINGFIELD TILERIES

TRENT VALE

STOKE-ON-TRENT

Telephone: NEWCASTLE (Staffs) 66251

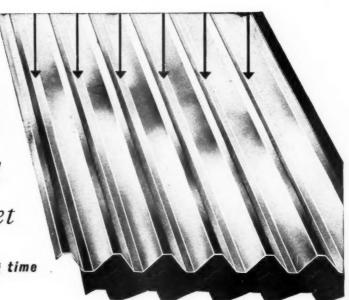
Telegrams: WHEATLY, TRENTVALE

NEW, WIDER, 6-TROUGH

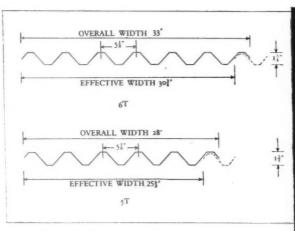
'Rigidal'

corrugated aluminium sheet

Saves handling, lapping and fixing time



In view of the success of 'Rigidal' 5T and 4T sheet, British Aluminium are now producing a 6T section which not only possesses all the features of the narrower sheets but also offers several additional advantages. Five inches greater in overall width than the 5T, the new 6T sheet saves I side lap in every 5, reduces handling, speeds fixing and affords greater cover per sheet.



Purlin Spacing	Design loads (lb./sq. ft.)	
	18 swg	19 swg
6' o"	87	71
6' 6"	76	61
7 0	64	52
7 6"	56	46
8' o"	49	40
8 6	44	36
9 0"	40	32
9 6	36	28
10' 0"	32	25
10' 6"	28	*

Notes 1. The above design loads are based on a maximum working stress of 11,000 lb./in.² giving a factor of safety of 2 on the 0.1% proof stress (yield).

D

NT

2. The zigzag line indicates the maximum purlin spacings which may be employed when working to B.S. Code of Practice C.P.3., Ch. V Para. 7b. Use of purlin spacings below the line

depends upon the pitch of the clad surface, the maximum spacings shown being those recommended for vertical walls.

3. The recommendations tabulated above are based on an assumed minimum roof pitch of 10°, with sheets fixed in accordance with recommended practice, including seam bolts at 18° centres.

'Rigidal' sheet lights can be supplied to match Trough Section (5T) sheet.



THE BRITISH ALUMINIUM COMPANY LIMITED

NORFOLK HOUSE ST JAMES'S SQUARE LONDON SWI



No. 8. THE ANT

With a sudden thrust of his spade the gardener bursts open the mound which betrays an ant nest, scattering the ants and shattering their home; but the mound of earth only acts as a clue to the whereabouts of the hill or mound nest, and the type of nest where the excavated soil forms a crater. Some ants go to great trouble to disperse the soil so that their home remains secret.

Beneath the ground an ant nest is formed of passages which link together a number of chambers. One is a brood chamber for the queen ant's use. Others form brood

nurseries, granaries, fungus gardens and so on.

Some ants make nests under large stones or under leaves, others in old tree-trunks or under the bark of trees. There are even tropical ants which construct nests of earth bound together with silk and hung from branches.

Perhaps the most amazing of all ant nests is the leaf nest, formed of two or more large leaves, fastened together by a silken web from the larvae of the species, which the worker ants hold in their jaws and use like shuttles in weaving the silken tissue of the nest.

THOMAS BLACKBURN & SONS LTD.

PRESTON · LANCASHIRE

London Office: 8 Bloomsbury Square, W.C.I Tel: Holborn 8638

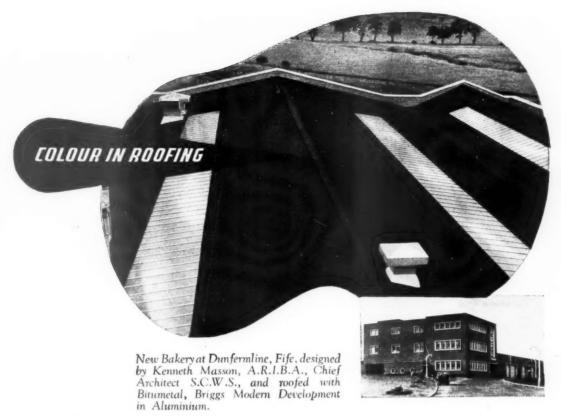
Birmingham Office: Ruskin Chambers, 191, Corporation Street,
Birmingham 4. Tel: Central 3254

Fabricators in Steel

Constructional Steelwork
Metal Windows

· Iron Castings
Farm Implements

Railings and Gates

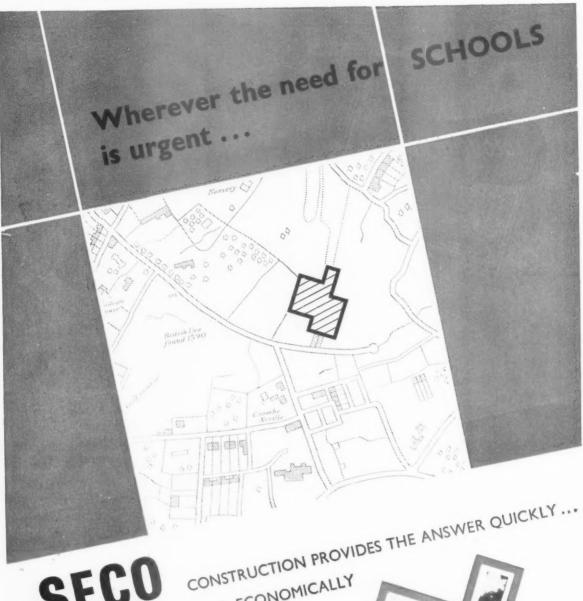


Colour is rapidly becoming an important and attractive feature in roof covering. Many factories, schools and hospitals now have the added advantage of a coloured finish in nature's own mineral granules, permanent and unfading.

Briggs Mineral Surfaced Roofings can be specified in Green. Grey or Red to harmonise pleasantly with the surrounding landscape. They are perfectly adaptable for pitched or curved roofs, on top of Bitumetal' as in the structure illustrated, or on any type of deck. Ask our nearest Area Manager to show you samples and to provide you with the latest technical data.



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



SECO

AND ECONOMICALLY

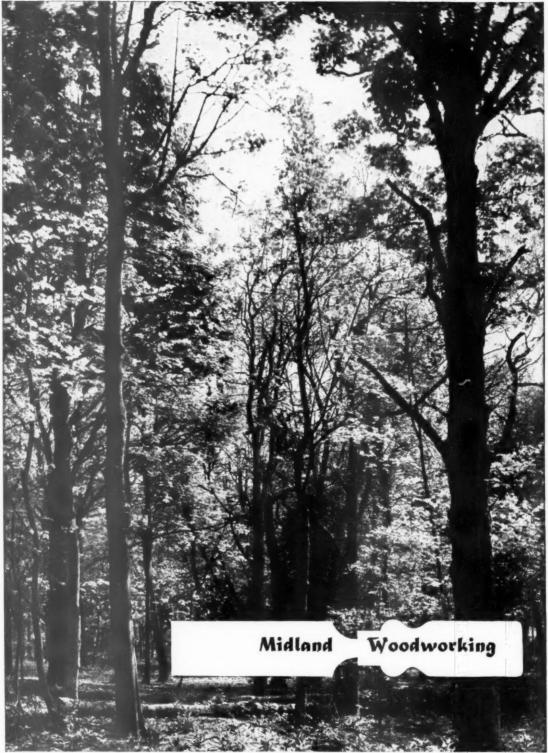


SECO LIMITED

SPECIALISTS IN THE DESIGN. MANUFACTURE AND FRECTION OF BUILDINGS ON THE PRINCIPLE OF UNIT CONSTRUCTION

II, UPPER BROOK STREET, PARK LANE, LONDON, W.I.

Telephone: MAYFAIR 9080



THE MIDLAND WOODWORKING COMPANY LTD. - MELTON MOWBRAY

Specialists in high-class joinery for the Building Trade

"Ready-to-use," higher efficiency, lower operating costs easier maintenance...



for gas, oil or combined gas/oil firing

Wherever steam or hot water are required, the 'Powermaster' Automatic Boiler offers outstanding advantages. It can be 'delivered to your door,' complete with all the necessary equipment and controls, ready for immediate connection. It requires no special steel or brick base. It gives efficient space heating without 'space eating,' Above all, it automatically ensures higher operating efficiency, saves fuel and labour, is clean and smokeless. For full details and specifications of the 'Powermaster,' developed on a proved American-type packaged automatic boiler and now built in this country by 'G.W.B.', write or telephone the address below.

SOME COST AND LABOUR-SAVING FEATURES

Simplified installation-no special foundation is required, no costly steel or brick stack.

Reduces fuel costs-high operating efficiency and a special air atomising burner system guarantees highest thermal efficiency, even when running at less than full capacity.

Full modulation-modulating motor automatically positions both the fuel valve and the air damper according to the demand on the boiler; specific firing rate is correctly proportioned for efficient operation.

Easy maintenance—quick access to both water side and fire side cuts down cleaning and inspection time; noncoking burners operate more efficiently, require far less attention. Shutdown time greatly reduced.

Saves man-hours—automatic controls reduce attendant's time to a minimum.

Saves plant space—takes up far less space than required by ordinary boiler equipment of equal capacity.

Cleaner operation-no smoke, no dirt, no soot, no ash

Automatic safety-fully protected against all operational hazards by complete safety equipment.

G.W.B. FURNACES LTD.

DIBDALE WORKS, DUDLEY, WORCS · Tel: Dudley 4284/5

an advance in

LIGHT WEIGHT roof construction

★ Dry Construction and top fixing ensures speedy erection at all times of the year.

★ High reflecting value and contrasting line formation gives attractive ceiling effect.

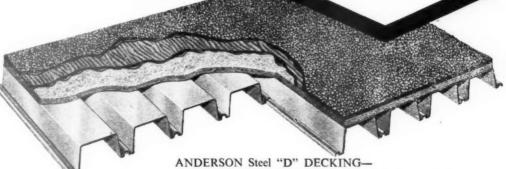
★ Good insulation value minimises condensation and prevents heat loss. Anderson Aluminium "E" Decking, a complete roof incorporating aluminium deck units, insulation and waterproofing with an Anderson roofing system, has been designed primarily to meet the need for a roof which is economical in first cost.

The decking is suitable for schools, public and industrial buildings, being adaptable to flat, sloping or curved roofs and most vertical construction. Lightness with maximum strength is obtained by using deck units fabricated from approved aluminium alloy. Each deck unit is 24 in. wide, the length governed by span required. Closures at eaves, verges and other features can be provided to suit requirements.

Deck units have joggled ends for nesting firmly over supports to which they are secured by hooks, bolts or special clips. The sides have fluted corrugations ensuring firm and positive locking against flow under loading, ANDERSON

aluminium

`E´DECKING



similar in design—can be supplied where a steel roof is required. Full information is available on request.

D. ANDERSON & SON LTD., STRETFORD, MANCHESTER



The wonder that would be

Science dreams of inter-planetary travel, of

a world without frontiers for generations which
take the universe as their bailiwick.

But how shall it profit them if they must live in squalor; if the decay of centuries still remains?

Bernard Sunley & Sons are proud to be building the homes, the schools, the hospitals—the fundamentals of a healthier and a happier life.

BERNARD SUNLEY & SONS

34 ST JAMES'S STREET SW1 WHItehall 9755

Works: Vauxhall & Northampton

Unique in Character



like

ENGLISH OAK



and

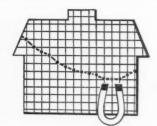
SCOTCH WHISKY

Clay_Roofing Tiles

ARE THE REAL THING!

"The Clay Tile Bulletin", post free on request.

Issued by The National Federation of Clay Industries, Drayton House, W.C.1



MAGNET LOWERS BUILDING COSTS



the site with minimum delay.

To ensure completion on schedule, to reduce costs and save valuable time, make use of this new part of the countrywide Magnet service.



BRITISH STANDARDISED JOINERY

Write for illustrated brochure and price list:-

WHITLEY STREET BINGLEY YORKSHIRE 'Phone: Bingley 3547 (3 lines)

LONDON ROAD GRAYS ESSEX 'Phone: Tilbury 77 (5 lines)

LOVE LANE ASTON BIRMINGHAM 'Phone: Aston Cross 3291 (3 lines)

and at EDINBURGH

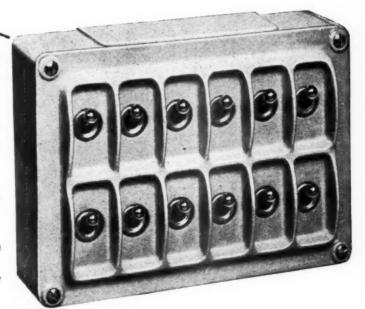




New Simplex

Ironclad 1-12 gang A.C. Switch Assemblies

- MOST comprehensive range to meet all industrial requirements
- Cover variations-Protected-Surface-Flush-B.M.A. -Chrome-Insulated
- Small dimensions-neat appearance
- Prices are most competitive
- Multiple units made to any number of gangs



IRONGLAD SWITCH ASSEMBLIES

made by the house of Simplex

Write for leaflet LA. 2030

Simplex Electric Co Ltd of Oldbury Birmingham



ster City Council

Once again, radiators by Crane...

Without doubt, one of the outstanding features of the Churchill Gardens Estate, now under construction at Pimlico, is the heating system. The medium used for conveying heat-derived from exhaust steam at Battersea Power Station-is hot water. This is pumped through 12-inch bore insulated steel mains under the River Thames from the Power Station to the Estate. To help achieve an efficiently controlled central heating system, Crane have already supplied over 1,750 cast iron radiators and a large number of concealed pattern radiator valves. Important contracts like this draw added attention to Crane's fine reputation as a leading manufacturer of heating equipment.

DELIVERY DATES ARE MUCH IMPROVED-TRY CRANE FIRST







HEATING CONTRACTORS: G. N. Haden & Sons, Ltd.

(HEATING) ENGINEERS: Kennedy & Donkin and J. Roger Preston & Partners. Architects; Powell & Moya

BOILERS, RADIATORS, VALVES AND FITTINGS



PERMANENT HOUSES IN THE NEW TRADITION

Myton New Traditional Houses offer all the advantages of the best traditional architecture and can be erected in two-thirds of the normal time at a lower cost.

Send for illustrated brochure.

MYTON

Above

A terrace of typical Myton houses at Kingston-upon-Hull. Aesthetically they satisfy the most discriminating planner.

Right

two men. Site labour is cut to a minimum.



MYTON LIMITED: Building and Civil Engineering Contractors, NEWLAND, HULL.

HEAD OFFICE: Newland, Hull. BRANCHES AT London, Birmingham, Sunderland.



"I can't stick this much longer,"

said the Ancient Briton

"Making fire by rubbing two sticks together was good enough for my father, but it just isn't good enough for me. These old-fashioned methods never pay. I think I'll stick around until the twentieth century and instal an oil-

fired furnace with the help of Shell-Mex and B.P. Ltd. With their technical advice and service I'll be able to achieve the temperature I want easily—and be able to control it accurately, too."

CONTROLLED HEAT WITH OIL FUEL



INDUSTRIAL SERVICE

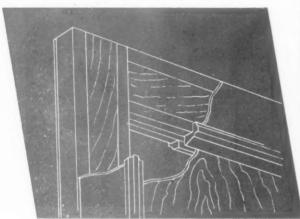


m

Hills AMBASSADOR

Ideal for the more ambitious scheme, this fine mahogany faced door cannot fail to please the most fastidious single-panel enthusiast. Its classic design and appearance will add a touch of quiet dignity and warmth to the finest interior.

Craftsman-made, from the finest kiln-dried hardwood and suitable for polishing, it is available at a price which brings it well within the range of every better-class project.



These features have building trade appeal

- STILES AND RAILS are of laminated construction, giving greater strength and stability. Full length mahogany facing veneers give a finished thickness of 14".
- BOLECTION MOULD is from 1½" x 1" kiln dried mahogany, mitred at the corners and fitting closely to the panel.
- FACING VENEERS. Panel, Stiles and Rails are faced with carefully selected mahogany veneers of uniform colour and grain.
- THE PANEL is † thick plywood of balanced construction with vertical grain facing veneers.

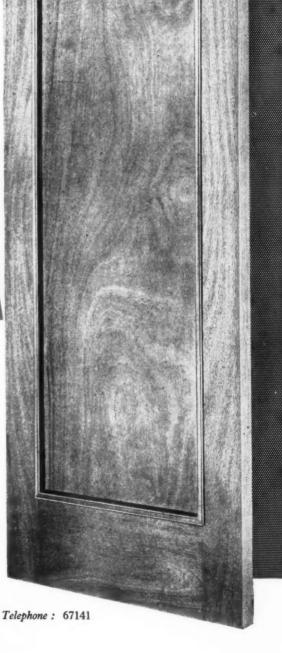
THE DISTINCTIVE SINGLE PANEL DOOR

Send for further details and prices-NOW!



F. HILLS & SONS LTD.

NORTON ROAD, STOCKTON-ON-TEES Telephone: 67141



CEILING for a John Lewis Store

(CALEY'S OF WINDSOR)

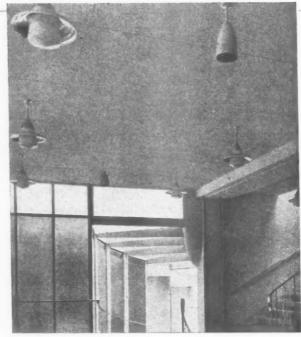
by ASBESTOLUX

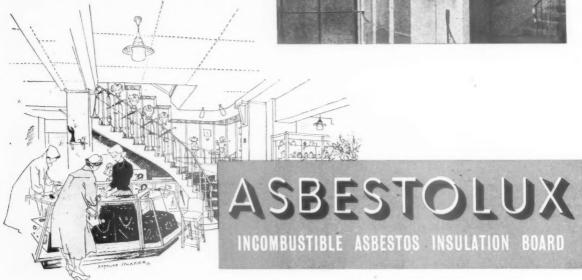
The material for this suspended ceiling in a department-store had to (1) offer fire-resistance of upwards of half-an-hour; (2) meet numerous fixing, lighting and heating requirements; and (3) preserve a good appearance in varying conditions of temper-

ature and humidity.

The fire requirement suggested "Asbestolux" at once. The fixing, which was to be widely-spaced, with panels removable for access to heating elements and wires, and holes drilled for lighting wires, was also found to present little difficulty, since the steam-cured, all-asbestos composition of "Asbestolux" means that sheets are flat, rigid, and dimensionally stable, and drilling and closebutting are clean and smooth.

The ceiling thus has a completely flat overall appearance, and is kept permanently dry by a coating of silicone compound on the edges and back of each sheet. Write for illustrated literature on the many applications of Asbestolux.





THE CAPE ASBESTOS CO. LTD., 114-116 Park St., London, W.1 Tel: GRO 6022

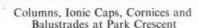


CRAFTSMANSHIP IN STONE



Friezes at either end of Chester Terrace Archways

Corinthian Capitals at 6-7 Upper Harley St.



REGENTS PARK (Photographs by kind permission of Commissioners of Crown Lands)

Girlingstone was selected for the new offices at Fielden House, London Bridge Street, London, S.E.1 for the King Edward's Hospital Fund for London (Architect: J. S. Lacey, A.R.I.B.A., A.M.P.P.I.) which is reviewed elsewhere in this issue.



To the late

GIRLINGSTONE

GIRLINGS

FERRO - CONCRETE

Head Office:

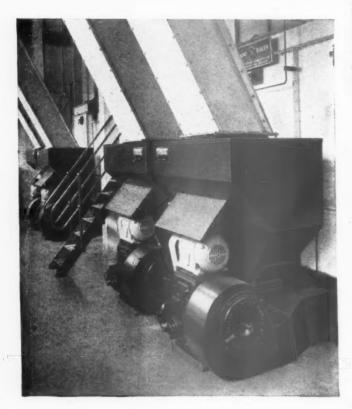
. 0

LTD

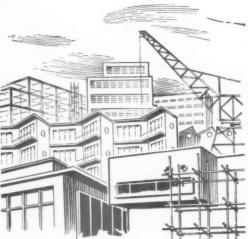
GREAT WEST ROAD, FELTHAM, MIDDX. ROTHWELL, LEEDS HOUnslow 1158 (3 lines) Rothwell 3174 (3 lines)

SOUTHBANK RD., KIRKINTILLOCH, GLASGOW Kirkintilloch 2244 (2 lines)

Fuel saving in the NEW TOWNS

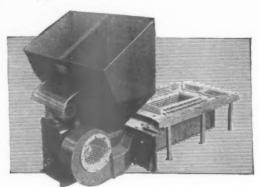


- · Smokeless combustion with bituminous coal.
- Automatic variable feed control.
- Efficient and continuous operation.
- · Low maintenance costs.
- Riley Stokers are available for all types of boilers.



with RILEY Robot Stokers

Just one of Riley's contributions to fuel economy in the New Towns:
No. 12 Robot Stokers at the APV Company's Crawley factory. Two pairs of stokers each fire two 18,000,000 BTU La Mont high pressure hot water boilers for factory heating.



Write for descriptive literature

Fuel Saving is automatic with Riley Stokers

RILEY STOKER COMPANY LIMITED (Mechanical Stokers · Syntron Electric Vibratory Equipment)

Member of the International Combustion Organisation NINETEEN WOBURN PLACE · W.C.1. TERMINUS 2622

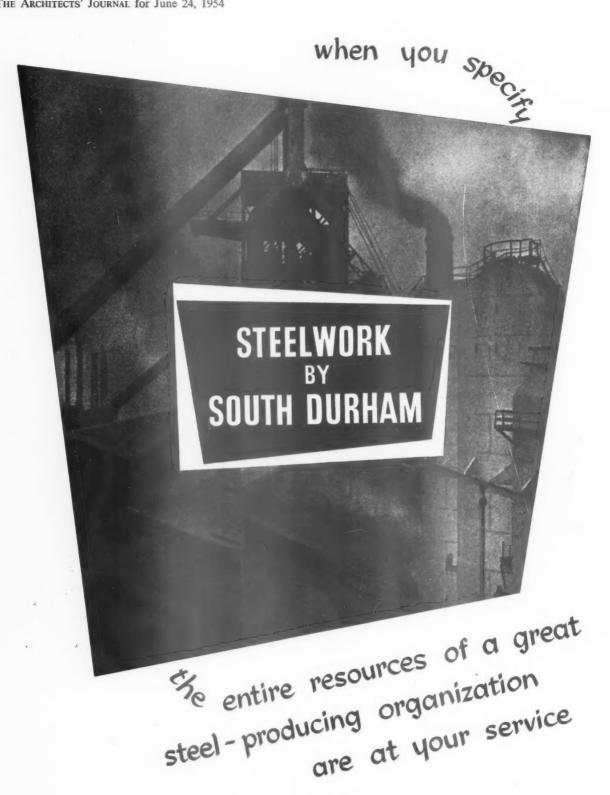


"Of course **WOOD floors** are best"

There's nothing like WOOD



ISSUED BY THE TIMBER DEVELOPMENT ASSOCIATION LIMITED, 21 COLLEGE HILL, LONDON, E.C.4 and branches throughout the country



T-PA typific NUR

TI

fu sy

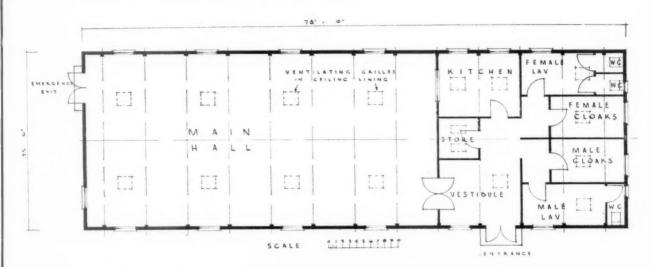
SOUTH DURHAM STEEL & IRON CO. LTD. (incorporating CARGO FLEET IRON CO. LTD.) Centra' Constructional Department, Malleable Works, Stockton-on-Tees. Telephone: Stockton-on-Tees 66117.

T-PANEL SYSTEM OF BUILDING CONSTRUCTION

typified in a

NURSES' RECREATION ROOM for YEOVIL GENERAL HOSPITAL

Architects: PETTER, WARREN and ROYDON COOPER, FF.R.I B.A.
Internal Finishings by MESSRS. BISS & MOYLE, Builders and Contractors, Yeovil.



The Nurses' Recreation Room illustrates one of the many purposes efficiently fulfilled by this rapid and economical system of construction for single storey work. The clean, practical, dry-built structure was erected by one of the Woolaway building teams in ten working days (excluding the internal finishings). The building is well lit, well insulated with overall dimensions of 78ft. long, 25ft. 6in. wide and 8ft. 6in. to eaves.



The range of precast concrete units forming the "T-Panel" System is designed to provide buildings of two heights, 6ft. 8in. or 8ft. 6in., and of five widths, 9ft., 12ft., 16ft. 6in., 18ft. and 25ft. 6in. The length can be varied in multiples of 1ft. 6in. This system of construction will therefore fit the space requirements of a wide range of



single-storey buildings, such as workshops, stores, offices, class rooms, small halls, and of garages, whether single or in batteries. Woolaway are able to supply and erect



British Patents Nos. 636,686, 631,227 and 679,510. Patents granted and pending in many countries overseas

complete "T-Panel" System buildings anywhere in England and Wales and are always glad to send quotations and information. The booklet describing the "T-Panel" System is available on request from the manufacturers.

Please write to the Specifications Dept.,

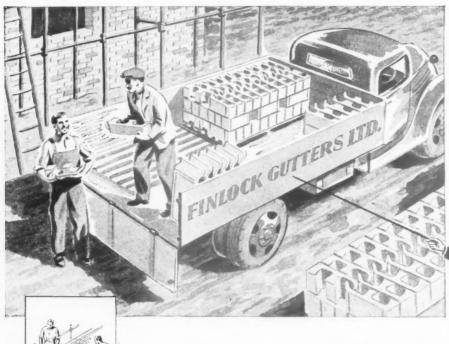
WOOLAWAY CONSTRUCTIONS LIMITED

Head & Registered Office
11 CANON STREET, TAUNTON, SOMERSET

Telephone No: TAUNTON 4496.

Works at Bridport, Dorset and Pontyclun, Glam.

W.6.



"Gentlemen, . . . FINLOCK deliver ON SITE—ANYWHERE!"







FINLOCK Gutters are really "nationwide". With depots deployed over the United Kingdom in carefully selected towns to ensure speedy delivery to anywhere in the country, FINLOCK guarantees to deliver on site any-

Study the map and you will find you are seldom more than fifty miles from a FINLOCK depot.

Immediate delivery on site; the expert who accompanies the goods with practical help and advice and saving of building time and materials make FINLOCK pre-cast concrete gutters the obvious choice for architects and local authorities who are trying hard to keep building costs pegged to a reasonable level.



FINLOCK GUTTERS LIMITED Head Office: FINLOCK HOUSE, 25 FRANT ROAD, TUNBRIDGE WELLS, KENT. Tunbridge Wells3396-9

WE DELIVER TO ALL PARTS OF ENGLAND, SCOTLAND. WALES AND N. IRELAND

Works at: Crewkerne, Somerset Leeds, Yorks Edinburgh, Scotland Cwmbran, S. Wales Royston, Herts Tunbridge Wells, Kent Belfast, N. Ireland Wakefield, Yorks

FLYOVER DOORS

TAKE UP LESS SPACE AND ARE EASY TO OPEN

The FLYOVER door is the aristocrat of its type. It will glide open at a touch, silently and smoothly. It is so perfectly balanced that it can be left in any partly opened position. No sudden drooping. No jerking up. The advantages of FLYOVER doors are many. They take up less space when space is limited. Snow and ice cannot clog them. Rain and damp cannot rust them.

EXISTING DOORS CAN BE CONVERTED



The operating arms and springs of FLYOVER doors are fitted to the door frames, leaving every inch of wall space clear and unobstructed. This outward movement ensures ample clearance over the back of a car. No additional head room is required. The conversion of swing doors to the FLYOVER type can be accomplished quite easily. Descriptive literature is available. As the foremost manufacturers of sliding doors we have a range of gear for every door that slides.

HILLALDAM FOR EVERY DOOR THAT SLIDES

E. HILL ALDAM & CO. LTD., BRITANNIC WORKS, HASLEMERE AVENUE, LONDON, S.W. 18

Telephone: Wimbledon 8080 (5 lines)

Telegrams: "Aldamillo" Put. London



are you

PUTTING COLOUR TO WORK?

These days each colour can do a specific and important job of work. Bright colours in a factory at all danger points, for instance; and colour tie-ups in kindergartens on the *your*-cloakroom-your-classroom principle. Colour is busy helping, soothing, guiding and classifying in hospitals and offices, too.

To make this comparatively recent colour trend easier to handle,

Dockers' have produced 47 colours taken from the Munsell range. The colours are all made up from nine basic tints plus black and white. Dockers' believe this simplification will greatly assist the architect in planning new colour schemes.



Dockers' illustrated booklet "Colour With a Purpose" gives examples of how colour can be usefully employed in factories, schools, hospitals and offices.

DOCKERS'

Makers of Paints Lacquers and Varnishes for every purpose.



LADYWOOD, BIRMINGHAM, 16
London Showrooms:
17 Berners Street, W.1











Did you know that KWIKFORM SUSPENDED FORMWORK

- SAVES 70% LABOUR COSTS OVER TIMBER
- IS SIMPLE TO ERECT AND DISMANTLE
- NORMALLY NEEDS NO PROPPING
- GIVES CLEAR FLOOR SPACE
- HAS NO LOOSE PARTS
- IS ACCURATE AND ADAPTABLE
- and LASTS A LIFETIME

Is available for

- PURCHASE
- HIRE. Special rates for long term
- or FIXED COMPLETE

Our Technical Department is at your disposal. Write for catalogue A19 and further information.



FLATFORM

The Modern Equipment for Concrete Floor and Roof Construction

KWIKFORM LIMITED, WATERLOO ROAD, BIRMINGHAM, 25. Telephone: ACOCKS GREEN 1152 LONDON OFFICE: 66 VICTORIA STREET, S.W.1. Telephone: VICTORIA 8915 & 9896

- ♠ Low-cost dry construction
- Pre-cut to size to save time on site and avoid cutting to waste
- Edight weight is combined with great strength and rigidity
- Wall framing, required at 4 ft. centres only; Roof supports, at 4 ft centres (pitched); at 2 ft. centres (flat)
- Surface ready for immediate decoration.
 No screeding required on roof decks
- 6 Good fire-resistance classification
- High degree of sound absorption
- Exceptionally high thermal insulation

reasons why

MORE AND MORE
ARCHITECTS ARE
INSISTING ON

STRAMIT BUILDING SLABS

2' THICK · 4ft. WIDE · ANY LENGTH (Stock Lengths are 8ft., 9ft., 10ft. & 12ft.)

Available from stock through leading merchants

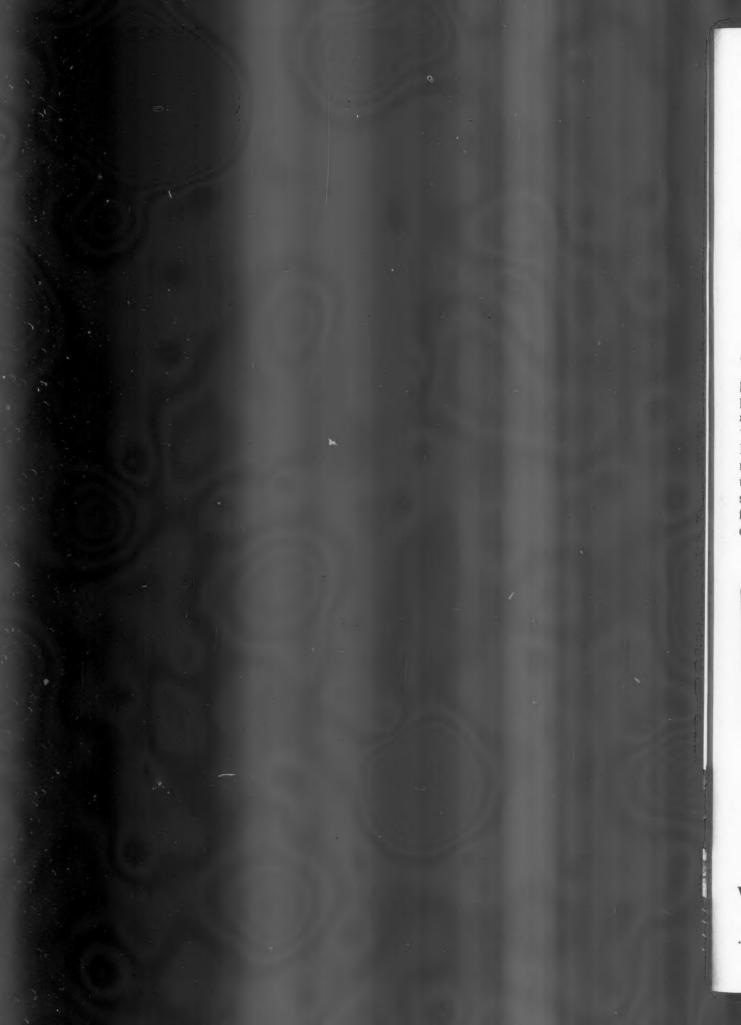
ROOFS
AND CEILINGS
PARTITIONS

WALL LININGS

*
Cistern and Tank
Laggings, etc.,

Send NOW for YOUR copy of our fully detailed TECHNICAL FOLDER (AJ654) and Building Research Station Reports.



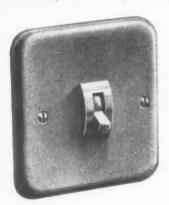




SWITCH TO THE "LINCOLN" TYPE AC

For Replacement Purposes

OBSOLETE surface switches are usually replaced by modern surface switches. However, the current trend places a premium on both exterior appearance and electrical performance. Consequently, where the obsolete switch is on a concealed wiring system, there is a strong case for using the "Lincoln" Type AC flush switch for replacement purposes. Designed with fixing centres of $2\frac{3}{8}$ in., the switch has a wide range of boxes suitable for all types of wiring. In addition, there are no maintenance costs as the switch gives unfailing service under normal conditions. The "Lincoln" Type AC flush switch thus provides the modern replacement—a high efficiency switch with a neat, elegant appearance.



- The switch may be operated in silence.
- Mechanism cannot be operated by vibration.
- Single- or twin-switch units for erection in one-gang extrashallow or B.S. 1299 boxes.
- A competitive switch of robust construction, in every way comparable with the other sturdy "Lincoln" wiring accessories.



Ask us for descriptive Publication No. A 152a

CRABTREE

WIRING ACCESSORIES · SWITCHGEAR · MOTOR STARTERS

PLIMBERITE

FOR ROOF CONSTRUCTION



specified by

BRITISH ELECTRICITY AUTHORITY

(MIDLANDS DIVISION)

TEMPORARY OFFICE ACCOMMODATION Wake Green Road, Moseley, Birmingham, 13

3" PLIMBERITE boards were supported on purlins at 3' 2" centres and covered with mineralised roofing felt. This use of PLIMBERITE provides a solid, permanent roof quickly constructed with minimum labour, the 8' x 4' boards being laid in position and bolted. Electrical fittings are easily fixed with ordinary screws.





PLIMBERITE is a versatile wood chipboard possessing the general characteristics of natural timber. Manufactured in 8' x 4' boards in thicknesses of ½" and ¾", it is used extensively for partitions, floors, walls, roofs, etc. For full details refer to your standard reference books or write to the manufacturers for illustrated technical literature.

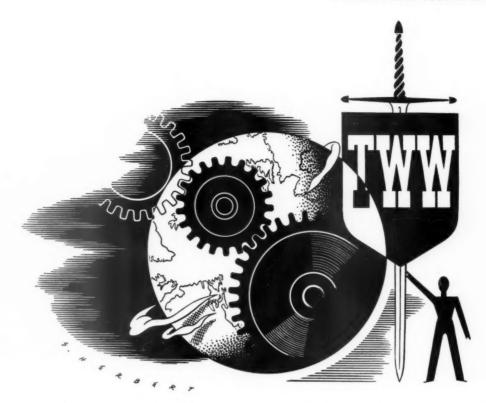
from floor to ceiling, from wall to wall

plan with



BRITISH BUILDING BOARD

BRITISH PLIMBER LIMITED 19 Albert Embankment, London, S.E.II. Reliance 4242



In countless scattered lands, the name of Ward is a symbol of industrial helpfulness. Because of its wide and varied resources, the Ward organisation has been a powerful factor in

SYMBOL OF **EXPERIENCE**

industrial development both at home and abroad. Whether in the design and construction of machinery and plant, the production of raw materials, or the rendering of many specialised services, companies of the Ward Group have AND SERVICE played an increasingly important part in industrial progress over the past 75 years. As the Group has developed so,

progressively, has its experience and its resources; as the scope of its activities has extended, so has its capacity for service in every corner of the industrial world.

The T.W.W. Service Includes:-

4242

IRON AND STEEL . NON FERROUS METALS . PLANT & MACHINERY . TRACTORS & EARTH MOVING PLANT . FOUNDRY PLANT & SUPPLIES · CONTRACTORS' PLANT & EQUIPMENT · EXCAVATORS & CRANES · INDUSTRIAL PLANT · STRUCTURAL STEELWORK CEMENT . GRANITE & FREESTONE . ROADSTONE & ROADMAKING . INDUSTRIAL DISMANTLING . RAILS & SIDINGS SHIPBREAKING . WIRE & WIRE PRODUCTS . NUTS & BOLTS . PACKINGS & JOINTINGS . INSULATING MATERIALS FOOD PREPARING MACHINERY . FACTORY PLANNING & INSTALLATION

THOS. W. WARD LTD.

AND LONDON, GLASGOW, MANCHESTER, BIRMINGHAM, LIVERPOOL, BRISTOL, GRAYS, WISHAW, PRESTON, BARROW, BRITON FERRY MIDDLESBROUGH, MILFORD HAVEN, INVERKEITHING ANTWERP, PARIS, BOMBAY, CALCUTTA, SYDNEY, AND STOCKHOLM

GP/40

PATENT GLAZING

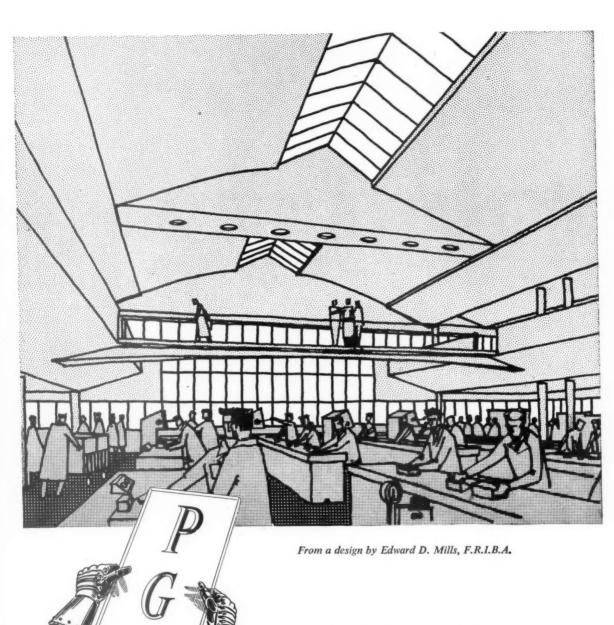
3. FACTORY INTERIOR

The importance of daylighting in a modern factory is now widely appreciated and new forms of construction are being adopted which give bigger unobstructed open space and allow greater flexibility of internal planning. One of the important developments in this connection is the use of shell concrete. The design illustrated shows that patent glazing can be used in conjunction with the new building techniques to provide a high level of daylighting, using both roof glazing and side wall glazing.

In this example, which illustrates one bay of a factory unit, the roof glazing consists of patent glazing bars with wired glass in fixed lights. Double glazing could be employed if additional insulation is required. The side wall glazing consists of patent glazing bars glazed with 4" glass with opening lights in suitable positions, operated by hand controlled gear.

ISSUED BY THE PATENT GLAZING CONFERENCE

SPECIFICATIONS



For all facts about patent glazing, write to the Information Bureau, The Patent Glazing Conference, Burwood House,

Caxton Street, London, S.W.1.

VCE



Our handsome Brochure "A" on the Paragon System will gladly be supplied on request.

of lines of vertical roof glazing with continuous opening lights to give instantaneous ventilation. GLAZING W. Leslie Jones, L.R.I.B.A. Architect and Surveyor. by PARAGON

Telephone: **ABBey 2348** (P.B.X.)

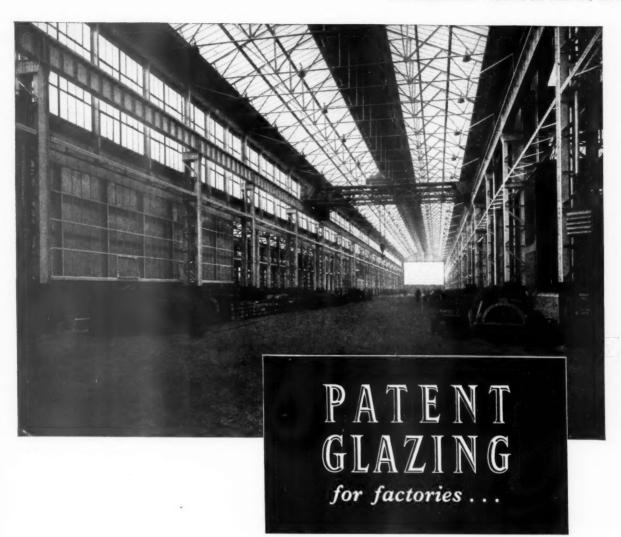
PARAGON GLAZING CO. LTD. I VICTORIA STREET, WESTMINSTER, S.W.I

Telegrams Eclairage, Sowest, London.



CUPRINOL LTD., 37 DOVER STREET, LONDON, W.1

of services available please write to





No mere theory, it is an accepted and established fact that maximum natural light, high productivity and accurate workmanship are directly related. Heywoods Patent Glazing has over a long period of time been providing better lighting for factories, both in the replacement and redesign of old roofs, and installations for new buildings. With this wealth of experience and constant research we can offer a service and reliability that are second to none. You will be well satisfied if you . . .

specify . . .



Send for literature or ask our representative to call

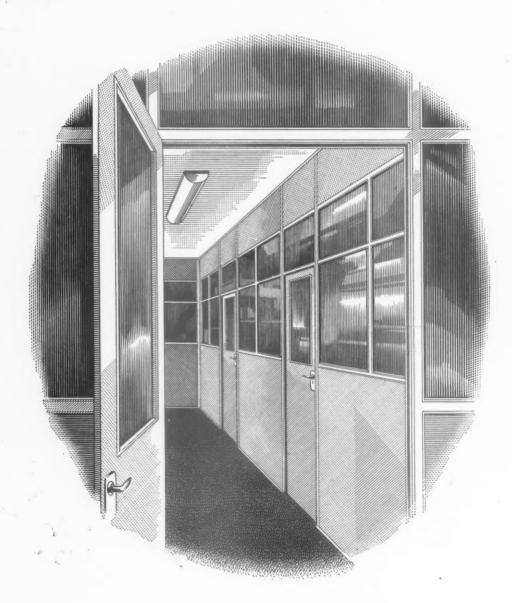
W. H. HEYWOOD & CO. LTD., HUDDERSFIELD. Telephone 6594 (5 lines)

Branches at: London, Manchester, Glasgow, Belfast, Newcastle, Birmingham, Liverpool, Leicester, Nottingham, Coventry, Bristol, Plymouth.

Associate Company in Eire: W. H. Heywood & Co. (Ireland) Ltd., 63-64 Upper O'Connell Street, Dublin.

ndh 3501

RIGID - YET DEMOUNTABLE



PARTITIONING

by

ANDERSON CONSTRUCTION CO.

CLIFTON HOUSE · EUSTON ROAD · LONDON · N·W·I EUSTON 7465

traf

CONTRACTING AGENTS THROUGHOUT THE COUNTRY

Vauxhall Motor Works fit



WHEN "DRIVE-IN" doors were required at the Vauxhall Motor Works, National Pneumatic-Peters' Automatic Door Equipment was specified. Photo-Electric Cell mechanism opens the doors when approaching traffic interrupts a light-beam . . . and they close automatically after a predetermined interval. Interlocking of two or more doors is also possible, permitting the operation of an air-lock or the retention of heat, humidity, etc.

Doors can be of the sliding, folding, or swing varieties, to suit the type of traffic envisaged and the architectural finish. A variety of control systems can be installed, apart from the electronic eye: pull-down or press-button switches can be fitted, and all types can be set for manual operation or left permanently open whenever desired.

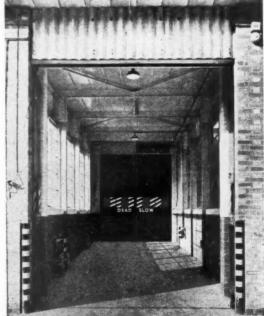
The most versatile and up-to-date equipment of its kind, National Pneumatic-Peters' Power-Operated Door Gear is already installed in a number of large modern factories, shops, hotels, etc. Photo Electric Cell Control in conjuction with Radiovisor Parent Co.



G. D. PETERS & CO. LTD., Engineers, Slough, Bucks

Telephone: SLOugh 23201

Grams: "Peters" Slough



Banister, Walton build in steel

BANISTER, WALTON & CO. LTD.

STRUCTURAL STEEL
Riveted · Welded

LONDON-S.W.1. 82 Victoria Street

MANCHESTER 17. Trafford Park

BIRMINGHAM 18. 61 Western Road



4, Queen Victoria Street, London, E.C.4. Telephone: CITy 1185-6. Telegrams: Keypoint, Cannon, London

Also at Elevator Road, Trafford Park, Manchester, 17

developments in roofing

Robertson Q-Deck is now available in three types to a variety of specifications. It provides a well-insulated roof, for flat or average slopes of industrial and administrative buildings. Rapidly fixed by the Robertson 'Top Speed' method, these lightweight, precision made units, insulated and weatherproofed by the Robertson method, represent the latest practice in roofing technique. Available with ribbed or flat soffit, metal coated or asbestos felt finished, Robertson Q-Deck is fully illustrated and described in leaflet Q.D.1. available on request.

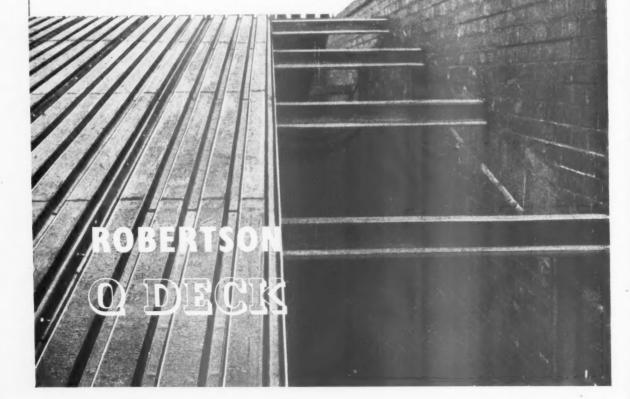


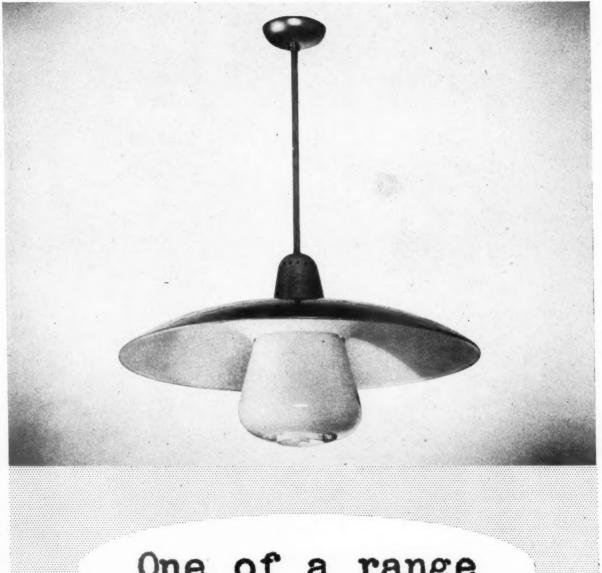
ROBERTSON THAIN LTD

ELLESMERE PORT · WIRRAL · CHESHIRE

Sales Offices:

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





One of a range

of Falks contemporary lighting fittings

designed by J. M. Barnicot M.S.I.A of Falks



91 FARRINGDON ROAD, LONDON, E.C.1, AND BRANCHES







Reduced Prices of

BEACON

Standard Steel Door Frames

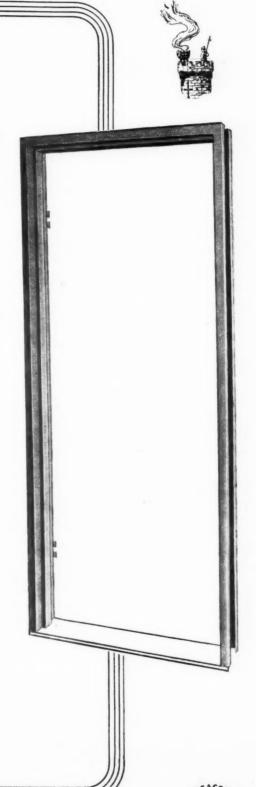
On 1st March, 1954, the prices of BEACON Standard Steel Door Frames were reduced by approximately $7\frac{1}{2}\%$.

This is an instance of highly specialised production methods directly benefiting the user. The reduction in price has been achieved without in any way sacrificing quality.

High quality steel sheet is used in the manufacture of these Door Frames, the sheets being precoated with zinc as a protection against corrosion.

Each BEACON Standard Door Frame arrives on site *complete* with fixing lugs, hinges, pins, adjustable striking plates, shock absorbers and adjustable base ties.

BEACON Standard Door Frames are made in the only factory in this country to be equipped and laid out exclusively for the manufacture of this product.



JOHN THOMPSON BEACON WINDOWS LTD., WOLVERHAMPTON

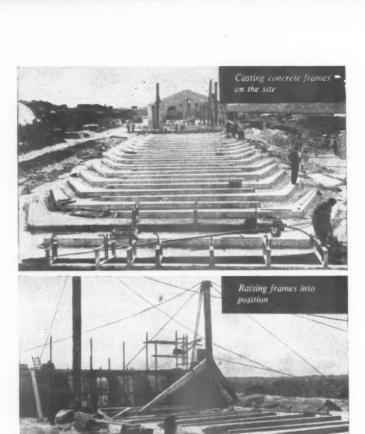


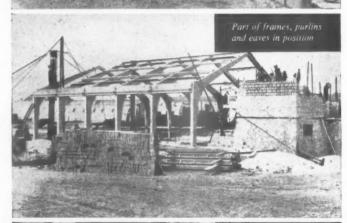
The progress of a factory building constructed in pre-cast concrete units by **Bradfords**

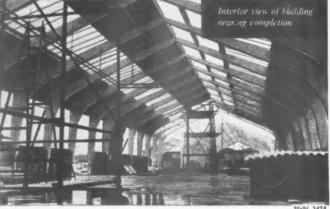
For Lansing-Bagnall Ltd., Basingstoke. Architect & Engineers: C. W. Glover & Partners. Contractors: Musselwhite & Sons, Ltd.

CONCRETE DESIGN AND CONSTRUCTION

F. BRADFORD & CO. LTD., ANGEL ROAD, EDMONTON, LONDON, N.18 Tel: EDMonton 4267







Make 'Mouldex'

PLASTIC (VINYL) FLOORING . RUBBER FLOORING

the keystone

OF YOUR SPECIFICATIONS

The range of floorings offered by British Mouldex covers every requirement for factories, public buildings, houses and hotels. They are all manufactured at our wellingborough factory. No other organisation can offer such a wide range. Every one is of the highest quality and has been giving satisfaction to our customers over many years.

'Mouldex' Hard Rubber Flooring (American Type)

The best rubber flooring obtainable made on an entirely new principle. The material is of the finest quality with a high degree of surface resilience, which ensures silence and comfort when walked upon. The flooring, homogeneous throughout, graduates down in hardness from this resilient surface to a more rigid base, thus making it much more easy to lay. Supplied in continuous lengths 36" wide or in tiles 12" square, in thicknesses of \(\frac{1}{8} \)" and \(\frac{1}{16} \)".

'Durever' (Vinyl) Flooring

Exceptionally hard wearing plastic flooring manufactured in three qualities. 14 attractive colours and designs. Supplied in rolls 36" wide or in 12" tiles. Non-inflammable.

'Mouldex' Anti-Static (Vinyl) Flooring

For use in hospital wards and operating theatres where there is danger of explosion from static sparks. Noninflammable. There is no necessity to earth "Mouldex" Anti-Static flooring, as it cannot build up a static charge.

'Riltex' (Vinul) Flooring

An exceptionally low priced plastic flooring manufactured with a bituminous felt base with a vinyl facing and available in the same colours and designs as "DUREVER". Supplied in rolls 36" wide.

'Mouldex' Rubber & Terrazzo Flooring

High-grade rubber incorporating marble chips or other similar stone. A jointless moisture-proof surface, giving perfect adhesion to wood, concrete, stone or iron.

'Mouldex' Rubber Stairnosings

Individually moulded. As supplied for many years, including the Ministry of Works, for Official buildings, as well as to Hospitals and Public Institutions.

Our first-class laying service is at your command. We will gladly supply samples and estimates on receipt of your enquiry.

British Mouldex Limited

THE MANUFACTURERS AND CONTRACTORS

HYTHE ROAD WILLESDEN NW10 · PHONE: LADBROKE 2454

CYGNET

LABORATORY FURNITURE

"CYGNET" Benches, with heat and acid-resisting tops; Racks, Fume Cupboards, Cabinets and Shelving are made in a large range of standard units or to specification. Complete installations or single pieces for Industrial, School and College Laboratories at keen prices. Built to meet the most exacting demands.



Recent contracts include installations for :—Northern Ireland Hospital Authority, Belfast; University of Sheffield; British Nylon Spinners, Pontypool; Revertex Ltd., Harlow, Essex; De Havilland Aircraft Co.; University of Manchester; Ferranti Limited, Edinburgh; Gs. Lever School, Bolton. Experience enables us to recommend "FIBROLENE" chemical resistant flooring for laboratories. Send for full details now.

JOINERY CYGNET LTD.

Higher Swan Lane, Bolton.

Bolton 1840/4

Scottish Agents:

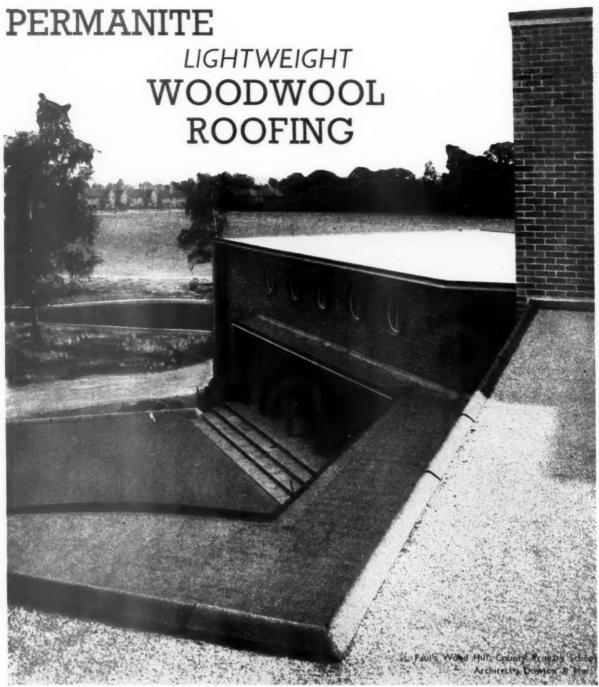
Scottish Instrument Co., Ltd., 4-7 Teviot Place, Edinburgh, I

Tel.: BYPass 3552



Other Stent Products include: Precast Concrete Piles Arrow Hollow Beam Flooring

Stone ^{*} Hydraulically Pressed Paving Flags & Kerbs ^{*} Prestressed Concrete Railway ers (for main & Secondary Lines) ^{*}Farm Buildings ^{*}Silos & Various Agricultural Units.



PERMANITE LIGHTWEIGHT WOODWOOL ROOFING is adaptable to all types of roof plan. It is economical in construction and quickly laid by our own expert craftsmen. The roofing is finished with a surface dressing of either Grit, White Spar, Granite Chippings or a final layer of Mineral Surfaced Felt. The Thermal Insulation "U" value for the roof is only 0.22 B.T.U./Hr./Sq.ft./F., resulting in a considerable saving in both fuel and heating units.

Our Technical Staff will be pleased to give advice and estimates without any obligation on your part

PERMANITE LIMITED

BIRMINGHAM

220 Kingstanding Road, 22c Phone: BIRchfields 5041-2

LONDON-HEAD OFFICE

455 Old Ford Road, London, E.3 Phone: ADVance 4477 (10 lines)

SALFORD

Stanley St., Salford, 3, Lancs, Phone: BLAckfriars 9469



ESTATE S L I D I N G DOOR GEAR

The illustrations above and on left show yet another example of the use of ELLARD "Estate" Sliding Door Gear in the modern dwelling house. See how simple it is to convert a spacious room to one of a cosy intimate atmosphere. The fingertip smoothness of door action offers immediate reduction of living space when desired with the additional advantage of fuel economy. Elegant appearance, ease of operation and long service are the main selling features of this attractive ELLARD Door Gear. Excellent design, moderate cost and maximum use offloor space make ELLARD Door Gear the obvious choice for both council estates and private houses.

SEE OUR EXHIBITS AT THE BUILDING CENTRES, 26 STORE STREET, LONDON, W.C.I, AND 425-427 SAUCHIEHALL STREET, GLASGOW, C.2

CLARKE ELLARD ENGINEERING COMPANY LTD

WORKS ROAD . LETCHWORTH . HERTFORDSHIRE

TELEPHONE: 613 - 4

BMJ

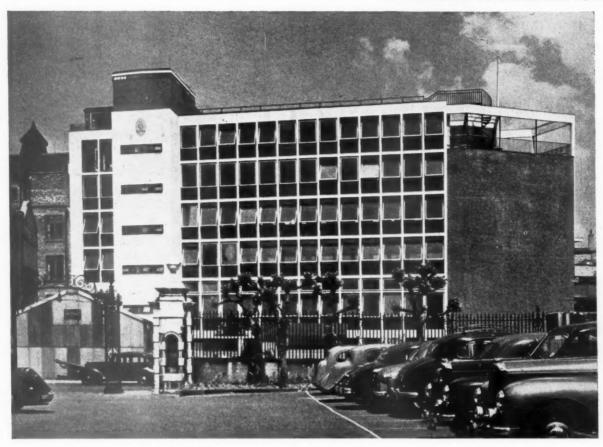
ELIDING DOOR GEAR

The illustrations above and on left are two examples of ELLARD "Radial" Door Gear fitted to garages on a housing estate. The lower picture shows part of a range of thirty-six garages built in rows one above the other on what was once a hillside. This group of garages adjoins a council housing estate, and provides convenient and moderately priced garage accommodation for tenants. This scheme admirably suits smaller dwelling house estates and offers a profitable return as investment. Specify ELLARD "Radial" Sliding Door Gear for all round excellence of design, moderate cost and prompt delivery.

CLARKE ELLARD ENGINEERING COMPANY LTD

WORKS ROAD . LETCHWORTH . HERTFORDSHIRE

TELEPHONE: 613 - 4



OFFICES AT FIELDEN HOUSE, LONDON BRIDGE STREET, LONDON, S.E.I. FOR THE KING EDWARD'S HOSPITAL FUND FOR LONDON. Architect.: J. S. LACEY, A.R.I.B.A., A.M.T.P.I.

PRESSURE PILES WERE SPECIFIED

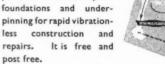
ORIGINAL SYSTEM SECURING: THE

- NO VIBRATION-Pressure Piles are cast in situ without vibrationhence no damage to fabric or annoyance to occupants of adjacent property.
- LOW HEADROOM—Pressure Piles are easily installed in basements. in tunnels, under bridges, etc., etc., with a minimum of 6 ft. headroom.
- GREAT EXPERIENCE—We originated the Pressure Piling System and have already installed over a million feet of Pressure Piles under all sorts of conditions.

AN INTERESTING BOOK TO ARCHITECTS:

Architects and Engineers are invited to write or phone us for a copy of "The Pressure Piling System". This informative booklet gives

you technical data on piled foundations and underpinning for rapid vibrationless construction and repairs. It is free and



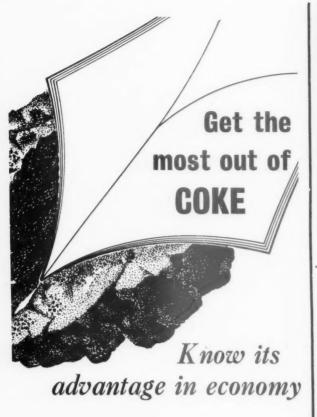
THE **PRESSURE PILING COMPANIES**



THE PRESSURE PILING CO. (PARENT) LTD., 637 Old Kent Road, London, S.E.15. Tel.: New Cross 0347/8/9 Enquiries for the North of England and Scotland should be addressed to:-

THE PRESSURE PILING CO. (NORTHERN) LTD., 6 Winckley Square, Preston, Lancs. Tel.: Preston 5221

The original and LARGEST Bored Piling Specialists in the World



Read up on

DOMESTIC COKE BURNING APPLIANCES

The Gas Council's official

"COKE-BURNING APPLIANCES HANDBOOK"

gives you essential information on all aspects of their selection, use and maintenance. Detailed illustrations and diagrams. This invaluable book should be in the hands of all those concerned with the fuel services of the modern home. 246 pages. Price: 12/6.

A second (free) handbook of interest is named below*

The Gas Council's helpful handbooks are written especially to meet your problems and enquiries. Ask for them and any specialised information you want from your Area Gas Board or the Gas Council.

The Gas Council, Coke Department, 1 Grosvenor Place, London, S.W.1





Offices at Fielden House, London, S.E.I.

Architect: J. S. Lacey, A.R.I.B.A, A.M.T.P.I.

GENERAL CONTRACTORS

G. E.

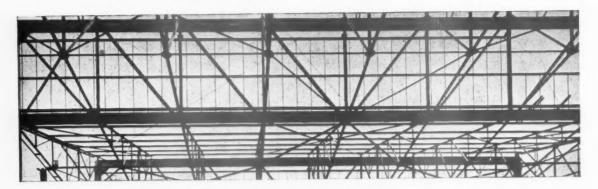
WALLIS

& SONS, LTD.

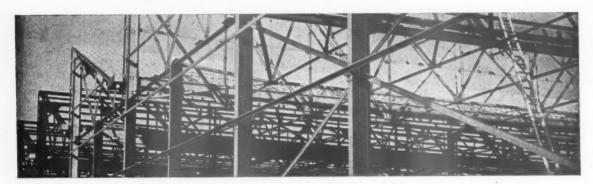
231 STRAND, LONDON, W.C.2

GRAVESEND · MAIDSTONE · TRURO

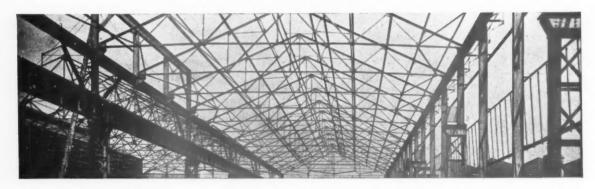
STRUCTURAL STEELWORK



designed, fabricated and erected



BY BRABY



Structural Steelwork is designed, manufactured and erected by Braby who have more than a hundred years of the widest experience in using metal for building at home and overseas. Braby products for the building industry include galvanized corrugated and plain steel sheets and accessories, gutters and downpipes, metal windows and partitions, pressed steel stairs, cisterns, cylinders and tanks, gantries, towers and trestles, derricks, gangways and other building equipment designed for export. We welcome your enquiries.



FREDERICK BRABY & COMPANY LIMITED

Eclipse Works, Petershill Road, Glasgow, Euston, N. Tel. Springburn 5151

OTHER FACTORIES AT: Fitzroy Works, Euston Road, London, N.W.1. TELEPHONE: EUSton 3456
Ida Works, Deptford, London, S.E.8. TELEPHONE: TIDeway 1234
Havelock Works, Aintree, Liverpool, 10. TELEPHONE: Aintree 1721
Ashton Gate Works, Bristol, 3. TELEPHONE: 64041. Also Falkirk & Motherwell.
OTHER OFFICES: 110, Cannon Street, London, E.C.4. (Export). TELEPHONE: MANsion House 6034
Queen's Buildings, 10, Royal Avenue, Belfast. TELEPHONE: 26509
Palace Street, Plymouth. TELEPHONE: 2261



Architect.

John S. Lacey, A.R.I.B.A., A.M.T.P.I.

Main Contractor.
G. E. Wallis & Sons, Ltd.

25" Dark Brindle Hand Made Sandstock Facings.

Supplied for:

Fielden House,

London Bridge Street, S.E.1.

(As featured in this issue).

This important specification was entrusted to:

A. TURNER & SON (LONDON BUILDERS' MERCHANTS) LTD.,

Head Office and Facing Brick Showroom.

"STRATFORD MANSIONS"

34, SOUTH MOLTON STREET,

LONDON, W.1.

Telephone: GROSVENOR 7551 (6 Lines).

FACING BRICKS OF CHARACTER OUR SPECIALITY.

Safeguarding your clients' interests **

CARRELLE CARRELLE CARRELLE CONTRACTOR CONTRA



There are many ways of protecting your clients' interests over and above your professional work. Insurance is one of them. If you are not already an insurance Agent you may not know the best answer, particularly in the matter of recommending Assurance through a mutual office.

The United Kingdom Provident, one of the oldest and best known mutual offices, has no shareholders; all profits belong to the policyholders. This encourages a high bonus rate. For instance, the current bonuses are 38/- or 40/- per cent. Competitive premiums are quoted for all kinds of life assurance (including house purchase) and for fire and accident risks.

We have booklets which will assist you. Send for them today. They will prove interesting, helpful and may be profitable.

UNITED KINGDOM **TEMPERANCE & GENERAL** PROVIDENT INSTITUTION

ASSETS OVER THIRTY SIX MILLION POUNDS

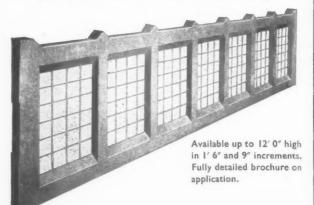




33 GRACECHURCH STREET, LONDON, E.C.3

Mansion House 6543 (6 lines)

Pre-cast concrete mesh-filled, also solid panel and weather-board fencing



MESHCRE

The Permanent Fence suitable for every site. Ideal for Schools, Hospitals, Factories, Housing Estates and Factory Internal Partitions.







SPECIFICATION:

Concrete Frames (in Buff colour) filled with 10 gauge galvanised High Tensile Wire Fabric.

> SOLID PANELS IN SEVERAL DESIGNS

All components are finished in a pleasing shade of light brown sand-faced texture on both sides.

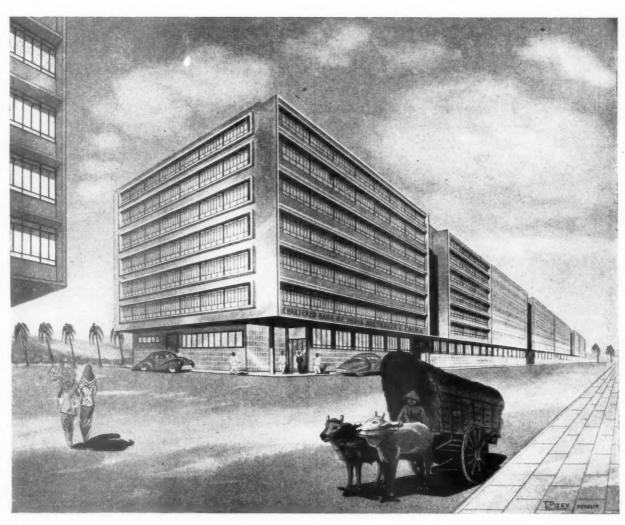
Supplied and erected by the sole manufacturers and patentees:

EBOR CONCRETES LTD., URE BANK, RIPON, YORKSHIRE.

Tel: Ripon 202

AGENTS:

C. A. MASSIE & Co., 13, Alva Street, Edinburgh, 2.
ALEXANDER LEITH & Co., 25, Collingwood St., Newcastle-on-Tyne, 1.
Tel.: 24095. DURAFENCING (NORTHERN) Ltd., 13 Bridge St., Manchester, 3. Tel.: Blackfriars 6486 DURAFENCING (BIRMINGHAM) Ltd., 357, Coventry Rd., Birmingham, 10.
Tel.: Victoria 0224 DURAFENCING (BIRMINGHAM) Ltd., 13, Upper Belgrave St., London, Tel.: SLO 3409



Architects: SWAN & MACLAREN, SINGAPORE

JONWINDOWS overseas—

Since we commenced making Metal Windows in 1889 many improvements in construction have been made. The trend towards standard dimensions and the great advance made in their protection against rust has been a feature of our progress. Today, "Jonwindows"—the name under which our Metal Windows are universally known—can be seen in buildings throughout the world.

The above drawing of the Bank and Office Buildings of the Chartered Bank of India, Australia and China, now in course of erection in Robinson Road, Singapore, are to be exclusively fitted with "Jonwindows" supplied by John Williams & Sons (Cardiff) Ltd., makers of "Standard", "Z. Range" and "Purpose made" Metal Windows.

PROTECTED BY HOT DIP GALVANIZING



MEMBERS OF THE METAL WINDOW ASSOCIATION



bild

0" high ements.

als, ory

Buff auge nsile

S

ishaced

195.

486 10. HN WILLIAMS & SONS (CARDIFF) LTD. CARDIFF · MOORS ROAD .



... but you can be confident
of your work, if Sealocrete
Products are used for
your waterproofing. Our business
is based on satisfied customers
and conscientious after sales service.

SEALOCRETE

DOUBLE STRENGTH PREMIX



... for concrete—Sealantone

Liquid Colours in a variety

of shades, for the integral colouring

of concrete and tasteful

decoration of most buildings.

SEALANTONE

LIQUID COLOURS FOR CEMENT



SEALOCRETE PRODUCTS LIMITED

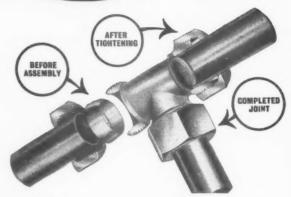
ATLANTIC WORKS, HYTHE ROAD, LONDON N.W.10 Telephone: LADbroke 0015-6-7.

Grams and Cables: Sealocrete, Wesphone, London.

Stand No. 44, The Ministry of Works Building Plant Exhibition, Reading, 24—30 June.



COMPRESSION JOINTS



Help to cut housing costs

- 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 (½"-2"). Compare these typical list prices:

½" 40 Str. C/C Coupling1/4	each
3" 40	33
½" 41 Str. C/Iron/Fem1/2	22
3" 42 Str./Male Iron/C1/5	1 2 22
½" 44 Elbow, C/C	22
½" 50 Tee, C/C ends2/6	
½" 58X Backplate Elbow, C/Iron2/7	1 2 22
1" 59 Stopcock C/C BS 1010	1 2 22
3" 35 Tank Coupling2/2	

Consult your merchant for further details.

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

cac

DN

TED

χ,

per er. not

of nost

are

ach

10

R E.I



The floor that says 'come in!'

FOR BUSY SHOPS AND SHOWROOMS





For beautiful durable Floors...lay $Accotile^*$

Inviting in appearance, Accotile—the modern tile flooring—also has the toughness to withstand the constant abrasion and shock of heavy traffic in retail stores. Versatile for design and colour harmony, with 22 colours and two standard sizes— $12''\times12''$ and $9''\times9''$ —Accotile is quickly laid and easily maintained. Cost is low, comparing favourably with most other surfaces. Laying is carried out only by Armstrong Cork Co. Ltd., or approved Specialist Contractors working from more that 90 branches and depots throughout the country.

British Registered Trade Mark 663698, Armstrong Cork Company Limited, Registered Users,

ARMSTRONG CORK COMPANY LIMITED, Flooring Department, BUSH HOUSE, ALDWYCH, LONDON, W.C.2. Tel.: CHAncery 6281

Solid Floors with MARLEY TILES reduce costs

For the ground floors of houses, hospitals, schools and public buildings, costings on current prices prove conclusively that very appreciable savings can be made by using solid floors with Marley Tile finishes. Such buildings are warmer, there can be no floor draughts, and the floors are completely free from all risk of dry rot.



Marleytile colours shown: C206, D319 and Red Feature Strip



Marleytile colours shown: C205 and D324

Marley Skirtings are extremely durable, rot proof, fire-resisting and provide a perfect union between wall and floor.

A Marley floor is a complete floor in itself; additional floor coverings are unnecessary. The wide colour range gives great flexibility of design.

MARLEYTILE



The Marley Tile Company, Ltd.. London Road, Riverhead, Sevenoaks, Kent, Sevenoaks 2251 London Showrooms at Alfred Goslett & Co. Ltd., 127-131 Charing Cross Road, W.C.2.

GERrard 7890







THE ARCHITECTS' JOURNAL

EDITORIAI 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) Editor Information Sheets, Cotterell Butler, A.R.I.B.A. (6) Editorial Director, H. de C. Hastings.

GUEST EDITOR (CONVERSIONS): (8) Felix Walter, F.R.I.B.A.

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), Lance Wright, A.R.I.B.A., (23) Photographic Department, H. de Burgh Galwey, W. J. Toomey (24) 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. 3095 June 24, 1954 VOL. 119

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.



TWENTIETH-CENTURY PATRON

Last week the JOURNAL Editors congratulated Howard Robertson and Stirrat Johnson Marshall on the honours given them in the Queen's Birthday list. ASTRAGAL, belatedly following suit, would also like to congratulate John Newsom, the Herts chief education officer, who received a CBE.

It is, of course, impossible to get good architecture without an intelligent, enlightened patron—and that is the part that Mr. Newsom has played so well. Before the county architects' department at Herts got into its stride, he ensured that some of the best private architects were given schools to design. He has had a tremendous influence on

the planning of schools. Unlike many county education officers he goes out of his way—and makes his staff follow his example—to advise architects on educational matters which affect school design.

Mr. Newsom, who—as a public office equivalent to the eighteenth-century patron—has played a big part in the successful post-war programme at Herts, will be known to many readers for his wit as a speaker on radio and television.

NEW WAY WITH OLD MONUMENTS

The MOW has introduced an interesting experiment in its current Building Week at Sheffield. To supplement the usual technical exhibits the Ministry is showing a series of display panels (containing photographs, plans and brief but informative text) which tells visitors something about ancient monuments within reach of Sheffield.

Three buildings were chosen for this experiment (Monk Bretton Priory, Conisbrough Castle and Roche Abbey), and if the Ministry finds the experiment successful it intends to produce panels of historic buildings near other centres. After they have played their part in Building Week exhibitions, these panels can be used for educational purposes, and for arousing interest in the question of conservation of ancient monuments. Museum curators should find them useful as a background to their occasional ad hoc exhibitions of local antiquities.

DISENCHANTED EVENING

ASTRAGAL turned up at the discussion on the model building bye-laws at the RIBA in the hope that he would hear architects pouring out their technical troubles. But unfortunately A. J. Symons, of BRS, who led the discussion, opened with a learned account of the history of building legislation, which gave the cue to all subsequent contributors to talk out the allotted two hours with hopeless generalities.

At the end ASTRAGAL feared that he would scream if yet another speaker were to get up to weave jokes round the Babylonian penal code. . . .

THE FULLY-FORMED ENGINEER

A recent leader in *The Times* suggested that a Royal Academy committee might advise on the choice of a colour television system. A reasonable enough suggestion, but it has made a Mr. Stephenson (presumably an engineer) very cross. In a letter to the offending newspaper he has asked (a) if musicians should advise on frequency-modulated radio, and (b) if the safety of the proposed Severn Bridge should be left to a panel of architects.

The answer to (a) is surely yes; the answer to (b) is that there is an architect concerned with the appearance of the Severn Bridge, although its safety is an engineer's job. Mr. Stephenson claims that "the fully formed engineer is a compound of common sense, artistic values and technical knowledge." No doubt, but how many engineers are fully formed? Too many of them play around with cathode ray tubes, prattle about Angström units and think that because two curves coincide the answer is perfect.

CREATION

WITH

CRAFTSMANSHIP



Staircase to Lower Ground Floor, Messrs. Hammonds Ltd., Hull Panelling, Balustrading and Handrailing by Courtney, Pope Ltd.

Architects: T. P. Bennett & Son

THE ASSOCIATED COMPANIES OF

COURTNEY, POPE

COURTNEY, POPE LTD., Shopfitting, Architectural Joinery and Metalwork

COURTNEY, POPE (ELECTRICAL) LTD., Lighting Specialists

AMHURST PARK WORKS, TOTTENHAM, LONDON, N.15 - STAMFORD HILL 4266 (10 LINES)

It is Letha Hall, tion v

School largel diplor invocation vocation vocation vocation invocation invocation invocation invocation vocation vocation

their design have l going and in

Not indep they

enlight good avails ASTR furnithe states Hall. derive being whice

The designation designation and effective designations are for the designation of the des

The again the a Pulle the inclustore correct 130

end mea elim

it is hori

Th Arth Jelli

A PAT FOR LETHABY'S BRAIN-CHILD

It is not often that the name of W. R. Lethaby is bandied about in County Hall, but that gentleman has a connection with the LCC through the Central School of Arts and Crafts, which was so largely his brain-child, and its recent diploma-day was the occasion for the invocation of his mighty name. The Central's annual prize-giving is never quite like that of other art schools, and ASTRAGAL was pleased to observe, among the usual pretty girls going up for their distinctions in pottery, fabric design and such, men students-who have long since ceased to be teenagersgoing up for their diplomas in furniture and interior design.

Not many of these men will become independent designers, one suspects, but they are helping to build up a body of enlightened craftsmen who will make good contemporary furniture more available than it is at the moment. To ASTRAGAL'S possibly jaundiced eye, the furniture seemed by far the liveliest of the students' work exhibited at County Hall. Certainly it was chi-chi, and derivative too, but there is a way of being smart, and a way of copying, which reveals the promise of quality.

The Central's exhibition of industrial design is on view at the School itself, until tomorrow—and it is worth making an effort to see.

THOSE WHITE CLIFFS AGAIN

The Dover flats scheme is in the news again. A report in The Times says that the architects (K. Dalgliesh and R. K. Pullen) have made some alterations to the original design, and that these include "a reduction in the number of storeys from fifteen to twelve, with a corresponding reduction in height from 130 ft. to 105 ft." "The layout," says the report, "will follow a gentle curve the block of flats at the western end will be turned " (whatever that may mean), and "the turrets . . . will be eliminated." In addition "the balconies ... will be brought forward and this, it is thought, will give emphasis to the horizontal rather than the vertical appearance of the building."

This revised design is approved by Arthur Kenyon, the assessor, and G. A. Jellicoe, the consultant architect for



Breakfast-table architecture. See note below.

Kent CC. It remains to be seen whether or not the Kent CC and the RFAC also approve of it. In ASTRAGAL's opinion the removal of three storeys from the high block will not alter the mock-cliff appearance of the whole scheme. And until it is clear how much of the western block is to be turned one cannot say whether or not the very relevant criticism that this type of layout cuts off the sea front from the town has been answered.

The town clerk of Dover is quoted as saying that the RFAC have had no practical alternative to put forward. It depends, of course, on one's interpretation of "practical," but it is hard to imagine such an intelligent body of men completely stumped for suggestions. Anyway, the moral for assessors surely is: if you are drawing up conditions for a competition on a site of national importance, make sure the RFAC agree with them.

BREAKFAST-TABLE ARCHITECTURE

Those of you who follow the 30-second

breakfast routine to the letter, and keep the cereal packet on the table while you eat, must have noticed the cut-outs on the packet's back-motor-cars, Red Indians and so forth-which help to relieve the tedium of the toddlers' existence, take the edge off the best scissors and cause nasty gashes in the edge of any scale-rules that get left about. A correspondent who eats a different flake to ASTRAGAL has just drawn attention to the fact that her packets have architectural cut-outs, whose realism is undoubted (see illustration above) but which, she feels, hardly set the younger generation a very high ideal of æsthetic value. Could not the JOURNAL, she asks, devote its front cover to simple cutand-folds of famous masterpieces of the Modern Movement? Tut!—if one may say so.

If my correspondent had looked closely at the cover she would have seen a thick black rule running down the side of the tabulated information. Start cutting these out right away if you are not already doing so; they are the glazing



The winning design in the competition for flats at Dover. A modified scheme is discussed above by ASTRAGAL.



High Wimbledon

The first major scheme designed by the Housing Division of the LCC Architects Department (formed in 1950) is now nearing completion. It deserves a prominent place in architectural news for two reasons: it contains the first group of point blocks to be built in this country as well as flats which have won an MOHLG housing medal. The three eleven-storey point blocks, with their very small ground coverage, were brought into the Ackroydon estate scheme so that the pleasantly wooded site, which adjoins Wimbledon Common, could be developed at a high

density without losing its character. The great success of the scheme, which is discussed opposite and illustrated on page 762, is due not only to the LCC architects, but also to planners, management and Parks Department. It is an astonishing revelation of the sort of work that can come from a complex government machine, and it must certainly have convinced the LCC—if it still needed convincing—of the wisdom of its action (taken some four years ago) in transferring responsibility for the design of housing from its valuer's to its architect's department.

bars UN erect enou 1976 THE

> As noor

Mus patr haps End ing reco barg is n

> hav desc froi mile alth witl chu read viev two rap

STE Ste

> disc doe atte hor enc wit litt

abo of WI Sco sio

bars of a simply enormous model of the UN building, and instructions for its erection will be published as soon as enough have been printed, *i.e.*, June 18, 1976—allowing for leap years.

THE BARGE AGROUND

ASTRAGAL spent an entrancing afternoon last week at the National Maritime Museum, an institution which is not patronized as much as it should be, perhaps because it is a little remote by West End standards. The occasion of my visit was the Thames Barge Sailing Club's show of models, pictures, records, books and other items on barges, now, alas, either dying or going diesel. This is a show that you cannot see properly in less than a full afternoon, but it goes on until September, so there is no excuse for missing it.

STEVENAGE REPORT

Stevenage Development Corporation have produced a fifty-page book* describing what they have achieved from 1945 to 1954. It is, to put it mildly, an extremely modest little book, although quite attractively produced, with photographs of the pleasant new church hall and the pub with which readers will be familiar, and aerial views showing sites before and after a two-year interval to demonstrate how rapidly the town is expanding.

The difficult thing about the book is to discover for whom it was written. It doesn't go out of its way to attract the attention of either industrialists or the homeless. It isn't nearly a detailed enough account to be of great value to those interested in the history of town planners—it is impossible to believe that the town has developed so smoothly and with so few doubts and second thoughts—and it has no information for architects. Nevertheless this neat, expurgated little book is there for those—not in the above categories—who want the story of the town in a nutshell.

WITHOUT COMMENT

ccess of

ated on

but also

It is an

n come

certainly

incing-

ars ago)

housing

A special correspondent in *The Scotsman* has written thus on the extensions to Heriot-Watt College:—"As the building will be largely out of the public gaze, the architect, Mr. Esmé Gordon, has been free to design in the contemporary manner."

ASTRAGAL

POINTS FROM THIS ISSUE

Modification of Dover flat	s des	ign					page	755
The LCC point-block sche	eme	pag	e 756,	edito	rial bel	ow and	page	762
RIBA election results		• •					page	759
Proposed opera house for	Alde	burgh					page	761

The Editors

THE LCC HOUSING DIVISION'S TRIUMPH

THE LCC's Housing Division has certainly proved its worth. The first major scheme designed by this division, which was formed in 1950, is nearing completion. The major achievement of the Division in its work on this scheme—the Ackroydon estate (see page 762) is its provision of a high density of housing while preserving the spacious and well-planned gardens which existed on the site. The chief means by which maximum density has been combined with maximum "common ground" for tenants is the use of three eleven-storey point blocks, one of which—the only one so far completed—is seen opposite. This particular block is linked to the rest of the scheme by wooded grounds which are said to have been laid out by Paxton, and it seems that both here and in other parts of the site the architects and planners have so relied on the landscape giving unity to the scheme that they have ventured to provide greater contrast between building types than they would have done on a more open So far each group of buildings has unity, but it must be said that there are signs that this unity may be missing in other parts of the scheme when they are completed.

It seems unlikely that the "Mark II" point block (square on plan) now under construction in the Wandsworth area will have quite the elegance of the T-shaped block now completed, and one can only assume that the T-shape is too expensive. Certainly the shape of the completed point block has been partly responsible for its unsatisfactory space-heating—by gas or electric fires. Apparently a central heating scheme was planned for Ackroydon, but it was abandoned for economic reasons—one of which, presumably, was the small number of flats (33) in each block. Another reason was that the point blocks were dispersed over the site—a dispersal that was æsthetically essential in such a place.

However, the loss of a central heating system is of small importance in a scheme which will cause all who see it to marvel that anything so handsome, and so human in scale, could come from the complex government machine.

^{*}The Building of the New Town of Stevenage is published by the Stevenage Development Corporation.



W. P. Winston, A.M.I.C.E.
Thomas Spencer, F.R.I.B.A.
C. R. Vinycomb

Long-Term Planning

SIR.—In the JOURNAL one often sees references to the controversy over planning. More particularly I refer to the discussion over the responsibility of the various professions. I have worked for a number of years now in regions which have been developed very rapidly. As a result I am rather surprised that so little reference is ever made to the nature of the long-term planning problem.

planning problem.

Many of us who have been concerned with planning are no doubt aware that there are really two kinds of planning. So far they have not been named. For want then of accepted names I will refer to them as static planning and dynamic planning. The normal type of planning experienced is static planning and this is the kind of planning usually taught. I use the term static because this type of planning is based entirely on the use of current resources.

For example, the static type of planning is usually applied to building design and town planning. Building design is usually based on using the materials, labour and services available at the time when the design is prepared. It is difficult to do otherwise. Town planning, in its turn, allows for expansion but rather along the lines of present day development.

The idea befind dynamic planning is different. It is concerned with planning over a period and involves incorporating into plans the changing social and industrial pattern. It may perhaps be easiest to explain dynamic planning by giving some examples.

dynamic planning by giving some examples.

An outstanding example is the development of road traffic over the last thirty to forty years. In domestic architecture the garage has emerged as an essential addition to many suburban houses. In towns and cities there is the problem of providing parking space. Roads are having to be improved and congested areas have to be bypassed.

Locally domestic architecture provides examples. Much use is now made of reinforced concrete. It has taken many years to develop the techniques. It has then taken some years to develop designs which exploit the use of this material to best advantage. A similar development is now occurring with air conditioning. Air conditioning is now considered essential for cinemas but may or may not be applied to offices. In the house it is so far only acceptable in the bedroom. We have still to discover how to air condition the living room satisfactorily. I should perhaps point out that in this matter of air

conditioning I am referring to the moist equatorial climate. Other difficult climates have of course been air conditioned satisfactorily.

In some quarters there is very little conception of dynamic planning and the local development of civil aviation serves to illustrate this point. For various reasons, such as the degree of development of surface communications, there is scope locally for internal air services. In recent years a number of airstrips have been built for these services. From the planning point of view the problem of siting the airstrip is often solved by siting it well clear of the town where it is claimed it will not interfere with development! In one instance an airstrip was integrated with a town in much the same way as a railway station or bus station is integrated. There was strong opposition but this was not on account of noise or flying

call dynamic planning it would be of interest to see how the various professions react to it,
W. P. WINSTON.

Kuala Lumpur, Malaya.

No-Driving Drive

SIR,—I was very interested, and in a way amused, to read ASTRAGAL'S remarks under "Wanted—A No-Driving Drive" (June 10). I don't know if you will remember it, but you are stirring up an old trouble which was dealt with in the JOURNAL of October 15, 1930. If you have a copy of this in your library, and will refer to page 580, you will then find the solution to this chaotic condition which was suggested at that time, but not adopted.

THOMAS SPENCER.

London.
[See illustration below.—Ed.]

THE ARCHITECTS' JOURNAL for October 15, 1930

LONDON'S GARAGE PROBLEM

A Ring of Car Parks Underground

DEVISED BY THOMAS SPENCER

of cars who have been d to use them for to and out of London dious experience that e time is wasted in ermost three or four traffic congestion is tion of the run often the remainder, where involved is of about niles. This condition eriously aggravated as

the car is in London, one with it? It may certain public places, only for two hours to the number of a dozen or more, situated on the perimeter of the congested area, where motorists would leave their vehicles, completing their journeys to the City by the public means of transport, already abundant, and susceptible of considerable acceleration were the roads made freer for them by the withdrawal of all private vehicles.

The garages would accommodate about 2,000 cars, and would be constructed underground. This is not a new suggestion: the idea of so using Leicester Square has recently been mooted. The use of any square, however, is open to the objection that

advantages over become an unw considerable de heights, in the garages) have to be easily and One would driby one ramp, a other, both bei the precincts of large open space E_{l}

The

Bra

tion

(see

F

we

Bre

and

Ro

ele

PA

Th

T

Sir

Ho

She Bra Ho

An

9, 11.

Ar

Ha

Ri

AS

T

for

vo

M

Cu

LI

G

The question of the poisonou gases from mo of high importurgency under difficulty that

Part of the article referred to in Thomas Spencer's letter.

hazards. The opposition arose because the old static type town plan had to be abandoned and it was not easy to see how to evolve a new plan.

Perhaps these examples serve to illustrate dynamic planning and its problems. Perhaps the absence of this concept of planning was the background to some of the criticism of the South Bank Exhibition. That exhibition was a magnificent exhibition of what Britain could do but to many of us failed to demonstrate the dynamic nature of British development. Radar on the Shot Tower in this respect would be more symbolic than the Skylon.

What I am arguing is of course but one point of view. Never the less many of us who have been concerned with long term planning, that is planning covering periods of five or ten years or more, must have been exasperated at the obstruction to our plans or by modifications. But looking back, I think possibly the root cause has been that a static plan has been modified into a dynamic one.

In this argument I have been at pains to avoid any reference to the various professions concerned with development. But now I have argued the existence of something I

Stand-Ins Not Wanted

SIR,—I notice that Luton Corporation has been advertising for a senior assistant quantity surveyor who is evidently expected to "double" on the work of another profession for it is stated that "A knowledge of valuations and estate work (is) an advantage."

Is this to be the thin end of the wedge in

Is this to be the thin end of the wedge in the grossly underpaid local government service whereby other professions will be expected to stand-in and understudy another man's work, e.g., architects as municipal measurers and accountants?

Quantity surveying is a distinct profession and its undue association with the landed interest is to be deprecated. I am sure that building employers and architects would hesitate to entrust their quantity surveying commissions to estate agents.

veying commissions to estate agents.

One would have thought that because an expanding municipal borough like Luton aspires to County status and one-tier government it could afford the services of either a chartered valuation surveyor or dhartered auctioneer and estate agent of incorporated landed property agent.

C. R. VINYCOMB.

Luton, Beds.

RIBA

Election Results

The results of the RIBA council elections show that only one of the nominees (Ronald Bradbury), who refused to answer ques-

Bradoury), who refused to answer questions of policy put to them by the JOURNAL (see issue for May 13) was elected.

Four fellows of the RIBA who replied were elected. They were the Hon. Lionel Brett, Sir William Holford, L. C. Howitt and Richard H. Sheppard.

Two associates who replied, Professor Robert H. Matthew and W. A. Allen, were elected. And one licentiate who replied, S. Vincent Goodman, was elected. Following are the election results:—

PRESIDENT:

C. H. Aslin (unopposed).

PAST-PRESIDENTS:

Sir Howard Robertson and Sir Percy E. Thomas (unopposed).

MEMBERS OF COUNCIL:

The following were elected:—1, Professor Sir William G. Holford (2,612 votes); 2, The Hon. Lionel G. B. Brett (1,979 votes); 3, C. G. Stillman (1,890 votes); 4, Richard H. Sheppard (1,812 votes); 5, Dr. Ronald Bradbury (1,544 votes); 6, Leonard Cecil Howitt (1,530 votes).

Howitt (1,530 votes).

The following were not elected:—7, Anthony M. Chitty; 8, R. E. Enthoven; 9, Harold Conolly; 10, A. Douglas Jones; 11, T. Cecil Howitt; 12, P. G. Fairhurst; 13, Rolf Hellberg; 14, Clifford E. Culpin; 15, F. J. M. Ormrod; 16, T. E. North; 17, J. R. Edwards, N. Pyman; 19, A. R. F. Anderson; 20, W. A. Rutter; 21, T. W. Haird; 22, W. William Fisk; 23, E. B. Musman; 24, A. F. B. Anderson; 25, F. H. Risdon.

ASSOCIATE MEMBERS OF COUNCIL: The following were elected:—1, Professor R. H. Matthew (2,588 votes); 2, Eric Bedford (1,377 votes); 3, W. A. Allen (1,358

The following were not elected:—4, Tom Mellor; 5, N. P. Thomas; 6, S. E. T. Cusdin; 7, F. F. C. Curtis; 8, L. Hugh Wilson; 9, W. D. Lacey; 10, J. T. Castle; 11, J. G. Woollatt; 12, A. Drew-Edwards; 13, D. W. Richardson; 14, S. H. Statham.

LICENTIATE MEMBER OF COUNCIL: The following was elected:—1, S. V. Goodman (1,649 votes).

The following were not elected:—2, A. W. Vincent; 3, D. W. Joel.

The Present Council

Following is a complete list of the RIBA

Council as it now stands:—

President: C. H. Aslin.

Past-Presidents: Howard Robertson. Sir Percy Thomas.

Vice-Presidents: F. Charles Saxon. (Three to be appointed by the Council on July 6.)

Honorary Secretary: (To be appointed by the Council on July 6.)

the Council on July 6.)

Honorary Treasurer: (To be appointed by the Council on July 6.)

Members of Council: Professor Sir Patrick Abercrombie. H. Bennett. Dr. Ronald Bradbury. The Hon. Lionel G. B. Brett. Sir Hugh Casson. J. Murray Easton. A. G. Sheppard Fidler. Professor R. J. Gardner-Medwin. Frederick Gibberd. Professor Sir William Holford. Leonard C. fessor Sir William Holford. Leonard C. Howitt. Dr. J. L. Martin. S. Rowland Pierce. Richard H. Sheppard. Basil Spence. C. G. Stillman. Ralph Tubbs. F. R. S. Yorke.

F. R. S. Yorke.

Associate Members of Council: W. A.

Allen. G. Grenfell Baines. Eric Bedford.

D. E. E. Gibson. P. E. A. Johnson-Marshall. S. A. W. Johnson-Marshall. Professor Robert H. Matthew. Peter F. Shepheard. J. L. Womersley.

Licentiate Members of Council: B. H. Cox. S. Vincent Goodman. G. H. Morris. The following are Representatives of Allied Societies in the United Kingdom or the Republic of Ireland.

Societies in the United Kingdom or the Republic of Ireland.

Six Representatives from the Northern Province of England: Professor W. B. Edwards (Northern Architectural Association). G. B. Howcroft (Manchester Society of Architects). W. H. Glen Dobie (Liverpool Architectural Society). Allanson Hick (York and East Yorkshire Architectural Society). N. H. Fowler (West Yorkshire Society of Architects). H. A. Hickson (Sheffield, South Yorkshire and District Society of Architects and Surveyors).

Five Representatives from the Midland Provinces of England: S. T. Walker (Birmingham and Five Counties Architectural Association). C. C. Ogden (Leicestershire and Rutland Society of Architects). H. D. Williams (Northamptonshire, Bedfordshire)

Williams (Northamptonshire, Bedfordshire and Huntingdonshire Association of Architects). F. H. Crossley Nottingham, Derby and Lincoln Society of Architects). B. W. J. Olley (East Anglian Society of Architects).

Architects).

Six Representatives from the Southern Province of England: J. Vyvyan Salisbury (Devon and Cornwall Society of Architects). One representative to be nominated by the Wessex Federal Society of Architects.) D. Booth (Berks, Bucks and Oxon Architectural Association). J. B. Brandt (Hampshire and Isle of Wight Architectural Association). H. Mileson (Essex, Cambridge and Hertfordshire Society of Architects). G. Crump (South Eastern Society of Architects).

tects).

Four Representatives of Allied Societies in Scotland: nominated by the Council of the Royal Incorporation of Architects in Scotland: T. S. Cordiner (Glasgow). W. A. P. Jack (Glasgow). L. Grahame MacDougall (Edinburgh). T. W. Marwick (Edinburgh). One Representative of Allied Societies in Wales: L. R. Gower (South Wales Institute of Architects).

Two Representatives of Allied Societies in Ireland: L. P. Tierney (Royal Institute of the Architects of Ireland).

One representative to be nominated by the

Royal Society of Ulster Architects.

The following are Representatives of Societies in alliance with the Royal Institute Overseas: R. Schofield Morris (The Royal Architectural Institute of Canada). Thomas E. Scott (Representative in the United Kingdom). To be appointed: The Royal Institute of Architects. A. Graham Henderson (Representative in the United Kingdom).

J. I. King (New Zealand Institute of Architects). R. H. Uren (Representative in the United Kingdom). To be appointed: The Institute of South African Architects. To be appointed: Representative in the United Kingdom. M. K. Jadhav (The Indian Institute of Architects). Stuart Bentley (Representative in the United Kingdom) in the United Kingdom. tative in the United Kingdom).

tative in the United Kingdom).

Representative of the Architectural Association (London): Bryan P. Westwood.

Representative of the Association of Building Technicians: Kenneth J. Campbell.

Chairman of the Board of Architectural Education: P. G. Freeman.

Chairman of the RIBA Registration Committee: Howard V. Lobb.

Two Representatives of the RIBA Salaried and Official Architects' Committee: (To be appointed).

appointed).

Chairman of the RIBA Allied Societies' Conference: F. Charles Saxon (Chester).

Health Conference

A two-day conference on the design of health buildings is to be held at the RIBA on October 21 and 22. The conference is open to members of the RIBA who apply in advance for tickets. Tickets will cost 10s. each. (This includes morning coffee and tea on both days, programmes and advance copies of the conference papers.) The following are the arrangements for the four sessions into which the conference

the four sessions into which the conference will be divided:—*Thursday*, October 21: Morning Session, 10.30 a.m. C. H. Aslin, President of the RIBA, in the chair. Open-Macleod. Talk on "The Organization of the Health Service in relation to the Provision of Health Buildings," by Sir John Charles, Chief Medical Officer, Ministry of Health

Health.

Health.

Afternoon Session, 2 p.m. J. H. Forshaw in the chair. Papers dealing with the general design problems of the hospital from the architectural point of view, by R. Llewelyn Davies, Director, Division of Architectural Studies, The Nuffield Foundation, and M. E. Molander, Director, The Central Hospital Planning Bureau, Sweden. Friday, October 22: Morning Session, 10.30 a.m. Maxwell C. Tebbitt in the chair. A paper dealing with the hospital from the nursing point of view, by Miss T. Turner, of the Royal College of Nursing, Birmingham. Birmingham.

A paper dealing with the hospital from the medical point of view, by J. O. F. Davies, Senior Administrative Medical Officer, Oxford Regional Hospital Board.

Officer, Oxford Regional Hospital Board. Afternoon Session, 2 p.m. Donald A. Goldfinch in the chair.

Donald A. Goldfinch, architect to the Birmingham Regional Hospital Board, will sum up the papers given during the previous sessions and this will be followed by a general discussion.

Members of the RIBA are asked to apply for tickets as soon as possible. Applica-tions (enclosing cheque or postal order) should be addressed to the Secretary, RIBA, 66, Portland Place, W.1. Envelopes should be marked "Hospitals Conference" in the top left-hand corner.

N.Z. OFFICES

Designer to be Robert Matthew

Professor Robert H. Matthew, who holds the Chair of Architecture at Edinburgh University, and was previously Architect to the LCC, has agreed to prepare designs for the £1m. New Zealand Government

offices, in London, to be built on the site of the Carlton Hotel.

A start will be made on preparation of the site in 1958, when tenancies in the Carlton will have ended.

TON.

nterest

to it.

a way under ne 10). er it. rouble IAL of ppy of to this ted at

CER.

over unw e de the ve to ind . driv np, i

bei s of spac tion nou mio ort der hat

b ion has ork of hat "A

edge in rnment will be idv anmuniofession

landed m chitects tity sur-

ause an Luton one-tier eyor or gent of

DOMB.

RSA.

Albert Medal awarded to Sir Ambrose Heal

The gold Albert Medal of the RSA has been awarded for 1954, with the approval of H.R.H. The Duke of Edinburgh, President of the Society, to Sir Ambrose Heal "for services to Industrial Design." The Albert Medal was instituted by the RSA in 1864 to commemorate the 18 years' Presidency of the Prince Consort, and is awarded annually for distinguished merit in promoting arts, manufactures or commerce.

commerce.

Sir Ambrose, who is 81 years of age, is, of course, head of Messrs. Heal & Son Ltd., the furniture manufacturers in London. He himself is a cabinet-maker by training, and exhibited his first suite of furniture in 1896. He has since become a pioneer in the development of improved design in this country during the first half of the present century.

of the present century.

In 1939 the council of the Royal Society of Arts recognized the quality of Sir Ambrose's work as a designer by appointing him a Royal Designer for Industry.

BOOK DESIGN

Architectural Press Books in Exhibition

Among the eighty-six books selected for display at the National Book League's annual exhibition of book design, at 7, Albemarle Street, London, in September, are three published by the Architectural Press.

They are: Town Design (published at £3 13s. 6d.), by Frederick Gibberd; Architects' Working Details, I (£1 1s.), edited by D. A. C. A. Boyne, and Modern Gardens (£1 16s.), by Peter Shepheard.

DIABY

Drawing as Communication (Triumphs and Obscurities of Mechanical Draughtsmanship). Illustrated lecture by Reyner Banham, Chairman, Ove Arup. At the ICA, 17, Dover Street, W.I. 8.15 p.m. JUNE 24

Designed and Manufactured. Industrial Design Exhibition at the LCC Central School of Arts and Crafts, Southampton Row, W.C.2. UNTIL JUNE 25

Annual General Meeting of the Library Group. At the RIBA, 66, Portland Place, W.1. 6.0 p.m. June 28

Presentation of the Housing Medal Awards for 1954. By Harold Macmillan, Minister of Housing and Local Government. At the RIBA, 66, Portland Place, W.1. 3 p.m.

A Policy for the AA. Meeting for members only. At the AA, 34, Bedford Square, W.C.1. 7.30 p.m.

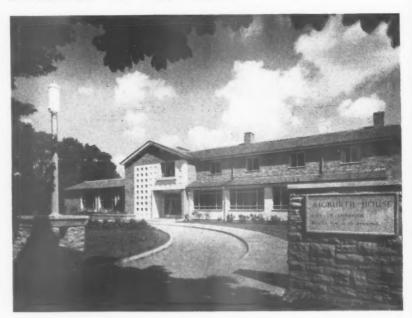
BRS Exhibition. The exhibition prepared by the BRS for the British Architects' Conference, Torquay. At the RIBA, 66, Portland Place, W.1.

JULY 3 TO 17

The Production Exhibition and Conference. The Institution of Production Engineers. At the National Hall, Olympia.

JULY 7 TO 14

BUILDINGS IN THE NEWS

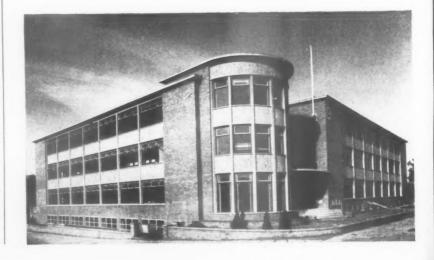


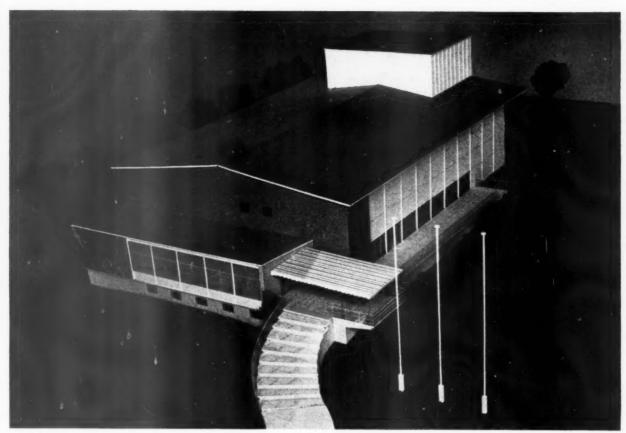
Old People's Hostel, Liverpool

Aighurth House, a recently-completed hostel in Liverpool, was designed by the city architect, Ronald Bradbury, in collaboration with the city's medical officer of health. It accommodates fifty elderly men and women in thirty-six single bed-sitting rooms, five double bedrooms and one four-bedroom. The matron has a self-contained two-bedroom flat and other members of the staff each have a bed-sitting room.

Office Building, Southall

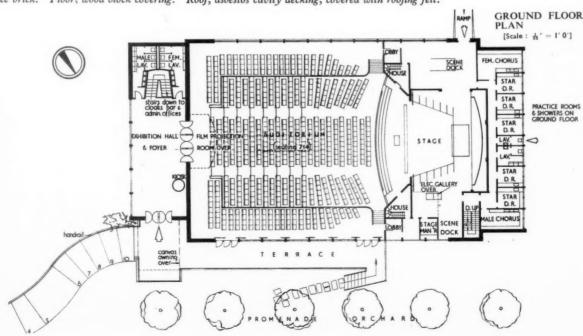
This office building at Southall, Middlesex (for Taylor Woodrow Ltd.) was designed by A. V. J. Kirkham and M. R. Dumville, of Elliott, Cox and Partners, in collaboration with a consulting engineer, H. G. Cousins. The building is of reinforced concrete. A single-storey office section, behind the multi-storey parts shown here, is of barrel-vault construction with continuous lantern lights. In the multi-storey section, heating, lighting and telephone facilities have been arranged so that subdivision can be easily made if required.





Opera House for Aldeburgh

Ian Warwick's project for a 714-seat opera house for Aldeburgh, home of the English Opera Group's annual festival, was on view in the town during this year's festival week, which has just finished. Seating is so arranged that a smaller audience—in the lower centre section—will not experience "a loss of intimacy." The exhibition hall-cum-foyer, of traditional construction, is on the sea side of the building. The stage consultant was Michael Northern. Steel stanchions support tubular steel roof trusses. External cladding, asbestos sheeting; internal, wood-wool and plaster. Proscenium, fibrous plaster. End wall, fairface brick. Floor, wood block covering. Roof, asbestos cavity decking, covered with roofing felt.



Ltd.)
and
The
the

hone ired.

FLATS

on the ACKROYDON ESTATE, WANDSWORTH, LONDON, S.W.19
for the LONDON COUNTY COUNCIL,
architect to the Council DR. J. L. MARTIN, in succession to ROBERT H. MATTHEW
principal housing architect, H. J. WHITFIELD-LEWIS; assistant housing architect, MICHAEL POWELL,
architect-in-charge, H. G. GILLETT; assistant architect, A. P. ROACH,
consulting engineers, BYLANDER and WADDELL; quantity surveyors, FRANK N. FALKNER and PARTNERS

The Ackroydon Estate, Wandsworth, is one of the LCC's first mixed development schemes and includes flats, maisonettes, houses and shops, varying in height from two to eleven storeys. The first of three 11-storey point blocks was opened on June 9. It is the forerunner of point blocks of a different type on LCC estates being developed in the Putney-Wimbledon area. The group of three-, four- and five-storey balcony access flats in the south-west corner of the site, illustrated on pages 766-769, have been awarded a 1954 Housing Medal by the MOHLG. These flats, grouped round a quadrangle, can be seen in the photograph below. (See also frontispiece, page 756, and editorial, page 757.)

Looking south from the top of the II-storey point block.







Above, entrance to block I, the first II - storey block. Above right, view from the top floor landing of block I, looking north-east.

RS

des

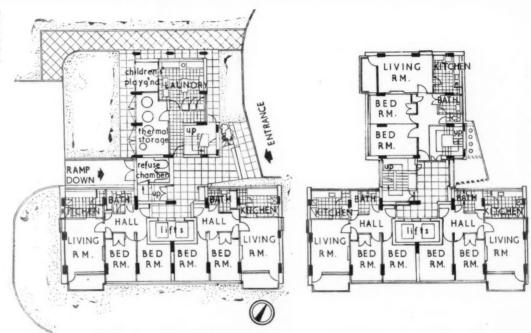
ree

ype

and

ave can

lock.



Ground and typical upper floor plans, point blocks [Scale: 1 0]



1-3. II-storey flats.

4. 8-storey flats.

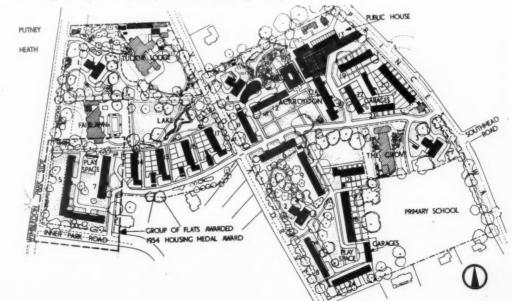
5, 6, 9. 5-storey flats.

7. 4-storey flats.

8 10, 11, 12, 12A 3-storey flats.

13. Shops and maison-ettes 14-21. 4-storey maison-ettes.

22-24. 2-storey houses



Site plan (the Grove has now been demolished)





Left, block I from the southwest. On the right the south staircase window. Above, staircase in this block, from the eleventh floor.

SITE.—The site, which is 16.5 acres and is 170 ft. above sea level, is bordered by Wimbledon Park Side and Putney Heath to the west and Princes Way to the east. The main object of the mixed development of tall point blocks and flats, maisonettes and houses in blocks of 2, 3, 4 and 5 storeys, was to preserve as much as possible of the landscaping, some of which is said to have been designed by Paxton. There will be 24 blocks, containing 446 dwellings with 1,436 habitable rooms. This provides a density of 27 dwellings and approximately 100 persons to the acre. The site also contains a number of large Victorian and Edwardian properties, two of which flank the first point block in the north-west corner of the site: Tudor Lodge is now used as a LCC children's home, Fairlawn is to become a LCC home for the blind. The development to the east of Victoria Drive which includes shops, garages and a public house, is still under construction and will be illustrated later.

PLAN.—In the point block (1) each floor, except the ground floor, is identical and contains three two-bedroom flats. The ground floor contains two flats, a communal laundry, with separate room for hot water storage, and a children's playroom. There is a pram store and prams can be taken in the lifts. Blocks 5, 7 and 10 contain balcony access flats of varying sizes from bed-sitting room type to three bedrooms. There are lifts in block 5 and block 7. Every flat has a semi-recessed private balcony. In the point block the kitchens are placed so that children playing in the living room or on the balcony can be seen through a glazed door and panel which separates the kitchen from the living room.





Above, the point block (1) from the south-west. In the centre is the south staircase window. Left, from the south, block 7 (4-storey flats) on the left and block 14 (4-storey maisonettes) on the right. In the backgrounds is the point block.

FLATS

on the ACKROYDON ESTATE, LONDON, S.W.19 DR. J. L. MARTIN, architect to the LCC

ft. ark ices xed oneys, ndeen cks, ms. oxi-

dian lock odge n is lopudes nder

also

the -owi two for here n in cony coom olock essed

hens iving gh a chen



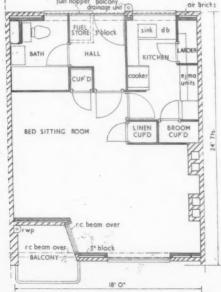
Above, block 5 from the south-west. On the right is the communal laundry linking blocks 5 and 10. The point block (1) can be seen in the background. Right, the east facade of block 5.

CONSTRUCTION.—The point block has a reinforced concrete frame with columns of 48 in. by 12 in. below ground floor and decreasing in stages above this level to 18 in. by 9 in. at top storey level. The width remains constant (at 9 in.) above ground to simplify external wall con-



FLATS

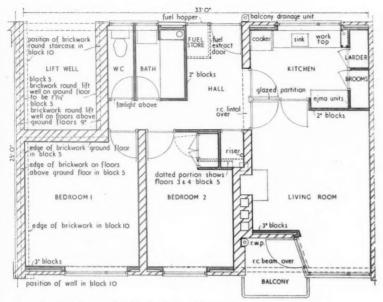
on the ACKROYDON
ESTATE, LONDON,
S.W.19
DR. J. L. MARTIN,
architect to the LCC



Plan of typical 1-room flat, blocks 5, 7 and 10 [Scale: §" = 1'0"]



Plan of typical 2-room flat, blocks 5, 7 and 10



Plan of typical 3-room flat, blocks 5, 7 and 10 [Scale: 1" = 1' 0"]

struction. There are $4\frac{1}{2}$ in. thick solid r.c. floors and roof. Foundations have independent bases to each column. Balconies are a continuation of the floor slab. As the floor slabs are cantilevered beyond the line of the columns, walls become curtain walls externally and allow the use of windows to the full width of rooms. External walls are of cavity construction with a $4\frac{1}{2}$ -in. flint brick outer skin, 2-in. cavity and $4\frac{1}{4}$ -in. clinker block inner skin.

Concrete aprons under windows are cast in with the floor slabs and lined with 3-in. woodwool internally for thermal insulation and as permanent shuttering. The medal award blocks 5, 7 and 10, are of calculated load-bearing brick cross walls 9 in. thick, except for end walls which are 13½ in. thick. Infilling walls are of cavity construction with an outer skin of 4½-in. brick, 2-in. cavity and 3-in. clinker block inner skin. Balconies are cantilevered from a r.c. edge beam spanning between cross walls. Floors and roofs are like those of the point block.

FINISHES.-In the point block external finishes include flint facing bricks, panels of rendered concrete and metal windows which have standard opening lights alternating with purpose - made fixed lights using standard sections. Balconies have 2-in. thick tubular steel uprights with perforated metal panels and a hardwood handrail. One side of the balcony recesses is painted deep red. Internally, partitions are mostly of 2-in. clinker blocks. Walls are distempered in living rooms and bedrooms and finished with emulsion paint in kitchens and bathrooms. Staircases have one wall painted yellow. Floors are finished with thermoplastic tiles throughout the flats and granolithic on landings and staircases. Internal doors are flush, and front doors to flats are glazed and painted red, blue or yellow. Kitchens are equipped with a porcelain

Below, a view from under the communal laundry linking blocks 5 and 10. In the centre is block 7.

CANADA CA







larder with ventilation to the open air. The lift shaft is of cavity wall construction for sound insulation and all floors are insulated by layers of glass fibre. In blocks 5, 7 and 10, wood windows are used, either centre- and side-pivoted or side-hung casements to LCC designs. Private balconies have hardwood vertical slats fixed to a tubular steel frame and access balconies have wrought iron railings and concrete upstands opposite entrance doors. The rendered clinker block panels under living room windows are coloured khaki (No. 23 in the Munsell range). Flint facing bricks are used.

SERVICES.—Point block living rooms have gas fires giving convection and radiant heat. There are

sink, hardwood draining board, dresser unit and a

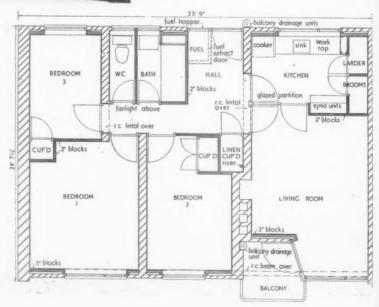
SERVICES.—Point block living rooms have gas fires giving convection and radiant heat. There are electric radiant heaters over kitchen draining boards. Hot water is provided by an electric immersion heater unit under draining boards. Communal laundries are provided on the ground floor of the point block, with a room where electric storage cylinders heat water during off-peak periods, and also in a separate block, with pram st.ore under, linking blocks 5 and 10. Although exact costs are not yet available, the estimated total cost of the whole development, including site works and planting, is approximately £1,000,000. The estimated average cost per liveable room in the point block is £,700 and in the maisonettes, which will be illustrated in a later issue, £425 per room. As an economy each lift in the point block stops only on alternate floors. In the point block the rents are 27s. and 27s. 9d. per week, excluding rates.

The general contractors are Tersons, Ltd. For sub-contractors, see page 782.

Two views of the balcony access flats. Top, the west facade of block 7, with block 10 in the background. Above, from left to right, blocks 10, 5 and 7, seen from the north-east.

FLATS

on the ACKROYDON ESTATE,
LONDON, S.W.I9
DR. J. L. MARTIN,
architect to the LCC



Plan of typical 4-room flat, b'ocks 5, 7 and 10
[Scale 1' = 1'0]

and a he lift insulaf glass was are e-hung es have r steel at iron intrance under No. 23 e used.

as fires ere are raining electric boards. ground electric eriods, st.ore exact al cost ks and e estie point will be As an only on nts are

For

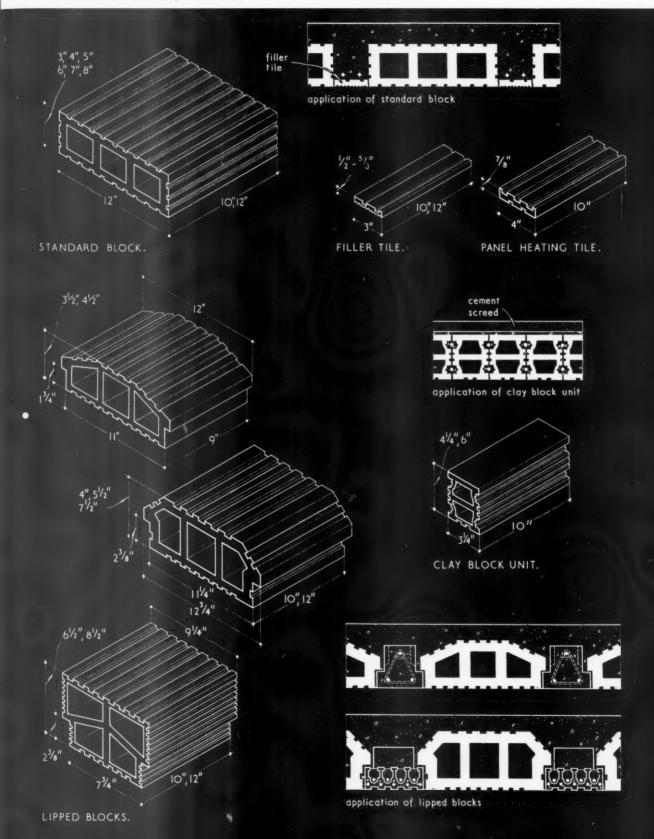
es.

ARDER COOMS



BUILDING BLOCKS HOLLOW CLAY GENERAL DATA

The Architects' Journal Library of Information Sheets 473. Editor: Cotterell Butler, A.R.I.B.A.



14.B3 'PHORPRES' HOLLOW CLAY BLOCKS FOR FLOORS

This Sheet, together with Sheets 14.B1 and 14.B2, supersedes Sheet 14.B1 published 15.5.52, and describes Phorpres hollow blocks for floors. Sheet 14.B1 deals with Phorpres blocks for walls and partitions and Sheet 14.B2 with walls.

Materials

Phorpres floor blocks are manufactured from gault (buff in colour) and also weald clay (terra cotta in colour), the latter being a high quality engineering clay.

The clays are extensively tempered and extruded into hollow

The clays are extensively tempered and extruded into hollow blocks which are then entirely mechanically handled throughout a strictly controlled drying and burning process. The clays are generally free from injurious particles of lime or salts and the burning process renders the material entirely inert, minimising the occurrence of shrinkage or cracking in the finished plastered surface. The finished product is uniform in size and shape and free from excessive winding and bowing (see B.S. 1190: 1951 for tolerances) ensuring minimum laying and plastering costs.

Design and Construction

Three types of block are illustrated on the face of the Sheet: the standard block for use in in-situ floors with filler and panel heating tiles as shown in the drawing; the lipped type for use with prestressed or precast beam construction and the clay block unit for hollow-tile beam construction.

Key for plaster: The bond or physical adhesion of a rendering or plaster is dependent upon the inherent porosity of the backing material, and in this respect Phorpres blocks possess a balanced absorption or suction value. This is further assisted by the mechanical keying provided by grooves of dovetail form. This mechanical key is of first importance in the early stages of drying and setting, when cracking may result from the vibration inevitable during construction. This vibration may also otherwise interfere with, or even prevent, the development of the necessary physical adhesion.

Sizes and Weights of Floor Blocks

Type of Block	Size		of blocks er 1,000)
	54.6	Gault	Weald
Floor Blocks (For in-situ hollow tile floors and roofs)	10" × 12" × 3" 10" × 12" × 4" 10" × 12" × 5" 12" × 12" × 5" 12" × 12" × 5" 12" × 12" × 5" 12" × 12" × 6" 12" × 12" × 7" 12" × 12" × 8"	5.85 6.3 7.55 8.4 10.45 12.3	5·0 6·3 6·5 —
Filler Tiles (For concrete ribs) Panel Heating Tiles	10" × 3" × 4" 12" × 3" × 4" 10" × 4" × 4"	5.0*	5·0° 10·25°
Lipped Floor Blocks (For prestressed and concrete beam floors)	9" × 12" × 31" 10" × 12½" × 4" 9" × 12" × 4½" 10" × 12½" × 5½" 10" × 9½" × 6½" 12" × 12" × 7½" 12" × 9½" × 8½"	6·2 10·25 9·0	5·2 5·5 5·5 5·75
Clay Block Units	10" × 3½" × 4½" 10" × 3½" × 6"	=	2·3 3·0

* Weight per 10,000 tiles.

Crushing Strength

Average crushing strengths of individual blocks (weald and gault) tested on flat.

Type of block	Crushing strength (lb./sq. inch)			
10" × 12" × 4" (Weald)	3,278 (B.S. requires 2,500)			
12" × 12" × 3" (Gault)	3,000 (" " 2,500)			
12" × 12" × 5" (Gault)	3,290 (" " 2,500)			

Thermal Resistance

The transfer of heat from the air on the warm side of a floor or roof to the air on the cooler side is determined by the difference in air temperatures, number of air spaces, type and amount of construction materials, direction of heat flow and by the character of the surfaces.

The heat transmission coefficient (obtained for floors and roofs by tests on composite sections as for walling), allowing for a 4-in. floor block plus 2-in. concrete topping with plastered ceiling, is as follows:—

Overall transmittance (U) = 0.41 (Heat flow up) ,, ,, = 0.33 (Heat flow down)

Sound Insulation

Sound transmission figures can be only approximate since the type of floor construction varies widely. The following approximate figure for airborne sound (average 256—1,024 frequencies, cycles per second) allows for a floor block 4-in, to 8-in, in thickness, 2-in, concrete topping and a plastered ceiling:—

Average loss of of 55 decibels.

Applications

Phorpres hollow clay floor blocks are manufactured to comply with B.S. 1190: 1951 and the requirements of local authorities for the construction of structural floors and roofs.

Piggery and Cattle Floors: Hollow clay floor blocks are particularly suitable for forming this type of floor. A single layer of floor blocks is bedded in cement mortar upon a prepared base of well-rammed hardcore, suitably blinded out. The floor is finished with a \(\frac{1}{2}\)-in. to 1-in. cement screed. The blocks are usually laid butted together with cement to give a maximum surface area without waste through cutting.

The construction provides cattle standing and bedding which are damp and vermin-proof. The good insulation enables the animals to retain their body heat and eliminates the necessity for bedding materials. The floor requires no upkeep or maintenance, is easily cleaned and dries quickly.

This Series of Sheets on bricks and brickwork covers general data on, and applications of, common, facing, cellular and keyed bricks, hollow walling, partition and floor blocks.

Compiled from information supplied by:

London Brick Company Limited

Head Office: Africa House, Kingsway, London, W.C.2.
Telephone: Holborn 8282.

Telegrams: Phorpres, Westcent, London.

Midland District

Office: Prudential Buildings, St. Phikip's Place, Birmingham, 3. Telephone: Colmore 4141.

South Western

District Office: 11, Orchard Street, Bristol, 1. Telephone: Bristol 23004/5.

Northern District

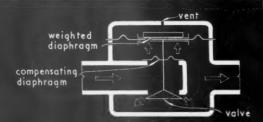
Office: Gascoigne Street, Boar Lane, Leeds, 1. Telephone: Leeds 20771.





SERVICES AND EQUIPMENT | POWER SUPPLY | GAS

The Architects' Journal Library of Information Sheets 474. Editor: Cotterell Butler, A.R.I.B.A.



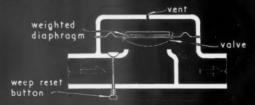
when outlet pressure increases, weighted diaphragm is raised and valve closes, compensating diaphragm counteracts effect of inlet pressure on valve

PRESSURE GOVERNOR



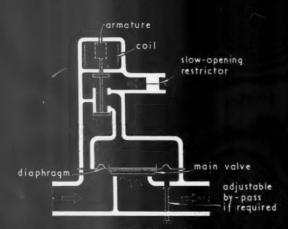
normal inlet pressure holds valve open, a small quantity of gas flows thro' small hole in diaphragm to weep pipe. If weep pipe is closed, e.g. by thermostat, pressures above and below diaphragm become equal and valve closes by its own weight

RELAY VALVE.



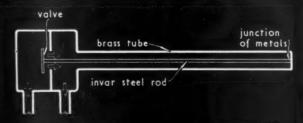
normal inlet pressure holds valve open if pressure falls below a fixed minimum, valve closes, when normal pressure is restored valve will not open until weep reset button is pushed up, admitting gas to underside of diaphrogm

LOW PRESSURE CUT-OFF VALVE.



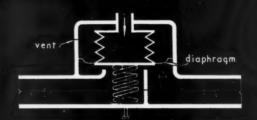
when electricity flows thro' the coil, the armature is held up, any gas above diaphragm is released and inlet pressure holds main valve open, if electricity is cut off, e.g. by a thermostat, the armature drops, causing pressure above diaphragm to increase, closing valve

ELECTRICALLY - OPERATED VALVE (solenoid type).



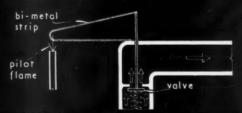
brass tube expands to greater extent than invar steel rod, which is consequently pulled towards junction, closing valve

THERMOSTAT (metal rod type).



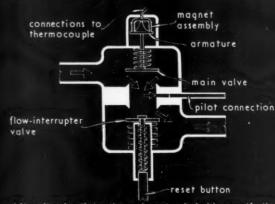
when steam pressure becomes too great, the bellows expand, closing valve

PRESSURESTAT.



when heated by pilot flame, the strip changes its curvature and opens valve. if pilot is extinguished, the strip cools and, assisted by the spring, closes valve

FLAME-FAILURE DEVICE (differential expansion type).



while pilot is alight the main valve is held open, if pilot is extinguished the armature drops from magnet, closing main valve. to relight appliance, reset button is pushed up, opening main valve and closing flow-interrupter valve, allowing gas to pass to pilot only, when pilot is lit, magnet holds the armature, the reset button is released and flow-interrupter valve opens, allowing gas to pass to burner

FLAME-FAILURE DEVICE (thermo-electric type).

37.D4 CONTROLS FOR GAS APPLIANCES

This Sheet describes typical controls for gas appliances. These range from simple manually-operated devices to those which may be combined to give complete automatic control.

General

Although it is stressed that the provision of gas controls is the work of a specialist, the architect should be familiar with the subject for several reasons. Primarily he can see that the recommendations made in the relevant Codes of Practice of the British Standards Institution receive appropriate considera-tion. He can also assess the merits of alternative types where there is a choice of control and perhaps cost is involved. When selecting appliances he should be aware of the fact that some manufacturers include certain controls in the purchase price, while others consider them as extras.

Gas cock: This is the simplest type of control, giving an infinite variation of the gas rate up to the maximum capacity of the pipe in which it is situated or the burner which it serves. It enables the gas to be shut off rapidly, as a quarter of a turn separates "full on" and "off." Interlocking cocks are often incorporated in an appliance as an inexpensive precaution to ensure that pilot and gas supply (and sometimes were where this is also involved) are turned on and off in the correct sequence.

Governor: There are two types, of which the most common is the pressure governor.

Pressure governor automatically maintains the correct gas pressure at the burner, thereby ensuring that the heat input is always correct.

Volume governor ensures that a predetermined gas rate is maintained, irrespective of variations in gas pressure or damage to jets of an appliance.

Thermostat: A thermostat automatically controls the gas rate of an appliance to maintain a pre-set temperature. The element may consist of a metal rod (as shown on the face of the Sheet), metal spiral or strip, or a fluid-filled bulb.

Relay valve: A relay valve is fitted in the gas supply pipe to a burner and is remotely actuated by a thermostat or flame-failure device by means of a controlled weep of gas.

Low pressure cut-off valve: This is a valve which automatically shuts off the gas supply to a burner if the inlet gas pressure falls below a preset minimum (usually about 1 in. water gauge). It should be preferably of a type which has to be reset manually after shutting down.

Electrically-operated valve: This is a gas valve which is operated by a solenoid or motor energised by mains electricity. The gas valve can either control the gas supply to a burner directly, or indirectly by controlling the weep of gas from a relay valve.

Pressurestat: This is designed to maintain a constant pressure of steam in a steam generator, the supply of gas to a burner being regulated according to the steam pressure

Flame-failure devices: These are devices which permit gas to pass to a burner only when the pilot flame is established. They are intended as a safeguard if the supply of gas should be interrupted, or if controls are operated incorrectly during lighting. They may be one of the following types:

Differential expansion type (illustrated on the face of the Sheet) depends for its operation on the different coefficients of expansion of dissimilar metals.

Thermo-electric type (also illustrated), which depends on the fact that, when the junction of two wires of dissimilar metals (a thermocouple) is heated, an electric current is generated. This is used to energise an electro-magnet which holds open a gas valve.

Electronic type, which relies upon the conduction of an electric current by the gas flame, or the detection of a flame by photo-electric cells, to keep open a gas valve. This operates instantaneously and permits remote control of lighting and shutting-down and remote automatic operation.

Applications

Governor: It is desirable that a governor be fitted to all appliances, even though many are supplied without. A volume governor must be designed to give a particular gas rate; a pressure governor can be adjustable, or the required gas rate can be obtained by the provision of jets of a suitable size.

Thermostat: These can be fitted directly into the gas supply pipe to the burner to give a gradual opening and closing of the gasway. Others operate remotely in conjunction with a relay or solenoid valve and can be arranged to give a gradual or an "on-off" action. The latter is particularly useful in central heating where the thermal efficiency of the system would be lowered by the gradual action of a directly operating thermostat. The rod type of thermostat is widely used in water- or air-heating appliances, the fluid-filled bulb gives greater flexibility of design as the head need not be in line with the heat-sensitive element; the metal spiral or strip mainly for room thermostats.

Relay valve: This is used on many appliances, especially:
(a) where the inlet pipe is too large for a direct thermostat

(b) where remote control is required

(c) where devices other than a thermostat, e.g. clock controls and flame-failure devices, are used; sometimes the one relay valve serves all these controls

F

as

al

a

th

(d) when it is required to have the full gas rate applied rapidly when the temperature falls, e.g. in a fish-fryer when "chips" are inserted.

Low-pressure cut-off valve: This can be used on continuously burning appliances fitted with prepayment meter supplies, as a safeguard should the gas run out. It can also be used in conjunction with flame-failure devices on appliances with high gas rates as a safeguard if the supply of gas should be interrupted momentarily. Another type is used in factories where gas compressors are employed for industrial processes. It protects the meter and neighbouring installations.

Electrically-operated valve: This is used in conjunction with electronic flame-failure equipment; it also forms a safeguard against failure of the electricity supply or a fan. It can be controlled remotely from an unlimited distance.

Flame-failure devices: The choice is governed by the cost of the installation and the delay that can be permitted in the action of the device. The differential expansion and thermo-electric types have a time lag of up to 1 minute. The electronic type is used only on large and expensive gas installations such as air heaters and many industrial installations where instantaneous response is required. It lends itself to the inclusion of spark-ignition devices, fan-failure switches, temperature - limit switches, etc.

Relevant Publications

CP332.303:1951: Installation of gas-fired boilers for central

Safety in design and operation of gas-heated ovens and furnaces. Factory Department, Ministry of Labour and National Service, Form 1856: Oct. 1948.

Compiled from information supplied by:

The Gas Council.

Address: Gas Industry House, 1, Grosvenor Place, London, S.W.1.

Telephone: Sloane 4554.
Telegrams: Gascil, Knights, London.

OFFICES

in LONDON BRIDGE STREET, LONDON, S.E.I

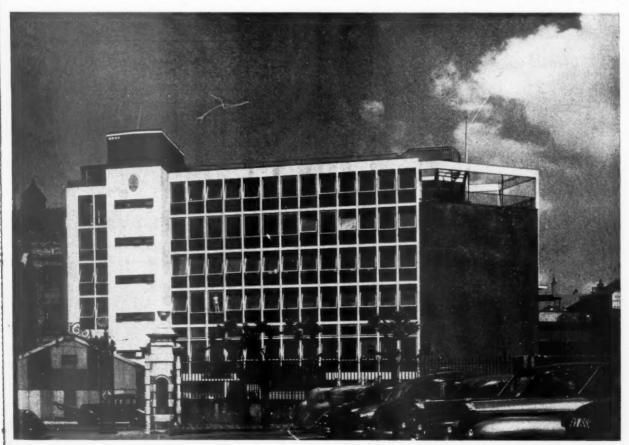
designed by JOHN LACEY, associate architect, C. F. TIMOTHY

consulting engineer, F. J. SAMUELY

quantity surveyors, H. J. VENNING and PARTNERS

Fielden House, in London Bridge Street, has been built (for King Edward's Hospital Fund for London) as the headquarters of the Emergency Bed Service, which occupies the third floor of the building, and also as lettable office and warehouse space on the lower floors. This is a war damage reconstruction on a restricted site. Ground levels at front and rear of the building vary by 25 ft. as the site abuts the arched approach to London Bridge Station.

Fielden House seen from the grounds of Guy's Hospital to the south-west.



SITE.—Fielden House is the first part of a large scheme of reconstruction adjoining the station approach, the stages of which are shown on the site plan on the opposite page. Due to the fact that a public staircase from the station level to Joiner Street, (this street, not named on the site plan, runs north and south under the station approach) 25 ft. below, had to be kept open throughout the building of the offices, a temporary staircase was built, while the original stairs were demolished and reconstructed as part of the east end of the Fielden House. The wall adjoining London Bridge approach, though the property of the client, could not be used for support for fear of differential subsidence. This necessitated the east end of the building being cantilevered from pile foundations set back 6 ft. from the site boundary.

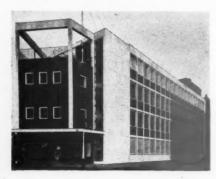
PLAN.—Main access is from London Bridge Street; the service access is at the lower level, where there is a yard commonly owned by the clients and Guy's Hospital, owners of adjoining land, to the south.

OFFICES

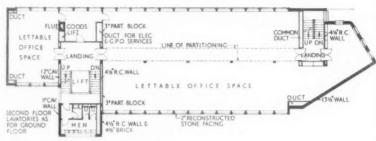
in LONDON BRIDGE STREET,
LONDON, S.E.I
designed by JOHN LACEY

Below, the main entrance doors on to London Bridge Street. Bottom, the east corner of Fielden House from the station approach. On the left is the entrance to the public staircase to Joiner Street, 25 fi. below.

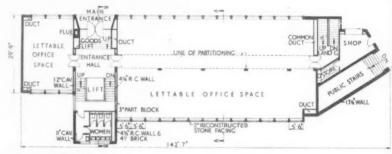




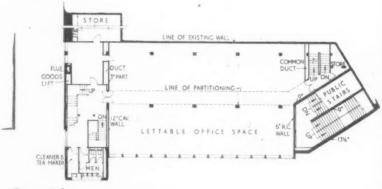
The entrance hall, lift and staircase are situated at the widest point of the site with the offices on either side. The Emergency Bed Service, an organi ation which gives a 24-hour service to hospitals and doctors requiring beds for patients in an emergency, has its headquarters on the third



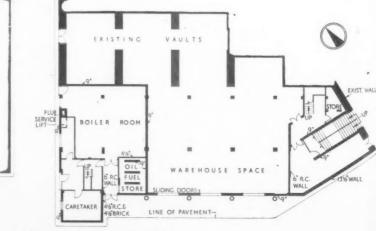
Plan, typical of first and second floors



Ground floor plan

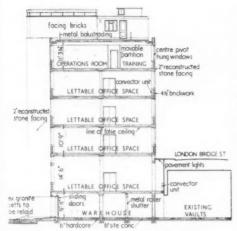


Basement plan

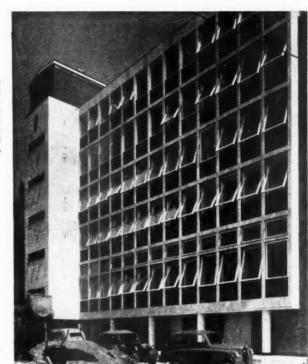


T

Sub-basement plan [Scale: 1 0"]



Right, part of the west facade which faces Guy's Hospital. The panels below the doubleglazed windows are faced with dark blue tiles.



lead coated copper flosh FLAT ERS : Major HALL FOURTH FLOOR FLAT STATISTICS Glazed lift west of foldeceiling floshing statistics of foldeceiling floshing floor floor learning floor floor space competence floor floor floor floor space competence floor f

Section B-B

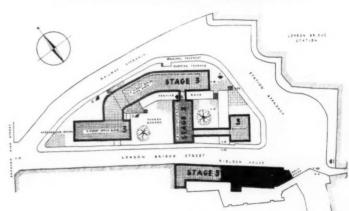
Section A-A

WALL

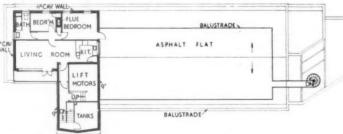
SHOP

STAIRS

13% WALL

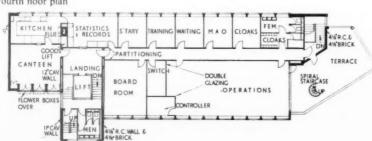


Site plan showing Fielden House solid black and stages 2 and 3 of the development hatched



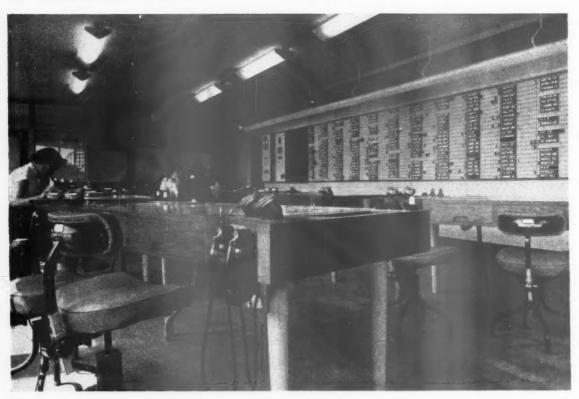
Fourth floor plan

EXIST. WALL



Third floor plan [Scale: 12" = 1'0"]

floor of the building. The state of hospital accommodation in the London region is recorded visually on an operations room board in view of the controller and staff. The operations room is similar to that of a Fighter Command headquarters. The canteen and kitchen on the third floor are for the staff of the emergency bed service, and the fourth floor is occupied by the caretaker's flat.







Top and above, two views of the operations room of the Emergency Bed Service for London on the third floor. The floor is covered with cork and the ceiling with acoustic tiles for sound deadening. Left, typical lettable office space below third floor level.

CONSTRUCTION.—The construction is largely of precast, and partly of in situ, reinforced concrete. Wall columns 14 in. by 6 in. at 5 ft. 6 in. centres, precast in pairs, are joined by a sill member and form H frames (illustrated as a Working Detail in the JOURNAL for June 17, 1954). Secondary beams span 19 ft. 11 in. and 19 ft. 11 in. between these wall columns. There are central r.c. columns, 18 in. by 9 in. below first floor level, and 12 in. by 9 in. above this level, at 16 ft. 6 in. centres. A central spire beam spans between these central columns and precast r.c. trough units span between the secondary beams, from which are hung suspended ceilings of a-in. plaster on expanded metal. By the use of prestressed concrete the floor thickness has been kept at 10 in. throughout, with a flat soffit. Pressure pile r.c. foundations were used, with in situ caps and ground beams. (As Guy's Hospital adjoins the site, it was necessary to use the silent process of piling; the compressor was silenced by being bricked up under railway arches). On the third floor of the building there are no central columns, due to the greater need for flexibility of internal partitions, and the precast prestressed composite beams span 40 ft. clear across the building.

The four east hand artiff colubled Ner Der block land for the par

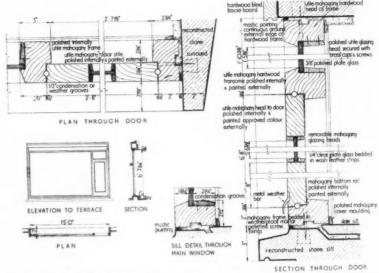
for and Th

FINISHES.—Windows are centrally-pivoted and double-glazed. Below sill level there are panels of 4½-in. brickwork, faced externally with dark blue tiles and lined internally with 2-in. wallboard.

OFFICES

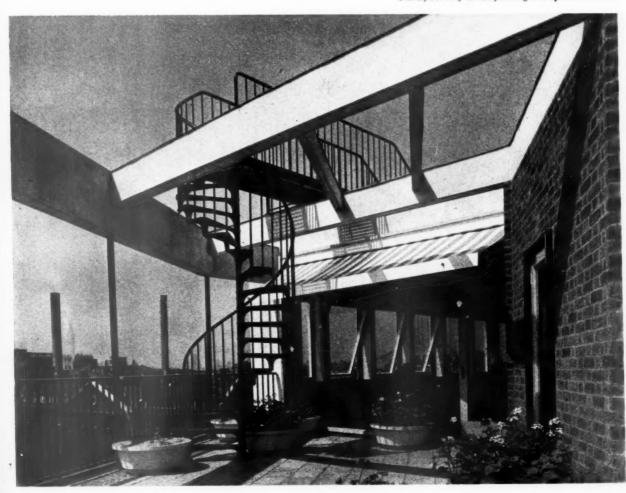
in LONDON BRIDGE STREET,
LONDON, S.E. I
designed by JOHN LACEY

The brickwork is reinforced horizontally at every fourth course, as required by the LCC. At the east end of the building the walls are faced with hand-made deep red facing bricks, and 2-in. thick artificial stone is used as facing on beams and columns externally, and on the projecting staircase block on the west side. There is a plinth of black Neros granite. Entrance hall walls are lined with Derbyshire fossil marble. The floors are wood blocks in offices, terrazzo on stairs and main landings and cork tiles in the operations room, which, for sound insulation, also has acoustic tiles on the ceiling. The purpose-made movable internal partitions, which can be placed at any mullion, are of leather cloth on 2-in. compressed strawboard in a softwood frame. Hardwood is used for window frames, doors to main landings and for panelling on the window wall of the canteen. The fully glazed lift shaft and cage will be illustrated as a Working Detail in a later issue of the Journal.



Details of window and door between terrace and operations room [Scale: h" and 1]" = 1' 0"]

Third floor roof terrace, looking into operations room.



largely concrete. centres, and form il in the ıms span ese wall 18 in. by n. above ral spire nns and econdary ilings of e use of nas been Pressure situ caps

On the central dibility of sed com-

process by be-

panels of dark blue vallboard.





in LONDON BRIDGE STREET, LONDON, S.E.I designed by JOHN LACEY

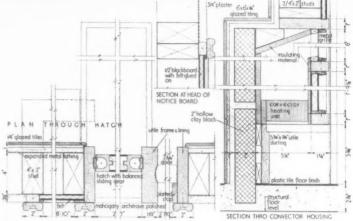
SERVICES.-Each 5 ft. 6 in. bay is self-contained for heating, lighting and telephones and all services are hidden in accessible ducts. There are convectors in each bay; a cover panel forms a flush face with the window sill internally. Heating and hot water are supplied by oil-fired boilers. There is a service lift from the basement to the main kitchen. Telephone risers are in main ducts adjoining main and secondary staircases, each serving the outer walls of half the building on all floors. On the third floor there is special telephone equipment with a central exchange. Lines are distributed in floor ducts to individual desks and in flexible tubes to the underside of desks. The underfloor duct grid allows for changing positions of desks.

The contract price was £127,411. The cost of the building was made considerably cheaper by the use of a Swiss-made tower crane, which the general contractors had on order at the time of tendering.

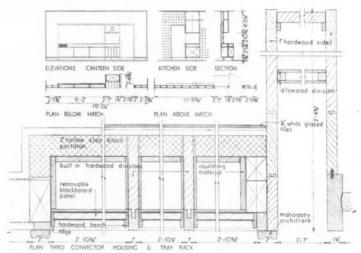
The general contractors were G. E. Wallis & Sons Ltd. For sub-contractors see page 782.



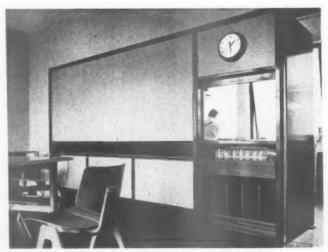
Extreme left, the glazed lift-shaft at second floor level. This lift-shaft and cage will be illustrated as a Working Detail in a later issue of the JOURNAL. Left, the ground floor entrance hall. Bottom right, built-in hatch and storage unit between canteen and kitchen on the third floor.



Details of canteen-kitchen fitting [Scale: 11" = 1'0"]



Elevations and details of fitting between canteen and kitchen on third floor [Scale: $\frac{1}{10}$ " and $\frac{1}{10}$ " = $\frac{1}{10}$ " 0"]



TECHNICAL SECTION

More than one speaker at the British Electrical Power Convention, held at Eastbourne June 14-18, drew attention to the glaring difference in lighting standards between the Old World and the New. As an example, we in this country have painfully raised the illumination level for ordinary work in factories from ½ lumen per square foot (1915) to 3 lumens (1922) and thence to 6 lumens (1940), only to find that the equivalent standard in the United States is 20 lumens. An analogous situation applies in the provision of outlets: where the British architect would supply two or three outlets per room the American architect would supply ten or twelve.

When we read the documents presented at the annual conventions of industrial concerns, we realise how much greater is the volume of research carried out by industry than that carried out by DSIR. There is a danger in this: for the orientation of research carried out by an industry is never the same as that carried out in the public interest. If the industry's own research is in itself the most thorough and comprehensive available, it will tend to impose itself unwarrantably on the public mind. The moral, as always, is not that industry should spend less on research but that DSIR should spend more.

CURRENT PRICES FOR MEASURED WORK

haft at ft-shaft l as a e of the d floor

built-in between d floor.

1

345

2 16

Prepared by Davis, Belfield & Everest, chartered quantity surveyors

19/8

Prices are for work executed complete and are for an average job in the London area. All prices include overhead charges and profit for the general contractor. Current prices of materials and rates of wages last appeared in the JOURNAL for June 10.

PRELIMINARIES	
To all valuations for measured work add for Preliminaries, Water and Insurances, according to the nature of the job (say)	10%
EXCAVATOR	
Excavation	
N.B.—The following prices are applicable to hand excavation soil.	n in heavy
Surface digging, 6" deep per yard super Ditto, 12" deep ,,	1/ - 2/1
Excavating not exceeding 10' 0" deep to reduce levels per yard cube	8/3
Excavating not exceeding 5' 0" deep to form basement ,,,	9/4
Ditto exceeding 5' 0" and not exceeding 10' 0" deep ditto ,	12/6
Excavating not exceeding 5' 0" deep to form surface trenches ,,	11/5
Dittoexceeding 5'0" deep and not exceeding 10' 0" deep ditto ,,,	15/7
T	

Excavating not exceeding 5' 0" deep to form basement trench commencing 10' 0" deep

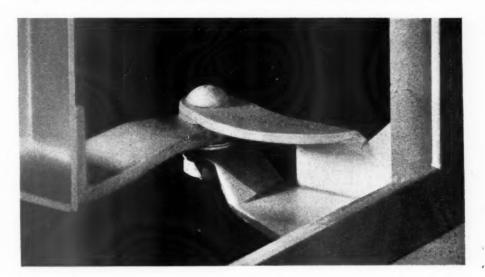
EXCAVATOR—(continued)		
Disposal		
Returning, filling and ramming around foundations	per yard cube	3/8
yards and depositing	**	4/2
Ditto and spreading and levelling	99	5/5
Ditto, ditto, and consolidating to make up levels under floors and pavings	**	6/10
Filling into lorries and carting away	99	13/1
Planking and Strutting	7	
Planking and strutting to sides of surface or basement excavation not exceeding 5' 0" deep	per ft. super	-/7 -/9
sides measured)	99	-/2
Ditto not exceeding 10' 0" deep (ditto)	99	-/3
CONCRETOR Concrete (Basic Prices	3)	
Portland cement concrete 1:3:6 with 1½" coarse aggregate in foundations and masses exceeding 12" thick Ditto 1:2:4 with ½" coarse aggregate ditto	per yard cube	67/9 68/7

CONCRETOR—	(continued)
------------	-------------

CONCRETOR—(continued)	1	BRICKLAYER—(continued)	
Add to Basic Prices for :-		Partitions	
Working around rod or mesh reinforcement per ye Being in beds less than 12" thick (6"-12")	,, 2/1	Clinker concrete solid partition blocks to B.S. 492 and	Į*
Ditto less than 6" thick (4\frac{1}{2}"-6") Being in small quantities not exceeding 3'	,, 6/3	Hollow olay partition blocks	3/8
cube	, 16/7	to B.S. 1190, keyed on both sides and ditto , 8/11 9/10 11/3	
Being in suspended floors and roofs Being in walls not exceeding 6" thick	12/5 20/9	Moler hollow partition	
Ditto exceeding 6" but not exceeding 12"		blooks, keyed on both sides	
thick Ditto exceeding 12" thick	" 14/6 10/5	and ditto ,, 18/3 19/9 21/3 2	5/8
Being in lintels, beams, etc., not exceeding	,, 10/5	Facings	
72 sq. in. sectional area	., 31/1	Whi glaz	
Ditto exceeding 72 and not exceeding 144 sq. in. sectional area	,, 24/10	facings	p.c.
Ditto exceeding 144 sq. in. sectional area	,, 20/9	1,280) for	
Being in columns not exceeding 72 sq. in. sectional area	,, 39/5	strete	
Ditto exceeding 72 and not exceeding 144 sq.		1,260/	
in. sectional area Ditto exceeding 144 sq. in. sectional area	,, 31/1 24/10	Extra over common brickwork Ordinary for her built with bricks p.c.113/- M facings, and p	
		for facings as described, and p.c. p.o. ing w	rith
Formwork		pointing with a neat weath- 242/- 254/10 white ered joint:— M. M. cem	
Close boarded formwork and supports to soffites of floors not exceeding 12' high per y	yard super 15/3	To solid wall in Flemish bond per yard super 14/3 15/2 78/9	
Ditto to vertical faces of walls (both sides		To cavity wall in stretcher	
measured)	7, 15/5 oot super 2/3	bond ,, 11/8 12/4 63	12
Add to any of the above for wrot formwork	-	To ditto in Flemish bond with snapped headers , 13 10 14/8 —	
and rubbing down concrete per	yard super 2/10	Half brick wall in facings in	
Reinforcement		stretcher bond built fair and	
*" to 1" diameter mild steel rod rein-		pointed one side with a neat weathered joint ,, 26/9 27/5 -	
forcement, hooked, bent and tied at intersections as required and fixing in		Ditto pointed both sides ,, 27/10 28/6 -	_
concrete	per cwt. 53/7	One brick wall in facings built	
1" diameter ditto	,, 57/11	fair and pointed one side ,, 49/10 51/2 -	-
Y diameter ditto Steel wire mesh fabric reinforcement to B.S.	,, 71/9	Ditto pointed both sides ,, 50/10 52/3 -	-
1221, weighing 4.71 lb. per yard super, well lapped at joints and embedded in		Brick on end flat arch in facings 4½" on soffite and 9" high and	
concrete per	yard super 3/4	pointing per foot run 3/1 3/2 -	-
Ditto weighing 9.32 lb. per yard super ditto	,, 6/6	Brick on edge coping to 9" wall with two courses plain tiles under, laid breaking joint,	
BRICKLAYER Common Brickwork		two cement angle fillets and pointing 5/2 5/3 -	_
	Rough		
Reduced brickwork one brick thick in cement-lime mortar (1:3:9) per yard su	Flettons stocks per 30/- 35/5	ASPHALTER	
Add to the above :-		Tanking To B.S. To	B.S.
If in cement mortar (1:3) ;; If circular on plan to flat sweep ;;	-/3 -/3 4/10 5/1		1418
Ditto to quick sweep	9/8 10/3	Horizontal asphalt tanking in three thicknesses on brick or concrete per yard super 18/5	29/5
Half brick wall in cement lime mortar (1:3:9)	16/3 19/-		33/7
Ditto built fair and pointed both sides		Roofing	
with a neat flush joint One brick wall built fair and pointed	18/3 , 21/1	To B.S. To 988	B.S.
both sides with a neat flush joint	35/5 40/10	asphalt flat in two thicknesses on	
11" hollow wall with 2" cavity and galvanized iron twisted ties	35/3 40 8	and including felt underlay per yard super 13/2	22/1
	90 9	* asphalt skirting 6" high with angle	
Engineering Brickwork	Lingfield	fillet at bottom and rounded top,	0.15
	Engin- Blue	turned into groove per foot run 2/4	2/7
Reduced brickwork our brick think in	eering Pressed	water check roll at top and under-	_
Reduced brickwork one brick thick in cement mortar (1:3) per yard su	Wirecuts bricks aper 43/10 76/6	cut drip at bottom ,, 4/6	5/3
Half brick wall in coment mortar (1:3) Ditto built fair and pointed both sides	23/8 40/4		
with a neat flush joint ,,	25/8 43/2	DRAINLAYER	
One brick wall built fair and ditto	48/3 81/9	Trenches and Beds N.B.—The following prices are applicable to hand excavation in	heavy
Sundries		soil, only requiring planking and strutting for depths of 3' or mo Excavate trenches for 4".9" pipes, including	ore.
Extra for internal fair face and flush pointing per yard s	uper 1/2	Excavate trenches for 4"-9" pipes, including planking and strutting, filling in and ram-	
Horizontal damp-proof course of two	1/6	ming, and wheeling and spreading surplus:— For each 12" in depth, for trenches not	
courses of slates and bedding and pointing per foot s	110AP 2/0		3/4
Ditto of hessian base bitumen well	uper 3/9	Ditto for trenches exceeding 3' 0" and	
lapped at joints ,,	-/10	not exceeding 5' 0" deep ,,	4/9
Fixing only metal window, size 1'8" × 4'0", including cutting and pinning		Ditto for trenches exceeding 5' 0" and not exceeding 10' 0" deep ,,	7/5
lugs to brickwork, bedding frames	each ole	6" concrete (1:3:6) bed and benching 4"	6"
Ditto 3' 3" × 4' 0" ditto	each 8/6 ,, 13/2	for pipes per yard run 9/2	10/8
Ditto 6' 6' × 4' 0 ditto	,, 23/3	6" ditto, and surround 14/10	17/10

BRICKLAYER—(continued)					
Clinker concrete solid parti- tion blocks to B.S. 492 and	Partitions	2"	21"	3"	4"
setting in cement mortar Hollow olay partition blocks	per yard super	8/2	9/6	11/3	13/8
to B.S. 1190, keyed on both sides and ditto	,,	8/11	9/10	11/3	-
Moler hollow partition blooks, keyed on both sides		10/0	10/0	01/0	0=10
and ditto	**	10/3	19/9	21/3	25/8
	Facings			V	Vhite
				faci	lazed ags p.c. 80/ M for
				1,2	etchers 60/-M
Extra over common brickwo built with bricks p.c.113/— for facings as described, as pointing with a neat weat	M nd	fi p.c	dinar cings p./_ 25	, and	headers l point- g with white
ered joint :-	/II-	M			ment
To solid wall in Flemish bo	nd per yard sup	per 14/	3 18	5/2 7	18/8
To cavity wall in stretch	her	2.2	10 9	014	09.19
To ditto in Flemish bo	and ,,	11		2/4	63/2
with snapped headers Half brick wall in facings stretcher bond built fair a	nd	13	10 1	1/8	distribute.
pointed one side with a new weathered joint	eat ,,	26	9 2	7/5	_
Ditto pointed both sides	99		10 2		_
One brick wall in facings bu fair and pointed one side		49	10 5	1/2	_
Ditto pointed both sides	99		/10 5		
Brick on end flat arch in facin	and	2	/1	9 19	
pointing Brick on edge coping to 9" with two courses plain tunder, laid breaking joi two coment angle fillets a pointing	vall iles int,			5/3	_
ASPHALTER					
	Tanking		_		
Horizontal asphalt tanking	r in three		1	o B.S. 1097	To B.S. 1418
thicknesses on brick or co		yard su	iper	18/5 23/8	29/5 33/7
	Roofing		7	To B.S.	To B.S.
asphalt flat in two thic and including felt under		yard s	uper	13/2	22/1
* asphalt skirting 6" high fillet at bottom and ro					
Ammad into mana	with solid	er foot	run	2/4	2/7
cut drip at bottom	****	99		4/6	5/3
DRAINLAYER	<i>m</i> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 7.			
N.B.—The following price soil, only requiring planki Excavate trenches for 4" planking and strutting, ming, and wheeling and	ng and strutting -9" pipes, inclu filling in and spreading surplu	to har g for de iding ram-	pths	eavation of 3' or	in heavy more.
For each 12" in depti exceeding 3' 0" deep	*	****	per y	yard ru	n 3/4
Ditto for trenches on not exceeding 5' 0" d	esp 3. 0°	and		99	4/9
Ditto for trenches ex not exceeding 10' 0"	ceeding 5' 0"	and			7/5
6" concrete (1:3:6) bed	•	****		4"	6"

HOPE'S STANDARD WINDOWS



Side hung casements are hung on patented

FRICTION HINGES

which hold the casements firmly in any position

NO STAY NECESSARY — CILL IS CLEAR

NO DANGER OF SLAMMING

NO MAINTENANCE: hinge leaves are hot-dip galvanized after electro-welding to window frame. Pin and its lock-fast washer and nut are sherardized. Four friction washers are stainless steel.

THEY ARE ALSO CLEANING HINGES When open, there is ample space through which outside of glass may be cleaned from inside.

CATALOGUE NO. 284

HENRY HOPE & SONS LTD., BIRMINGHAM & LONDON

4" 13/8

25/8

zed ps p.e. /- M or chers

ointwith

1ent /8 3/2

-

o B.S.

29/5 **3**3/7

o B.S. 1162 22/1

2/7

heavy

3/4

4/9 7/5

6" 10/8 17/10



Poly flex
Patent pending and fregistered trade mark

The 'Polyflex' toilet seat has a flexible mounting. Breakages are very unlikely. 'Polyflex' includes a flexible PVC rod attached to the seat and firmly fitted into Polythene seat pillars. The pillars, reinforced with a threaded brass insert, are self-centering in the WC pan with polythene washers secured by wing nuts. The 'Polyflex' seat can be fitted by the housewife without any tools, and, because of the flexible mounting, it will stay firmly in position. The 'Polyflex' is hygienic. The seat, hinge, and pillar heads cannot corrode or peel. All are easily cleaned. The 'Polyflex' is available in black, white and a range of standard pastel shades.

MADE BY LORIVAL* AND SOLD BY

*The firm well-known as 'Lorival Plastics'—designers and moulders of components and complete articles in modern plastic materials.

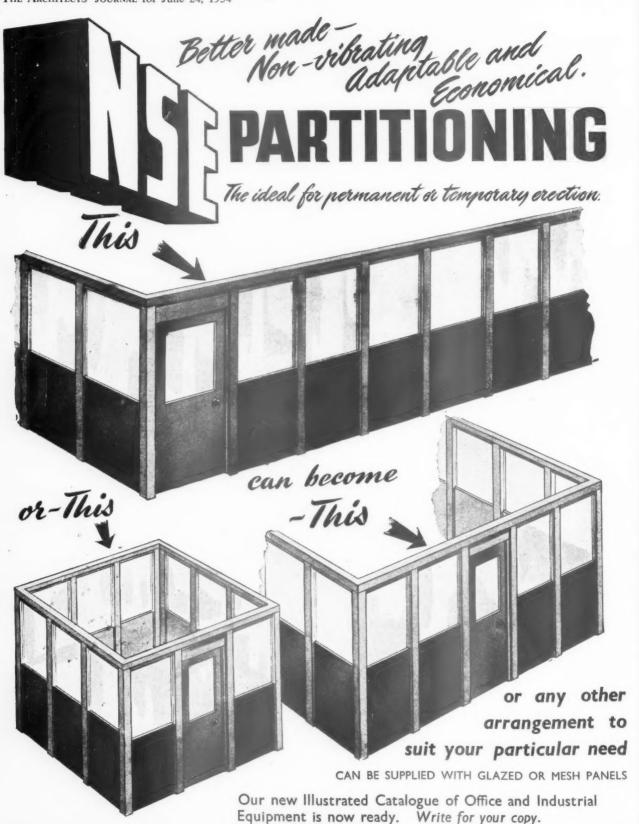
Shires are the largest manufacturers of moulded cisterns in the country. They also make WC pans and seats, flush-pipes and complete WC suites.

LEAFLE1S FROM: — DIVISION A, SHIRES & CO. (LONDON) LTD., GREENBOOTTOM WORRS, GUISSELEY, YORKS. (FACTORIES ALSO AT LONDON AND STOKE)

SHIRES (RELAND) LTD., STANNAWAY DRIVE, CRUMLIN, DUBLIN

	(continued)				
		Drains	3"	4"	
Clayware butt-join		nor foot run			
drains and laying "Seconds" qualit	y glazed	per foot run	-/4½	$-/5\frac{1}{2}$	9"
stoneware socket and laying and j	ointing in				
* British Standard ditto	" quality	99	2/1	2/11	4/11
ditto Extra on "Second		99	2/5	3/6	6/-
ity for bends Ditto "British S		each	3/2	4/9	13/9
quality ditto Extra on " Seconds		99	4/-	5/11	17/7
for equal single ju Ditto "British Si	metion	99	5/5	8/-	17/3
quality ditto	drains to	**	7/11	9/10	21/8
B.S. 437 and la jointing in trench	h	per foot run	11/1	16/10	32/11
Extra for short rac (Fig. No. 4)	dius bend	each	22/7	44/6	125/-
Extra for single (Fig. No. 18)	junction		41/3		221/2
(1 · g. 1 · o. 10)	****	Fittings, etc.	11/0	10/11	22.12
		1 mmgo, cscs		4"	6"
Glazed stoneware (ized grating and o Ditto with vertical	outlet and	setting in conc	an- rete each	22/9 28/5	42/5 47/11
Cast iron trapped g ing, and 4" outle	ulley with	high invert, gr	rat-	63/9	_
Ditto with vertical Glazed stoneware in	inlet ditto		11	72/8	_
tion arm, stopp	er and cha	ain and fixing	in	#0.10	04/0
manhole and join Brown glazed stor	neware ha	lf round strai		72/3	84/2
channels and bed mortar		ointing in com	ent er foot rui	1/11	2/10
Ditto ordinary cha Cast iron coated si	nnel bend	and ditto	eacl	5/8	7/11
frame to B.S. 49	7 Grade C	and setting fra		24"×18" 2	
in cement and co Galvanized ditto		860	99	41/9	61/8
	****		,,	69/10	105/11
PAVIOR Cement and sand screed to receive	1 (1:3) f	loated per yar	99	69/10	105/11
PAVIOR Coment and sand screed to receive Ditto trowelled an	l (1:3) for pavings	loated per yar eccive	99	69/10	105/11 1½* 4/10
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum	1 (1:3) for payings nooth to real (1:3) Ind smooth	loated per yar receive paving	rd super	69/10 3/6 4/4 3/10 4/8 3/11 4/9	105/11 11/4/10 5/2 5/3
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled hard a Granolithic paving concrete	l (1:3) for pavings mooth to relate the relate to the rela	loated per yar receive paving	rd super	69/10 3/6 4/4 3/10 4/8	105/11 11/4/10 5/2 5/3 11/2
PAVIOR Cement and sand sereed to receive Ditto trowelled sn linoleum Cement and sand trowelled hard a Granolithic paving concrete ** red composition prepared screed	1 (1:3) for pavings nooth to respond to respond to the responding	doated per yar ecceive paving aid on D. B.S. 776 laid	rd super	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1° 14' 6/5 7/3	105/11 116 4/10 5/2 5/3 116 8/1
PAVIOR Cement and sand sereed to receive Ditto trowelled sn linoleum Cement and sand trowelled hard a Granolithic paving concrete 2 red composition prepared screed terrazzo paving	1 (1:3) for pavings nooth to respond to respond to respond to the responding to the	doated per yar ecceive paving aid on D.S. 776 laid cement and s	rd super	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1° 14' 6/5 7/3 eard super	112° 4/10 5/2 5/3 112° 8/1 16/6
PAVIOR Cement and sand screed to receive Ditto trowelled and linoleum Cement and sand trowelled hard a Granolithic paving concrete If red composition prepared screed frazzo paving aggregate) laid of Extra for white or	of (1:3) for payings nooth to reduce the following of (1:3) produced the following to the following	doated per yar eceive paving aid on Dass. 776 laid cement and siles or eed	rd super	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1° 14' 6/5 7/3	105/11 1½* 4/10 5/2 5/3 1½* 8/1
PAVIOR Cement and sand sorred to receive Ditto trowelled and linoleum Cement and sand trowelled hard a Granolithic paving concrete If red composition prepared screed aggregate) laid of Extra for white or	1 (1:3) for pavings nooth to red (1:3) I nd smooth g (1:2½) land paving to (Portland m prepared cream cen in all colors.	doated per yar peccive paving aid on p. B.S. 776 laid cement and sil screed nent wurs, laid on p	rd super " " " " " " " " " " " " " " " " " "	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1/2 14/6/5 7/3 2 ard super	105/11 11/2 4/10 5/2 5/3 11/2 8/1 16/6 33/8 5/3 58/3
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled hard a Granolithic paving concrete y red composition prepared screed terrazzo paving aggregate) laid of Extra for white or y rubber flooring pared screed y 12" x 12"	I (1:3) for pavings poots to read the pavings of the paving to the pavin	loated per yar eceive paving aid on p B.S. 776 laid cement and s l screed purs, laid on p coring ditto	rd super " " " " " " " " " " " " " " " " " "	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1° 14° 6/5 7/3 eard super	113° 4/10 5/2 5/3 113° 8/1 16/6 33/8 5/3
PAVIOR Cement and sand soreed to receive Ditto trowelled an linoleum Cement and sand trowelled and a Granolithic paving concrete	l (1:3) for pavings mooth to red (1:3) I and smooth to red (1:2½) in a paving to the cream centre in all color tile from the cork tile mastic on	paving aid on b B.S. 776 laid cement and sil screed coring ditto flooring ditto flooring ditto prepared scree	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1* 14* 6/5 7/3 rard super	105/11 11/4/10 5/2 5/3 11/8/1 16/6 33/8 5/3 48/10
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled hard a Granolithic paving concrete If red composition prepared screed for terrazzo paving aggregate) laid of Extra for white or for rubber flooring pared screed If x 12" x 12" x 12" shades) laid in surfaced and polls what red paving aggregate laid of the rubber flooring pared screed If x 12" x 12" x 12" shades) laid in surfaced and polls what red paving screed and polls what red paving screed and polls what red paving screed and polls what red paving screen was a surfaced and polls what red paving screen was a surfaced and polls what red paving screen was a surfaced and polls was	l (1:3) for pavings mooth to record (1:3) In a paving to the paving to t	loated per yar eceive paving aid on pass. 776 laid cement and sile acreed portions, laid on propared screep.c. 404/6 per	rd super ,, on per y par wrn eed, M.	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1* 14* 6/5 7/3 ard super	112° 4/10 5/2 5/3 112° 8/1 16/6 33/8 5/3 48/10
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled hard a Granolithic paving concrete	I (1:3) for pavings anoth to read to the r	doated per yar receive paving aid on pass. 776 laid cement and sill screed ment purs, laid on propring ditto flooring (bro prepared screen. 404/6 per nement mort	rd super ,, on per y par wrn eed, M.	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1* 14* 6/5 7/3 rard super	105/11 11/4/10 5/2 5/3 11/8/1 16/6 33/8 5/3 48/10
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled and a Granolithic paving concrete Tred composition prepared screed terrazzo paving aggregate) laid of Extra for white or trubber flooring pared screed Tubber flooring pared screed Tubber flooring pared screed Tubber flooring pared screed Author 12" x 1	I (1:3) for pavings nooth to read smooth to read to read smooth to	paving aid on per yar paving aid on pass. 776 laid cement and side screed per yar part of the par	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 2* 1* 3/6 4/4 3/10 4/8 3/11 4/9 12* 6/5 7/3 rard super """ r yard super "" ***	105/11 1½° 4/10 5/2 5/3 1½° 8/1 16/6 33/8 5/3 48/10 or 45/11 23/6 25/7
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled hard a Granolithic paving concrete If red composition prepared screed terrazzo paving aggregate) laid of Extra for white or the rubber flooring pared screed and pol the rubber flooring screen flooring the rubber flooring pared screed the rubber f	l (1:3) for pavings mooth to reduce the reduce to the redu	doated per yar receive paving aid on pass. 776 laid cement and sil screed pours, laid on pours, laid on propored screen cement mort ps. 404/6 per n cement mort ps. 5. creed with past	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 2* 1* 3/6 4/4 3/10 4/8 3/11 4/9 12* 6/5 7/3 rard super """ r yard super "" ***	105/11 1½° 4/10 5/2 5/3 1½° 8/1 16/6 33/8 5/3 48/10 or 45/11 23/6 25/7
PAVIOR Cement and sand soreed to receive Ditto trowelled an linoleum Cement and sand trowelled an direction of the line of the	l (1:3) for pavings mooth to read smooth to read t	paving aid on per yar paving aid on pass. 776 laid cement and sil screed par part of the part of	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 2* 1* 3/6 4/4 3/10 4/8 3/11 4/9 12* 6/5 7/3 rard super """ r yard super "" ***	115/11 116/4/10 5/2 5/3 116/6 33/8 5/3 58/3 48/10 or 45/11 23/6 25/7 24/10
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled hard a Granolithic paving concrete '!' red composition prepared screed greater than the screen screed and screen screed '' x 12"	I (1:3) for pavings nooth to read to the paving to the path law attered and the path law attered and the paving tiles as law attered and the path law attere	paving aid on per yar paving aid on pass. 776 laid cement and sil screed par part of the part of	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1* 14* 6/5 7/3 rard super "" "" "" "" "" "" "" "" ""	115/11 116/4/10 5/2 5/3 116/6 33/8 5/3 58/3 48/10 or 45/11 23/6 25/7 24/10
PAVIOR Cement and sand screed to receive Ditto trowelled sm linoleum Cement and sand trowelled hard a Granolithic paving concrete	I (1:3) for pavings nooth to read to the paving to the path law attered and the path law attered and the paving tiles as law attered and the path law attere	paving aid on per yar paving district and per yar paving district and per yar per yar paving district and per yar pe	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1* 14* 6/5 7/3 rard super "" "" "" "" "" "" "" "" ""	105/11 1½* 4/10 5/2 5/3 1½* 8/1 16/6 33/8 5/3 58/3 48/10 or 45/11 23/6 25/7 ½* 1 24/16 28/7
PAVIOR Cement and sand screed to receive Ditto trowelled and linoleum Cement and sand trowelled hard a Granolithic paving concrete " red composition prepared screed aggregate) laid of Extra for white or aggregate laid of Extra for white or aggregate laid in surfaced and poly laid flat on prep lay did flat on prep lay d	I (1:3) for pavings mooth to read to the paving th	doated per yar receive paving aid on pass. 776 laid cement and statement part of the property	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 3/6 4/4 3/10 4/8 3/11 4/9 1* 14* 6/5 7/3 rard super "" "" "" "" "" "" "" "" ""	105/11 1½* 4/10 5/2 5/3 1½* 8/1 16/6 33/8 5/3 58/3 48/10 or 45/11 23/6 25/7 ½* 1 24/16 28/7
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled hard a Granolithic paving concrete	I (1:3) for pavings nooth to read to the pavings of the paving to the path law attention of the path	doated per yar receive paving aid on pass. 776 laid cement and sid screed particularly properties of flooring (broprepared screen cement mortures) as to be compared to B.S. creed with past past past past past past past past	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 3/6 4/4 3/10 4/8 3/11 4/9 14' 6/5 7/3 ard super "" "" "" "" aper 21/1 25/5	105/11 1½° 4/10 5/2 5/3 1½° 8/1 16/6 33/8 5/3 58/3 48/10 ar 45/11 23/6 25/7 24/10 36/6
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled and aranolithic paving concrete 'red composition prepared screed the trazzo paving aggregate) laid of Extra for white or the paving aggregate in the compared screed the trazzo paving argument of the compared screed the paving are to the compared screed the compared screed the compared screed the compared screed and polt hard red paving the compared to the compared the compared to	l (1:3) for pavings mooth to read smooth to read sm	doated per yar receive paving aid on part and sil screed ment and sil screed ment purs, laid on propared screen cement mort ment mort mort ment mort mort ment mort ment mort mort mort ment mort mort ment mort mort mort mort mort mort mort mor	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 3/6 4/4 3/10 4/8 3/11 4/9 11/6/5 7/3 ard super "" "" "" "" "" "" "" "" "" "	105/11 1½° 4/10 5/2 5/3 1½° 8/1 16/6 33/8 5/3 58/3 48/10 23/6 25/7 24/10 36/6 38/10 47/3
PAVIOR Cement and sand screed to receive Ditto trowelled sn linoleum Cement and sand trowelled hard a Granolithic paving concrete *** "red composition prepared screed ** terrazzo paving aggregate) laid of Extra for white or ** "rubber flooring pared screed ** ** 12" × 12	I (1:3) for pavings mooth to read to the partial of the paving to the path law to the path l	doated per yar receive paving aid on pass. 776 laid cement and si l screed ment pars, laid on prooring ditto flooring (bro prepared screen cement mort mort ment pass at a cement mort mort more discours in pilastement place ours in pilastement pass ain dressed face	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 1. 1. 3/6 4/4 3/10 4/8 3/11 4/9 1. 12 6/5 7/3 2ard super """ """ """ """ """ """ """	105/11 11 4/10 5/2 5/3 12 8/18 16/6 33/8 58/3 48/10 or 45/11 23/6 25/7 1 24/17 28/7 /10 36/6 38/10 47/3 21/3 Arti-
PAVIOR Cement and sand screed to receive Ditto trowelled an linoleum Cement and sand trowelled and aranolithic paving concrete 'red composition prepared screed the trazzo paving aggregate) laid of Extra for white or the paving aggregate in the compared screed the trazzo paving argument of the compared screed the paving are to the compared screed the compared screed the compared screed the compared screed and polt hard red paving the compared to the compared the compared to	I (1:3) for pavings mooth to read to the partial of the paving to the path law to the path l	doated per yar receive paving aid on pass. 776 laid cement and si l screed ment pars, laid on prooring ditto flooring (bro prepared screen cement mort mort ment pass at a cement mort mort more discours in pilastement place ours in pilastement pass ain dressed face	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 3/6 4/4 3/10 4/8 3/11 4/9 14' 6/5 7/3 ard super "" "" "" "" aper 21/1 25/5 2 foot cube "" foot super	105/11 1½° 4/10 5/2 5/3 1½° 8/1 16/6 33/8 5/3 58/3 48/10 or 45/11 23/6 25/7 1 24/1(28/7) /10 36/6 38/10 47/3 21/3
PAVIOR Cement and sand soreed to receive Ditto trowelled soreed to receive Ditto trowelled sore linoleum Cement and sand trowelled hard a Granolithic paving concrete	I (1:3) for pavings mooth to reach to reach to reach cere in all color beer tile floors, tile mastic on ished	doated per yar receive paving aid on passed ment and statement and statement parts, laid on prooring ditto flooring (broprepared screen cement morth ment past ment pa	rd super "" "" "" "" "" "" "" "" "" "" "" "" "	69/10 1. 1. 3/6 4/4 3/10 4/8 3/11 4/9 1. 12 6/5 7/3 2ard super """ """ """ """ """ """ """	105/11 11 4/10 5/2 5/3 12 8/18 16/6 33/8 58/3 48/10 or 45/11 23/6 25/7 1 24/17 28/7 /10 36/6 38/10 47/3 21/3 Arti-

MI GON A A A				
MASON—(continued)			Port-	Arti-
9" × 3" ditto		man foot m	land	ficial
2" × 12" Coping, weathered and	twice	per foot r	un 8/4	6/6
throated, set and jointed as last 3" × 12" Ditto		99	7/5 11/-	5/9 8/8
5" × 12" Saddle back coping	twice	**		
throated, set and jointed as last 6" × 12" Ditto	t	29	$\frac{18}{5}$ $\frac{20}{6}$	$\frac{13/2}{14/11}$
SLATER, TILER AND ROOFE	R	**	20/0	
	Slate	0.	07 . 107 1	07 107
Best Bangor slates to B.S. 680 laid	d with	20	0" × 10" 1	0 × 10
3" lap, each slate nailed with	h two		970/9	9=9/
bitto hung vertically to dormer of	heeks	per squa	re 279/3	252/-
and gables	****	99	284/6	259/3
	Tiles		Hand	Machine
Best sand faced plain (nibbed) to	iles to		made	made
B.S. 402, $10\frac{1}{2}$ " \times $6\frac{1}{2}$ " laid to a 4" with each tile in every fourth of				
nailed with galvanized nails	****	per squa	re 178/6	163/10
Ditto hung vertically to dormer of and gables to 4½" gauge with each				
nailed with galvanized nails	****	Ailon 99	194/3	183 9
Berkshire hand made sand faced $14\frac{1}{2}$ " \times 10" laid to $2\frac{1}{2}$ " head and				
each tile in every third course galvanized nails			ner admere	199/
Ditto to mansard slopes	****	••••	per square	189/- 212/8
Bridgwater hand made Double sandfaced tiles 16\frac{1}{2}" \times 14" laid	Roman	red		
each tile in every course nailed				
ised nails Concrete plain (nibbed) tiles to B	.S. 473.	101"	99	136/6
× 6" laid as before described for	plain til	les	99	132/4
Ditto hung vertically to dormer gables, ditto	cheeks,	and	,,	157.6
Concrete interlocking tiles 15" \times	9" laid	to 3"	"	
lap, each tile in every third cours galvanized nails	se named	with	**	97 8
Ditto to mansard slopes ditto	****		99	102/11
6" corrugated asbestos cement sh	los Ceme			
to wood roofs with galvanized and washers with a side lap of 11	drive so	rews		
and an end lap of 6"			99	102/11
6" ditto but fixed vertically Add to both last if fixed to stee	el purlin	or or	99	113/11
sheeting rails with galvanized h	ook bolt		99	4/9
Reinforced bituminous roofing fel-	Felt t laid wit	th 3"		
laps and nailed to rafters at 18"	centres			20/4
galvanized clout nails	****	****	"Two	22/4 Three
One-ply bitumen felt to B.S. 9891 concrete. Each layer bedded			layer	layer
bitumen		per yard s	super 8/8	11/6
Extra on last for finishing with green chippings				-/91
CARPENTER		99		102
	rcassing			
Softwood, sawn and fixed, in pl		-	foot sub-	14/0
joists and lintols Ditto in floor and ceiling joists	****	per	foot cube	16/7
Ditto in stud partitions	****	****	2.9	18/5
Ditto in rafters Ditto in purlins and struts	****	****	99	18/3 18/5
Ditto and framing in ridge Ditto in hip and valley rafters inch	nding ou	tting	39	18/3
rafters to sizes			>>	20/6
Battening	and Boo	irding	Roof	Vertical
3" × 2" battens nailed to softwo	ood for		alopes	hanging
$20'' \times 10''$ slates to $8\frac{1}{2}''$ gauge Ditto $16'' \times 10''$ slates to $6\frac{1}{2}''$ gauge	ze	per squ	are 31/3 42/-	
$\frac{3}{4}$ " \times $1\frac{1}{3}$ " ditto for $10\frac{1}{2}$ " \times 6" tile	s to 4"	"		
gauge (4½" for vertical hanging)	****	99	53/6 Roof	53,6
3// v/ 9// ditto f = 141// v/ 10//	ilos 4-			Mansards
$\frac{3}{4}$ " \times 2" ditto for $14\frac{1}{2}$ " \times 10" pant 12" gauge	0.00	>>	23/1	1 24/11
3" × 11" ditto for 15" × 9" co			18/8	
interlocking tiles to 12" gauge Roof boarding in batten widths	close	99	3"	1"
jointed and fixed to flat or slopin Ditto tongued and grooved and		9.9	110/-	136, 5
pared for felt roofing including				
to falls	***		163/1	1 190 10



(LONDON) LIMITED

CA

JO

Fre

M

Sh

44, Norwood High Street, London, S.E.27 Telephone: GIPsy Hill 1104/5/6.

Roof	JOINER—(continued)
Slopes Mansa	Labour cross-grain per foot run -/41
awn gang boarding fixed to joists in roof per foot super $1/2$ 1 Vrot and crosstongued eaves soffite ,, $1/11$ 2	rds Labour cross-grain
" wrot and grooved eaves fascia planted on per foot run -/101 1	-
	IRONMONGERY
Wall and Ceiling Boards	Soft- Hard- wood wood
" fibre board to B.S. 1142 fixed with galvanized flat headed nails to soft- cally Soft	ites 3' steel butts (medium quality) per pair 5/2 6/4
asbestos cement flat sheeting to	Double action floor springs and top centres
	Overhead check action door springs, P.C. 66/8 84/11 88/9
OTA TED	Cupboard looks, P.C. 8/2 12/5 13/7
OINER Floors and Skirtings	Norfolk latches. P.C. 5/6 , 10/8 12/3 Cylinder night latch. P.C. 15/11 , 23/6 25/6
(All thicknesses stated are nominal)	
	1" Rim lock. P.C. 10/ ,, 14/6 15/8
widths nailed to floor joists per square $135/6$ $151/ 18$ ongued and grooved ditto , $145/ 161/ 19$	2/6 Deor furniture. P.C. 24/ per set 27/7 27/11
double grooved and tongued and grooved wood block floor	Sash fasteners. P.C. 9/ each 11/9 12/4 Casement fasteners. P.C. 7/11 ,, 10/1 10/7
laid herringbone with two-block border, set in hot mastic composition on prepared screed and wax polished:—	Casement stays. P.C. 11/6 ,, 14/- 14/6
radiah softwood	2 STEEL AND IRONWORKER
uropean beech , 35 nglish oak , 46 uropean oak , 39 urma teak , 34 oftwood skirtings with splayed or Sectional area molded top edge, planted on (per inch 3" to 6" Over	9 11 Structural Steelwork
ftwood skirtings with splayed or Sectional area	The following prices are for Basic sections only. Prices for
molded top edge, planted on (per inch 3" to 6" Over	other sections vary roughly in proportion to the price of the ste
sectional area) per foot run -/2½ -/2 tra for grounds plugged to brickwork ,, -/8	ex mins—see Current Market Frices of Materials.
, , , , , , , , , , , , , , , , , , , ,	complete per ton 59 17
Windows in Softwood	Riveted compound girders including plates and rivets , 70 7
bated and molded softwood fanlights and casement sashes divided into $1\frac{1}{2}$ " 2"	R.S. stanchions including caps, bases, cleats, etc ,, 69 7
squares for glass per foot super 3/2 3/	Riveted compound stanchions ditto ,, 74 11
ned frames with 6" × 3" oak sill and 2"	Ditto 40' span 105 0
pulleys, line and weights per foot super — $10/N.B.$ —The above prices are for purpose made joinery. Stand ttern casement windows and double hung sashes and frames	4 Sundries
S. 644 are cheaper.	(excluding mortices etc.) per cwt, 11 10 Bolts with heads, nuts and washers and fixing ,, 11 1
Doors in Softwood	PLASTERER AND TILE FIXER
ramed ledged and braced doors filled in with 1" T. & G. and V-	24 gauge expanded metal lathing and fixing to
jointed boarding and hanging per foot super 6/6 7/3 7/3 our-panel door, square both sides	
and hanging ,, $5/4$ $6/1$ $6/$ itto molded one side ,, $5/11$ $6/7$ $6/$	
itto molded both sides , 6,6 7/3 7/3	Three coat time and two coat "Strapite" or
melled doors to B.S. 459 are cheaper.	On brick walls and partitions per yard super 6/4 4/11
"standard flush doors $2'6" \times 6'6"$ internal pattern each ditto external pattern ,, 12	0/5 On some of E.M.D. (measured sopar
Linings, Frames, etc., in Softwood	W Gypsum plasterboard fixed to softwood
Sectional are	soffites, in accordance with manufacturer's instructions, scrimmed and finished with
indow and door linings etc. (per inch Up to 6" 6" to	12" setting coat of suitable plaster per yard super 7/9
in sectional area) per foot run -/4 -/3 ames wrot all round and framed	girth) per foot run -/5
(ditto) ,, $-/3$ $-/2$ allions, transomes and cills (ditto) ,, $-/3\frac{1}{2}$ $-/3$	
2" to 4" 4" to	6" Rendering in Portland cement lime sand(I:1:6)
bldings, architraves, etc. (ditto) ,, $-/3\frac{3}{4}$ -/3 Window boards with rounded nos- Thickness	and setting in Keenes cement on brick walls
ings, tongued at back and including	Portland cement and sand (1:3) plain face
	trowelled smooth on ditto ,, 5/6 Portland cement and sand (1:3) screed for
	tiling on ditto
Shelving and Fittings in Softwood	Wall Tiler
holming of 9% close and 1%	1" 6" × 6" × 2" standard quality white glazed
	Ditto eggshell matt or glossy glazed enamelled 49/1
bearers (measured separately) per foot super $2/9$ 3 helving on ditto ,, $2/6$ 3	
bearers (measured separately) per foot super 2/9 3 helving on ditto , $2/6$ 3 $3/1\frac{1}{2}$ 3 roes tongued shelving on ditto , $3/1\frac{1}{2}$ 3 helving 9° wide on ditto per foot run 1/9 2	/9 2
bearers (measured separately) per foot super 2/9 3	2 2 3 EXTERNAL PLUMBER AND COPPERSMITH AND ZIN
bearers (measured separately) per foot super 2/9 3 helving on ditto roes tongued shelving on ditto helving 9" wide on ditto shelf bearers plugged to walls he following in framed up cupboard fittings :— & G. & V-jointed back	2 2 2 3 4 4 4
bearers (measured separately) per foot super 2/9 3 helving on ditto , 2/6 3 roes tongued shelving on ditto , 3/1½ 3 helving 9' wide on ditto per foot run 1/9 2 shelf bearers plugged to walls , 1/1 1 he following in framed up cupboard fittings :— . & G. & V-jointed back per foot super 2/2 2 ross tongued top, bottom shelf or	2 2 3 EXTERNAL PLUMBER AND COPPERSMITH AND ZIN WORKER

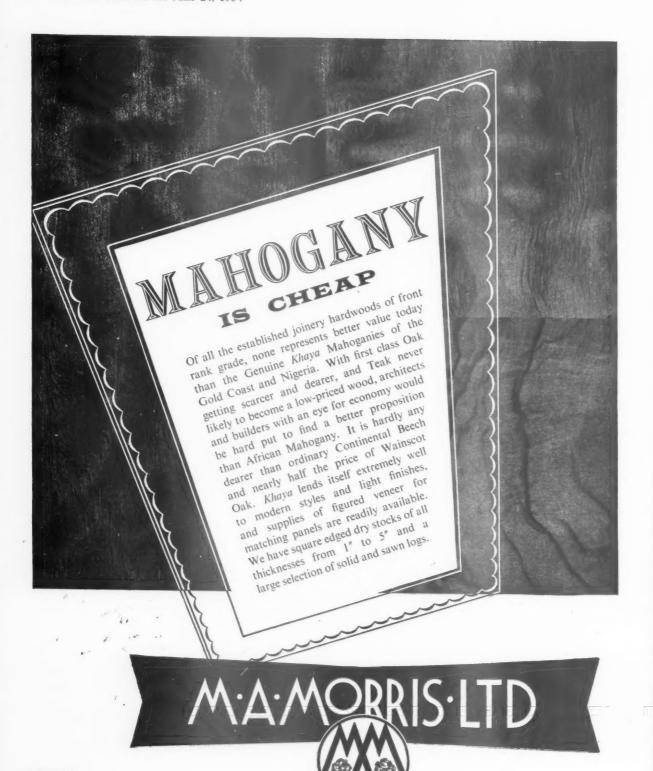
r

o d LS

N)

D

6.



24

14

As Car

Di

Dit

Flu

Dit

Pri



RAVENSDALE WHARF · STAMFORD HILL · LONDON · N.16 · TEL: STAMFORD HILL 6611 (6 Lines)

Add for

each ad-ditional coat

EXTERNAL PLUMBER AND COPPERSMITH	AND ZINC	INTERNAL PLUMBER—(continued)	
WORKER—(continued)	tters, Stepped	Brass compression type coup-	1" 11"
	lash- flash-	lings—copper to copper each 4/4½ 5/- 6	73 11/9
24 S.W.G. sheet copper and ing	gs, etc. ings		2/6 18/-
23 S.W.G. sheet copper and	5/8 5/11	Sanitary Fittings	
labour 5/8	6/- 6/3	Fireclay sinks 24" × 18" × 10" including cutting	£ s. d
14 gauge zinc and labour ,, 2/4	2/7 2/9	and pinning brackets to tiled wall. P.C. $75/$ each Combined metal sink and drainer $42'' \times 18'' \times 8\frac{1}{2}''$	h 4 17 0
Rainwater Pipes and Gutters		to bearers (measured separately). P.C. 330/	18 12 6
Cast iron medium section (3"		Fireclay lavatory basin 25" × 18" with taps and	
metal) R.W. pipes and jointing and fixing to walls with 3"	4"	towel rail bracket including screwing brackets to tiled wall. P.C. 138/6 ,,	8 8 0
mino maile and distance rises.	TYTTAL TUTTAL	Rectangular cast iron porcelain enamelled bath	0 0 0
or holderbats (cutting and holder- nails	holder- nails	5' 6" long, with taps, and panels to side and one	
pinning holderbats measured bats separately) per foot run 5/- 4/-	bats 5/2	end fixed to framing (measured separately) P.C. 390/6 ,,,	23 10 3
Pressed steel R.W. pipes and 24 G.	20 G.	Fireclay w.c. pan with trap, plastic seat, high level	20 10 0
ditto 3/9 3/1	5/4 4/8	cistern and flush pipe, including screwing pan to	10 10 6
Asbestos cement R.W. pipes and ditto ,, 2/8 —	3/6 -	floor and cistern brackets to backboard. P.C. 200/- Ditto with low level cistern. P.C. 240/ ,,,	24 30 0
Cast iron half round eaves 4"	6"		11 10 0
gutter and jointed and fixed $\frac{1}{16}$ " $\frac{3}{16}$ " with brackets to fascia , $\frac{2}{11}$ 3/2	8 18	GLAZIER	То То
D'14 - O O 1144 -	4/3 4/10 4/8 6/-	18 oz. Ordinary quality sheet glass and	ood meta!
18 Gauge pressed steel half	10 01-	glazing with putty in squares not	1/ 1/11
round ditto 2/9	3/8		$1/ 1/1\frac{1}{2}$ $1/3\frac{1}{2}$
Ditto O.G. ditto ,, 3/5 Asbestos cement half round	4/4	32 oz. Ditto and ditto	1/71 1/9
ditto ,, 2/6	3/9	figured, rolled, and cathedral—un-	
		tinted and ditto ,,	$\frac{1}{4}$ $\frac{1}{5\frac{1}{2}}$ $\frac{1}{10}$
Soil and Ventilating Pipes		‡" wired cast and ditto	1/11 2/04
Lead soil, waste and ventilat-		a Georgian wired cast and ditto ,,	1/111 2/1
ing pipes (17 lb. per yard for $3''$ and $22 \cdot 8$ lb. per yard for $4''$		1" Georgian wired polished plate and ditto	6/11 6/3
diameter) fixed to walls with 3"	4"	†" polished plate (glazing quality) and	7/12 0/0
lead tacks and brass screws per foot run 11/4	15/6	ditto ,,	6/- 6/2
Medium or heavy section cast iron soil, waste and ventilat- Heavy Med	l- Heavy Med-	PAINTER	
ing pipes with caulked joints,		Whitening, Distemper and Paint on Walls	
fixed to walls, with pipe	4.	Prepare and twice whiten plastered walls and	
nails and distance pieces ,, 5/3 4/1	1 6/9 6/8	ceilings per yard s	uper 1/2
INTERNAL PLUMBER		Prepare and twice distemper with washable distemper on plastered walls and ceilings	1/9
Lead Pipes		Ditto on brick or concrete	2/4
Prices are based upon the following weights pe		Prepare and paint two coats emulsion paint	0/=
1″ 1° 1° 1b.	1" 11"	on plastered walls Prepare, prime, and paint two coats oil colour	2/7
Supply 7 11		on plastered walls and ceilings ,,	4/9
Distributing 6	12.5 16	Paint on Metal	
Flushing and overflow 3 5	-		Add fo
Waste and ventilating			asic each ad
Supply pipe in trench (measured separately) per foot run 3/9 5/9		Prepare, prime, and paint one coat oil	rice ditiona
Ditto fixed to walls and ceilings ,, 4/2 6/5		colour on general surfaces ner ward super ?	/- coat
Distributing pipe fixed to walls	BIE 010	Ditto motel engaments	/8 2/1
Distributing pipe fixed to walls and ceilings , 3/10 $5/6$ Flushing and overflow pipe ditto , 2/5 $3/8$ Waste and ventilating pipe ditto , each $5/ 5/1$		Ditto members of roof trusses ,, 3	/10 1/9 /8 2/1
Waste and ventilating pipe ditto ,, —	- 5/8	Ditto bars, etc., not exceeding 6" girth per yard run -	/9 -/4
Joints to fittings each 5/- 5/1	1 6/4 7/-	Ditto small pipe ,, -	/9 -/4
Branch joints ,, 6/5 7/-	4 7/10 9/2	Ditto large pipe ,, 1	/7 -/8½
	- 121=	Paint on Wood	,
Steel Tubes and Fittings		T	Add for lasic each ad-
Galvanized steel tubes to B.S.		Knot, prime, stop and paint one coat	rice ditional
1387 Class C with screwed joints in red lead as supply		oil colour on general surfaces of wood-	coat
pipe laid in trench (meas-	0/2-	work per yard super 3	3/4 1/5
ured separately) per foot run 1/11½ 2/2	2/51 3/-	not exceeding 3" girth per vard run -	-/5 -/2
Ditto Class B ditto fixed to walls and ceilings as supply,			-/41/2
distributing, waste pipe, etc. ,, 1/111 2/2		Ditto on sash squares one side per dozen a	1/5 1/8 7/11 3/1
Joints to fittings each 3/9 4/6			111 0/1
Bends , , , , , , , , , , , , , , , , ,		Stain and Varnish on Wood Prepare, size, stain and twice varnish on	
	$-3/2$ $4/5\frac{1}{2}$ $5\frac{1}{2}$ $3/-4/-$		
O	5½ 3/- 4/-	general surfaces of woodwork per yard	super 3/9
Copper Tubes and Fittings		general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceed-	
Copper Tubes and Fittings Prices are based upon the following gauges:—	51/4 3/- 4/-	general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceeding 3° girth per yar	d run -/6
Prices are based upon the following gauges:— Supply 18 18	5½ 3/- 4/-	general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceed-	d run -/6
Prices are based upon the following gauges:— Supply	5½ 3/- 4/-	general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceeding 3° girth per yar	d run -/6
Prices are based upon the following gauges:— Supply 18 1 Distributing, waste, etc 19 1 Copper tubes to B.S. 1386, as	5½ 3/- 4/- 7 1″ 1½″ 7 16 16	general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceeding 3° girth per yar	d run -/6
Prices are based upon the following gauges:— Supply	5½ 3/- 4/- 7 1″ 1½″ 7 16 16	general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceeding 3° girth per yar	d run -/6
Prices are based upon the following gauges: Supply 18 1 Distributing, waste, etc 19 1 Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench measured separately) per foot run 1/10 2	5½ 3/- 4/- 7 1° 1½° 7 16 16 9 18 18	general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceeding 3° girth per yar	d run -/6
Prices are based upon the following gauges: Supply	5½ 3/- 4/- 7 1° 1½° 7 16 16 9 18 18	general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceeding 3° girth per yar	d run -/6
Prices are based upon the following gauges: Supply 18 1 Distributing, waste, etc 19 1 Copper tubes to B.S. 1386, as supply pipe laid in trench (couplings and trench measured separately) per foot run 1/10 2	5½ 3/- 4/- 7 1° 1½° 7 16 16 9 18 18	general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceeding 3" girth per yar Ditto ditto for each additional 3" in girth per yar	d run -/6
Prices are based upon the following gauges: Supply	5½ 3/- 4/- 7 1" 1½" 7 16 16 9 18 18 2/8 3/7 4/8	general surfaces of woodwork per yard Ditto on skirtings, rails, frames, etc. not exceeding 3° girth per yar	d run -/6



PRIN The I prepa Comr Comr

Socie Alth diffici of co review terior vario relati has I interi mere ing 1 has atten doing know futur

The ing an i pleasusers perfeillun

mair

disti

uno

furt

obje

ther

inte

ness

INFORMATION CENTRE

24.170 lighting

PRINCIPLES OF LIGHTING DESIGN

The Design of the Visual Field. A Report prepared for the National Illumination Committee of Great Britain by the Sub-Committee on Lighting Principles. Transactions of the Illuminating Engineering Society (London), Vol. 18 (No. 8), 1953.

Although architects may find this report difficult to follow and rather confusing, it is of considerable interest, as it attempts to review the problem of lighting building interiors as a whole and to consider all the various and complex aspects in their proper relationship. For some years recognition has been given to a wider conception of interior light-i.e., extending beyond the mere provision of illumination on a working plane-but no authoritative statement has been made hitherto. This report attempts to make such a statement, and in doing so it surveys the present state of knowledge and indicates directions in which future work might go.

The report is divided into three parts:-Part I, which reviews the aims of good

lighting. Part II, which discusses the mechanism of

interior lighting. Part III, which concerns itself with the formation of the brightness pattern and its determination

Part I. The Aims of Good Lighting
The report states, "the aim of good lighting is to reveal adequately all objects in an interior with appropriate emphasis and pleasing appearance without discomfort to users and in such a way that they can easily perform their visual tasks." In terms of illumination alone this means the right amount of light in the right places and from the right direction. It also means that the main items of visual interest must be clearly distinguishable from their surroundings by being brighter, more colourful, or providing more contrast, or all three. is facilitated if a moderately light and unobtrusive background is provided to give the eyes a suitable state of adaptation, and furthermore, if the light comes from such directions that the form and texture of the object of regard is presented in an easily recognizable way.

Visual Efficiency and Comfort. The report then goes on to state that the lighting of an interior can be designed with visual efficiency or visual comfort as the principal aims, the emphasis on one or the other depending upon the nature of the work

Visual efficiency is defined as the effectiveness with which the eyes can obtain critical relevant information from the scene pre-sented to them and some of the factors

which govern it are as follows:—
(1) The amount of light.
(2) The size of the critical details of the

(3) The contrast of the critical details contained within the task.

(4) The relation between the brightness of the task area and that of its surround.

(5) The relation between the pattern and texture of the task area and that of its surround.

(6) The relation between the colours of the task area and of its surround.

In contrast, visual comfort is defined as the sense of pleasure, well-being and satisfaction evoked by the whole scene. It is more than the mere absence of discomfort and may involve the provision of a certain amount of stimulant lighting to provide centres of interest. The kind of visual com-fort desirable will differ according to cir-cumstances. Some of the factors contributing to to visual comfort are set out as

(1) The gradation of brightness and contrast in the field of view.

The presence or absence of bright sources of light.

The presence or absence of centres of attraction.

The provision of visual rest centres. (5) The directional character of the lighting.

(6) The nature of the colour pattern.

Specification of the Visual Field. The report points out that consideration of the factors that make for visual efficiency, comfort and interest will lead the designer to a conception of the kind of visual field he wishes to produce. In order to realize this conception he must be able to express it in figures and to design and locate the lighting equipment which will produce the desired effect. The next two parts of the report are devoted to these aspects of the problem.

Part II. The Mechanism of Interior Lighting The report in this section describes the results of releasing light within an interior, either by daylight from outside or by lamps associated with lighting equipment. It points out that the interreflection of light within an interior by all the surfaces forms a pattern of brightness which is determined also by the scheme of decoration. The general brightness pattern so formed influences the brightness of the task, thus determining the adequacy with which the task can be seen. It also influences the adaptation of the eye of the user and determines whether the user will experience glare, discomfort, and distraction, and it can be organized so as to enhance effects which the architect is seeking. The report then goes on to describe the relevant factors in some detail:

(i) adaptation of the eyes.

(ii) the amount of light for the task.

(iii) emphasis and contrast. (iv) the surroundings, distraction and glare.

(v) modelling and shadows and the revealing of architecture and form.
 (vi) colour and decoration.

The last two items are probably of greatest immediate interest to the architect. Not the least important aspect of the problem is that many interiors appear quite different by night and by day, mainly because of the difference in modelling. In the section on colour the report also mentions that the effect known as "colour constancy" sidered of major importance by architects concerned with the design of interior decorations.

Part III. The Formation of the Brightness Pattern and its Predetermination

Attention is drawn to the fact that studies proceeding on visual comfort, emphasis, concentration, and the revealing of architecture involve consideration of the brightness pattern in greater detail than hitherto. It is desirable therefore to devise methods of predetermining the brightness pattern in the detail such studies demand. With this in view, the report then gives a detailed analysis of the problem in terms of the illumination falling on a surface and its reflection characteristics. It points out that the illumination falling on a surface consists of two components-Ed the illumination received direct from the lighting equipment and Ei the illumination received by reflection and inter-reflection from all

other surfaces. The relative importance of the two components depends on the conditions in the interior, i.e., the concentration or diffusion of the illumination, and the reflection factors of walls, ceilings, etc. The brightness pattern is further complicated by the effects of orientation and shadow.

A description is then given of a possible method of building up the brightness pattern. The following design stages are envisaged:-

(i) Specification of the desired brightness pattern, from considerations of em-phasis, visual tasks, modelling and comfort.

(ii) Preliminary lighting design by conventional methods with assumed or actual average reflection factors of walls and ceiling.

(iii) Determination of direct illumination (Ed) on interior surfaces chosen with

regard to the requirements of emphasis, comfort, etc.

(iv) Determination of the interreflected component of illumination (E_i) on

the same surfaces. Determination of the overall illumination of each selected combining (iii) and (iv). Calculation of luminance selected area by

from the illumination and luminance factors.

(vii) Glare check by analysis of light source/background relationships by methods of Ward Harrison or Hop-

(viii) Modification of luminance factors and lighting design where necessary to achieve the desired brightness pattern or degree of comfort.

The report then gives detailed considera-tion to items (ii) and (iii). It concludes with the reminder that "in the final design architecture, furniture, decoration, colour and light will be compounded together into an æsthetically satisfying whole and the design must result from combining the skills of the artist understanding technical means and materials and of the engineer appreciating

the artistic aims."

A very full bibliography is included.



27.B10 REFERENCE BACK

Readers are asked to note the following amendment and to correct their copy of

amendment and to correct their copy of the Information Sheet in question: Reverse of Sheet—under heading "Tiles" sub-heading "Sizes": substitute for present wording "The following sizes are available for use with the Cullum channel fixing system:

Type C.3G 13 in. thick-12 in. by 24 in., 24 in. by 24 in.
"Type C.4G 11 in. thick—12 in. by 24 in.,

24 in. by 24 in.
"Similar tiles, including 12 in. by 12 in.,
"Smilar tiles, including 12 in. by 12 in., are available for fixing by other methods.'

36.B1 REFERENCE BACK

Readers are asked to note the following amendments and to correct their copy of

the Information Sheet in question.

Face of Sheet—isometric view of Everyway Hose-reel: the handle operating the way Hose-reel: the handle operating the shut-off nozzle cock should be in the "down" position, not up as shown. Front elevation: dimension shown as 1 ft. 4 in. is now 1 ft. 5 in., 11 in. is now 9 in., and 1 ft. 0 in. is now 9\frac{1}{8} in.

Reverse of Sheet—under heading "Other Types of Soda-Acid Fire Extinguisher," last

item Model C.15 is now Model C.50.

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.)

Please ask manufacturers to send further particulars to :-

NAME

PROFESSION or TRADE

ADDRESS

AJ 24.6.54

Buildings Illustrated

Ackroydon Estate, Wimbledon Park Side and Princes Way, Wandsworth, London, S.W.19, for the London County Council. (Pages 762-768.) Architects: Dr. J. L. Martin, M.A., F.R.I.B.A. Architect to the Council, in succession to Robert H. Matthew, C.B.E., A.R.I.B.A. Principal Housing Council, in succession to Robert H. Matthew, C.B.E., A.R.I.B.A. Principal Housing
Architect: H. J. Whitfield-Lewis, A.R.I.B.A.,
Assistant Housing Architect, Michael
Powell, B.A., A.R.I.B.A. Architect-in-charge,
H. G. Gillett, A.R.I.B.A. Assistant Architect, A. P. Roach, A.R.I.B.A. Consulting
Engineers: Bylander & Waddell. Quantity
Surveyors, Frank N. Falkner & Partners.
General Contractors: Tersons Ltd. Subcontractors: Tarmacadam, Wainwright Paving & Contracting Co. Ltd.; electrical installation, Haines & Sheppard Ltd.;
plastic tile flooring, Marley Tile Co. Ltd.; stallation, Haines & Sheppard Ltd.; plastic tile flooring, Marley Tile Co. Ltd.; lift installation, Bennie Lifts Ltd., and Express Lift Co. Ltd.; hot and cold water services and ventilation to laundries, Benham & Sons Ltd., and Champions (London) Ltd.; cement glazing, Prodorite Ltd.; lightning conductors, R. C. Cutting & Co. Ltd.; formwork, scaffolding and wrought Ltd.; formwork, scaffolding and wrought ironwork, Scaffolding (Great Britain) Ltd.; plumbing, Z. D. Berry & Sons Ltd.; glazing and patent glazing, Faulkner, Greene & Co.

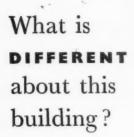
Offices at Fielden House, 28-42, London Bridge Street, London, S.E.1, for the King Edward's Hospital Fund for London. (Pages 769-774.) Architect: J. S. Lacey, A.R.I.B.A., A.M.T.P.I.; Associate Architect, C. F. Timothy, A.R.I.B.A.; Consulting (Pages 109-117),
A.R.I.B.A., A.M.T.P.I.; Associate Architec,
C. F. Timothy, A.R.I.B.A.; Consulting
Engineer, F. J. Samuely, B.SC., M.I.C.E.,
M.I.STRUCT.E., F.I.A.S., M.I.W., M.CONS.E.;
Quantity Surveyors: H. J. Venning & Partners; General Contractors: G. E. Wallis
& Sons Ltd.; Clerk of Works: G. R. Millhouse; General Foreman, W. Penn; Subcontractors: demolition, Willment Bros.

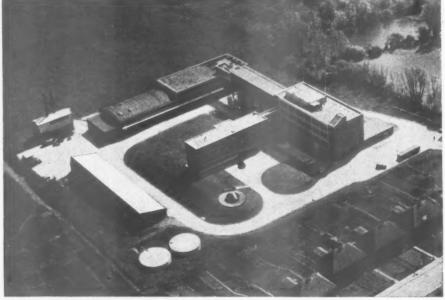
Ltd.; foundation: Pressure Piling Co. (Parent) Ltd.; asphalt, Val de Travers Asphalte Paving Co. Ltd.; reinforced concrete, Liverpool Artificial Stone Co. Ltd. (precast and prestressed), G. E. Wallis & Sons Ltd. (Insitu); bricks, A. Turner & Son Ltd.; granite, Fenning & Co. Ltd.; artificial stone, Girlingstone Ltd.; slate, Bow Slate & Enamel Co. Ltd.; glass, Aygee Ltd.; woodblock flooring, patent flooring, Horsley Smith & Co. (Hayes) Ltd.; central heating, Weatherfoil Heating Systems Ltd.; stoves, Radiation Group Sales Ltd.; gas fixtures, Radiation Group Sales Ltd.; gas fixtures, Radiation Group Sales Ltd. (incinerators), William Sugg & Co. Ltd.; boilers, Ideal Boilers & Radiators Ltd.; electric wiring, bells, Courtney Pope (Electrical) Ltd.; electric light fixtures, Courtney Pope (Electrical) Ltd., Mer-chant Adventurers of London Ltd., and Troughton & Young (Lighting) Ltd.; ventilation, Weatherfoil Ltd.; plumbing, Ellis (Kensington) Ltd.; casements, Holcon Ltd. (wood), Brunwick Metal Casement & Engineering Co. Ltd. (metal); iron staircases, metalwork, Haskins; telephones, Modern Telephones; convector covers, G. A. Harvey & Co. (London) Ltd.; sunblinds, Dean's Blinds Putney Ltd., Holcon Ltd. (Venetian blinds); plaster, Gyproc Products Ltd.; joinery, G. E. Wallis & Sons Ltd.; terrazzo and marble, Art Pavements & Decorations Ltd.; tiling, Carter & Co. (London) Ltd.; furniture, Hille of London Ltd.; shop fittings, Courtney Pope Ltd.; tion, Weatherfoil Ltd.; plumbing, Ellis (Kendon Ltd.; shop fittings, Courtney Pope Ltd.; lifts, Hammond & Champness Ltd..

Announcem ent

The British Standard for Timber scaffold boards (B.S. 2482:1954) has been published. The object of this British Standard is to give the essential requirements for produc-ing satisfactory timber scaffold boards and to assist in the selection of suitable timber. Copies may be obtained from the Sales Branch, British Standards Institution, 2, Park Street, W.1. Price 2s. 6d.

SF





Factory for the Standard Yeast Company.

Engineers: Messrs Ove Arup & Partners. Consulting Architect: David du R. Aberdeen, F.R.I.B.A., A.M.T.P.L.

There is no visible difference. But the method by which speed, cost and quality of building are controlled under the Bovis System of Contract is different. This difference of control is of great importance to Building Owners and their professional advisers.

For twenty-five years this form of contract has been successfully applied to all types of building operations throughout the United Kingdom by Bovis Ltd., a building firm of 70 years experience.

BOVIS

STANHOPE GATE . LONDON . W.I.



ast

ne, naock

& er-

ion

am & urt-

lerand

enod),

nes; Co.

inds ids); . E. Art

ontd.;

n t fold

hed. s to ducand

ber.

(By Appointment to the late King George V)

WARING & GILLOW

Specialists

IN

FURNISHING
AND EQUIPMENT

OF

PUBLIC BUILDINGS

SHIPS · CLUBS · HOTELS

SCHOOLS · BANKS

AND OFFICES

CONTRACTORS TO H.M. GOVERNMENT

Estimates on application to

Contract Department

WARING & GILLOW LTD.

164-182 OXFORD ST., LONDON, W.1

Established 1695

Telephone: MUSeum 5000

Factories at LANCASTER, LIVERPOOL and HAMMERSMITH





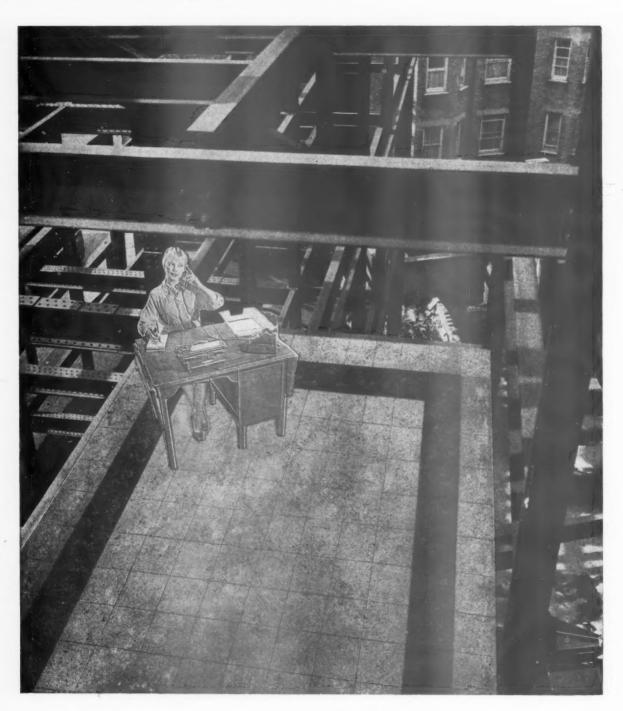
Stott-equipped Counter in the new Leyland Motors Canteen

... Then you are invited to make full use of Stotts spec-

ialist Advisory and Planning Departments whose wide and long experience is at your service. Send now for a free copy of this 28-page guide to planning for large-scale catering and ask for Brochure No. A.A. 42.



STOTTS OF OLDHAM, VERNON WORKS, OLDHAM



Catesbys lino on the job again THERE WILL BE a block of offices here with lino covered floors. Catesbys lino, of course. Why so self assured? Well, for 'Catesbys' read 60 years of lino experience; the most varied stock in Europe; the most skilled lino layers; a name in the trade as the people who really know lino; a name for working fast. It all adds up to a pretty economical total.

Laying lino in new buildings can be speeded up by using Corbulin— Catesbys special bitumous backed linoleum for concrete floors.

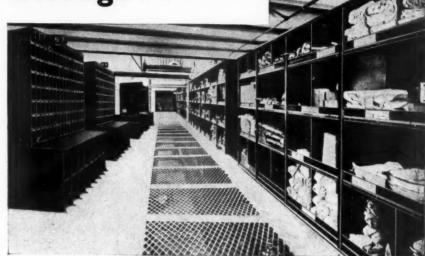
Catesbys Linoleum Contracts

Harv ment every mate finish mann readi dural embi shelv speciand

TOTTENHAM COURT ROAD · LONDON W.1 · MUSEUM 7777

For Orderly Storage . . .

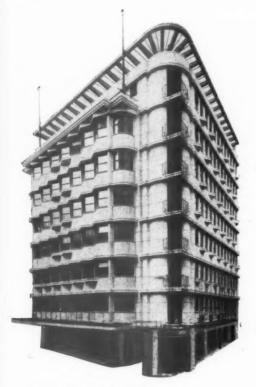
ORDERLINESS and efficiency go together. Harvey Steel Storage Equipment provides a solution to every problem of storing materials, components and finished goods in an orderly manner. Well designed, readily adjustable, strong and durable, Harvey Equipment embraces bins, racks and shelving planned to meet the special needs of every trade and industry.



Please ask for Catalogue No. A.7. 775.
G. A. HARVEY & CO. (LONDON) LTD.
Woolwich Road, London, S.E.7
Telephone: GREenwich 2323 (22 lines)

Harvey

STEEL STORAGE EQUIPMENT



Architects: Cotton, Ballard & Blow Contractors: Sir Robert McAlpine & Sons Ltd. Consulting Engineer: W. V. Zinn, M.CONS.E., M.I.C.E.

SHELL BP HOUSE

NEW STREET

BIRMINGHAM

is equipped with the latest type of High Speed

'Gearless Lifts

with Duplex Collective Control suitable for operation without attendants at 400 feet per minute by

MARRYAT & SCOTT

LIMITED

40 HATTON GARDEN · LONDON E.C.I

Works: Hounslow, Middlesex and Glasgow

Sales and Service Depots:

BIRMINGHAM · LIVERPOOL · BRISTOL · BRIGHTON

DUBLIN · BELFAST · GLASGOW · DUNDEE · INVERNESS

* Architects are invited to ask for details of these Lifts which will be supplied free on request.

· METAL · WINDOWS

INSTALLED IN

FIELDEN HOUSE LONDON BRIDGE STREET, S.E.1

BY

BRUNSWICK

METAL CASEMENT & ENGINEERING CO., LTD.
GLENFROME ROAD BRISTOL, 2

London Office:

VICTORIA HOUSE, SOUTHAMPTON ROW, W.C.1

- 40 YEARS' EXPERIENCE -

Architects are invited to utilise the services of our technical staff

Phone:
BRISTOL 57714

Phone:
HOLBORN 1303



WIDE-SPAN TIMBER BUILDINGS



For sectional timber buildings consult Hall's. Hall's standard 6 ft. unit can be assembled to any length in spans of 10 ft., 12 ft., 15 ft., 18 ft., 24 ft. and 30 ft. Built throughout of selected, fully seasoned timber (Hall's have their own timber drying kilns) they are widely used as Classrooms, Village Halls, Community Centres, Recreation Rooms, Canteens, Factory extensions, etc. Fully detailed plans supplied against your specification.

Send for clearly illustrated, fully detailed Catalogue.

(ABOVE) Nurses' Recreation Room, 30' span by approx. 100' long. (Photo: courtesy Paddington Hospital Management Committee.)

(TOP) Hall's prefabricated partitions and standard lining to walls and underside of roof. (Photo: courtesy No. 10 Group B. Wakefield Hospital Management Committee.)

HALLS

Robt. H. Hall & Co. (KENT) Ltd. 30-71 PADDOCK WOOD, TONBRIDGE, KENT.



ECONA MODERN PRODUCTS LIMITED
AQUA WORKS · HIGHLANDS ROAD · SHIRLEY · BIRMINGHAM
Tulephone and Tulegrams : Solibuli 3078

BATHS

GUARANTEED against latent defects? Our Baths are guaranteed for six months and, in addition, we pay for the cost of

replacement.

Full details from :-

ROWNSON, DREW & CLYDESDALE LTD

225 UPPER THAMES ST · LONDON · E.C.4

HULL

and a

OLDHAM

17, HANOVER SQUARE

BURNS ST. WEST ST.

In the country's best known buildings it's

LIFTS

ΒY

E.C.M

PASSENGER, GOODS
AND SERVICE LIFTS
FOR ALL PURPOSES



ETCHELLS, CONGDON & MUIR LTD. 25 MILL STREET · ANCOATS · MANCHESTER

Tel: ARDwick 4111

ECM.47.

Theory and 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.

Our Technical Advisory Department offers a personal service to architects, who are invited to write for the Smithson Handbook of Paints and Painting Practice.

THOMAS SMITH & SON LIMITED

Makers of Fine Paints since the year 1790.

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

FENCE POSTS

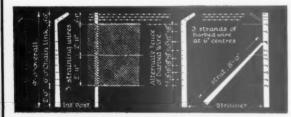
For 6' O" Chain Link plus 3 lines barbed wire on lean-over arms.

Holed for three straining wires and reinforced for spacing at 9'0" centres, with Intermediate Strainers at approximately 50-yard intervals

Supplied only, supplied complete or fixed complete. Deliveries from our nearest Works: N. Staffs., S. Staffs., Lincolnshire, S. Wales. Bucks., or Sussex.

Description	Size	Weight	
Intermediate Post End Strainer	. 6in. by 3in. by 9ft. 0in	168 lbs. 338 lbs. 338 lbs. 338 lbs. 338 lbs. 140 lbs.	

Straight posts are available from stock for 3'0" 3'6" 4'0" 4'6" 5'0" and 6'0" mesh. Also posts for wire fencing, guard tubes and rails, close and open boards, panels, etc. Please write or 'phone for particulars and prices.





TARMAC LIMITED VINCULUM DEPT

Telephone: Bilston 41101-11 (11 lines)

LONDON OFFICE: 50, PARK ST., W.1. (GROsvenor 1422-5)

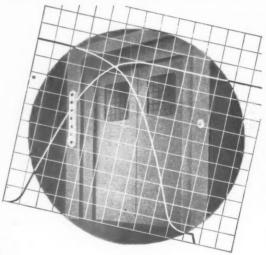
In the best Lifts...

SPEED-TIME curves

mean nothing to the passenger

The smooth rate of change of acceleration provided by M-V drives allows high-speed operation with complete passenger comfort. Rapid and accurate "decking" is another feature inherent in the M-V lift drive and control systems. From start to

stop and in between, a lift powered by M-V motors gives that faultless service so pleasing to passengers and maintenance men. M-V equipment is backed by the advice and service of engineers who really understand the problem of lift drives.





A typical Metrovick gearless lift motor

METROPOLITAN-VICKERS

FLECTRICAL CO LTD - TRAFFORD PARK - MANCHESTER 17

J/A005

The Refe

The HA

C. H. A Messrs. in Libra

Geo

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

lxxviii

ALL THE BETTER TO SERVE YOU WITH!

Architects and Education Authorities for excellent design, first class quality, timber and workmanship allied to adequate strength. It is cheaper, in the first place, to cut down on timber dimensions and not to kiln-dry, but school furniture is subjected to five years normal wear in one school year.

You can stake your reputation on Hammer's quality.







The Refectory, Hatfield Technical College

The illustrations we have chosen show furniture supplied to the HATFIELD TECHNICAL COLLEGE, County Architect, C. H. Aslin, Esq., C.B.E., F.R.I.B.A. Architects for the building, Messrs. Easton & Robertson, FF.R.I.B.A. HAMMERS specialise in Library, Laboratory and Church Furniture.

"You can trust Hammer's personal service."

Geo. M. Hammer & Co. Ltd.

Crown Works, Hermitage Road, Harringay, STAmford Hill 6691-2 London, N.4. Craftsmen in woodwork since 1858

Another VOLEX installation.



Reproduced by courtesy of Messrs F. Perkins Ltd. of Peterborough

The VOLEX WARM AIR SYSTEM

is recognised as the most efficient and economical system of Heating and Ventilation for Schools, Clinics, Churches, Shops, Offices, Factories, Workshops and all buildings where a pleasant equable atmosphere—essential to health and efficiency—is required. It maintains an even

temperature and draughtless ventilation all the year round, and the air in the building can be changed as often as desired according to the processes carried on. The heaters are made either for gas-firing, hand-firing, worm feed stokers or oil-firing.

Ventilate as you heat

Sole Makers: T. E. SALTER LIMITED TIPTON STAFFS.

Telephone: TIPTON 1657/1658

Some BOOKS on English architecture and social life

- The Architecture of England by Frederick Gibberd, F.R.I.B.A., A.M.T.P.I. This popular book (70,000 copies of it have already been sold) presents in text and pictures the complete evolution of English architecture and explains, briefly, its relation to the historical background and social life of the times. Size 11½ ins. by 9 ins. 48 pages, with over 150 drawings and about 80 halftone illustrations. New edition (70th thousand). 10s. 6d. net, postage 7d.
- English Architecture at a Glance by Frederick Chatterton, F.R.I.B.A. Illustrated by J. D. M. Harvey, B.A. A simple review in pictures of the chief periods of English architecture, accompanied by brief historical notes on the various styles and their details. Nearly 100,000 copies of it have already been sold, and its popularity is accounted for by the fact that it enables the amateur to identify the periods literally "at a glance." It contains over 90 line drawings and some halftone illustrations. Size 8½ ins. by 5½ ins. Eighth Impression of the Fifth Edition. 4s. 6d. net, postage 3d.
- A History of the English House by Nathaniel Lloyd, O.B.E. The most authoritative and exhaustively illustrated history of the English house ever published. 498 pages with 900 illustrations. Size 12½ ins. by 9 ins. £3 13s. 6d. net, postage 1s. 10d.
- A Miniature History of the English House by J. M. Richards. Specially written for those who need a small inexpensive handbook on the English house, this is a complete outline history of our domestic architecture from primitive hut to present-day house. Many illustrations are drawn from the late Mr. Nathaniel Lloyd's standard work (described above); but Mr. Richards' text is entirely original and, moreover, continues beyond the early 19th century, tracing the subsequent development of the house down to the nineteenthirties. Size 8½ ins. by 5½ ins. 72 pages with over 90 illustrations. Seventh impression. 4s. 6d. net, postage 3d.
- Parliament House: the Chambers of the House of Commons by Maurice Hastings, Ph.D. To understand the traditional plan adopted for the new Chamber of the House of Commons we have to go back to 1547 when the King's chapel of St. Stephen's became the home of the Commons. Dr. Hastings makes a brilliant and learned reconstruction of this place where so many high events and great Parliamentarians moved; he also describes Barry's Chamber and that opened in 1950, designed by Sir Giles Gilbert Scott, showing how the choir-stall seating plan has continued unchanged through the centuries. Bound in full cloth boards. Size 8½ ins. by 5½ ins. 200 pages with 78 illustrations. 12s. 6d. net, postage 6d.
- English Panorama by Thomas Sharp, M.A., D.Litt. The first carefully studied and original account of the evolution down the centuries of the English scene in town and countryside, this book ends with a penetrating analysis of the problems of town and country planning which now confront us. First published in 1936, it has now been revised with much new material and is almost entirely newly illustrated. Bound in full cloth boards. Size 8½ ins. by 5½ ins. 148 pages, with over 50 halftone and line illustrations.

 12s. 6d. net, postage 6d.
- English History at a Glance: a chart designed by H. A. Vetter. With a historical digest by Peter Dantry and Ernest Savage.

 Dr. Vetter's large coloured chart is an original method of presenting history in a visual way. It is divided vertically by lines representing dates and horizontally into a series of different sections which cover the following subjects: The Land, Science, Economics and Social History, Exploration, Politics, Literature, Drama, Painting, Sculpture, Architecture, Music, Religion and Philosophy. On their correct date-lines, and in their appropriate sections, appear the names of the men who have influenced the development of English life and achievement; and these are printed on coloured labels representing the period to which they belong. The historical digest which follows the chart gives a brief account of the development of each activity, and outlines the achievement of the men named in the chart. At a glance, therefore, the reader can follow the development of, say, literature through the centuries, and at a glance also, can see who was contemporary with whom—for instance, which writers were contemporary with which composers, and which prime-ministers with which philosophers, and so on. An unbelievably large amount of information in every field of English history, in its broadest sense, is contained in this book. Size 13\frac{3}{4} ins. by 10\frac{6}{8} ins. Containing a coloured chart (6 pages), text (which includes 70 halftone illustrations), a bibliography and index. 8s. 6d. net, postage 8d.

A complete illustrated catalogue will be sent on application to

THE ARCHITECTURAL PRESS 9-13, Queen Anne's Gate, London, S.W.1.

Overseas: U.S.A.: The British Book Centre, Inc., 122 East 55th Street, New York, 22,, N.Y., U.S.A. Canada: The British Book Service (Canada) Ltd., 1068 Broadview Avenue, Toronto, Canada. South Africa: E. Maxwell Arnot, P.O. Box 275, Capetown, S.A.



d ng

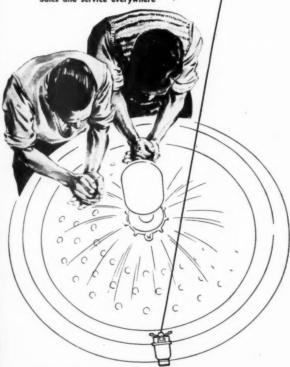


In school or factory, barracks or ships; by shower or basin, fountain or trough, group washing needs thermostatic control and the best place to put it is at the point where the hot water meets the skin of the user.

Leonard thermostatic valves save heat and save water. Avoid risk of burns. Add to the joy of the user and the good looks of the washroom.

The Leonard valve system is by far the most widely used and is specified by most architects.

Sales and service everywhere





Write for leaflet No. 2/W

THERMOSTATIC MIXING VALVES

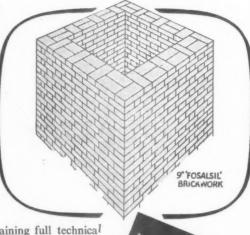
WALKER, CROSWELLER AND CO.LTD. CHELTENHAM

'Fosalsil' Flue Nº 1. OFFICE BLOCKS. Constructions

This modern design conforms in all respects to the special requirements of internal flue construction:

- Superlative heat insulation
- Economy in space, weight and constructional costs.
- Lack of thermal movement due to negligible co-efficient of expansion.

FLATS. ETC.



Write for brochure containing full technical details of this and other "Fosalsil" constructions.

PRODUCTS MOLER

Sole Manufacturers of 'FOSALSIL' Flue Bricks

HYTHE WORKS · COLCHESTER

Phone: COLchester 3191 (3 lines).

S

REVISED

EDITION.

Grams: FURMOL Colchester.



This book is different from all other books, guides, encyclopædias; it tells you what the others don't tell you; it takes you where the others won't take you; and it covers a wider range of subjects in its 104 close-set pages than any comparable volume—how to see a murder trial or a newspaper printed; where to find a jazz club, a tartan kilt or a Turkish bath; City taverns and ducal homes to visit; where to buy caviar or a hat, glass eyes or riding boots and a thousand other things. It has been compiled by a team of experts and research workers, all ardent Londonophils, writing factually but affectionately of the London of 1954, the greatest man-hive in the world. Its accent is personal and practical and the London it reveals is the hidden, secret, under-the-surface London-a place alive and to be enjoyed rather than the on-the-surface London of the standardised guides.

papers say

it will be a revelation to most Londoners.'-TIME AND TIDE

'There is a London the Londoner knows, feels in his heart, and loves inarticulately, which has been captured in this brief guide book.'- CHRISTIAN SCIENCE MONITOR, BOSTON, U.S.A.

'Truly out of the rut . . . smooth, colloquial.'-WHAT'S ON IN LONDON

'One can accept no substitute . . . intended for tourists; but 'Guide de Londres original et amusant, parce qu'il est bien rédigé et parce qu'il est illustré par Osbert Lancaster.'-· MERCURE DE FRANCE IR

D

H

D

IT

0

Z

H

4

C M D

CIT

(A)

Z

W

H

'Small, well packed, pocket-size book which is indeed an original, yet accurate, guide to the unhackneyed jaunts about Town . . . informed, disinterested, companionable.'--MAN-CHESTER GUARDIAN



FOOTNOTE: And here, in case you would like to read a complete book review is Vogue's, the whole of it. Short but very, very sweet:

"London Night and Day", the Architectural Press's guide for tourists and locals, among the wittiest, prettiest and most knowledgeable of its kind, informal yet immensely suave, like Sherlock Holmes in his dressing gown.

WOMEN'S SHOPS · CAFES · PUBS · STREET MARKETS · RIVER TRIPS · NIGHTLIFE RESTAURANTS · MEN'S FASHIONS · DELICATESSEN · PAGEANT · MUSIC · PLEASURE

ARCHITECTURAL PRESS OUEEN ANNES



an example..

of the adaptability
of BROADS TRUCAST DUCT COVERS

specially designed for use in:
POWER STATIONS, HOSPITALS, SCHOOLS,
KITCHENS, LABORATORIES,
BOILER HOUSES, ETC.

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

BROADS

HIRD

H

DITI

0

RE

4

D COMPANY

TRUCAST

CONTINUOUS

DUCT & ACCESS COVERS

DETAILED BROCHURE SENT ON REQUEST

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



THIS BOOKLET

should be in every Architect's files

METSEC NAILABLE OPEN WEB STEEL JOISTS

are ideally suited to meet the latest trends in design for Schools, Flats, Houses, etc. Made from Cold Roll Formed Sections, this modern building product combines exceptional strength with rigidity and lightness. These and many other advantages are fully

ALDE CONTR

26 STORE STREET

described in the Booklet, which also contains Loading Test Report, Methods of Fixing and Blue Print of the 6 Standard Joist profiles with dimensions and technical data—a most interesting booklet and a most useful reference.

Write for FREE Booklet "Nailable Open Web Steel Joists" to

METAL SECTIONS LTD., OLDBURY, BIRMINGHAM. Phone: BROadwell 1541



The double grip ferrule of the Hanlo Joint ensures an absolutely permanent Joint of almost welded strength and yet it can be remade any number of times without losing its efficiency. Hanlo is acknowledged by Municipal Authorities and leading Contractors to be the best Compression Joint available—the sales figures prove it too! ASK FOR DETAILS OF THE HANLO PILLAR COCK ADAPTOR

The new fully illustrated Hanlo Catalogue is now available. Your copy will be sent on request.

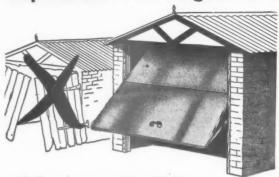
- LA made by Lovell & Hanson Ltd

332, SPON LANE, WEST BROMWICH
Phone: West Bromwich 1681.

on Office: 2 Countiabury, St. Mark's Hill, Surbiton, Surrey, Phone: Elmbridge 6262.
London Distributors & Stockists:

W. N. Froy & Sons Ltd.
The Builders Copper Tube Co. Ltd.
Brunswick Works,
14, Norfolk Street, W.C.2
Hammersmith W.6
Temple Bar 4696 (4 lines)

Replace those old hinged doors



with a smooth-sliding

trouble-free

UP AND OVER

BATLEY" Up & Over" Doors 7'6" wide x 6'3" high can be quickly and easily fitted to any width or height of opening. The door glides smoothly on ball-bearing wheels, up and into the garage, leaving an unobstructed opening with a clear height There are no springs to lose tension; nothing to warp or sag. The doors are double cross braced for strength and rigidity.

Panelled with Aluminium Alloy or Exterior Grade Mahogany Plywood, grained finish to take varnish or paint

FREE ENGLAND AND WALES

Free Brochure and details from

ERNEST BATLEY LIMITED

63 COLLEDGE ROAD, HOLBROOKS, COVENTRY. Tel: 89245/6



DELIVERED

easilyne TARS

Make them part of your plan. . .

The 'Easilyne' range of taps conforms in every way to BSS.1010/1953 and is specially designed to answer the modern approach in house planning.

These all-metal chromium-plated fittings are available as Bibcocks, Pillar Cocks, Globe Cocks, High-necked Pillar Cocks and Bath and Sink Mixers, all of which incorporate the 'Easilyne' design throughout.

All these taps are fitted with 'Ner-drip' Washers which, under normal conditions, will last the life of the taps.

- 'Easilyne' Taps have been:-
- Approved by the Council of Industrial Design for inclusion in "Design Review."
- * Awarded a "Good Housekeeping" Seal of Merit.

It's a good plan that specifies 'Easilyne.'

ASTON HALL ROAD **BIRMINGHAM 6**

de

Designers & Manufacturers of a Complete Range of Fine Quality Plumbers Brassfoundry.



Registered number 873764 Patents pending

the Q-stak

a really low cost stacking chair

Price Considerably cheaper than most stacking chairs

Shape Scientifically designed for correct seating posture

Construction Suitable for heavy duty in schools canteens and all multiple seating projects

Finish New hard plastic surface in colours or various wood veneers

Details and prices on application

Robin Day design

Hille of London Ltd 39/40 Albemarle Street WI Mayfair 4476

Second edition

THE NEW

SMALL

5/6

dern

ocks, Bath esign

nder

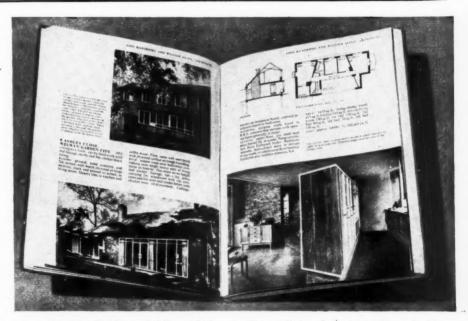
sion

ry.

HOUSE

by F. R. S. Yorke, F.R.I.B.A.

& Penelope Whiting, A.R.I.B.A.



THIS SECOND EDITION OF A NEW BOOK by Mr. Yorke and Miss Whiting consists mainly of photographs and plans illustrating the most interesting small houses that have been built since the War—mostly in this country but also a few good examples abroad. A short text accompanies each illustration and describes details of construction, equipment, and the materials used. Where possible costs are given. The book is presented in a way that will make it as useful to the architect in private practice as to the architect engaged on public housing schemes for local government and other authorities. Size $9\frac{1}{2}$ ins. by $7\frac{1}{4}$ ins. 144 pages including 128 pages of halftone and line illustrations. Second edition. 25s. net, postage 10d. inland.

THE ARCHITECTURAL PRESS, 9-13 Queen Anne's Gate, London, S.W.1.

THE ENGRAVERS GUILD LTD

MAKERS OF PRINTING BLOCKS

and

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



.

.

.

.

.

.

SIB

Cut time, labour

and cost!

S.I. Buildings Ltd., 446, Abbey House, 4, Victoria Street, London, S.W.I.
Tel: ABBey 3964
and 25h, Ruskin Chambers, 191, Corporation Street, Birmingham, 4.
Tel: Central 3254.

S.I B.Ic



STRUCTURAL STEELWORK

FOR INDUSTRIAL AND AGRICULTURAL BUILDINGS

CROGGON & CO.

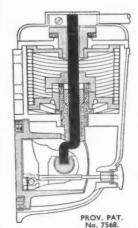
230, UPPER THAMES ST., LONDON, E.C.4 Central 4381/3 Works: Colnbrook ESTD. 1835



ECONA MODERN PRODUCTS LIMITED AQUA WORKS HIGHLANDS ROAD SHIRLEY BIRMINGHAM Telephone & Telegrams: Solikull 3078

Defiant Mk.II

The Door Closer which combines robust components, with pleasing appearance and a well proved mechanical principle.





Accepted by the Council of Industrial Design for inclusion in "Design Review"

The DEFIANT MK. II is of completely rust-proof, die-cast alloy construction.

All bearing surfaces are either steel or close grained cast-iron. The self-cleaning check rod action is based on a principle applied with success for the last 40 years, and an improved gland bearing eliminates oil leakages. Check action can be varied by turning the frontal knob. A completely dust-proof cover completes the streamlined appearance.

The Defiant MK. II is absolutely silent, it closes the door gently, prevents slamming and holds it firmly at the closed position.

FULL DETAILS ON REQUEST.

Attractively finished in Gold Bronze, Brown Bronze or Chromium Plate.

QUIBELL & SONS, 23 NORTHWOOD ST., BIRMINGHAM 3.

Telephone: CENtral 2225

Export Division: 6 Bloomsbury Square, London, W.C.1 Tel: HOLborn 8303.

First impression sold—second now ready!

For ARCHITECTS, CONTRACTORS and all WHO BUILD

THE ARCHITECT AND THE LAW

by Richard Body, Barrister-at-Law with a Foreword by Rt. Hon. Sir David Eccles, Minister of Works

Price: 8s. 6d.

"... contains matter which every architect must... know by heart if he is to avoid legal difficulties"

Estates Gazette

From all book-sellers or from the publishers, Institute of Registered Architects, 47 Victoria St., S.W.I. 8s. 9d. post free

Prints and the Phoenix

When planning interior decoration, remember that the Phoenix Gallery has London's biggest selection of Impressionists in reproduction; also prints of other schools from Botticelli to Henry Moore. Then there are the Phoenix Folios: six fine colour prints in each for three guineas; unparalleled value! The catalogue tells all. Write or call.

THE PHOENIX GALLERY (Dept. AB), 38 William IV Street, London, W.C.2

(Temple Bar 0525)



BARKING BRASSWARE GO LTD . RIVER ROAD . BARKING . ESSEX



School Design and Construction



by J. A. Godfrey

and R. Castle

Cleary, AA.R.I.B.A

376 pages, over

60 plans, 40 pages

of photographs

THE PURPOSE OF this book is to provide architects and educational authorities with a comprehensive and up-to-date textbook on school design, construction and equipment. It consists essentially of three main sections dealing with schools built during recent years, namely, the planning of their accommodation; the basic design requirements which directly affect the physical well-being of the children and staff; and the construction of the building itself and the equipment of its interior. Reference is frequently made to the 1951 Regulations of the Ministry of Education, and close attention has been given to the work of the Building Research Station. Size 8½in. by 5½in. 36s. postage 1s. inland.

THE ARCHITECTURAL PRESS 9-13 Queen Anne's Gate, London, S.W.1.

ADVERTISEMENTS CLASSIFIED

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

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

Public and Official Announcements

The engagement of persons answering these elevationed must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man eged 18-59 inclusive or a woman aged 18-59 inclusive unless he or she or the employment, is excepted from the provisions of the Notification of Vacanies Order, 1982.

MINISTRY OF WORKS.

ARCHITECTURAL ASSISTANTS are required for drawing offices work in London and various Regional Offices. Candidates must have had at least three years' architectural training, some experience in an architect's office, and be of Intermediate R.I.B.A. standard.

London salary scale per annum: 2420 (at age 21) to 2670 (slightly less in the provinces). Starting rate up to 2550, according to age and experience. Although unestablished, these posts have long-term possibilities and promotion prospects, and competitions are held periodically for establishment.

State age, nationality, and full details of train-25s. per inch; each additional line, 2s.

ment.
State age, nationality, and full details of training and experience, to W.G.10/CA5 (F), Ministry of Works, Abell House, John Islip Street, London.

of Works, Abell House, John Islip Street, London S.W.1.

AIR MINISTRY WORKS DEPARTMENT requires ARCHITECTURAL ASSISTANTS in Design Branch. Applicants should be experienced in planning and preparation of working drawings and details for permanent and semi-permanent billdings. Professional quals. an advantage. Yacancies mainly London few Provinces. Appointments carry liability for overseas service for which allowances payable. Salaries up to £780 p.a. for men, £618 for women. Starting pay dependent upon age, quals. and experience. Extra duty allowance or overtime payable. Reasonable prospects of promotion. Posts temporary and non-pensionable but have long term possibilities. Competitions held periodically to fill established vacancies. Applications from natural born British subjects only, quoting A/C and stating age, quals. and previous appointments, giving dates and stating types of work done, to Air Ministry. S.2(h)/NA. Cornwall House, Stamford Street, London, S.L.1.

2748

GOVERNMENT OF NC THERN IRELAND.

ages

on

of en ze S.2(h)/NA. Cornwall House, Stamford Street, London, S.E.I. 2748
London, S.E.I. 2748
GOVERNMENT OF NC THERN IRELAND.
MINISTRY OF FINANCE—DIRECTORATE OF WORKS.

ARCHITECTURAL ASSISTANTS.
WORKS.

Applications are invited from ARCHITECTURAL ASSISTANTS with recognised training and fair experience for unestablished posts in the Chief Architect's Branch. The employment will provide useful experience for those seeking to obtain professional qualifications. Successful candidates will be eligible for consideration for permanent and pensionable posts as vacancies arise and for promotion to a higher grade on their obtaining full professional qualifications. The inclusive annual salary scale (which is at present under review) is £351 rising to £628. The R.I.B.A. Intermediate Examination will be £495. Entry points for other candidates will be fixed in relation to their ages, e.g., £351 at age 21; £440 at age 25 or over.

Proference will be given to candidates who served in H.M. Forces in the 1914-18 or 1939-45 wars, provided that such candidates are, or within a reasonable time will be, able to discharge the duties efficiently.

Candidates who are invited to attend for interview will be recomped out of reviews and the review of the review of

served in H.M. Forces in the 1914-18 or 1939-46 wars, provided that such candidates are or within a reasonable time will be, able to discharge the duties efficiently.

Candidates who are invited to attend for interview will be recouped cost of railway and steamer fares at minimum rates.

Applications, giving date of birth and full details of training and qualifications, should be sent to the Director of Establishments, Ministry of Finance, Stormont, Bellast.

2005

CUCKFIELD URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT

The Council invite applications for the post of Architectural Assistant in the Surveyor's Department. Salary Grade A.P.T. IV).

Applicants must be able to undertake the design of houses and estate layouts and to prepare final plans, working drawings, specifications and estimates, and preference will be given to those who have passed the Intermediate Examination of the Royal Institute of British Architects or its equivalent.

The appointment is superannuated and subject to passing a medical examination.

Consideration will be given to the housing needs of married applicants.

Applications, enclosing copies of three recent testimonials, should reach me by noon on Monday, 5th July, 1954.

Canvassing disqualifies.

J. A. EVANS.

Clerk of the Council.

Oaklands, Haywards Heath,

Sussex.

11th June, 1954.

Sussex. 11th June, 1954.

COUNTY BOROUGH OF WEST HAM.
BOROUGH ARCHITECT AND PLANNING
OFFICER'S DEPARTMENT.
Applications are invited for the following appointments:—
(1) CHIEF ASSISTANT (TOWN PLANNING).
A.P.T., Grade X (£920×£40×£40×£50—£1,050, plus London allowance).
Applicants must be A.R.I.B.A., A.M.T.P.I., and the successful applicant will be required to take charge of the Town Planning Section of the Department. Experience in the following is essential:—
(4) The preparation and residents.

partment. Experience in the following is essential:—

(a) The preparation and realisation of a Development Plan for a County Borough;
(b) the redevelopment of war damaged and obsolescent areas;
(c) the examination of development applications and their presentation to Committee;
(d) the preparation of evidence for Public Inquiries and acting as technical witness;
(e) the delineation of areas for compulsory acquisition under the Planning and Housing Acts. Ability to handle negotiations and some experience of public relations work will be an advantage.

Ability to handle negotiations and some experience of public relations work will be an advantage.

(2) SENIOR ASSISTANT (TOWN PLANNING). A.P.T., Grade VIII (£785×£25×£25×£25-£866), plus London allowance.

Applicants must be A.R.I.B.A., A.M.T.P.I. Preference will be given to applicants who have had experience in the redevelopment of obsolescent areas and in the layout of detailed proposals for such areas. Applicants should also be capable of preparing evidence for Public Inquiries.

(3) SENIOR ASSISTANT (TOWN PLANNING). A.P.T., Grade VII (£735×£25×£25×£25—£310, plus London allowance).

Applicants should be A.R.I.B.A., and preference will be given to those with a planning qualification. Applicants should have had some experience in the preparation of layouts for residential areas, and also be capable of giving advice in matters relating to the exercise of architectural control under the Planning Act.

Forms of application are available from Thomas E. North, O.B.E., F.R.B.B.A., Dist.T.P., Borough Architect and Planning Officer, 70, West Ham Lane, Stratford, E.I.S., and must be submitted by 7th July, 1954.

CITY OF CAMBRIDGE.

by 7th July, 1954. 2973

CITY OF CAMBRIDGE.

CHIEF ASSISTANT ARCHITECT, GRADE X.

Applications are invited for the above appointment on Grade X (2920-21.050).

This officer will be responsible to the City Surveyor for the design and construction of all architectural work, including schools, houses, flata, redevelowment schemes, libraries, etc. and will have under his direction an architectural staff of about seventeen assistants.

The appointment is subject to the Scheme of Conditions of Service of the N.J.C. for Local Authorities, and to the provisions of the Local Government Superanuation Act, 1937. The successful candidate will be required to pass a medical examination.

Forms of application may be obtained from the City Engineer and Surveyor, Guildhall, Cambridge, and should be returned to him by Monday, the 28th June, 1954.

ALAN H. I. SWIFT.

ALAN H. I. SWIFT, Town Clerk.

The Guildhall, Cambridge.

ASSISTANT ARCHITECT (HOUSING). A.P.T.,
V (£620-£670).
Particulars of appointment and form of application, to be returned by 3rd July, may be obtained
from the Borough Architect, Guildhall, Northampton. ampton.

C. E. VIVIAN ROWE, Town Clerk.

COUNTY BOROUGH OF WOLVERHAMPTON.
APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.
Architectural Assistants required in Borough
Engineer's Department, Salary: A.P.T. III,
8550-8595, or A.P.T., IV, £580-£625, according to

ē550-£695. or A.P.T., IV, £580-£625, according to qualifications.
Appointments subject to one month's notice and to provisions of Local Government Superannuation Act, 1937. Medical examination.
N.J.C. Conditions of Service.
Applications, stating age, qualifications, present position, and full details of experience, together with names of three referees, should be delivered to the Borough Engineer. Town Hall, Wolverhamulon, not later than Wednesday, 7th July, in envelope endorsed "Architectural Assistant," revenue for the Borough Engineer.

Town Hall, Wolverhampton.

Town Hall, Wolverhampton.

Town Hall, Wolverhampton.

BOROUGH OF BRENTFORD AND CHISWICK.
APPOINTMENT OF TEMPORARY ASSISTANT
ARCHITECT.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications invited for this appointment (for minimum period of six months) cm Grade VI (£725 to £790 per annum, including London weighting), salary dependent on experience and qualifications. Experience in housing design and detailing is essential.

Written applications, stating age, experience

salary dependence in housing design.

Experience in housing design.

Experience essential.

Written applications, stating age, experience and qualifications, with two recent testimonials, to reach undersigned by 10th July, 1954.

W. F. J. CHURCH,

Town Clerk.

3040

COUNTY BOROUGH OF BARNSLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT
APPOINTMENT OF CHIEF
ASSISTANT
ARCHITECT.
Applications are invited for the appointment of
CHIEF ASSISTANT ARCHITECT in the
BOTOUGH Engineer and Surveyor's Department at
a salary in accordance with A.P.T. Grade VIII
(4785-4860) is should be Associate Members of the

Borough Engineer and Surveyor's Department at a salary in accordance with A.P.T. Grade VIII (£785-£260).

Applicants should be Associate Members of the Royal Institute of British Architects and have had considerable experience in the design and layout of Municipal Housing Estates and other Public Buildings (excluding Schools).

The Corporation have a large and varied programme of schemes in preparation and the post offers wide scope in the field of architecture.

Housing accommodation will be provided for the successful candidate, if necessary, and a car allowance will be paid in accordance with the Scheme for Casual Users.

The appointment will be subject to (a) the Scheme of Conditions of Service for A.P.T.C. Staff; (b) any other general conditions of employment in operation within the Corporation from time to time; (c) one month's notice on either side; and (d) to the Local Government Superannuation Acts for which purpose the successful candidate will be required to pass a medical examination.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Barnsley, should be returned to reach him not later than Tuesday, 20th July, 1954.

Canvassing will disqualify and applicants should disclose whether they are related to any Member or Senior Officer of the Council.

A. E. GILFILLAN.

Town Hall, Barnsley.

Town Hall, Barnsley. June, 1954.

June, 1954.

COUNTY BOROUGH OF BURY.
Applications are invited for the following appointments:—
(a) ARCHITECTURAL ASSISTANTS, up to Grade A.P.T., V (£620-£670), according to qualifications and experience.
(b) BUILDING INSPECTOR, Grade A.P.T., II

(£520-£565).

The appointments are subject to the Local Government Superannuation Act, 1937, and medical

examination.

Applications, stating age, details of training, qualifications and experience, together with the names and addresses of two persons to whom reference may be made must be received by me not later than 10th July, 1954.

EDWARD S. SMITH,

Town Hall, Buy.

Town Hall, Bury.

16th June, 1954.

BOROUGH OF FINCHLEY.
TEMPORARY JUNIOR ARCHITECTURAL
ASSISTANT.
HOUSING AND TOWN PLANNING
DEPARTMENT.

Salary: A.P.T., Grade II (£520×£15—£555, plus
London weighting).
Candidates must have passed R.I.B.A. Inter.
Examination, and should have practical office experience of housing work.
The National Scheme of Conditions of Service and the Local Government Superannuation Acts apply and medical examination required.
Applications, stating age and full particulars of qualifications and experience, with the names of two referees, to the Borough Housing and Town Planning Officer, The Avenue, Finchley, N.J, by first post on Monday the 5th July, 1954.

B. M. FRANKLIN,
Town Clerk.
3036

SOUTHAMPTON C.B.C. require SENIOR ASSISTANT ARCHITECT, Grade VI (£695-£760). Application forms from Borough Architect, Civic Centre, Southampton, to be returned by 12th July, 1054

FIFE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for appointment as ASSISTANT ARCHITECT in the above Department. Salary scale: 2760, rising by three increments of £30 and two of £10 to £870. Candidates should be qualified Architects. Previous Local Authority experience an advantage. The successful candidate will be considered for admission to the Council's Superannation Scheme, subject to passing a medical examination, and consideration may be given to meeting housing needs. Applications, stating age, experience and qualifications, together with copies of recent testimonials, to be lodged with the undersigned not later than 3rd July, 1954.

MATTHEW POLLOCK.

MATTHEW POLLOCK. County Clerk. 3035

County Buildings, Cupar, Fife.

County Clerk.

County Clerk.

Coventy Clerk.

BOROUGH OF SOLIHULL.
BOROUGH ENGINEER AND SURVEYOR'S
APPOINTMENT OF ARCHITECTURAL ASSISTANT (A.P.T., GRADE IV).
Applications are invited for the appointment of an Architectural Assistant, A.P.T., Grade IV

Candidates must have had at least two years' office experience, and should either have passed, or be about to take, the Intermediate Examination of the R.I.B.A.

Housing accommodation can be made available to the successful applicant, if required.

Applications, stating age, experience and previous appointments, together with copies of two recent testimonials, should reach The Borough Engineer and Surveyor, 90, Station Road, Solihull, not later than Friday, 9th July, 1954.

W. MAURICE MELLI,

Town Clerk.

The Council House, Solihull. 16th June, 1954. HACKNEY BOROUGH COUNCIL invite appli-

cations:—

(a) From Registered Architects for the appointment of an ASSISTANT ARCHITECT. Salary offered within A.P.T. Division, Grades V(a).VI (£550-£56) per annum), plus London weighting allowance.

Preference will be given to candidates with experience in the design and construction of Manicipal housing schemes and public buildings.

(b) For two posts of ARCHITECTURAL ASSISTANT. Salary for each appointment within A.P.T. Division, Grades III-IV (£550-£625 per annum). London weighting allowance also payable.

able.

Candidates must have had a good architectural training, and must have passed the B.I.B.A. Intermediate or equivalent examination.

Apply to Town Clerk, Town Hall. Hackney, B.S. for application form, returnable by 10th July, 1954.

HEMEL HEMPSTEAD DEVELOPMENT
CORPORATION.

APPOINTMENT OF ASSISTANT ARCHITECTS
(Yearney No. 108). Inter. R.I.B.A. essential.

Salary scale: £510×£25-£655 p.a. Consideration will be given to starting salary at maximum scale where appropriate, and to promotion to next grade (£660×£30-£750) on passing Final Examination. Applicants should have experience in housing and in the case of one appointment of industrial development.

APPOINTMENT OF JUNIOR ASSISTANT ARCHITECTS (Yearney No. 109). Salary scale: £255-£450. Applicants should have good architectural drawings in connection with housing and/or industrial work, and should be studying for R.I.B.A. examinations.

Housing accommodation may be available. Conditions of service similar to Local Government Charter, with opportunity of entering or continuing in Local Government Superannuation Scheme.

Scheme.
Application forms can be obtained from General Application forms can be obtained from General Application forms can be obtained from General Applications of the Application of

COUNTY BOROUGH OF GREAT YARMOUTH.
APPOINTMENT OF ASSISTANT
ARCHITECTS.
Applications are invited for the following appointments in the Borough Engineer's Department.

Applications are invited for the lonowing appointments in the Borough Engineer's Department:

(a) SENIOR ASSISTANT ARCHITECT (Grade A.P.T., VII, £735-£810). Applicants should be A.R.I.B.A., with office experience, which is essention for this position.

Preference will be given to candidates with wide administrative experience in the handling of large contracts. Housing accommodation will be offered by the Council if required.

(b) JUNIOR ARCHITECTURAL ASSISTANT (Grade A.P.T. II, £220-£555). Applicants should possess enthusiasm for their job and be of contemporary outleek. Preference will be given to candidates of Intermediate standard. Housing accommodation is not available for this post.

The appointments will be terminable by one month's notice on either side, subject to the provisions of the Local Government Superannuation Acts, and passing a medical examination. Applications, stating age, qualifications, education and training and appointments held, giving the names of two referees, should be enclosed in an envelope appropriately endorsed, and must reach me by the 9th July, 1954.

Candidates must disclose in writing whether they are related to any officer or member of the Council. Canvassing disqualifies.

FARRA CONWAY.

Town Clerk.

Town Hall, Great Yarmouth. 10th June, 1954.

ROYAL BOROUGH OF
KINGSTON-UPON-THAMES.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT Grade A.P.T. III.
Commencing salary £550, plus London Weighting. National Scales of Salaries. Canvassing will disqualify. Details from Borough Surveyor, Guildhall, Kingston-upon-Thames.
Applications with names of two referees to undersigned by 17th July.

A. B. ROGERS.

A. B. ROGERS, Town Clerk

Guildhall, Kingston-upon-Thames.

STAFFORDSHIRE COUNTY COUNCIL.
COUNTY PLANNING AND DEVELOPMENT
DEPARTMENT.
Applications are invited for the appointment

Applications are invited for the appointment of:

of:

(a) PLANNING ASSISTANT, A.P.T., Grades IV-VI. Salary: £580 to £760.

(b) JUNIOR PLANNING ASSISTANT, A.P.T., Grades I-IV. Salary: £490 to £625.

Both vacancies exist at the Southern Area Planning Office at Wolverhampton. Commencing salary according to experience and qualifications. Applicants for (a) should be professionally qualified and have had experience in the preparation and carrying into effect of housing estate layouts, estate redevelopment work, and urban redevelopment schemes.

Applicants for (b) should have had training in an Architects, Engineers, Surveyors or Planning Office, and preference will be given to those who have passed the Intermediate Examination of the Town Planning Institute or its equivalent.

Applicants should give details of age, education and training, qualifications, present and previous appointments and experience, and the names of two persons to whom reference can be made. Applications, in which relationship to any member or senior officer of the County Council must be disclosed, should be sent to D. W. Riley, County Planning and Development Officer, 4la, Eastgate Street, Stafford, not later than the 3d July, 1954.

T. H. EVANS.

Clerk of the County Council.

3009

BOROUGH OF LUTON TECHNICAL STAFF Applications are invited for the following pointments in the Borough Engineer's Depart-

appointments in the Borough Empirical (salary between General Division at £170 per annum and A.P.T. V at £620 according to qualifications and experience). Previous experience of schools and housing work an advantage.

(b) ARCHITECTURAL ASSISTANT Grade A.P.T. VII (£735 per annum). Extensive experience in school and housing work. House available.

able.

Appointments are subject to National Conditions of Service and Local Government Superannuation Acts, 1937/1953.

Particulars of age, qualifications, experience, previous and present appointments and salary, with names of two referees, to the Borough Engineer, Town Hall, Luton, by 12th July, 1954.

A. D. HARVEY.

Town Clerk.
2989

COUNTY COUNCIL OF THE WEST RIDING
OF YORKSHIRE.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the appointment of
CHIEF PLANNING ASSISTANT on the Headquarters staff of the Department at Wakefield,
at a commencing salary within the Grade (2785225-2860), according to qualifications and experi-

at a commencing salary within the Grade (2288×228-2800), according to qualifications and experience.

The duties attached to the post will include work on central area redevelopment and the preparation of advisory housing layouts, etc.

Applicants must be qualified Architects, and should preferably in addition be Corporate Members of the Town Planning Institute and have had a sound general planning experience.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, as amended by the West Riding County Council (General Powers) Act, 1948, and the successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications and experience, should be accompanied by copies of two recent testimonials, or should give the names and addresses of two referees, and must reach the undersigned not later than 3rd July, 1954.

ARTHUR BATES,

County Planning Department,

71, Northgate, Wakefield.

3011

CAMBORNE-REDRUTH URBAN DISTRICT

CAMBORNE-REDRUTH URBAN DISTRICT
COUNCIL.
APPOINTMENT OF QUANTITY SURVEYOR.
Applications are invited for the appointment of
Quantity Surveyor (Housing) at a salary in
accordance with Grade A.P.T. V (£620-£670).
Applicants should have had suitable experience
in the preparation of Bills of Quantity, measuring and valuation for interim certificates and
final accounts, for work in connection with large
housing schemes.

final accounts, for work in connection with large housing schemes.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1397, and to the National Joint Council's Scheme of Conditions of Service, and is terminable by one month's notice in writing on either side.

Consideration will be given to the provision of housing accommodation, if required.

Applications, stating age, details of qualifications and experience, together with the names and addresses of two persons to whom reference may be made, should be received by the undersigned not later than the 3rd July, 1954.

Canvassing, either directly or indirectly, will be a disqualification, and applicants must disclose their relationship to any Member or Senior Officer of the Council.

S. C. WILSON, Clerk of the Council. Council Offices, Camborne,

Cornwall. 11th June, 1954.

COUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION.
The Essex County Council invite applications for the post of ARCHITECTURAL ASSISTANT in the Offices of the Borough Engineer of Hiford. Candidates should have passed the R.I.B.A. Intermediate Examination or its equivalent, at one of the recognised Schools of Architecture, and have worked in an architectural office for a period of not less than two years.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade IV, £580×£15—£625, plus the appropriate London Area allowance.

Application should be made on a form to be obtained from, and returned to, the Borough Education Officer, Education Offices, Town Hall, Illord, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement.

COUNTY COUNCIL OF DURHAM.

APPOINTMENT OF DEPUTY COUNTY PLANNING OFFICER

Applications are invited from persons who are at least Associates or Members of the Town Planning Institute and who have had considerable experience in planning work for the appointment of Deputy County Planning Officer at a sclary of £1,400 × £100-£1,700 per annum. Applications must reach me on or before 7th July, 1954, and applicants should state the names of two or more persons to whom reference may be made. Canvassing either directly or indirectly will disqualify and applicants must disclose in writing whether to their knowledge they are related to any member of the Council.

J. K. HOPE,

Clerk of the County Council.

office inclu flats. forms £655 and

from for 8 must

Estat £375, butor ing have know

Ap

Engi in a Nati

Ap Exar Arch The to th

Acts, tion.

Ap than

Town

The applience his I (a) Divis (b) Divis

(c) Divis

Grad The being porar appl Arch VIII The

visio Act, side. pass Apparti

prese copie and

may Keny 18, (later

Net EAS APPO

App an E of the in acc annur Can of sai an elein the electr The to the App ing, cemplo copies addres Bever than

Count June App assists £625;

App Count (P.268

Shire Hall, Durham.

14th June, 1954.

DERBY CORPORATION.

BOROUGH ARCHITECT'S DEPARTMENT.

(a) SENIOR QUANTITY SURVEYOR, GRADE
VI. Salary £695-£760, commencing at £696 per

VI. Salary £695-£760, commencing annum.

Applicants should be Chartered Quantity Surveyors or Prospective, and be fully experienced in the preparation of quantities, specifications, site measuring and estimates for all classes of building works.

(b) JUNIOR QUANTITY SURVEYOR, GRADE I/II. Salary £490-£565, commencing at £490 per annum.

Applicants should have passed the R.I.C.S. First Examination, be not less than 21 years of age, and be experienced in working up bills of quantities and measuring up on site.

Permanent staff appointments, subject to one month's notice and pensionable subject to medical examination. National Conditions of Service. Forms of application obtainable from, and to be returned to, the Borough Architect, The Council House, Derby, not later than 5th July, 1954.

G. H. EMLYN JONES, Town Clerk

CORPORATION OF THE CITY OF ABERDEEN APPOINTMENT OF CITY ARCHITECT. The Corporation of Aberdeen invite applications for the appointment of City Architect. The salary scale is £1,850, rising by two annual increments of £100 each and one increment of £50 to a maximum of £2,100 per annum. The person to be appointed shall be a member of the Royal Institute of British Architects who, on 1st June, 1984, had not reached the age of 50 years. Previous local government experience is desirable.

Applicants should state age, present position.

years. Previous local government experience is desirable.

Applicants should state age, present position, professional qualifications and experience. Each application should be accompanied by a copy of not more than three recent testimonials and should give the aames of three persons who would be prepared to act as referees.

The post is superannuable and the person selected will be required to pass a medical examination before appointment.

Further particulars as to terms and conditions of appointment may be had on request from the undersigned.

Applications must be lodged with the Subscriber on or before 10th July, 1954. Each candidate is required to furnish forty copies of his application.

J. C. BENNIE,

J. C. BENNIE, Town Clerk.

Town House, Aberdeen. 12th June, 1954.

NORTHERN IRELAND HOUSING TRUST.

ASSISTANT ARCHITECT.

The Trust has a vacancy for an Assistant Architect. Grade II, on the salary scale of £725 £25.4800.

Candidates must be Associate Members of the Royal Institute of British Architects and should have experience of housing projects.

The person appointed will be required to participate in a contributory superannuation schemes allowing for the reciprocal transfer of benefits in suitable cases.

Assistance in obtaining housing accommodation may be given to the successful candidate.

Please apply, as soon as possible, giving full details of age, education, qualifications and experience, including present post and salary to the General Manager, Northern Ireland Housing Trust, 12 Hope Street, Belfast.

THE DEPARTMENT OF HEALTH FOR SCOTLAND invite applications from ARCHITECTURAL DRAUGHTSMEN, with considerable office experience for a non-pensionable post. Duties include development of designs for multi-storey flats, traditional housing and non-traditional forms of house construction. Salary range: £40-£655 (women £575), with placing according to age and experience. Form of application, obtainable from Establishment Officer, Department of Health for Scotland, St. Andrew's House, Edinburgh, 1, must be returned by 3rd July, 1954.

ARCHITECTURAL ASSISTANT required by UNIVERSITY OF CAMBRIDGE, Department of Estate Management. Commencing salary: £296-£375, according to age and experience; contributory pension scheme. Wide variety of interesting work, giving opportunity of valuable experience towards qualifications, Applicants should have completed National Service and have a sound knowledge of working drawings, details and surveys. Reply, giving full details to Secretary, 74, Trumpington Street, Cambridge.

COUNTY BOROUGH OF BOLTON.

Applications are invited for the appointment of an ASSISTANT ARCHITECT in the Borough Engineer and Surveyor's Department at a salary in accordance with grade A.P.T. V/VI of the National Service of the Examination of the R.I.B.A. and be Registered Architects.

The commencing salary will be fixed according

ions ANT ford.

one and eriod with

sion, o be Hall, hree pear-3010

Y

are iderffic

may ectly se in

are the

uncil 3000

NT. LADE 5 per

Sur

tions,

RADE 0 per First age, ls of

rvice.

d to

The

July,

DEEN CT. ations

ember who, of 50 nce is

sition,

Each opy of s and s who

person redical ditions om the Sub-candi-of his IE. Clerk. 2990 UST. sistant

lidates. partici-scheme efits in nes in

nmoda-idate. ng full is and lary to Iousing

3018

Architects.

The commencing salary will be fixed according to the candidate's experience and qualifications.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, and to the passing of a medical examination.

Acts, and to the passing of a tion.

Applications, on forms to be obtained from the undersigned, should be forwarded to me not later than Monday, 5th July, 1954, in envelopes endorsed "Assistant Architect."

PHILIP S. RENNISON,

Town Clerk.
3021.

Town Hall, Bolton.

Town Hall, Bolton.

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.
CITY ARCHITECT'S DEPARTMENT.
The City Architect will be pleased to receive applications from suitably qualified and experienced Architects for the following vacancies in his Department:—

(a) SENIOR ASSISTANT ARCHITECT A.P.T. Division Grade VIII (£785-£869).

(b) SENIOR ASSISTANT ARCHITECT A.P.T. Division Grade VI (£695-£769).

(c) SENIOR ASSISTANT ARCHITECT A.P.T. Division Grade VI (£695-£760).

(d) ASSISTANT ARCHITECT A.P.T. Division Grade VI (£595-£760).
The extensive programme of building work being undertaken is of an interesting contemporary character. Preference will be given to applicants trained at a recognized School of Architecture, especially in the case of the Grade VIII post.

applicants trained as Architecture, especially in the case of the Graue Architecture, especially in the case of the Graue VIII post.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side. Successful candidates will be required to pass a medical examination.

Applications stating position applied for, age, particulars of training, qualifications, experience, present and past appointments, together with copies of two recent testimonials or the names and addresses of two persons to whom reference may be made should be addressed to George Kenyon, A.R.I.B.A., A.M.T.P.I. City Architect.

18. Cloth Market, Newcastle-upon-Tyne, 1, not later than Saturday, 3rd July, 1954.

JOHN ATKINSON,

Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1. 11th June, 1954.

Newcastle-upon-Tyne, 1.

11th June, 1954.

EAST RIDING OF YORKSHIRE COUNTY
COUNCIL

APPOINTMENT OF ELECTRICAL ENGINEERING ASSISTANT.

Applications are invited for the appointment of an Electrical Engineering Assistant on the staff of the County Architect's Department at a salary in accordance with A.P.T., Grade II (£520-£565 per annum).

Candidates will be required to provide evidence of satisfactory experience in the employment of an electrical contractor or Local Authority, and in the design, supervision and maintenance of electrical installations.

The appointment is superannuable and subject to the passing of a medical examination.

Applications, giving particulars of age, training, qualifications, experience, past and present employment (with salaries), and accompanied by copies of three recent testimonials, should be addressed to the County Architect, County Hall, Beverley, June, 1954.

THOMAS STEPHENSON.

Clerk of the Council.

County Hall, Beverley.

3063

County Hall, Beverley. June, 1954. June, 1954.

WORCESTERSHIRE COUNTY COUNCIL.
Applications are invited for architectural
assistants, Grades A.P.T. IV-VI (Grade IV £580-£625; Grade V £620-£670; Grade VI £695-£760),
according to ability and experience.
Application forms from L. C. Lomas, F.R.I.B.A.,
County Architect, 14, Castle Street, Worcester.
(P.268.)

CANNOCK URBAN DISTRICT COUNCIL.

Applications are invited for the following appointment in the Architect's Department:—QUANTITY SURVEYOR—Salary within Grades A.P.T. VII (£785-£810) and A.P.T. VIII (£785-£860). A.R.I.C.S. or equivalent required candidates.

HOUSING ACCOMMODATION AVAILABLE to married candidates.
Further particulars and forms of application are available from the undersigned.

Closing date 8th July, 1954.

W. C. SPEEDY.

Clerk of the Council.
3020.

Clerk of the Council.

W. C. SPEEDY.
Clerk of the Council.

WETROPOLITAN BOROUGH OF FULHAM.

ASSISTANT QUANTITY SURVEYOR.
Quantity Surveying Section—A.P.T., Grade VIII
(£785-£86 p.a., plus £30 p.a. London weighting).
Experienced in preparation of bills of quantities and complete management of large contracts for blocks of multi-storey flats and public buildings.
A.R.I.C.S. (Quantities) examination or equivalent.
Application form from Town Clerk, Town Hall,
S.W. 6. Closing date: 6th July, 1954.

WESTMINSTER CITY COUNCIL require ARCHITECTURAL ASSISTANT (permanent),
A.P.T., III or IV, £550-£625 per annum, according to age). Applications, detailing experience of surveys, making working and detail drawings, structural calculations, specifications, approximate estimates and London Building Acts procedure, together with two copy testimonials, to Town Clerk, City Hall, Charing Cross Road,
W.C.2, by 3rd July, 1954.

CITY OF LEEDS.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(1) ASSISTANT ARCHITECTS, A.P.T., VII (£755-£260).

(2) ASSISTANT ARCHITECTS, A.P.T., VI (£095-£760). (3) ASSISTANT ARCHITECTS, A.P.T., V (£620-£670).

ARCHITECTURAL ASSISTANT, A.P.T., III

(£550-£595),
(5) ASSISTANT QUANTITY SURVEYOR,
A.P.T., VIII (£785-£850).
(6) ASSISTANT QUANTITY SURVEYOR,
A.P.T., VI (£735-£810).
(7) ASSISTANT QUANTITY SURVEYORS,
A.P.T., V (£620-£670).
(8) ASSISTANT QUANTITY SURVEYOR,
A.P.T., I (£490-£535).
(9) ASSISTANT SURVEYOR, A.P.T., VI (£695-£670).

(11) CLERK OF WORKS, A.P.T., IV (£580-

(12) CLERK OF WORKS, A.P.T., II (£520-

(11) CLERK OF WORKS, A.P.T., IV (£580-£625).

(12) CLERK OF WORKS, A.P.T., II (£520-£625).

The payment of salary increments will be subject to satisfactory service and will be granted normally with effect from the 1st April following the completion of six months' service.

The appointments are subject to the Local Government Superannation Acts, 1937-1953, and the successful applicants will be required to pass a medical examination and the successful applicants will be required to pass a medical examination and the successful applicants will be required to pass a medical examination and the city Architect, Priestley House, Quarry Hill, Leeds, 9, to whom they should be returned, together with copies of three testimonials, by 22 noon on Friday, 9th July, 1954.

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

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

City Architect.

Priestley House, Quarry Hill, Leeds, 9.

BOROUGH OF WIDNES.

Amended Advertisement.

APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the appointment of a QUANTITY SURVEYOR, at a salary in accordance with Grade VII £735-£810 commencing at the minimum of the grade. The appointment will be subject to review in two years time.

Candidates should be corporate members of the R.I.C.S. possessing a thorough knowledge of building contract procedure, and wide experience in the preparation of bills of quantities, estimates, valuation for interim certificates, and settling of final accounts, etc.

The Corporation's present building programme consists of varied housing, educational and general works, including the conversion of existing premises into a Civil Hall.

HOUSING ACCOMMODATION, if required, will be provided by the Council.

The appointment will be subject to the National Scheme of Conditions of Service as adopted by the Council and to the successful candidate passing a medical examination, and full details of professional experience, present and previous appointments with dates, together with the names and

FRANK HOWARTH, Town Clerk.

Town Hall, Widnes. 18th June, 1954.

COUNTY BOROUGH OF WEST HARTLEPOOL.
BOROUGH ARCHITECT'S DEPARTMENT.
APPOINTMENT OF ASSISTANT ARCHITECT.
Applications are invited for the position of Assistant Architect in the Borough Architect's Department on Grade A.P.T. V £620-£670 or Grade VI £695-£760 according to qualifications and experience.

Department on Graue A.F.I. According to qualifications and experience.

Applicants for the position on Grade A.P.T. V should be Registered Architects, and applicants for this position on Grade A.P.T. VI should be Associates of the Royal Institute of British Architects.

The appointment is subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Technical and Clerical Services and the Local Government Superannuation Acts, 1937-1953. The successful candidate will be required to pass a Medical Examination.

Applicants should state the Grade applied for and give details of age, experience and qualifications, together with copies of not more than three testimonials.

testimonials.

The Council is prepared, in a suitable case, to provide housing accommodation in connection with this appointment.

Applications should be addressed to the Borough Architect, Municipal Buildings, West Hartlepool, and be received by him not later than 14th July, 1954.

ERIC J. WAGGOTT, Town Clerk.

Town Clerk's Department, West Hartlepool. 18th June, 1954. 3059

18th June, 1954. 3059

CITY OF CARDIFF.

APPOINTMENT OF ARCHITECTURAL

DRAUGHTSMAN.

Applications are invited for the following appointment in the City Surveyor's Depart-

appointment in the City Surveyor's Department:—
ARCHITECTURAL DRAUGHTSMAN, Miscellaneous Grade 3 (£395-£460 per annum),
Candidates should possess the minimum qualifications and experience prescribed by the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services for posts in the abovementioned grade.
General Conditions of Appointment may be obtained from the undersigned.
Applications, accompanied by the names and addresses of three referees and endorsed "Architectural Draughtsman, Miscellaneous Grade 3," must be delivered to me not later than the 12th July, 1954.

S. TAPPER-JONES, Town Clerk.

City Hall, Cardiff. 18th June, 1954.

18th June. 1954. 3064

EAST ELLOE RURAL DISTRICT COUNCIL.
ARCHITECTURAL ASSISTANT.
Applications are invited for the above, A.P.T.,
Grade IV. appointment in the Architect's Department.
The appointment will be subject to the National Scheme of Conditions of Service and to the provisions of the Local Government Superannuation Act, 1937. Housing accommodation may be made available if required.
Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, together with the names of two persons to whom reference may be made, must be forwarded to the undersigned not later than the 10th of July, 1954.

J. C. PYWELL.

J. C. PYWELL,

Clerk to the Council.

Council Offices, Mattimore House,
Holbeach, Spalding, Lines. 3061

Tenders for Contracts

6 lines or under, 12s. 6d.; each additional line, 2s.

BRITISH HLECTRICITY AUTHORITY.

LONDON DIVISION.

Offers are invited for the purchase and removal from Fulham Generating Station, Townmead Road, Fulham, London, S.W.6, of the following:—

1 "Barcro" Drawing Storage Eliminator, Model 502, complete with Camera, Turntable, Copy Holder, and Back Flood Lighting Box, Double Front Light Box, Switchboard, Enlarging Easel, Enlarging Condenser and Lamphouse, Rails and Bookholder.

For permission to view and conditions of tender, application should be made to the Divisional Purchasing Officer, British Electricity Authority, London Division, Generation House, Great Portland Street, London, W.1, not later than the 16th July, 1954.

Architectural Appointments Vacant
4 lines or under. 7s. 6d.; each additional line. 2s.
The engagement of persons answering these
advertisements must be made through a Local
Office of the Ministry of Labour or a Scheduled
Employment Agency if the applicant is a man
aged 18-64 inclusive or a woman aged 18-59
inclusive unless he or she or the employment, is
excepted from the provisions of the Notification
of Vacanies Order, 1952.

A SSISTANT (at Intermediate stage) required
for Architects' London office engaged in
major works of restoration and construction of
Schools and Colleges. Appointment offers excellent opportunities for supervision of works and
calls for a candidate with initiative. Salary £350£450 per annum. Box 2974.

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS and Draughtsmen or women required in basy office in the Home Counties. Some experience essential. Large varied practice. Please state experience and salary required. Bex

A SSISTANT required, intermediate/Final Standard, previous office experience and ability to do working drawings, surveys and specifications essential. Write details of age, training and experience to Box 2E G3179, A.K. Adys. 212a Shaftesbury Ave. London, W.C.2. 3057

A SSISTANT required. Qualified or approaching final and with experience. Immediate requirement is for large-scale and interesting work. Valuable experience for keen man. Watson, Johnson & Stokes, Victoria Square, Birmingham.

WEST END Architects require ASSISTANTS.
Inter. to Final standard, for industrial and
commercial buildings. Salary £500-£700, according to experience. Ring Mayfair 3245. 2976

ing to experience. Ring Mayfair 3245. 2976

A SSISTANT required in branch office of London Architects at Crawley. Must have good general experience and be up to Intermediate standard. Interesting contemporary work. Possibility of accommodation locally, otherwise contribution towards fares from London. Salary from 2500, according to experience. Apply Box 2970.

A RCHITECTURAL ASSISTANT urgently required, experienced in preparation of Working Drawings, Details, Specifications and supervision, for South-West London office. Apply in writing, giving full particulars of experience, age, and salary required. A SSISTANT (JUNIOR)

ARCHITECTURAL ASSISTANT (JUNIOR)
Required in Architect's Department.
Interesting work and good prospects. Apply Staff
Architect, Greenall Whitley & Co., Ltd., Wilderscool Brewery, Warrington.

ASSISTANT for general practice in Midlands.
suitable. Box 2956.

SUITABLE. Box 2960.

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.

cesential. Apply in writing giving full particulars of qualifications, age, experience and salary required to Box 9829.

CCLESIASTICAL ARCHITECT has vacancy for an ASSISTANT of Intermediate Skandard who would be interested in old and new church work. Lawrence H. Bond, 11, Elmer Street, Grantham, Lincs.

2550

CLIFFORD TEE & GALE, F./F.R.I.B.A., require ARCHITECTURAL ASSISTANT, intermediate standard, for industrial work in their office at 43, Frederick Road, Birmingham, 15, Five-day week.

3002

ASSISTANT ARCHITECT required, age 25-35.

Must be fully qualified A.E.I.B.A. Experience in industrial and commercial work an advantage. Applications to Personnel Manager, Taylor Woodrow Construction, Ltd., Ruislip Road, Southal Middlesex. WAXlow 2356.

2968

COOD salary offered to keen architectural office in North London fare; must be good draughtsman and have good general experience in a private office. Reply with brief details of experience, age, etc., to Box 2851.

ULALIFIED 'ASSISTANT, with good general experience and ability. Waried practice and interesting work. Telephone Alleyn & Mansel, HOLborn 5311, for appointment.

PILEY & GLANFIELD require one SENIOR. ASSISTANT ARCHITECT for work on Churches. Private Houses, Factories, Shops, Flats, etc. CHA, 7328.

ASSISTANT required by Architect, office N.W. London, wide bractice, qualification essen.

A SSISTANT required by Architect, office N.W. London, wide practice, qualification essential. Apply in writing, giving particulars of qualification, age, experience, and salary required.

A RCHITECTURAL ASSISTANT, Inter.
standard with sound knowledge of construction and detailing for large commercial and industrial buildings, required by Architects in Westminster. Box 2994.

trial buildings, required by Architects in Westminster. Box 2994.

SENIOR and Intermediate standard ARCHITECTURAL ASSISTANTS required in Mid. Essex office. Good draughtsmanship and office experience essential. Interesting and progressive positions. Details to Box 2995.

ARCHITECTURAL ASSISTANT.—Building development company requires the services of an Architectural Assistant. Applicant must be quick and accurate draughtsman, with sound knowledge of modern building techniques. Production of \$\frac{1}{2}\$ in., and \$F.S. working drawings, and ability to apply standardised methods of construction to new buildings. Salary commensurate with experience. Apply Box 2996.

SINGLE ARCHITECTS, with R.I.B.A., two years post graduate experience, effered fare New Zealand under bond, two years employment, large Wellington office. Salary: \$600-8300. Enouiries accompanied by samples of work to: Williment, of 54, Baldry Gardens, S.W.J.6. until June 30 or Haughton Son & Mair, Registered Architects, Lambton Quay, Wellington, N.Z. 2999

REQUIRED for Architects' office, Contral London area, young qualified ASSISTANTS laterested in design and construction. Write, stating experience and salary required. Box 2366.

EXPERIENCED EXPERIENCED qualified ASSISTANT ARCHITECT required to assist in management of large overseas branch office under resident partner in West Indies. Excellent opportunity open for one who has initiative and experience or all branches of the profession. Reply, giving particulars of experience and age, Box 3003.

A RCHITECTURAL ASSISTANTS required immediately, Senior and Intermediate standards, to take charge of preparation of full working drawings for major scnemes and to assist in supervision. Excellent prospects. Holidays allowed this year. Apply in writing to J. Stanley Beard, Bennett & Wilkins, 101/3, Baker Street, W.I. stating age, qualifications, experience, and salary required.

Salary required.

Selving And Junior Architectural silary required immediately in private office in Midlands. Should be quick, accurate draughtsmen with sound knowledge of construction and detailing. Please write stating age, when available, experience and salary required to Box 3050.

ARCHITECTURAL ASSISTANTS required immediately. Should be experienced and good draughtsmen. Salary according to experience. Apply in writing, giving full particulars of qualifications, age, experience, and salary required to Deacon & Laing, 9, 8k. Paul's Square, Bedford.

EXPERIENCED architects' assistant required; general practice, including schools. Apply S. T. Walker, Chartered Architects, 83, Suffolk Street, Birmingham, 1. Salary according to

experience. 3049

RCHITECTS' ASSISTANTS required by a large Chain Store organisation. Commencing salary £600 to £750 per annum, according to experience. Staff canteen. Pension scheme. Write Box AJ 333, LPE, 110, St. Martin's Lane, W.C.2.

A RCHITECTURAL Assistant required immediately, inter-final standard. Interesting and varied work, including schools, hotels, estate development and domestic. Apply stating experience and salary required, to Ruddle & Wilkinson, F./L./A.R.I.B.A., Architects, Long Causeway Chambers, Peterborough. Telephone No. Peterborough 5248/9.

borough \$248/9.

INTERMEDIATE R.I.B.A. Assistants required immediately in busy London Office. London experience essential and previous work on Commercial contracts an advantage. Write stating previous experience and salary required to Box 3045.

ENIOR Assistants with considerable experience of Commercial works in London area required at once. Messrs. Lewis Solomon, Son & Joseph, 21 Bloomsbury Way, W.C.1. Holborn 506/9.

A RCHITECT'S ASSISTANT, of R.I.B.A. Inter-standard, required urgently in West End Achitects' office. Ring Langham 2636 for inter-

Architects' office. Ring Langham 2636 for interview.

December 2006

Experienced Assistant wanted. Skinner, Bailey & Lubetkin, 188, Piccadilly, W.1. 3015

**One Senior and One Junior Architects of Croydon office. Good draughtsmen, previous experience essential. The former at Inter. standard. Full details and salary required. Box 3044.

**Experience Senior Assistant, with first-class constructional ability, required at Welwyn Garden City. Accommodation available. Write, stating experience, salary required to Louis de Soissons. R.A., and Partners, Midland Bank Chambers, Welwyn Garden City.

**Senior Architectural Assistant required by multiple company in London. Full experience of surveys, working drawings, detailing and supervision of jobs. 5-day week. canteen facilities. Permanent and pensionable post. Apply in writing, stating age, qualifications, salary required and experience to Box 2848.

**HIGH WYCOMBE firm of Architects requires ARCHITECTURAL ASSISTANT required applications, salary required and experience to Box 2848.

**HIGH WYCOMBE firm of Architects requires ARCHITECTURAL ASSISTANT required applications asset. Please write to Box 3027, stating age, experience, and salary required.

**Senior Architectural London office. Experience of shops and shopfitting an asset. Please write to Box 3027, stating age, experience, and salary required.

WATES, LTD., invite applications from young school trained A.R.I.B.A.s for a permanent position in their Architect's Department to assist in the design and detailing of housing work of all kinds. Applicants must have completed their National Service. Commencing salary: £550-£550 per annum, according to experience. Applications in writing, stating age, qualifications and experience. to The Architect Wates, Ltd., 1258/60, London Road, Norbury, S.W.16.

ASSISTANT required, aged about 25-30, with prospects for right man for Luton, Beds., office. Small flat available, Write, stating experience, etc., to Box 3031.

ARCHITECTURAL ASSISTANT required,

RCHITECTURAL ASSISTANT required, R.I.B.A. Intermediate standard, in busy office, with interesting varied work. Write, stating salary required, Box 3032.

PARMER & DARK require qualified ARCHI-

PARMER & DARK require qualified ARCHITECT, with contemporary outlook, and 3-5 years' experience. Work mainly industrial and commercial. Apply, giving age, training, experience, present salary, and names of two referees, to Romney House, Tufton Street, S.W.L. 3052.

A RCHITECTURAL ASSISTANT required. Intermediate to final standard. Interesting and varied practice. Salary £500/£600 p.a. Apply in writing with full particulars to E. William Palmer & Partners, Chartered Architects, 8. The 3022.

DAWE, CARTER & PARTNERS immediately require additional Senior and Junior Assistants of R.I.B.A. Final or Intermediate standard. Varied practice which includes schools, churches, factories, commercial and domestic work. Wide scope for obtaining good experience. Opportunity for men with initiative. Write to 33, Clarendon Road, Watford, Herts., or telephone 3023.

A RCHITECTURAL ASSISTANT required in

Watford 7296/7.

ARCHITECTURAL ASSISTANT required in the LC.S. Works Dept., Whitta Road, Manor Park, E.12. Applicants should have reached Intermediate R.I.B.A. Standard, and have had experience in the layout and design of Commercial and Industrial Buildings. The successful candidate will be required to pass a medical examination and, after a short probationary period, to participate in the Society's Staff Pension Scheme (contributory). Commencing salary £527 16s. per annum inclusive. Write Staff Office (AJ), London Co-operative Society, Ltd., 54, Maryland St., Stratford, E.15.

MAJOR OIL COMPANY, undergoing rapid expansion, requires ARCHTTECTURAL ASSISTANT, of Intermediate standard, for its London Head Office. Applicants must be capable of carrying out work on the design and remodelling of Service Stations. Social Club. Generous sickness benefits. Pension and Life Assurance. Luncheon Voucher Scheme. Write, giving full details, stating age, experience, and Box 3029.

Architectural Appointments Wanted

Architectural Appointments wanted

A. B.I.B.A., Dipl. Arch. (45), seeks responsible Architectural post with Industrial or Commercial firm anywhere in U.K. Excellent experience in all phases of work, including quantity surveying and control of staff. Highest testimonials. Box 2993.

S. ENIOR Architect (A), sound business acumen and extensive technical experience all classes of work at home and abroad, own car, requires post, part time or other suitable arrangement, Central or North London. Box 3007.

Other Appointments Vacant

Uther Appointments Vacant line, 2s. The engagement of persons answering these advertisements must be made through a bocal Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a managed 18-64 inclusive or a woman agea 18-59 inclusive unless he or she or the employment, is excepted from the provisions of the Notification of Vacancies Order. 1952.

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

DAINT Manufacturers require additional AGENTS, to call on Architects, etc., to sell full range of Paints at highly competitive prices. Worthwhile commission to enterprising salesmen. State area covered and lines carried. J Johnstone & Sons, Ltd., Paint Manufacturers, High Street, Gorton Manchester. 2804

Bentalus, of Kingston, require Senior EXECUTIVE, under 45, to control and coordinate all Building, Engineering, Equipment and Store Planning sections of their Department Stores. Applicants must have administrative and practical experience of modern planning and methods. Position is a responsible one, offers scope for the right man, and carries progressive remuneration. Superannuation Scheme. Apply in writing to Managing Director, giving full details.

Box 2947.

OFFICE boy wanted in Architect's office, Mayfair, Good conditions, free lunch; good prospects for willing educated youth. Box 3043.

OUANTITY SURVEYOR required, North Midlands. Approaching Final standard or good Junior. Salary £500-£600. Living accommodation available. Apply Box 3024.

ENTIMATOR, experienced in Architectural Metalwork. Good working conditions, including superannuation scheme. Apply, stating age, experience and salary required, etc., to Foundry Manager, H. H. Martyn & Co., Ltd., Sunningend Works. Cheltenham.

Services Offered

1 lines or under, 7s. 6d.; each additional line, 2s DVERTISER has a well established connection with Architects in London and the S.E. and seeks to represent an additional manufacturer whose products are wholly or mainly sold by being specified. Box 2838. RCHInd 3-5 l and experi-ferees, 3052

3052 juired. esting Apply illiam , The 3022. 3022. liately Junior ediate chools, mestic

ience. ite to phone 3023

Road, have, and design The base a proba-ciety's Com-lusive. erative E.15. 3026.

rapid URAL for its apable and rend re-Club. d Life Write, e, and

anted respon-trial or cellent quan-Highest acumen

ce all vn car, rrange-7. ine, 20 these bocal heduled

a man a 18-59 nent, is fication rchites. ditional

to sell prices. lesmen. hastone Street, Senior and conipment artment ive and ng and , offers gressive apply in details.

office, h; good c 3043. North dard

ccommo-

tectural ons, instating etc., to ... Ltd., 3014

line, 2s. connec-the S.E. nanufac-nly sold

London Office able to give assistance to Architects, etc. Gladstone 7355. Box 2997.

COOD LWTTERING IS ESSENTIAL for Commemorative Wall Tablets, Foundation Stones, etc. Layouts and F.S. templates prepared. Retimakes given for the finished work in any material. Renowned as a Lettering Centre since 1944. Sculptured Memorials, 67, Ebury Street, Londea, S.W.1. Tel.: Sloane 6549.

2010

BHTAILED SURVEYS and drawings of sites and buildings, reports, schedule of repairs, etc. Qualified Surveyor. LIV. 1839. 2785

TYPING, efficiently executed, including Thesis, Manuscripts, Specifications, etc. Tel. evenings WORdsworth 4816.

3025

TYPEWRITING, Duplicating, Secretaries Service, 75, Queens Road, Bristol. Tels. Bristol 21318 and 83601 (day and night). All kinds of work undertaken, including Authors' M.S.S., Technical Reports, Specifications, Bills of Quantities, Inventories. Professional staff to advise. All work personally supervised and vetted by Mrs. Norah Howitt before despatch, as she wishes repeat orders.

ARCHITECT, with established practice within Architects, with prospects of introducing work, with a view to partnership.—Apply Box 3033.

For Sale or Wanted
tines or under, 7s. 6d.; each additional line, ts.

ECONDITIONED 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, Keat. Tel.: Erith 2948. 6803

PORTAL type Building in Wolverhampton for Sale, with overall area of 5,000 ft. Building 100 ft. long, 40 ft. wide, with 10 ft. lean-to at one side, making overall length of 50 ft. Please write for full details to Box 3017. CALE.—Stanley Antiquarian size adjustable

write for full details to Box 3017.

SALE.—Stanley Antiquarian size adjustable Drafting Table, with "Rulaline" parallel motion. As new. Offers. Box 2998.

TSTATE DEVELOPEES wish to purchase land residentially zoned. Minimum three single plots (preferably one site). Otherwise unlimited. Near transport and Urban facilities. Industrial or shop schemes entailing such development considered. Any area. South East preferred. Write Solicitors, Box 891. Reynells', 44. Chancery Lane, W.C.2.

SITES WANTED.

BLAGDON INVESTMENTS, LIMITED, have large funds available for the purchase of Sites for the erection of Shops and Offices and other Commercial Buildings. They are also interested in the purchase of Commercial Buildings capable of improvement and further development, Architects who have clients wishing to dispose of such properties are invited to submit particulars.

culars.

If arrangements could be made the Company would wish to retain the services of the architect. Blagdon Investments, Ltd., 106, Regent Street, London, W.1. Telephone: Regent 3786.

Miscellaneous

Miscellaneous

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

J. BINNS, LTD., Specialists in the supply

and fixing of all types of Fencing, Gates
and Closkroom Equipment. Harvest Works.

56/107. St. Paul's Road. N.I. Canonbury 2061.

TOE FULLY GALVANISBD Chain Link

Ralways specify MASTREFOIL made to
B.S.S. 1732. Fencing & Gates, Ltd., fourteen,
Stanhepe Gate, London, W.I. Tel. Grosvener 4867.

Premises To Let

MANDEVILLE PLACE, W.1. Several entire floors each approx 2,200 sq. ft. (also top floor) available in first-class Professional building shortly to be erected. Lift and central heating. For preliminary details apply CHRISTIE & CO. (ref. 17), 7, Baker Street, W.1.

Partnership

A B.I.B.A. (40), with comprehensive technical and administrative experience, seeks partnership in established practice. Preferably N.W. England, North Midlands or North Wales. Car owner. Capital available. Box 3030.

Educational Announcements 4 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./P.B.I.B.A.,
M./.Δ.M.T.P.I. (Prof. Sir Patrick Abercrombie in
assn.), prepare Students by correspondence.
10, Adeladde Street, Strand, W.C.2. Thm. 1663/4.

COURSES for all R.I.B.A. EXAMS.
Postal tuition in History, Testimonies, Design, Calculations, Materials, Construction, Structures, Hygiene, Spocifications, Professional Practice etc. Also in general educational subjects.

Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.
Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.
Phone: KEN 4477

Phone: KEN 4477

ARCHITECTURAL & CONTEMPORARY SIGN LETTERS

IN A VARIETY OF METALS AND FINISHES

WARD & COMPANY 128 CHELTENHAM ROAD, BRISTOL, 6

Telephone: 21536

FIRE! GOOD NEWS FOR USERS OF NU-SWIFT!

> Urgent orders for London and the South can now be placed at the Nu-Swift Fire Protection Centre, 25, Piccadilly, W.1. Call or phone REGent 5724 (3 lines).

NU-SWIFT LTD . ELLAND . YORKS In Every Ship of the Royal Navy

=HEATING=

HOT WATER SUPPLIES AND VENTILATION

for

INDUSTRIAL . COMMERCIAL AND PRIVATE BUILDINGS

CHAS. P. KINNELL

& CO. LTD

65, 65a SOUTHWARK ST. LONDON, S.E.I.

Phone : WAT 4144

FINEST QUALITY BOX METAL LETTERS BUILT ONLY TO ARCHITECTS SPECIFIC REQUIREMENTS AND DRAWINGS

SIGN SERVICE 9 HIGH STREET, ERDINGTON, RIRMINGHAM 22

Phone: ERDington 5234 (2 lines)



VENEERED BOARD

The robust structural material for all types of fabrication.



For renovating existing tables and counters.

WARERTE

PLASTICS are made for the job in a full range of patterns.

Write for your copy of:

"Installing Weserite
Laminated Plastics".

WARERITE LIMITED . WARE . HERTS

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



"ROCKSIL" QUILTS

FOR SOUND AND THERMAL INSULATION of HOUSES, FLATS, PUBLIC BUILDINGS, ETC write for details to:

META-MICA LTD., 50 BLOOMSBURY STREET, LONDON, W.C.I Telephone: MUSeum 6363 Subsidiary of William Kenyon & Sons Ltd., Dunkinfield, Cheshire

Alphabetical Index to Advertisers

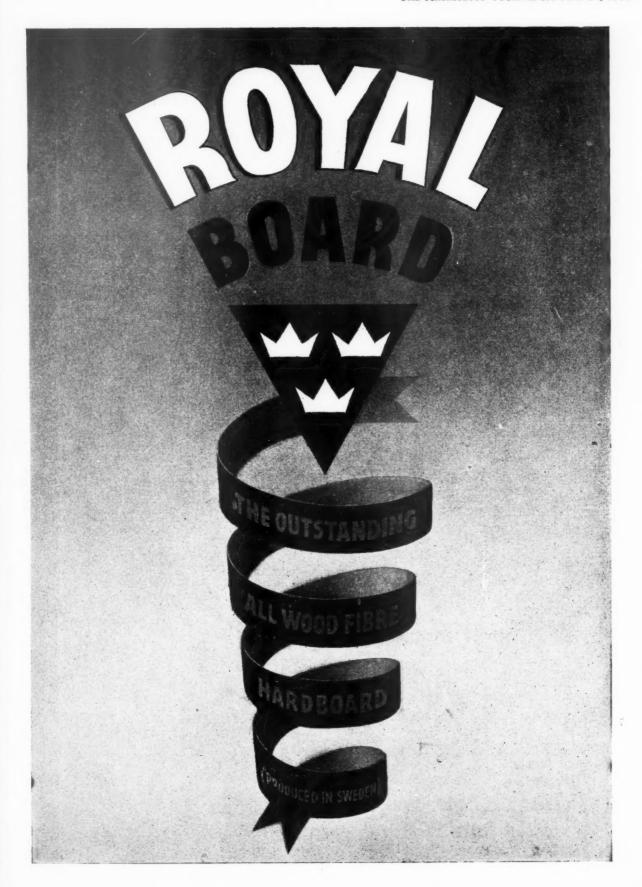
Anderson Construction Co., Ltd.
Anderson, D., & Son, Ltd. xv, xlviii Gas Council, The lyi Phoenix Gallery, The lxxxviii Architectural Press, Ltd., The lxxx kii, lxxxv. Gent & Co., Ltd. 2 Pilkington Bros., Ltd. 2 Pilkington Bros., Ltd. 2 Pressure Piling Co., Ltd. 4 lv Banister, Walton & Co., Ltd. 2 xiv Greenwood's & Airvac Ventilating Co., Quibell & Sons Ixxxviii Batley, Ernest, Ltd. 1 lxxxviii Cypro Products, Ltd. 3 iii Rawlings Brothers, Ltd. iii
Architectural Press, Ltd., The lxxx, lxxxii, lxxxv. Armstrong Cork Co., Ltd. Armstrong Cork Co., Ltd. Banister, Walton & Co., Ltd. Baring Brassware Co., Ltd. Barking Brassware Co., Ltd. Lixxviii Batley, Ernest, Ltd. Sypon Products, Ltd. Gypon Products, Ltd. Gypon Products, Ltd. Gypon Products, Ltd. Gypon Radiation Group Sales, Ltd. Radiation Group Sales, Ltd. Rawlings Brothers, Ltd.
Architectural Press, Ltd., The lxxx, lxxxii, lxxxv. Armstrong Cork Co., Ltd. Armstrong Cork Co., Ltd. Banister, Walton & Co., Ltd. Baring Brassware Co., Ltd. Barking Brassware Co., Ltd. Lixxviii Batley, Ernest, Ltd. Sypon Products, Ltd. Gypon Products, Ltd. Gypon Products, Ltd. Gypon Products, Ltd. Gypon Radiation Group Sales, Ltd. Radiation Group Sales, Ltd. Rawlings Brothers, Ltd.
Armstrong Cork Co., Ltd. Ixxiii Girlings' Ferro-Concrete Co., Ltd. xxv Pressure Piling Co., Ltd. Iv Banister, Walton & Co., Ltd. xiiv Gwenwood's & Airvac Ventilating Co., Barking Brassware Co., Ltd. Ixxxiii Ltd. Ixxxiii Ltd. Iii Radiation Group Sales, Ltd. Iii Radiation Group Sales, Ltd. Iii Radings Brothers, Ltd. Iii
Armstrong Cork Co., Ltd. Ixiii G.W.B. Electric Furnaces, Ltd. xiv Prodorite, Ltd. Quibell & Sons Ixxxvii Barking Brassware Co., Ltd. Ixxvii Ltd. Ixxvii Batley, Ernest, Ltd. Ixxvii Cyproc Products, Ltd. Eawlings Brothers, Ltd. Eawlings Brothers, Ltd. ii
Bankster, Walton & Co., Ltd. xliv Greenwood's & Airvac Ventilating Co., Quibell & Sons lxxxvii Barking Brassware Co., Ltd. lxxviii Batley, Ernest, Ltd. lxxvii Greenwood's & Airvac Ventilating Co., Quibell & Sons lxxxvii Batley, Ernest, Ltd. iii Radiation Group Sales, Ltd. iii Rawlings Brothers, Ltd. iii
Barking Brassware Co., Ltd. lxxxviii Ltd. iii Radiation Group Sales, Ltd. Batley, Ernest, Ltd. Rawlings Brothers, Ltd. Rawlings Brothers, Ltd.
Batley, Ernest, Ltd. lxxxiv Gyproc Products, Ltd. — Rawlings Brothers, Ltd. ii
Batley, Ernest, Ltd
Biddle, F. H., Ltd Hall, Robert, & Co. (Kent), Ltd lxxvi Riley Stoker Co., Ltd xxvi
Bigwood, Joshua, & Son, Ltd. iv Hammer, Geo. M., & Co., Ltd. lxxix Robertson Thain, Ltd. xlvi, lxxxi
Bigwood, Joshua, & Son, Ltd
Blackburn, Thos., & Co., Ltd x Hangers Paints, Ltd Hangers Paints, Ltd lxxvi
Boulton & Paul, Ltd
Bovis, Ltd
Braby, Fredk., & Co., Ltd
Bradford, F., & Co., Ltd. 1 Hill Aldam, E., & Co., Ltd. xxxi Seco, Ltd. xii
Briggs, Wm. & Son. Ltd. xi Hille, S. of London, Ltd. lxxxv Shell-Mex & B.P. Ltd. xxii
British Aluminium Co., Ltd ix Hills, F., & Son, Ltd xxiii Shires, A., & Co., Ltd lxviii
British Insulated Callender's Cables, Ltd. — Hobbs, Hart & Co., Ltd. — S. I. Buildings, Ltd. — lxxxvii
British Mouldex Limited
British Plimber, Ltd. xxxvi Institute of Registered Architects lxxxviii Sign Service xciii
Broad & Co., Ltd. lxxxiii Ioco Rubber Co., Ltd. ii Smith, Thomas, & Son, Ltd. lxxvii
Brunswick Metal Casement & Engi- Kenyon, William & Sons xctii Sommerfeld's, Ltd. xctii
Brunswick Metal Casement & Engi- Kenyon, William & Sons xciii Sommerfeld's, Ltd xciii
neering Co., Ltd
Cape Asbestos Co., Ltd
Catesby's Linoleum Contracts lxxiv Kwikform, Ltd xxxiii Stelcon (Industrial Floors), Ltd
Cellon, Ltd Stent Precast Concrete Co., Ltd lii
Cement Marketing Co., Ltd., The vii London Brick Co., Ltd Storry, Smithson & Co., Ltd. lvi
Clarke Ellard Engineering Co., Ltd. liv Lovell & Hanson, Ltd. lxxxiv Stott, James & Co. (Engineers), Ltd. lxxiii
Colt Ventilation, Ltd McCarthy, M., & Sons, Ltd Stramit Boards, Ltd xxxiv
Concrete, Ltd Mallinson, Wm., & Sons, Ltd Sunley, Bernard & Sons, Ltd xvi
Courtney Pope, Ltd
Crabtree, J. A., & Co., Ltd. xxxv Marley Tile Co., Ltd., The lxiv Teleflex Products, Ltd. xciv
Crane, Ltd. xx Marryat & Scott, Ltd. lxxv Thompson, John (Beacon Windows), Ltd. xlix
Croggan & Co., Ltd. lxxxvii Meta-Mica, Ltd. xciii Thornton, A. G., Ltd. lxxxviii
Cygnet Joinery, Ltd lii Metropolitan-Vickers Electrical Co., Ltd. lxxviii Trussed Concrete Steel Co., Ltd
Docker Brothers xxxii Midland Woodworking Co., Ltd xiii Turner, A., & Son (London Builders'
Doulton & Co., Ltd Mills Scaffold Co., Ltd xevi Merchants), Ltd lix
Dunlop Rubber Co., Ltd Moler Products, Ltd lxxxii Turner, John & Sons (Preston), Ltd
Ebor Concrete, Ltd. lx Morris, M. A., Ltd. lx United Kingdom Provident Institution lx
Econa Modern Products, Ltd Ixxvi Ixxvii Morris Singer Co., Ltd. Venus Pencil Co., Ltd., The
Ellis School of Architecture xciii National Federation of Clay Industries xvii Walker, Crosweller & Co., Ltd lxxxi
Empire Stone Co., Ltd Neuchatel Asphalte Co., Ltd., The Wallis, G. E., & Sons, Ltd
Engravers' Guild, Ltd., The
Etchells, Congdon & Muir, Ltd lxxvii Nu-Swift, Ltd xciii Ward, Thomas, W., Ltd. xxxvii
Evode, Ltd. — Paragon Glazing Co., Ltd. xl Warerite, Ltd. xeiii
Expanded Metal Co., Ltd. Parall, George, & Co., Ltd. v Waring & Gillow, Ltd. 1xxiii
Falk, Stadelmann & Co., Ltd
Ferodo, Ltd. Williams, John & Sons (Cardiff), Ltd.
Fibreglass, Ltd. — Peglers, Ltd. lxii Woolaway Constructions, Ltd. xxix
Finlock Gutters, Ltd. xxx Permanite, Ltd. liii Zinc Development Association lxxi

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous Property, Land and Sales lxxxix, xc, xci, xcii, xciii.



PAGE XIIII IV XXVIII IV XXVIII XXVIII XXXVIII XXXVIII XXXVIII XXXVIII XXVIII XXXVIII XXXIIX XXVIII XXXIIX XXVIII XXXIIX XXVIII XXXIIX XXVIII XXXIIX XXIIX XXVIII XXXIIX XXIIX XXII







Floor Centres

IMMEDIATE DELIVERY
FOR SALE OR HIRE

STRONGER!

The only floor centres with high-tensile chrome molybdenum steel main members—no stiffeners!

SIMPLER!

Lattice-work construction of side members gives greater ease of cleaning and maintenance!

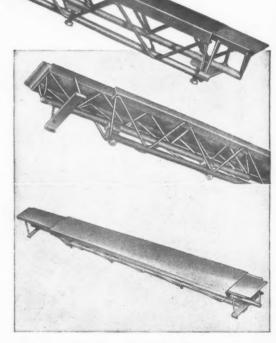
FASTER!

Lighter in weight, easier to handle, quicker to position. Fewer sliding surfaces liable to damage.

SAFER!

Minimum deflection. Provision for support off beams, walls or props, etc.

FOR HOLLOW-TILE OR REINFORCED CONCRETE FLOORS. CAN BE ERECTED BY SEMI-SKILLED OPERATORS.



FOUR SIZES, ADJUSTABLE LENGTH

	LENGTH CLOSED	LENGTH EXTENDED	WEIGHT lbs.
Α	4 ft.	6 ft.	52
В	6 ft.	8 ft.	76
С	8 ft.	II ft.	104
D	10 ft.	15 ft.	131

WRITE FOR ILLUSTRATED FOLDER WITH COMPLETE DETAILS TO MILLS SCAFFOLD CO. LTD., TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6. (RIVerside 5026/9)

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

