

THE ARCHITECTS' JOURNAL

STACK



standard contents

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

NEWS and COMMENT

Diary

News

Architects' Commonplace Book

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

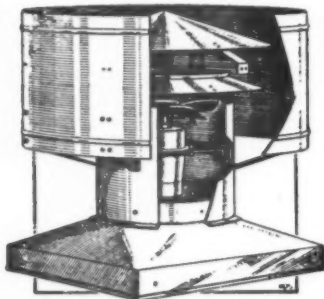
★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ic one week, Ic to Z the next. In all cases where the town is not mentioned the word LONDON is implicit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

IEE	Institution of Electrical Engineers.	Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society.	32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers.	1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers.	75, Eaton Place, S.W.1.	Sloane 3158
IIBD	Incorporated Institute of British Decorators.	Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects.	12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071	Museum 7197
IOB	Institute of Builders.	48, Bedford Square, W.C.1.	Monarch 7391
IR	Institute of Refrigeration.	Empire House, St. Martin's-le-Grand, E.C.1.	Abbey 6172
IRA	Institute of Registered Architects.	47, Victoria Street, S.W.1.	Sloane 7128-29
ISEI	Institution of Structural Engineers.	11, Upper Belgrave Street, S.W.1.	Museum 9200
IWA	Inland Waterways Association.	11, Gower Street, W.C.1.	Whitehall 7264
LIDC	Lead Industries Development Council.	Eagle House, Jermyn Street, S.W.1.	Museum 3891
LMBA	London Master Builders' Association.	47, Bedford Square, W.C.1.	Euston 2158-9
MARS	MARS Group (English Branch of CIAM).	34, Gordon Square, W.C.1.	Whitehall 3400
MOA	Ministry of Agriculture and Fisheries.	55, Whitehall, S.W.1.	Mayfair 9400
MOE	Ministry of Education.	Curzon Street House, Curzon Street, W.1.	Whitehall 4300
MOH	Ministry of Health.	Whitehall, S.W.1.	Whitehall 6200
MOLNS	Ministry of Labour and National Service.	St. James's Square, S.W.1.	Gerrard 6933
MOS	Ministry of Supply.	Shell Mex House, Victoria Embankment, W.C.	Abbey 7711
MOT	Ministry of Transport.	Berkeley Square House, Berkeley Square, W.1.	Whitehall 8411
MOTCP	Ministry of Town and Country Planning.	32-33, St. James's Square, S.W.1.	Reliance 7611
MOW	Ministry of Works.	Lambeth Bridge House, S.E.1.	Abbey 1010
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council.	94, Petty France, S.W.1.	Abbey 5277/8
NAS	National Association of Shopfitters.	9, Victoria Street, S.W.1.	Kensington 8161
NBR	National Buildings Record.	37, Onslow Gardens, S.W.7.	Abbey 5111
NCBMP	National Council of Building Material Producers.	2, Caxton Street, S.W.1.	Whitehall 4041
NFBTE	National Federation of Building Trades Employers.	82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451	Whitehall 2881/2/3
NFHS	National Federation of Housing Societies.	13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council.	82, New Cavendish Street, W.1.	Langham 4041
NPL	National Physical Laboratory.	Head Office, Teddington.	Molesey 1380
NSAS	National Smoke Abatement Society.	Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty.	42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning.	16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association.	94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland.	15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects.	66, Portland Place, W.1.	Langham 5721/7
RICS	Royal Institution of Chartered Surveyors.	12, Great George St., S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission.	22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society.	Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts.	6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute.	90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau.	35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers.	20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR.	14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers.	17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association.	30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association.	14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists.	Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNHTPC	Scottish National Housing & Town Planning Council.	Hon. sec., Robert Pollock, Town Clerk, Rutherglen.	Holborn 2646
SPAB	Society for the Protection of Ancient Buildings.	55, Great Ormond Street, W.C.1.	Temple Bar 5006
TCPA	Town and Country Planning Association.	28, King Street, Covent Garden, W.C.2.	City 4771 (6 lines)
TDA	Timber Development Association.	75, Cannon Street, E.C.4.	Victoria 8815
TPI	Town Planning Institute.	18, Ashley Place, S.W.1.	City 1476
TTF	Timber Trades Federation.	81, Cannon Street, E.C.4.	Mayfair 8866
WDC	War Damage Commission.	Devonshire House, Mayfair Place, Piccadilly, W.1.	City 4263/4
WEDA	Welfare Equipment Development Association.	61, St. Paul's Churchyard, E.C.4.	Oxford 47988
ZDA	Zinc Development Association.	Lincoln House, Turl Street, Oxford.	

No. 2846] [Vol. 110
THE ARCHITECTURAL PRESS
9, 11 and 13, Queen Anne's Gate, Westminster,
S.W.1. Phone: Whitehall 0611

Price 9d.

Registered as a Newspaper.



CUT-AWAY VIEW SHOWING FAN INSTALLATION IN DUAL-PURPOSE "MECHAVENT" NATURAL AND MECHANICAL ROOF VENTILATOR

GREENWOOD-AIRVAC

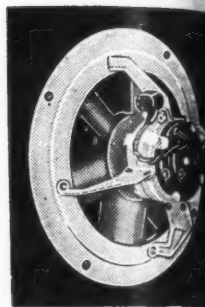
COMPLETE SYSTEMS OF SCIENTIFICALLY BALANCED VENTILATION FOR BUILDINGS

TRUNKED HOODS WITH FANS FOR REMOVING UNWANTED HEAT, FUMES AND STEAM FROM THE KITCHEN EQUIPMENT OF SCHOOLS, HOSPITALS, CANTEENS, RESTAURANTS AND HOTELS

EFFICIENT VENTILATION FOR KITCHENS AND CANTEENS

MECHANICAL AND STATIC EXTRACTORS AND INTAKES FOR ROOFS AND WALLS

FAN UNITS AND VENTILATING EQUIPMENT FOR HOUSING AND INDUSTRY



RING-MOUNTED WALL FAN WITH HOPPA OR AUTOMATIC LOUVRES. A USEFUL EXTRACTOR FAN ASSEMBLY

GREENWOOD'S MULTI-LOUVRED "MAXAIRE" PANELS, "DIFUSEX", AND HIT AND MISS VENTILATORS



FOR CUPBOARDS, DOORS, WALLS, PARTITIONS, CEILINGS, AND FOR FITTING EXTERNALLY

GREENWOOD'S AND AIRVAC VENTILATING COMPANY LIMITED

SPECIALISTS IN THE DESIGN AND MANUFACTURE OF VENTILATORS AND VENTILATING EQUIPMENT

BEACON HOUSE • KINGSWAY • LONDON, W.C.2.

AIRVAC, LONDON

CHANCERY 8135/6/7

THE TWO "MUSTS" IN PROPERTY MAINTENANCE, ROOFS AND WEATHERPROOFING

RITO BITUMINOUS MASTIC

Sealing . . .

Overlaps and enlarged bolt holes.

Open joints and cracks in gutters and valleys.

Joints of Roofing Felt on flat roofs.

Major cracks in concrete and asphalt flats also flashings and fillets at parapet junctions.

Perforated and deteriorated surfaces of corrugated iron and roofing felt.

Joints of pre-cast Wall and Roof Units in concrete; wood cement; aluminium and hardboard.

Junctions between Door and Window frames and rebates.

TECHNICAL

The services of our Building Construction and Maintenance Department in the preparation of specifications, quantities and estimates also those of technical representatives in a consultative capacity on actual sites are available without obligation.

RITOLASTIC BITUMINOUS LIQUID

Priming and waterproofing roof units.

Protecting and naturing roofing felt covering to flat roofs.

Overall waterproofing of concrete flats and revitalisation of asphalt.

Preserving, protecting and waterproofing:—Steel; Wrought Iron; Gutters; Bridges; Pithead gear, etc.

Fixing and overall weatherproofing the roofing felt.

Sandwich Damp-proof membranes to concrete bases.

Overall protection and preservation of corrugated iron and asbestos.

ANDREW MAXWELL

BUILDING CONSTRUCTION AND MAINTENANCE DEPARTMENT,
MAXWELL HOUSE, 6, ST. PAUL'S SQUARE, LIVERPOOL, 3.

Phone: CENTRAL 1783/4/5

Grams: ALKALINE



ING

C

ring

and

g:-
ges;

the

anes

res-
iron

L

r,

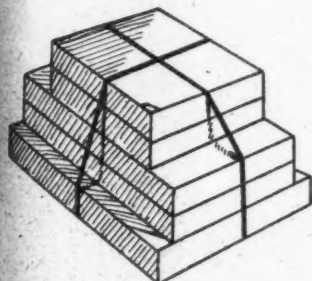
FO
S



STOC
P
FRG
Telep

H

For Efficient Insulation specify **STRAMIT TANK INSULATORS**



AS DELIVERED

EASY TO FIX

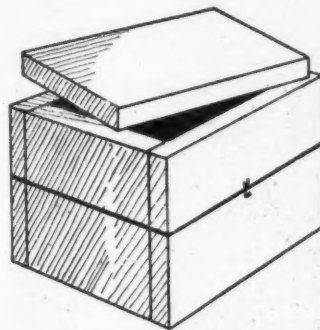
Prefabricated to fit any tank.
Can be erected in under one hour.
No nails necessary.

ECONOMIC TO BUY

Low initial cost.
No waste.

EFFECTIVE TO USE

K Value 0.60—equivalent to 24" brick.
Reduces possibility of freezing to minimum.



AS FIXED

STOCKED AND DISTRIBUTED BY:

PHOENIX TIMBER CO. LTD

FROG ISLAND, RAINHAM, ESSEX

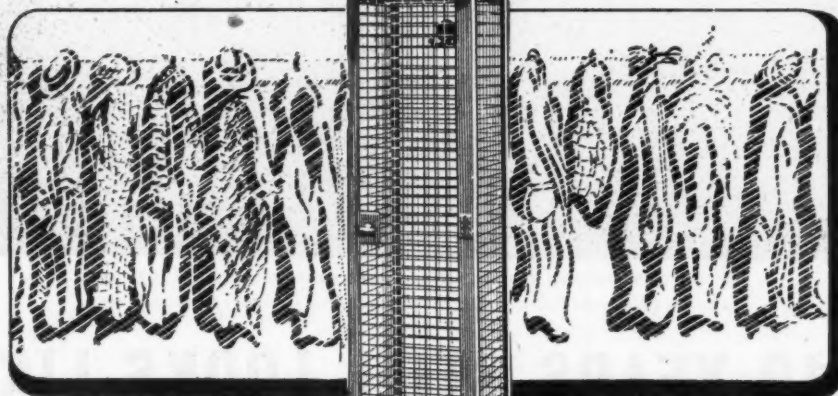
Telephone: Rainham 3311

88, QUEEN VICTORIA ST., E.C.4

Telephone: CENTral 6976

Yours the problem—

Harveys the answer!



Whenever it is a question as to "Where to get" Wire Work of every description, and for all purposes—remember Harveys. Their "Harco" products are especially designed for use in Factories and Schools.

Amongst the many "Harco" products made, especial attention is drawn to Lockers, Cloak-room Fittings, Partitions, Lift Enclosures, Radiator and Pipe Covers, Machinery and Belt Guards.

Send for Catalogue . . . AJ.725

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



The walls and counters of this Lyons' teashop were surfaced in 1938 with WARERITE Veneered Board in a colour scheme of pink. Designer: Raymond Loewy.

W.L.

AFTER 10 YEARS STILL LOOKS LIKE THIS

WARERITE Laminated Plastics combine beauty of finish with a remarkably hard-wearing surface that means long life and low maintenance costs. They can be cleaned with a damp cloth and are available in a wide range of colours and finishes. Write for samples.

WARERITE

TRADE MARK

LAMINATED PLASTICS

MADE BY WARERITE LTD., WARE, HERTS • Unit of Bakelite Ltd

Manufacturers of Decorative Laminates for 20 years

Lords Cricket Ground

Sanitary equipment by FINCH for The Marylebone Cricket Club. Installation by the Marylebone Cricket Club maintenance staff under direction of Mr. G. C. Valentine, Clerk of Works.



The Finch Organization are proud to illustrate an important recently completed contract for the Gentlemen's Public Convenience at the North Gate of Lords Cricket Ground. Our photograph of the installation, which consists of 69 stalls, provides yet another example of the many outstanding contracts for which the Finch Organization are undertaking the supply of sanitary equipment.



FINCH EQUIPMENT ALWAYS ON VIEW

The Finch Showrooms at Finch Corner, Eastern Avenue (Southend Road) Ilford, provide ideal conditions under which comprehensive stocks may be inspected. You will find there *every* type of equipment of interest to Architects, Builders and Public Authorities. Make a point of calling. The showrooms are quite easy to reach, any of the following services will take you to the doorstep:—Buses 66 and 139; Trolleybus 691; Gants Hill or Newbury Park Tube Stations (Central London Line).

If you prefer it, get in touch with Mr. Thrower, Manager, Finch Sanitary Division, on Ext. 30. He is ready to give you every personal attention.

**B. FINCH & CO. LTD., BELVEDERE WORKS, BARKINGSIDE,
ESSEX. VAL. 8888**
SHOWROOMS AT FINCH CORNER, EASTERN AVENUE
(Southend Road), ILFORD, ESSEX
SHOWROOM HOURS: Mon. to Fri. 9 a.m. to 5.30 p.m. Sat. 9 a.m. to 12 noon.

DAILY EXPRESS BUILDING
Fleet Street, E.C.4
ARCHITECTS
Messrs. Herbert O. Ellis & Clarke, F.F.R.I.B.A.
CONSULTING ENGINEER
Sir E. Owen Williams, K.B.E.



TODAY'S difficulties may prevent you designing such an outstanding structure as the Daily Express Building in Fleet Street... but at least you can still specify the same

J.&P. CABLES



J. & P. ARE FOUNDATION MEMBERS OF THE C.M.A.

JOHNSON & PHILLIPS LTD., LONDON, S.E.7

ELECTRICAL ENGINEERS AND CABLE MAKERS SINCE 1875

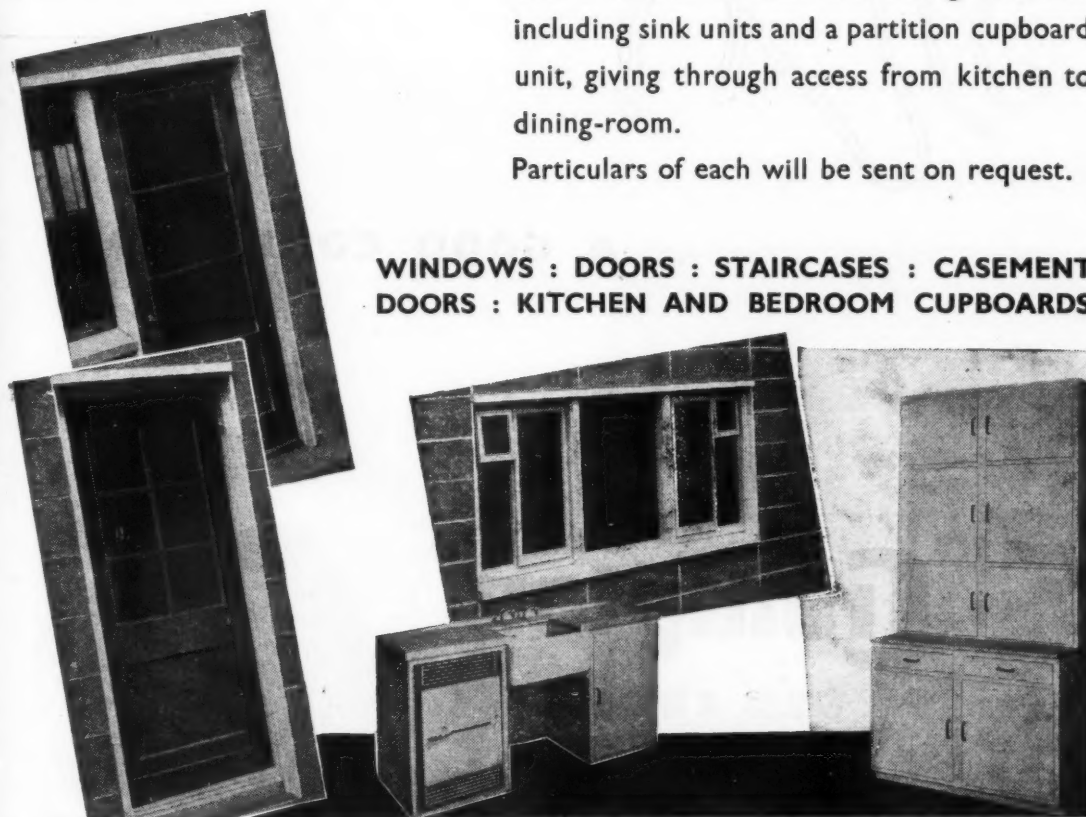


Joinery

The joinery for many of the new permanent houses has been designed and made by us. These contain several interesting features, including sink units and a partition cupboard unit, giving through access from kitchen to dining-room.

Particulars of each will be sent on request.

**WINDOWS : DOORS : STAIRCASES : CASEMENT
DOORS : KITCHEN AND BEDROOM CUPBOARDS**

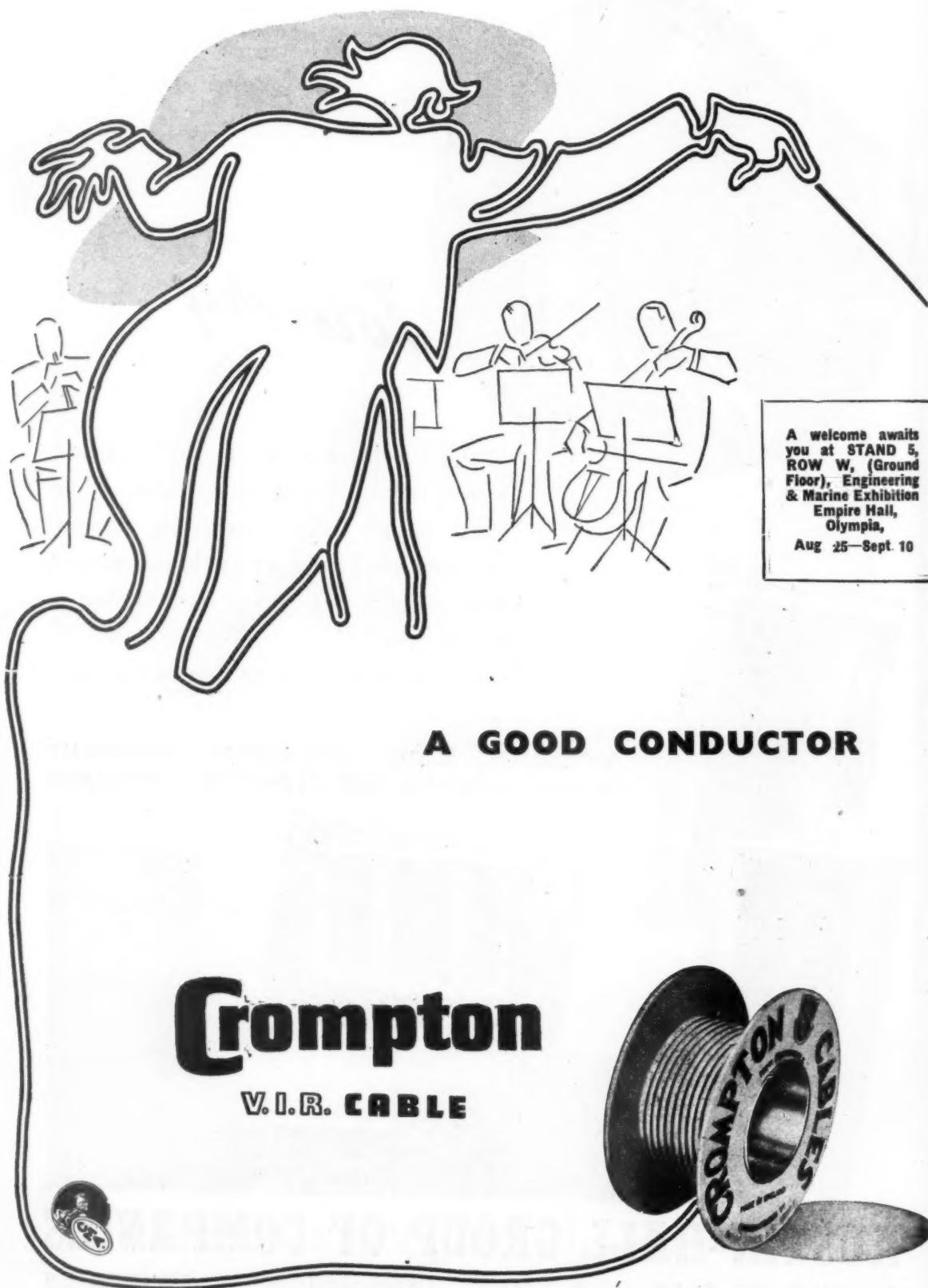


AUSTIN-HALL GROUP OF COMPANIES

AUSTINS OF EAST HAM LTD.

GRAngewood 3444

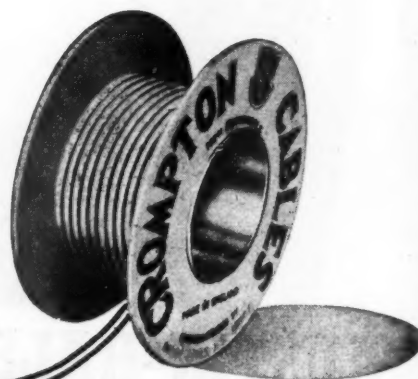
LONDON E.6



A welcome awaits
you at STAND 5,
ROW W, (Ground
Floor), Engineering
& Marine Exhibition
Empire Hall,
Olympia,
Aug 25—Sept. 10

A GOOD CONDUCTOR

Crompton
V.I.R. CABLE



CROMPTON PARKINSON LIMITED, CROMPTON HOUSE, ALDWYCH, LONDON, W.C.2
Telephone: CHAncery 3333

Telegrams: Crompark, Estrand, London

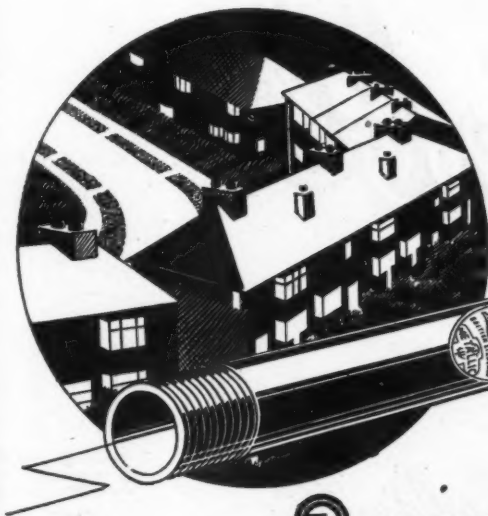


All the newest technical improvements available to contractors will make this new estate a worthy contribution to the housing problem. It will make big demands on electrical services for its many domestic needs. So, METALLIC conduits will assuredly be specified—chosen for its unfailing reliability, meticulous accuracy and simplicity of assembly. METALLIC is processed from laboratory-tested flawless metal—

The SAFE conduit for SAFE conduct

METALLIC

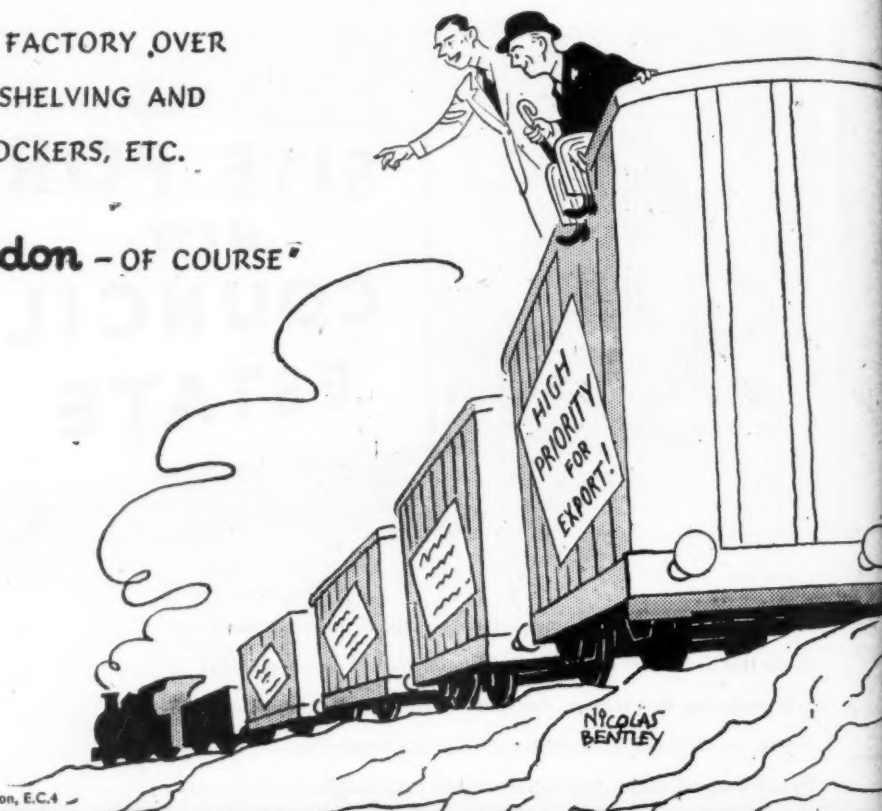
**CONDUIT TUBE
AND FITTINGS**



COMPANY

THE METALLIC SEAMLESS TUBE CO. LTD.,
LUDGATE HILL, BIRMINGHAM. TEL.: CEN. 7167.
Also at London, Newcastle-on-Tyne,
Leeds, Swansea and Glasgow.

"THAT'S OUR NEW FACTORY OVER
THERE - ALL THE SHELVING AND
STORAGE BINS, LOCKERS, ETC.
ARE STEEL - BY
Sankey-Sheldon - OF COURSE"



Sankey-Sheldon Limited, 46 Cannon St., London, E.C.4

SPECIFIED &
APPROVED

FLOORING,
ROOFING, TANKING &
DAMPCOURSING, ETC.

INDUSTRIAL
COMMERCIAL

SCHOLASTIC
DOMESTIC



WORKS:
WINDSOR WHARF
BERKSHIRE STREET
HACKNEY, E.

Durable Asphalt Co. Ltd.

KIMBERLEY HOUSE
14/17 HOLBORN
VIADUCT, E.C.1

Phone:
CITY 1456/7, 4553, 6271

&
C.

38

6271



Aluminium

We manufacture a complete range of rain-water goods, including gutters, down-pipes, fittings and brackets, to all the British Standard sizes.

Being made of heavy gauge WROUGHT ALUMINIUM alloy, they are strong and rigid; with the following advantages:

UNBREAKABLE IN HANDLING AND ERECTION.

STAND UP TO GALES AND HEAVY SNOWFALL.

DO NOT PRODUCE STAINS.

PAINTING NOT NECESSARY.

IF PAINTED FOR DECORATION, PAINT LASTS LONGER.

THE SAME SELF-PROTECTING METAL ALL THROUGH.

We also manufacture wrought aluminium alloy industrial valley and boundary wall gutters, roofing sheets, flat or corrugated (standard and various), with all accessories.

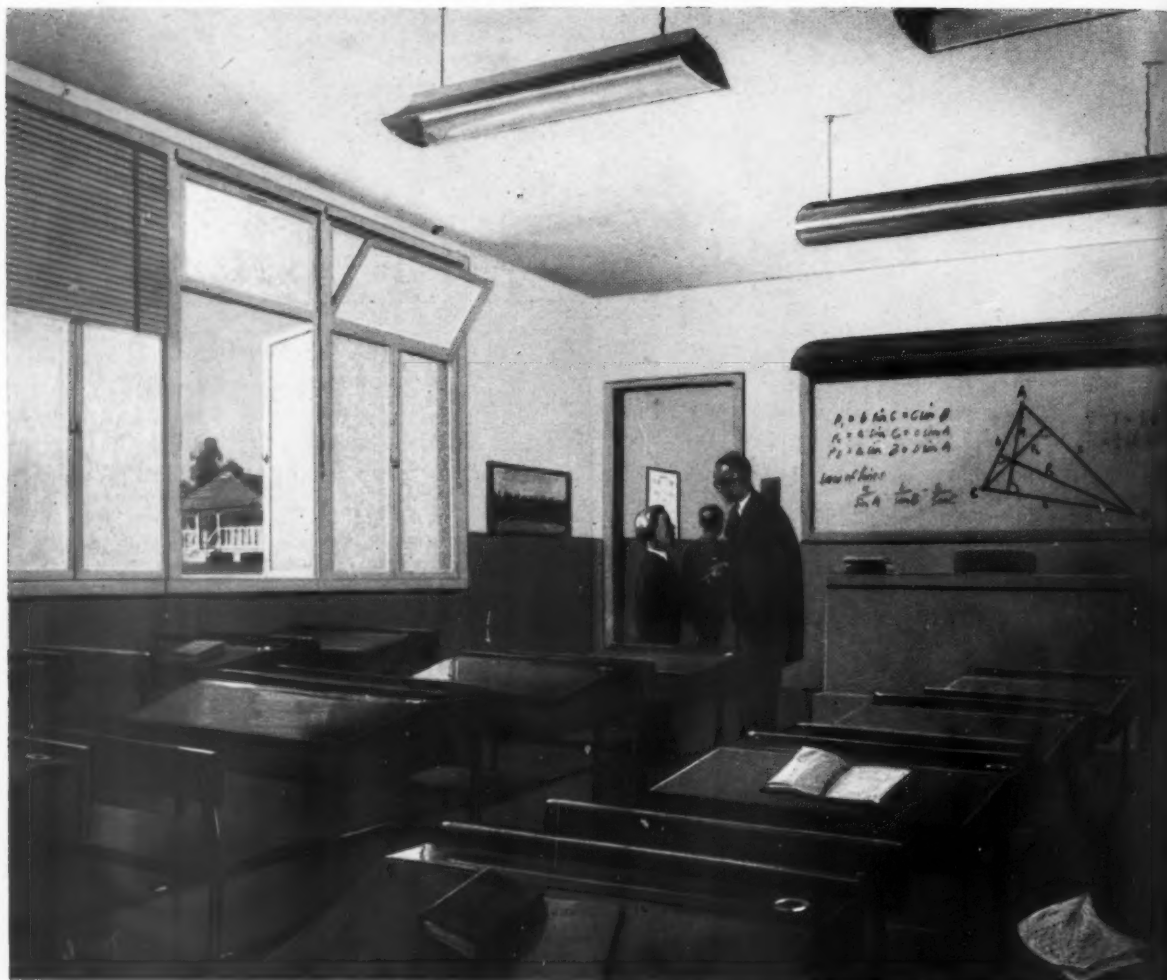
All these products are highly resistant to town, marine and industrial atmospheres, and are suitable for all climates.

REDUCED PRICES

WERN WORKS, BRITON FERRY, NEATH, GLAM.

Telephone: Briton Ferry 3211

*Richard Thomas
& Baldwins Ltd.*



The need for 'Dulux' is nowhere greater than in the nation's schools. The wide 'Dulux' colour range makes it possible to devise the types of decorative schemes that will stimulate young minds.

'Dulux' finish is proof against the knockabout usage of the schoolroom and is easily cleaned of finger marks. The free-flowing properties of this unique finish produce a smooth, hard surface which gives little encouragement to dust or germs.

'Dulux' is made by Imperial Chemical Industries Limited, who will gladly advise on colour schemes on application.

For further information apply to the nearest I.C.I. Sales Office.

IMPERIAL CHEMICAL INDUSTRIES LIMITED
PAINTS DIVISION



DD.799



Tygan

FOR INDOOR COMFORT OUTDOORS!



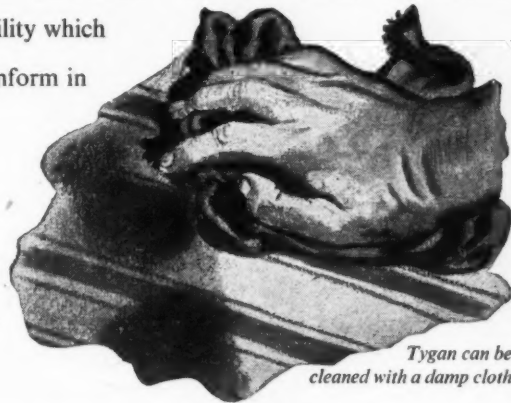
Tygan, the well-known woven synthetic fabric, has such remarkable weathering properties that it can be safely used outdoors. Rain or moisture will not rot or weaken it, and because its water absorption is negligible it is never damp. Sunshine also has no harmful effect on Tygan which is fast to light.

Where wear is exceptionally heavy Tygan is the ideal upholstery material. Its resilience, toughness and abrasion resistance are outstanding.

Tygan is available in a wide range of attractive colours and designs. It upholsters well, and because

it can easily be cleaned by sponging, it keeps its smart appearance.

Tygan is produced by Fothergill & Harvey Ltd. This is an assurance of the highest attainable quality and serviceability which conform in



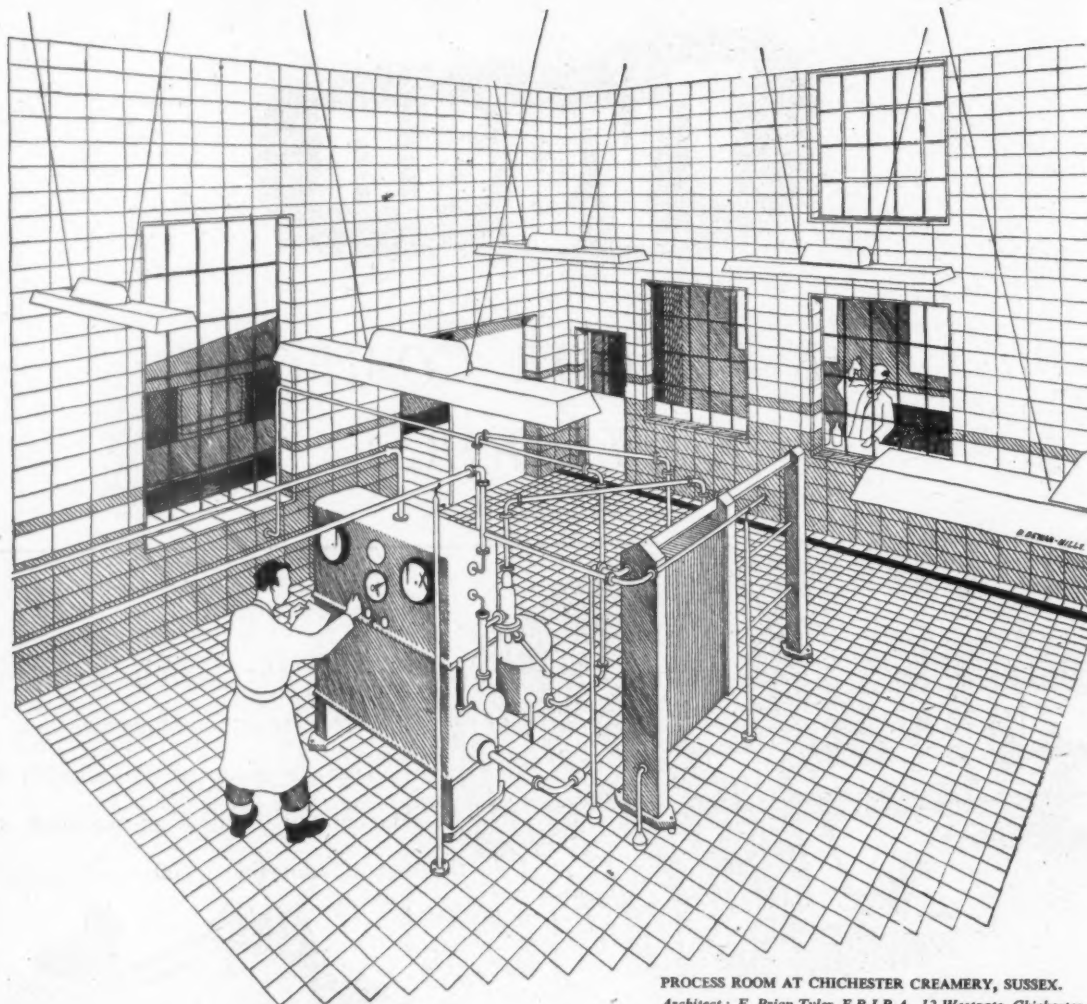
Tygan can be cleaned with a damp cloth

every respect to the best standards of Lancashire woven productions.

Tygan is woven exclusively by Fothergill & Harvey Ltd. from BEXAN, a synthetic yarn developed by B.X. Plastics Ltd.



Write for illustrated folder with patterns, quoting reference B.A. 16 to FOTHERGILL & HARVEY LTD., Harvester House, Peter Street, Manchester 2



PROCESS ROOM AT CHICHESTER CREAMERY, SUSSEX.

Architect: E. Brian Tyler, F.R.I.B.A., 12 Westgate, Chichester

Contractors: Chapman, Lowry & Puttick, Haslemere, Surrey.

Industrial Tiling by

CARTER

Where a very high standard of hygiene is required in a production process, particular forms of Carter tiling are often the most satisfactory solution. In many industrial processes large or small tanks, vats, channels or ducts constructed of Carter tiles, have found widespread application. In the Chichester Creamery illustrated above, plain 12"×8" wall tiles and 6"×6" floor tiles, with standard fittings for the cove skirtings, have been used. The colour scheme is cream with a jade green dado. Good appearance and pleasant working surroundings are thus combined with the hygienic conditions essential to the process.

CARTER & CO. LIMITED · POOLE AND LONDON

Here is a beautifully proportioned gas radiator, free-standing and portable, light yet robust—ideal for occasional heating of nurseries, playrooms, small flats, halls, landings.

Attractively finished in pearl-blue or coinage bronze, the top louvre and door chromium plated; internal baffle vitreous enamelled to prevent corrosion. Luminous jets give a cheerful glow: the door has a concealed self-closing hinge. The 4008 projects heat forward and upward, reducing the risk of wall discoloration.

Gas consumption, 10 cu. ft. per hour; Dimensions, height 21 in., width 12½ in., depth 5 in., weight 15 lb.

Distributed through Gas Undertakings and Wholesale Merchants

HARPER

No 4008
Convector
GAS
RADIATOR



**HARPER
HOUSEWARES**

JOHN HARPER & COMPANY LTD • ALBION WORKS • WILLENHALL • STAFFS
LONDON OFFICE • CHANDOS HOUSE, BUCKINGHAM GATE, S.W.1 'Phone: ABBey 3184

Cramming isn't *only* mental



Old fashioned and inadequate accommodation is one of the educationist's biggest headaches, and many teachers know to their cost that cramming is frequently physical as well as mental. Kingfisher School Equipment, for all types of educational establishment, is strong, light, easy to handle and economical in storage space, and is in keeping with the most progressive ideas in education today.

FOR THE NEW
EDUCATION



Kingfisher

TUBULAR STEEL NESTING CHAIRS



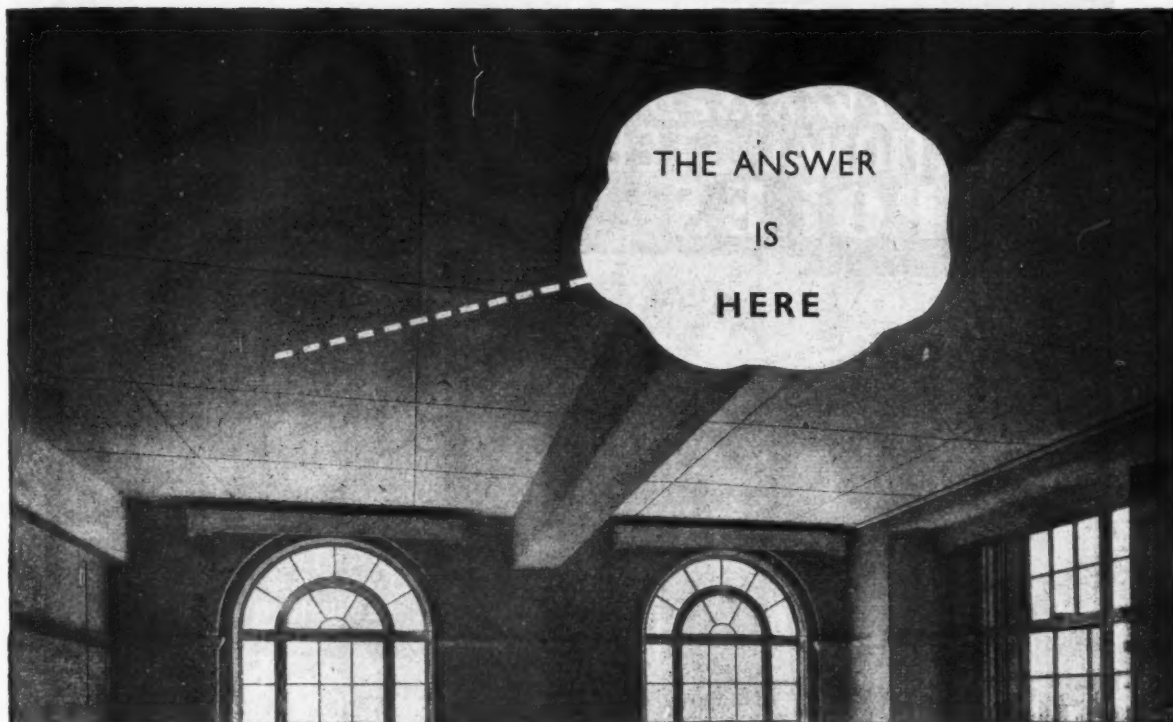
KINGFISHER LTD., CHARLES ST. & PHOENIX ST., WEST BROMWICH, STAFFS.

Telephone: Tipton 1631

Telegrams: Kingfisher, Phone, West Bromwich

LONDON: 139, KNIGHTSBRIDGE, S.W.1.

TELEPHONE: KENSINGTON 1331



SECRET FIXING METHOD

Patent Pending

ANDERSON CONSTRUCTION CO. LTD.

CLIFTON HOUSE, EUSTON ROAD
LONDON, N.W.1

Opposite St. Pancras Station

Telephone: EU5ton 7465

CONTRACTING AGENTS:

BIRMINGHAM—Rudders & Paynes Ltd., Aston.

CARDIFF—John Bland & Co. Ltd., East Moors.

MANCHESTER—Beaumonts (Manchester) Ltd., Victoria Park.

SCOTLAND & N.E. ENGLAND—W. Gibson & Co. Ltd., St. James' St., Paisley.

SOUTHAMPTON—Jenkins & Sons, The Hundreds, Romsey, Hants.

A problem which has exercised the minds of many Architects has at last been satisfactorily solved.

SUSPENDED CEILINGS

of insulation board can now be fixed without *visible* means of support.

The AnD Secret Fixing Method—alternative to the well-known AnD Wedge Method—enables the boards to butt and completely obscure the supporting flanges. The panels are chamfered, producing an unobtrusive and pleasing pattern, which can be varied to individual requirements. The fixing to the boards is positive, yet there is adequate allowance for expansion and contraction, thus eliminating buckling.

Developed after considerable research and experimental work, the AnD Secret Fixing Method is both practical and economical. AnD Service embraces consultation and expert advice, planning of installations, submission of layout drawings, and skilled fixing by experienced craftsmen. You are invited to discuss your thermal insulation and suspended ceiling problems with an AnD Technical Representative, or with the nearest AnD Contracting Agent.

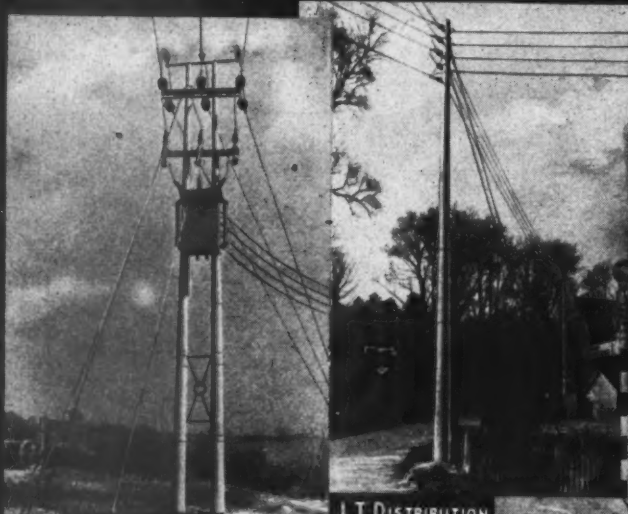
ALTERNATIVE
TO



Patent No. 519406

★ ADASTRA ★

GALVANISED SECTIONAL STEEL POLES



6.6 KV. OVERHEAD LINE
TRANSFORMER STRUCTURE

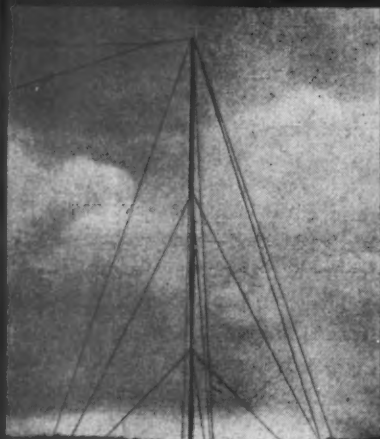
L.T. DISTRIBUTION
STAYED JUNCTION
POLE



★ ADASTRA ★ CIRCULAR
LIGHTING COLUMNS
25ft. MOUNTING HEIGHT



★ ADASTRA ★ HEXAGONAL LIGHTING COLUMNS
15ft. MOUNTING HEIGHT



78ft. RADIO MAST
LIGHT TYPE

OVERHEAD LINE POLES

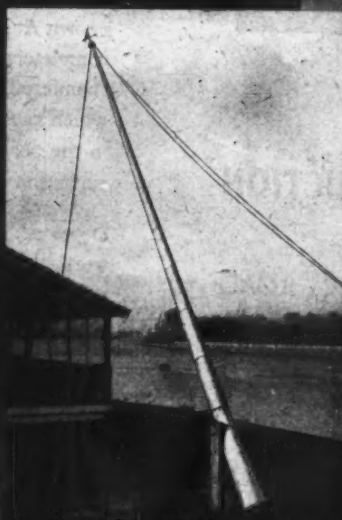
Catalogue AJ/1110.

STREET LIGHTING COLUMNS, FLAGSTAFFS, COUNTER- BALANCED POLES, ETC.

Catalogue AJ/240.

RADIO MASTS

Catalogue AJ/330.



COUNTER-BALANCED POLE



FLAGSTAFF

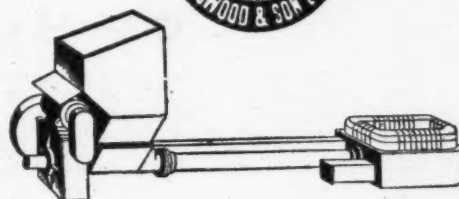
POLES LTD TYBURN ROAD
BIRMINGHAM 24



NO HIT OR MISS WITH UNICALOR

Chance doesn't come into the picture with a Bigwood Unicalor Stoker—exactly pre-determined proportions of fuel and air are automatically varied and fed for every new demand, however this may fluctuate. The result is uniform firing leading to economical, smokeless combustion and maintenance of constant temperature or steam pressure in the fired furnace or boiler.

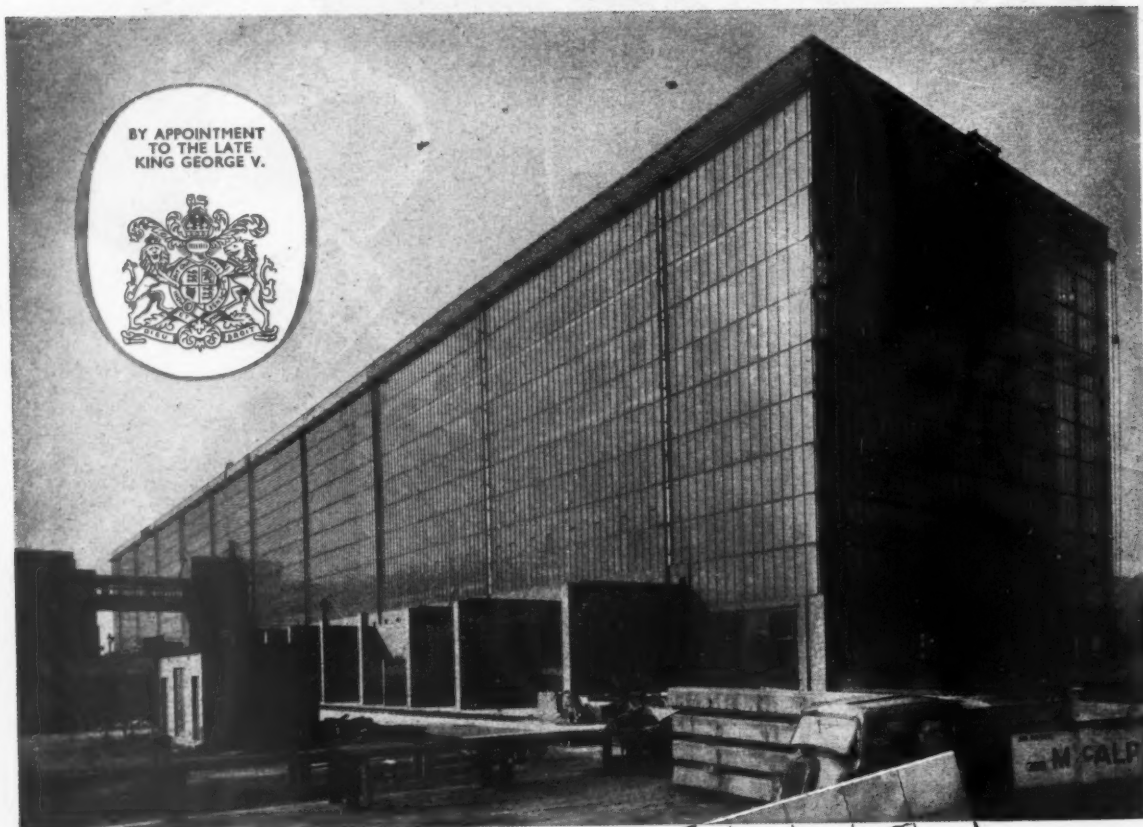
**JOSHUA BIGWOOD & SON LIMITED
WOLVERHAMPTON**



BIGWOOD

UNICALOR

COAL STOKERS



Power Station, Dunston-on-Tyne

PATENT *Glazing*

BY **Heywood's**
OF HUDDERSFIELD

Visualise some of the very largest and most intricate Patent Glazing jobs; and again many of the smallest, no less skilfully dealt with. In either case Heywoods have probably had a hand in it, bringing their 60 years' experience (which means helpful co-operation, efficiency, completion on time) onto the site. This first-class Service . . . is at YOUR disposal—NOW! The installation of new machinery has now made it possible to offer immediate service on all contracts.

W. H. HEYWOOD & CO. LTD., HUDDERSFIELD Telephone: 1254 (3 lines)

Branches at LONDON: 54, Victoria Street, Westminster, S.W.1

MANCHESTER: 19, Old Millgate.

NEWCASTLE-UPON-TYNE: 57, Cathedral Buildings.

BELFAST: E. H. Pearce & Sons, Ltd., 29-33, Laganview Street.

AND LEICESTER, COVENTRY, LIVERPOOL, BIRMINGHAM, GLASGOW and EDINBURGH.

n.d.h.

HIGGS AND HILL
LIMITED

LONDON

LEEDS

COVENTRY

**BPB
GYPSUM**

PROVIDES
THE
MEDIUM

"PARAMOUNT"

FIREPROOF
PLASTER WALLBOARD

"THISTLE"

PLASTER BASE BOARD

"THISTLE"

PLASTER LATH

"THISTLE"

GYPSUM PLASTERS

"PARASTRIP"

PLASTER BOARD FURRING

"PARACLIP"

SYSTEM OF ROOF AND
WALL INSULATION

"PARAMOUNT"

TWO-INCH SOLID PARTITION

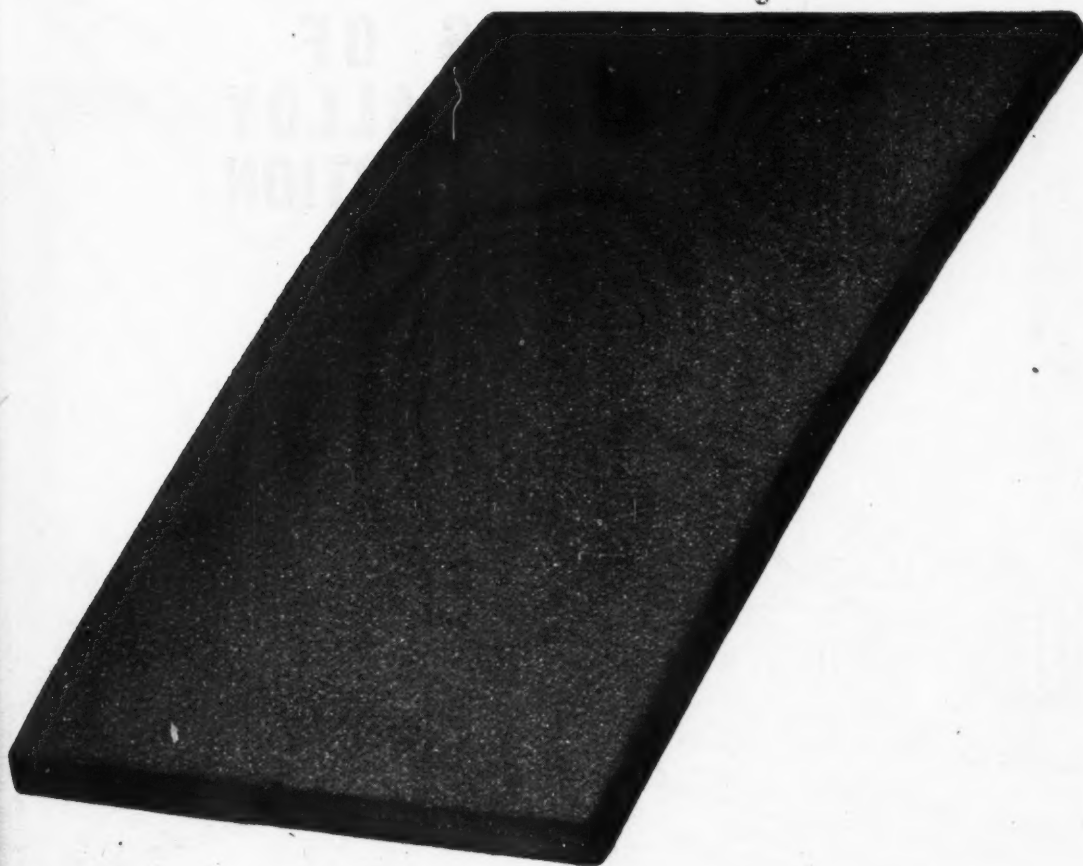
THE BRITISH PLASTER BOARD LIMITED

MORRIS HOUSE · 1/5 JERMYN STREET · LONDON · S.W.1

AND

WALLASEY · CHESHIRE

WRITE FOR NEW LITERATURE



Permanently coloured granules . . .
manufactured by the Marley Tile Company
are now used for surfacing all Marley Roofing Tiles

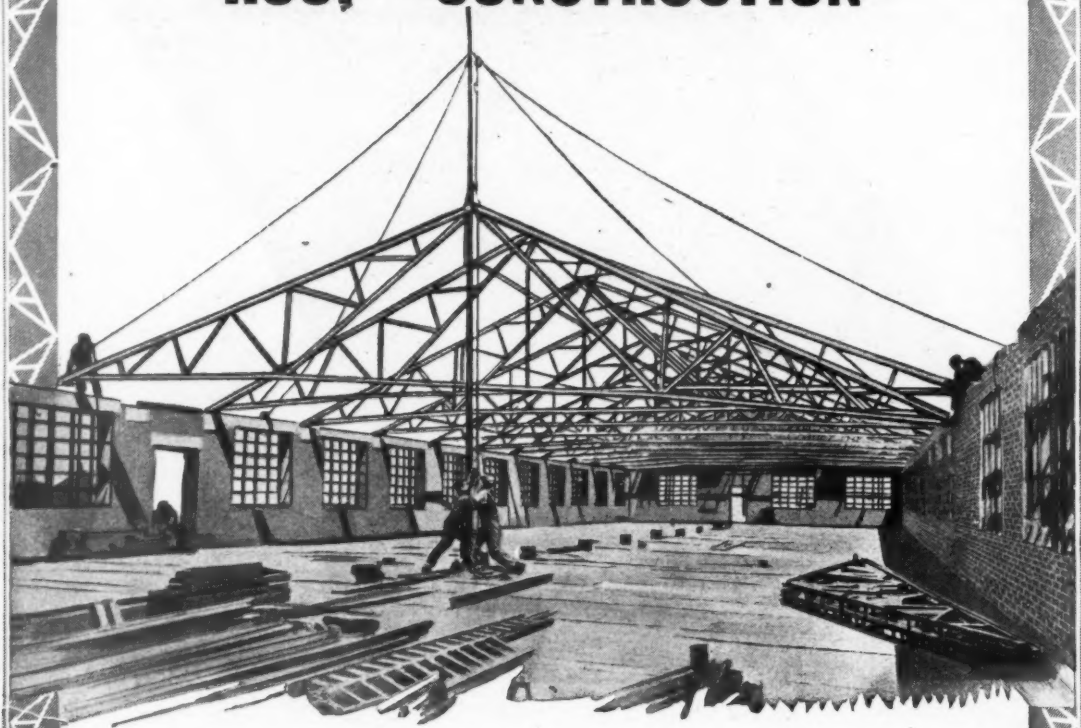
Marley Granules not only give a permanent colour but also a distinctive texture which assists the tiles to weather. With this process a range of blended coloured tiles is available in addition to the standard range of colours. *Rub or wash a Marley tile and note the absence of free colour.* The specification of **MARLEY TILES** for all roofs ensures tiles which are strong and dense—plus permanence of colour.



THE MARLEY TILE COMPANY LIMITED · SEVENOAKS · KENT

M.T.26

PIONEERS OF ALUMINIUM ALLOY ROOF CONSTRUCTION



S·M·D

STRUCTURAL & MECHANICAL DEVELOPMENT ENGINEERS LTD

BUCKINGHAM AVENUE, SLOUGH, BUCKS, ENGLAND Telephone SLOUGH 23212

IN ASSOCIATION WITH **ALMIN LIMITED** FARNHAM ROYAL-BUCKS

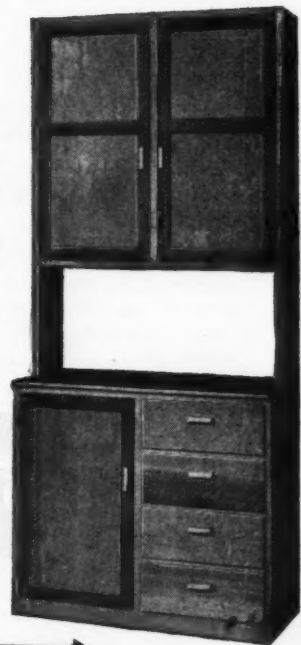
Our illustration shows a 53 ft. span truss being erected by hand
PLEASE WRITE FOR THE NEW ROOF CONSTRUCTION BROCHURE



Here's a fine storehouse for
a proud housewife. Made of seasoned
timber, finely machined, it's just one of the standard
joinery products we make in large numbers. Others are: doors, gates,
window frames, cupboards, staircases and kitchen fittings. We deliver
these from stock to your site—and we don't keep you waiting.

Midland Woodworking

Standard Joinery where you want it, when you want it



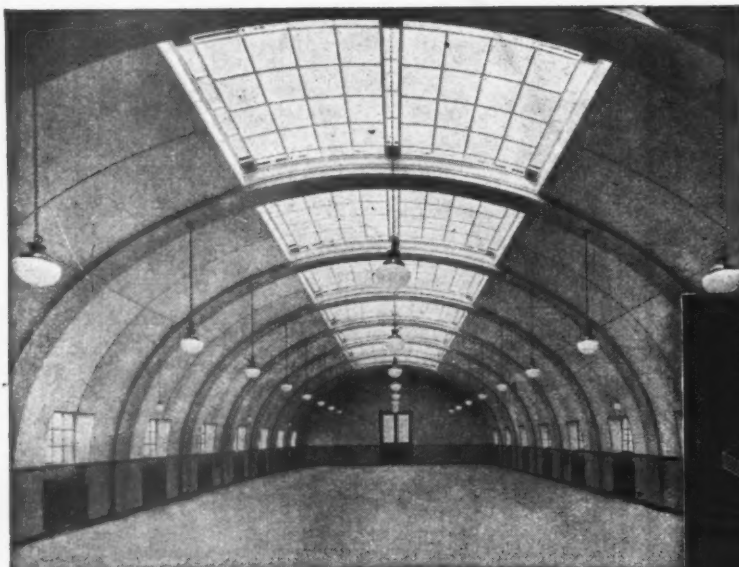
THE MIDLAND WOODWORKING COMPANY LIMITED * MELTON MOWBRAY *

CBC 6

Suspended Ceilings by SPECIALISED CONSTRUCTION

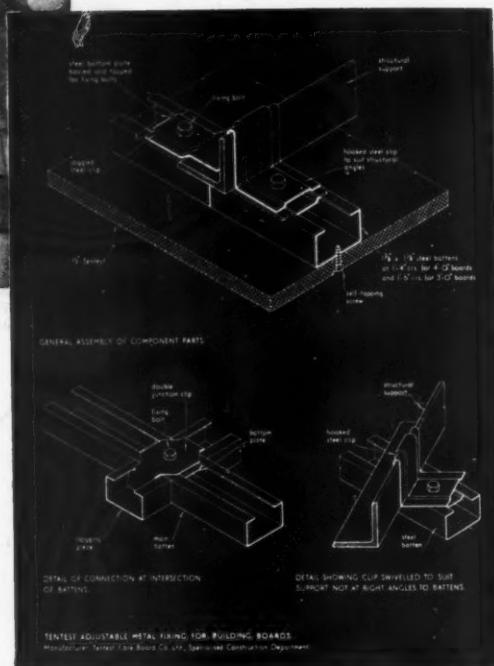
When you entrust a contract for insulating linings or suspended ceilings to our Specialised Construction Department, you ensure a good job at a reasonable price and with a name you can trust behind it. All of our methods of fixing are fully tested for structural sound-

ness and, as the originators and pioneers of metal-to-metal fixing for building boards, our experience in finding the best answer to your lining problems is unrivalled.



We illustrate a curved TenTest lining fixed by our Specialised Construction Department with TenTest Adjustable Metal Fixing. The skill and experience which made this job so successful are at your service for designing and fixing flat or curved ceilings or linings to schools, factories, offices and steel framed buildings of all kinds. Your enquiries will be welcome.

Our book "STRUCTURAL INSULATION" has been reprinted and copies are now available on request to architects and students dealing with the increasingly important subject of thermal insulation of buildings.

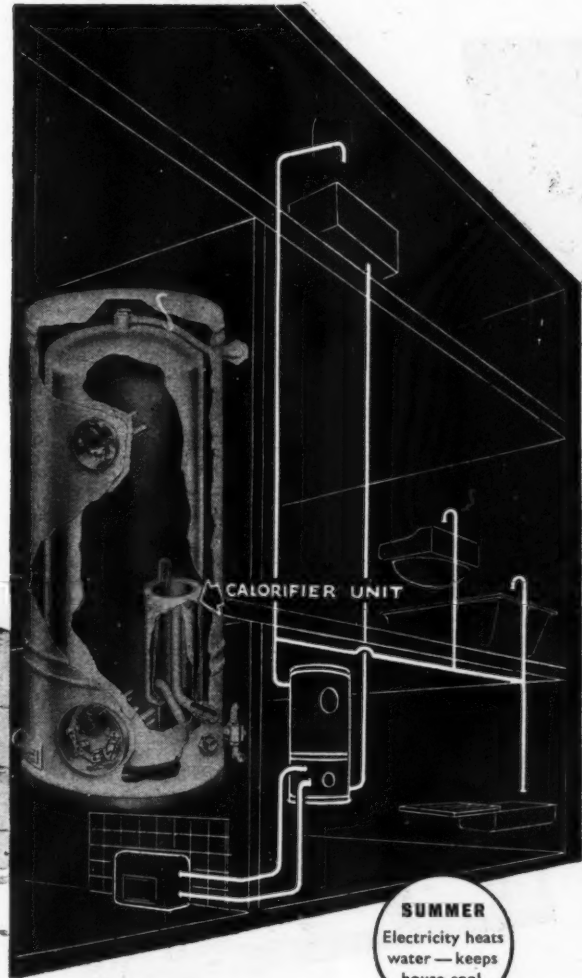
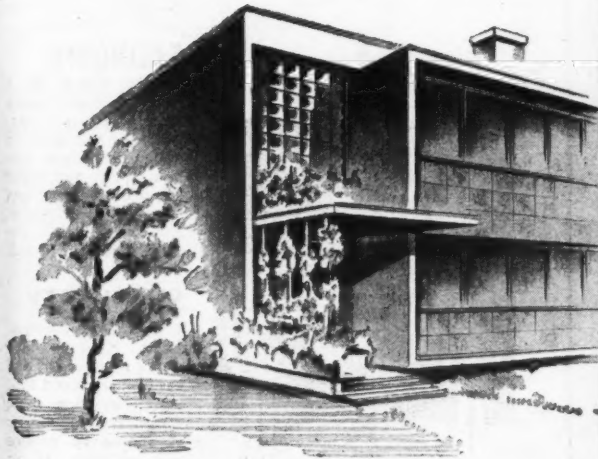


This fixing system is applicable to flat or curved work and provides a clear surface, no steelwork being visible when the lining is in position. Individual boards can be removed or replaced without disturbing the rest of the lining. Span with $\frac{1}{2}$ in. Ten-TesT up to 8 ft. 3 in. between supports. Copies of the Information Sheet, which has just been revised and re-issued, free on request.

TENTEST FIBRE BOARD CO. LTD., 75, Crescent West, Hadley Wood, Barnet, Herts.
Telephone: BARnet 5501 (5 lines) Telegrams: Fiboard, Norphone, London.

This coal-electric SADIA

boosts the efficiency of solid fuel boilers



SUMMER
Electricity heats
water — keeps
house cool.

WINTER
Coal heats the
water — saving
electricity.

One winter's fuel saving repays its extra cost

THE TYPE C.E.L. SADIA is the first apparatus designed to be really efficient both as an electric water heater and as a storage tank for a fuel-fired boiler. The arrangement of the flow and return connections and the thick cork insulation of the hot water container have been carefully planned to reduce heat losses to a minimum, resulting in a considerable saving of fuel.

In winter, the efficient lagging enables the solid fuel boiler to provide all the hot water needed, and electricity is automatically cut off while the boiler is alight. *In summer*, when electricity is plentiful, no solid fuel is used and the house remains cool. An Internal Calorifier prevents scale

forming in the solid fuel boiler in hard water districts. It is self-filling and self-venting — separate cold water feeds, vent pipes and header tanks are not required.

Because the type C.E.L. Sadia is a self-contained, factory produced unit, it can be installed on site with a minimum of labour, merely taking the place of the old-fashioned hot water tank. For flats, an enclosed ball tank model is available, for connecting direct to the main cold water supply without separate expansion or feed pipes. Please write for leaflet giving full details of the complete Coal-electric range.

SADIA

HOT WATER BY
ELECTRICITY

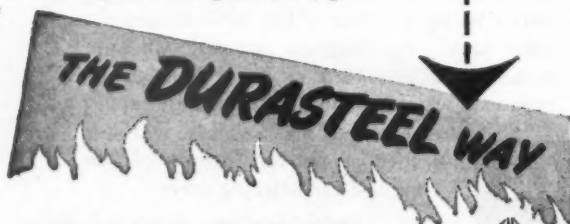
AIDAS ELECTRIC LTD., SADIA WORKS, ROWDELL ROAD, NORTHOLT, MIDDLESEX
SCOTTISH AGENTS: W. BROWN & CO. (ENGINEERS) LTD., 89 DOUGLAS STREET, GLASGOW, C.2
DISTRIBUTORS FOR SOUTH AFRICA: SADIA SALES LTD., 3-5 NEWTON ST., VILLAGE MAIN, JOHANNESBURG



Illustration shows Section of Durasteel 3DF2 Isolating Partitions and Doors between Transformer Switch Units at Wolverhampton Generating Station—Courtesy of West Midlands J.E.A.

Durasteel 3DF2 Composite Steel-&-Asbestos Structural Fire Protection Panelling and Doors are used by over 150 Municipal Authorities, Electrical Undertakings, and Government Departments. Thousands of Factories use Durasteel Corrugated Roofing and Fire Protection panelling, not only for structural purposes, but as a positive protection against fire spread.

Send for FREE, fully-illustrated, instructional booklets covering Durasteel Doors, Panelling and Corrugated Roofing.



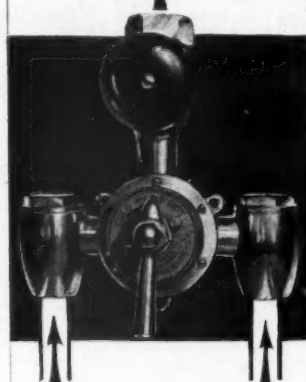
DURASTEEL ROOFS LTD.
 OLDFIELD LANE, GREENFORD, MIDDX.
 Phone: WAXlow 1051 (Pte. B.X.)
 Grams: ENDURAFIRE, WESPHONE, LONDON



Wherever WARM WATER is used
Leonard-Thermostatic
MIXING VALVES
 are **ESSENTIAL!**

HOLDS THE
 TEMPERATURE
 STEADY

WARM WATER



HOT WATER COLD WATER

If you have available

**HOT AND
 COLD WATER**

You can obtain warm water at whatever temperature you require. The two supplies are simply connected to the valve, and the thermostat in the mixing chamber does the rest! It holds the temperature steady.

Please write for leaflet S'B-2



WALKER, CROSWELLER & CO., LTD.
 WHADDON WORKS, CHELTENHAM, GLOS.

Telephone: Cheltenham 5172 (3 lines)

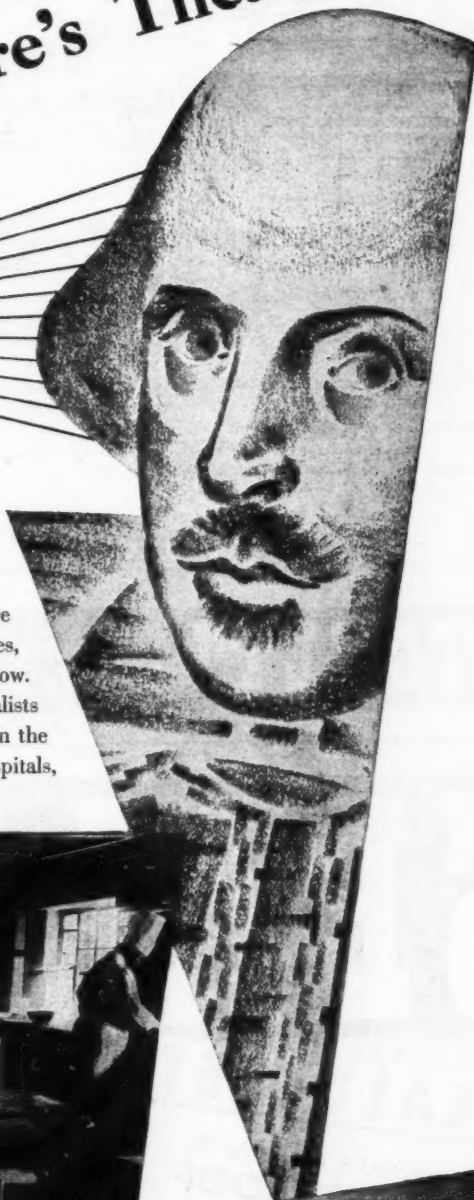
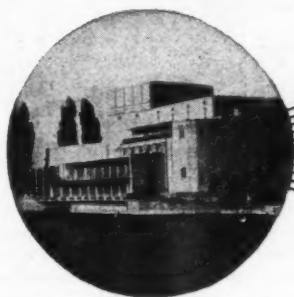
London Office

4, VERNON PLACE, LONDON, W.C.1.
 Telephone: HOLborn 2986

Manchester Office

1, RIDGEFIELD, DEANSGATE, MANCHESTER
 Telephone: Blackfriars 0058

Catering in Shakespeare's Theatre



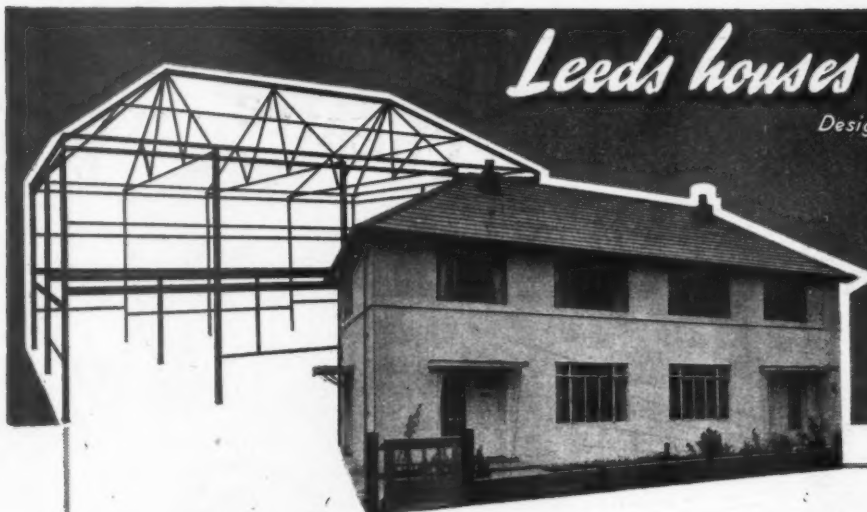
The Restaurant kitchens of the Shakespeare Memorial Theatre at Stratford-upon-Avon are equipped with Radiation large cooking gas appliances. During the season some 200 theatre patrons are served each day with meals cooked in these appliances, which include the 4-oven Grosvenor Range shown below. The services of Radiation kitchen planning specialists are available, without obligation, to all concerned in the planning and equipment of kitchens for hotels, hospitals, restaurants, canteens and similar establishments.



Radiation

Large Cooking Equipment Ltd.
PALATINE WORKS
WARRINGTON, LANC.

A Comprehensive Range of Large Cooking Equipment is Displayed at
The Radiation Showrooms, 8, Stratford Place, London, W.1. Phone: Mayfair 6462



Leeds houses the people

Designed by
Mr. R.A.H. LIVETT.
and
Mr. J.O. CARTWRIGHT.

**STEELWORK
FABRICATED
by
PATCHETT**

This system of permanent pre-fabricated construction adopted by the Leeds City Corporation, for the three housing estates now under development, completely overcomes the shortage of bricklayers. These houses comprise steel roof trusses and a steel frame to which vibrated pre-cast concrete units are fastened to form the outer wall skin.

All steelwork is fabricated by Patchetts and transported to the levelled concrete sites ready for erection. Four men working with block and tackle can erect the framework for a pair of houses in a few hours. The major part of the work is completed in the Patchett factory where bad weather cannot hold up the housing drive.

May we help you with your constructional problems?

PATCHETT & CO. LTD. WESTLAND ROAD, LEEDS 11.
TELEPHONE LEEDS 75858 (3 LINES)

SEALOCRETE SEALANTONE

SEALOCRETE

**MAKES CONCRETE
DUSTPROOF
OILPROOF
WATERPROOF
CASE HARDENED**
Rapid hardens—seals leaks under pressure
**ENABLES CONCRETING TO BE
CARRIED OUT IN FROSTY WEATHER**

SEALANTONE

**THE ORIGINAL
AND UNIQUE
NON-FADING
LIQUID COLOURS**
for
CONCRETE, CEMENT, ROUGH CAST, ETC.
ASSURES Intensity and Uniformity with Extreme
Hardness; PREVENTS Dust; AIDS Water, Grease
and Oil Resistance . . .
ALL THESE IN ONE OPERATION

SOLE MANUFACTURERS

SEALOCRETE PRODUCTS LTD ATLANTIC WORKS, MACBETH ST. W.6.

Telephone: RIVerside 2686-7.

Telegrams: Exploiture, London.



PRESSED STEEL CUBICLES AND PARTITIONS

THE range illustrated was installed as lavatory accommodation at the Empress Hall, Earl's Court, London, S.W., to the instructions of Messrs. Higgs & Hill, Ltd. We manufacture all types of this class of work for incorporation in modern schools, hospitals, swimming baths and other public buildings, and design partitioning for industrial installations to individual requirements.

Why not take advantage of our technical resources, which are at your disposal?

SPECIAL FEATURES

- (1) SAVING IN TIMBER.
- (2) MODERN HYGIENIC CONSTRUCTION
- (3) EASE OF ERECTION.
- (4) DOUBLE-SIDED FLUSH DOORS.
- (5) ECONOMICAL IN PRICE AND MAINTENANCE.

YOU'LL LIKE DEALING WITH

DAVIS

H. & C. DAVIS & CO. LTD., 1 THE PAVEMENT, CLAPHAM COMMON, LONDON, S.W.4.

Engineering Division, Factories: 59-69 Old Town, S.W.4. and Clapham Park Road, S.W.4. Telephone: MACaulay 4501

Also at GODALMING · GILLINGHAM · CROYDON · EASTBOURNE · LEWES

Bryce Canyon, Utah



★RIVETED AND WELDED

NATURE'S architecture, so immense, so majestic, and so magnificently non-utilitarian! Millions of years went into its making to provide, perhaps inspiration, perhaps merely a panorama for tourists. Man's building can never be on that sublime scale, but there is inspiration in it also . . . in the thought that man builds to live more fully.

**BANISTER,
WALTON & CO. LTD.**
STRUCTURAL ENGINEERS
AND STOCKHOLDERS

LONDON, S.W. 1 — 82 Victoria Street

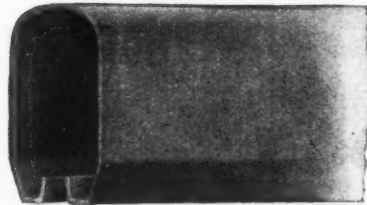
MANCHESTER 17 — Trafford Park

BIRMINGHAM 18 — 61-63 Western Road

The Facilities Behind KING SLIDING DOOR GEAR



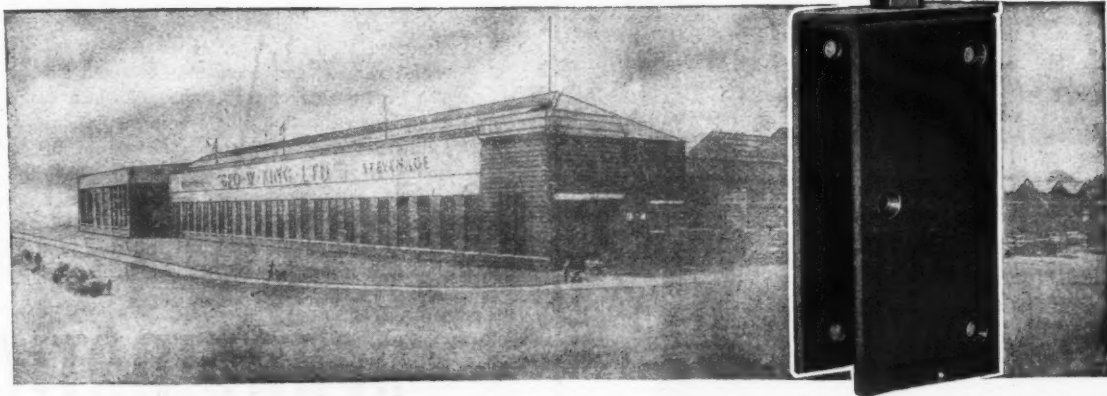
The BRACKET



the TRACK



and the TROLLEY

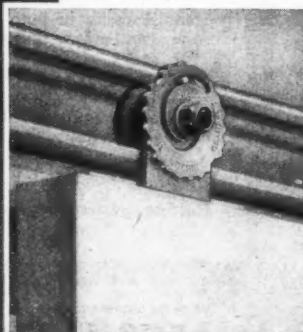
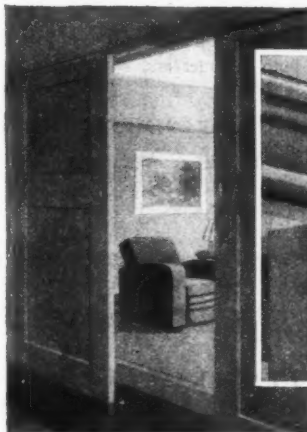


KING Sliding Door Gear, both in design and performance, is the best obtainable. Fine production facilities help to make this appliance outstanding. Above photograph shows Geo. W. King's modern factory in the new satellite town of Stevenage. The buildings cover an area of over 127,000 sq. ft. and surrounding land of 75 acres has been acquired for future development. Up-to-the-minute methods and organisation ensure efficient and economical production which is reflected in the quality of KING Products.

Photograph on right shows a small section of the large Machine Shop at the Stevenage factory. Up to date plant and efficient layout ensure accurate and expeditious work.



PRODUCTION



Enquiries are invited for the new "HOMESTIC" Sliding Door Gear of light alloy; eminently suitable for interior doors in dwelling houses, flats, etc.

This picture shows part of the extensive Drawing Office where a team of skilled engineers is constantly working to improve every detail of KING products.



DESIGN

Photograph on right shows a corner of the Research Laboratory where a constant check is kept on all the raw materials used in the factory and a careful scrutiny made of all new materials and processes.



RESEARCH

WRITE FOR ILLUSTRATED BOOKLETS

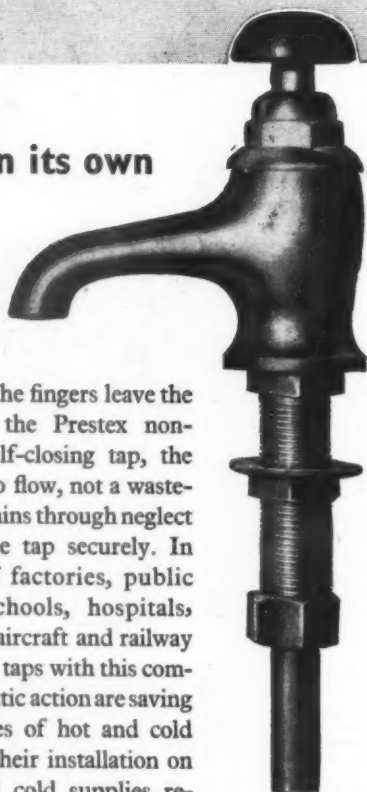
GEO. W. KING LTD., D. G. B. WORKS, HITCHIN, HERTS.

PHONE: 960

THIS TAP STOPS WATER WASTE—

it acts on its own

The moment the fingers leave the press-cap of the Prestex non-concussive, self-closing tap, the water ceases to flow, not a wasteful trickle remains through neglect to turn off the tap securely. In thousands of factories, public buildings, schools, hospitals, offices, ships, aircraft and railway trains, Prestex taps with this completely automatic action are saving large quantities of hot and cold water daily. Their installation on both hot and cold supplies reduces water and fuel costs and ensures reliability with trouble-free service.



The use of these taps is approved by most Water Companies, including the M.W.B. Also specified and approved by the Ministry of Works, the Ministry of Supply, and the various Service Ministries.

Prestex

Trade Mark

**NON-CONCUSSIVE
SELF-CLOSING SPRING COCKS**

Prestex non-concussive taps are made in Pillar type for fitting in lavatory basins, etc., also in Bibcock form for use over sinks, etc. Accompanying all Prestex taps is an instructions leaflet relating to their fixing and maintenance. If further information or advice is required please apply to your local builders' merchant or write direct to:

PEGLERS LTD · BELMONT WORKS · DONCASTER
London Office: Prestex House, Marshalsea Road, S.E.1

A flexible and permanent Joint Sealing Compound

SEALING OF JOINTS between dissimilar building materials, such as wood and brick or metal and concrete, can only be effective if the material used remains flexible. This is due to the different rates at which the materials expand, causing ordinary jointing materials to crack and fall out. The same applies to joints in which structural movement or vibration may be expected.

SECOMASTIC is the ideal sealing compound for such joints, being permanently flexible and proof against moisture. It is composed of the highest grades of weather-resistant oils bodied with selected inorganic fibres and siliceous fillers. The high quality of the compound, which has led to its extensive specification by Government Departments, Local Authorities and Architects, is maintained by continuous laboratory tests.

SECOMASTIC is available in drums or large-size cardboard cartridges, and is rapidly and neatly applied by the SECO hand or air gun. It saves cost and time in erection, and because it ensures a permanent seal minimises maintenance costs.

SECOMASTIC

Regd.
HAS THE FOLLOWING PROPERTIES

Remains sufficiently plastic to accommodate any normal expansion or contraction of a joint.

Will not harden, crack or craze, or fail through shrinkage.

Adheres tenaciously to all building materials.

Will not slump in a vertical joint, even in extreme summer heat.

Does not stain porous materials.

Forms a smooth protective skin within 48 hours, which can be painted.

Prevents corrosion of metal windows, etc.

Handles easily in both summer and winter. Is stable in storage and always uniform.

TYPICAL USES OF SECOMASTIC INCLUDE:

Bedding and sealing window and external door frames, whether of wood or metal.

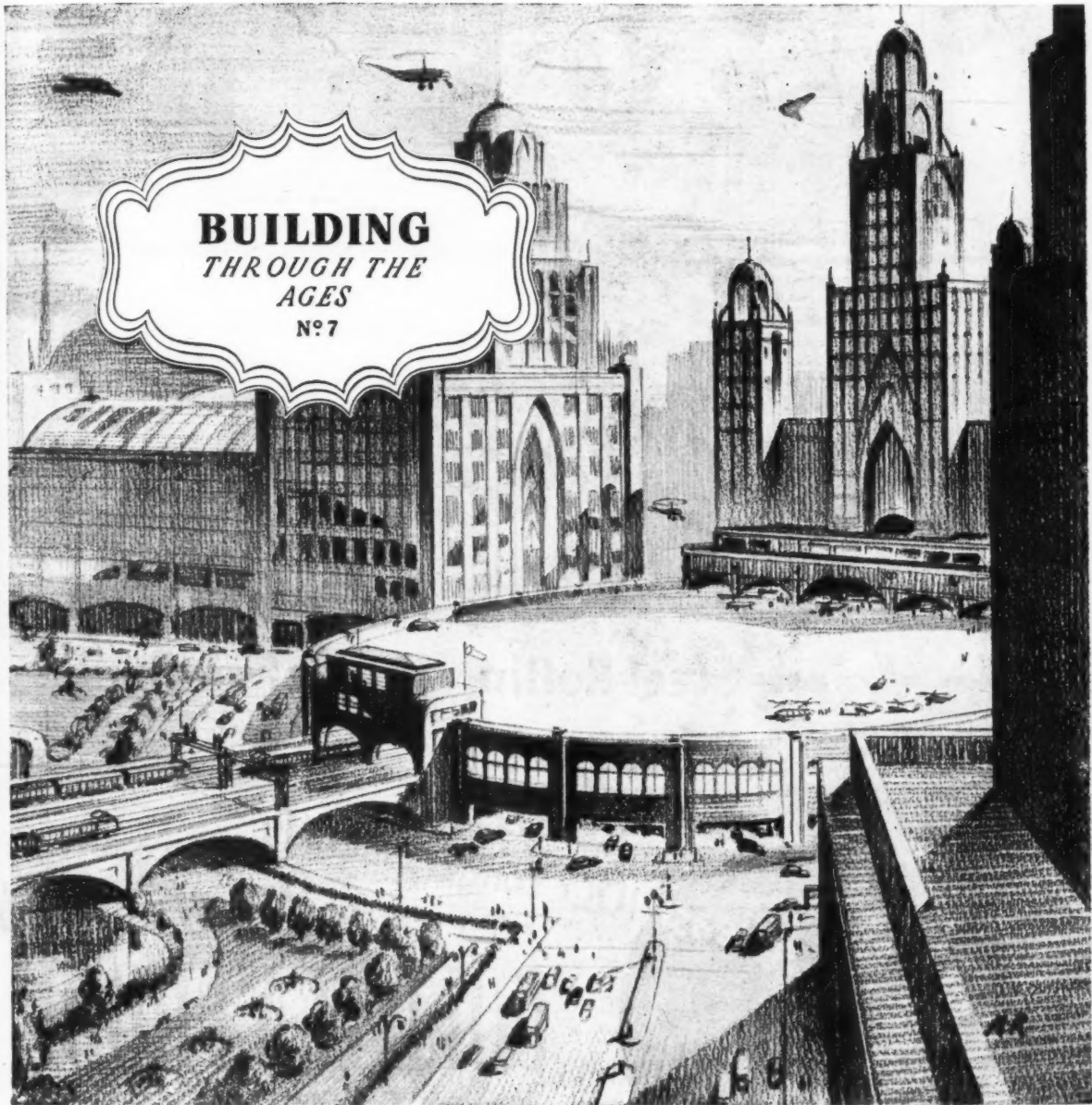
Sealing pre-cast concrete blocks and faience facings.

Structural expansion joints.

Roof and gutter repairs, overlap joints in corrugated roofs, etc.

Write for further details to:

SECOMASTIC LIMITED SALES DEPT.
11 · UPPER BROOK STREET · PARK LANE · LONDON · W1
TELEPHONE: MAYFAIR 9080



**BUILDING
THROUGH THE
AGES
No 7**

The City of Tomorrow?

THE culmination of thousands of years of hard and laborious progress in the building art is seen with the modern steel-framed structure. To-day this is the accepted form of building for almost everything except the private house. Tomorrow's architecture will depend even more upon steel.

The theory of a metal skeleton carrying the load, with the outer walls no more than a curtain round it, was first evolved in Victorian days with cast-iron girders. Not until the development of the stronger and lighter steel girder was such modern type of structure brought to its perfect form.

This method of building was pioneered in the United States with the earliest "skyscrapers." Throughout the years these have gradually climbed upwards to reach their present summit with the eighty-five storey mass of the Empire State Building.

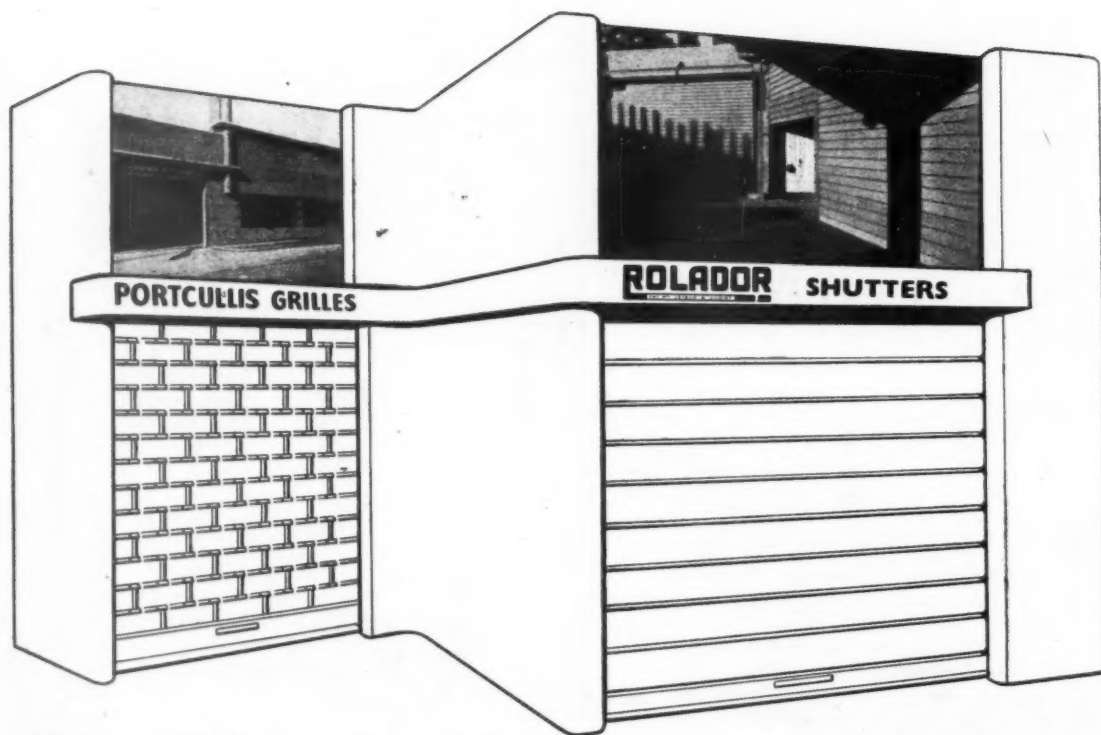
In this country, for various reasons, we have never matched the loftier erections of America. Yet Britain has, in her own way, attained a standard of constructional steelwork comparable to that of any other country in the world. Whatever pattern the construction of the future may take, British architects and builders will lead the way.

THOMAS BLACKBURN & SONS LIMITED
PRESTON, LANCASHIRE.

LONDON OFFICE: 8 BLOOMSBURY SQUARE, W.C.1.

TEL: HOLBORN 8638.

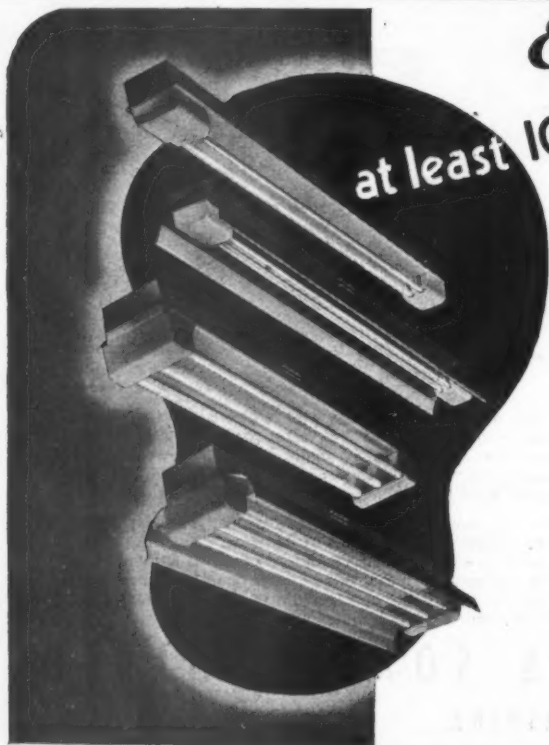
Fabricators in Steel Constructional Steelwork Iron Castings Railings & Gates Metal Windows Farm Implements



Haskins Steel Rolling Shutters & Grilles

ROLLING SHUTTERS

GNOME HOUSE, BLACKHORSE LANE, WALTHAMSTOW, LONDON, E.17. Tel. LARKSWOOD 2622



Ensure
at least 100% Longer Lamp Life

with the **NEW** **COLD CATHODE**

These new Cold Cathode Lamps combine the advantages of instant starting, high efficiency and considerably longer life than has hitherto been available. Made in a variety of colours and combinations in single 10 ft. tubes, 5 ft. U-tubes and 3 ft. grid tubes. Write for full details of the Meico range of Cold Cathode Luminaires.

Meico
COLD CATHODE
LUMINAIRES

MICRAMATIC
CONGLETON
Scottish Sales Office



LIMITED
CHESHIRE
73 Robertson St. Glasgow C2



Open-air Café inside

The British weather does not encourage the outdoor civilisation beloved in more equable Continental climes. But that need cause no concern. Brightside can ensure, through air conditioning, comfortable man-made climate in every kind of establishment, public, private or industrial.

BRIGHTSIDE *Conditioned* COMFORT

HEATING · PIPING · AIR CONDITIONING

THE BRIGHTSIDE FOUNDRY & ENGINEERING COMPANY LTD

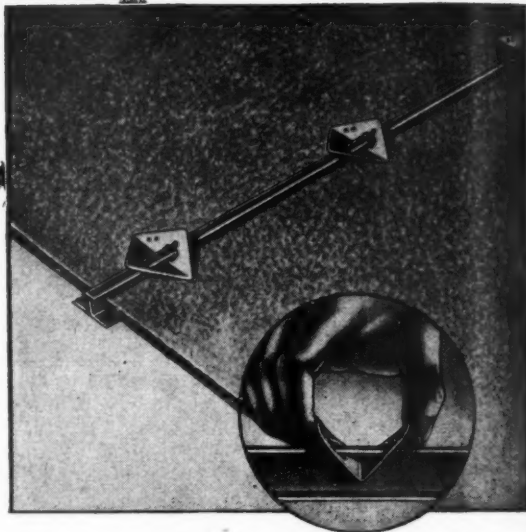
Head Office : SHEFFIELD and at BIRMINGHAM, BRISTOL, LIVERPOOL, LONDON, MANCHESTER, NEWCASTLE, PORTSMOUTH, EDINBURGH, GLASGOW, BELFAST.

CC 29

SUNDEALA METAL 'V' CLIP

**FOR THE QUICK FOOLPROOF
FIXING OF ANY TYPE OF
BUILDING BOARD**

The permanent and rigid fixing of any type or thickness of interior wall or ceiling board is simplicity itself with the Sundeala "V" Clip method. No screws, bolts or special tools are required. Simply slide clips on the flanged T-Bar, fix latter to purlins with hangers provided, insert boards under clips and the job is done! Full details and information sheet on request.



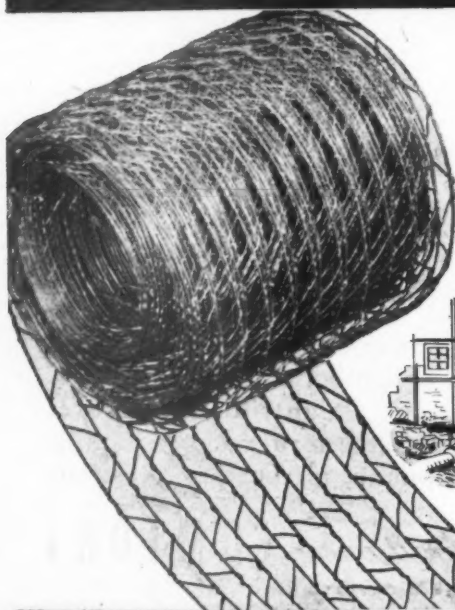
SUNDEALA BOARD Co. Ltd., ALDWYCH HOUSE, LONDON, W.C.2. Tele: CHAncery 8159. Works: Sunbury-on-Thames, Middx.

GLASGOW: Baltic Chambers, 50 Wellington Street, C.2

NEWCASTLE-UPON-TYNE: Northumbria House, Portland Terrace, 2

Members of Building Board Manufacturers' Association

'BONDENN' REINFORCEMENT



FOR...

**STRENGTH
AND
DURABILITY**

40-45 TONS TENSILE

17½ GAUGE TENSION WIRES

22/23 GAUGE SPACING WIRES

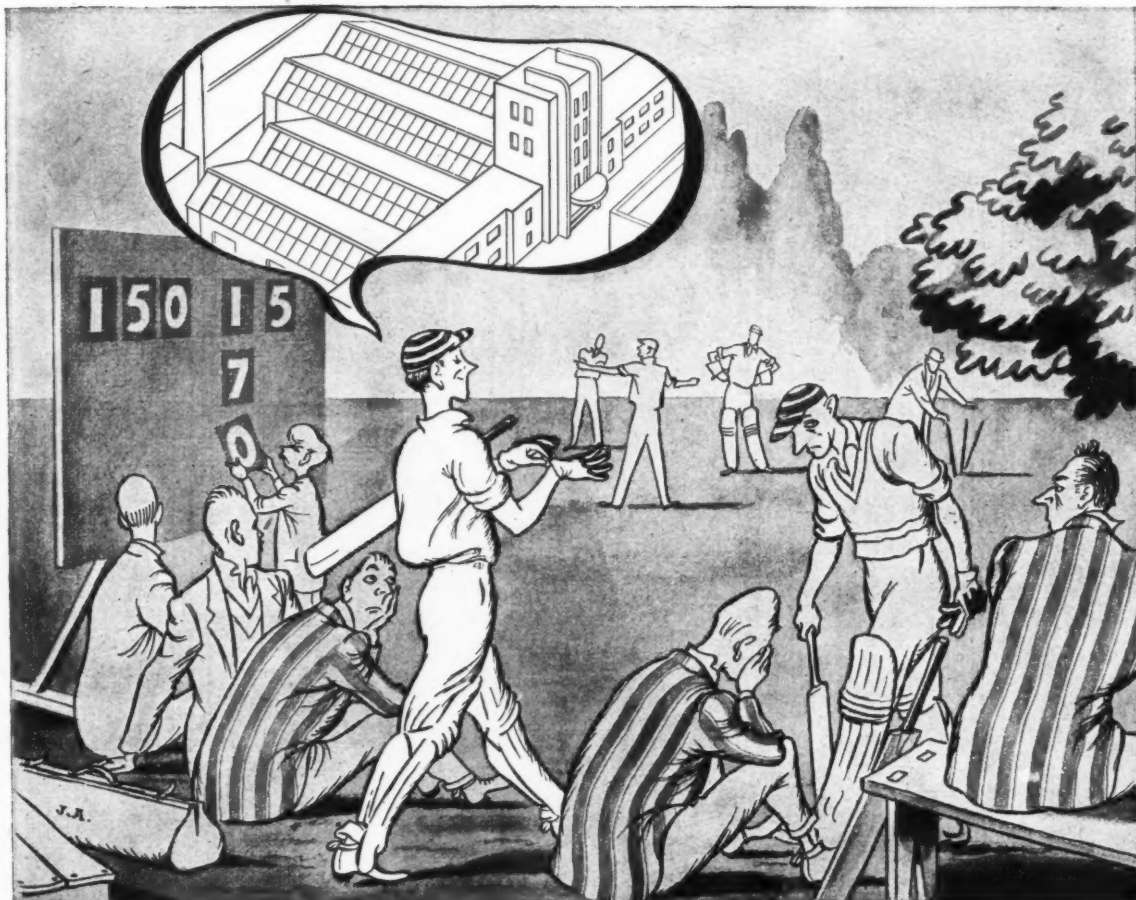
MADE FROM GALVANISED WIRES

STANDARD ROLLS 75'

SPECIFICATION ON REQUEST

GALVO (WIRE NETTING) LIMITED

CONEYGRE ROAD · TIPTON STAFFS · PHONE TIPTON 1191



Happy is the Architect who has specified **BRIGGS**

When Briggs is specified, the Architect knows the roof will be built to the most exacting standards—the extreme care devoted to every detail, and sheer craftsmanship embodied in every yard of roof. Area Managers at the undernoted centres await the opportunity of demonstrating the many outstanding features of a Briggs Roof. Send for latest publication, “Briggs Roofing Specifications and Constructional Details”.

Recent contracts include :

BARREL VAULTED ROOFS FOR BAKERY AT FAZAKERLEY
TILLYDRONE PRIMARY SCHOOL, ABERDEEN
BLOCKS OF FLATS AT WESTMINSTER, S.W.1. . . Etc., Etc.

above all specify a **roof by**

BRIGGS

CRAFTSMEN IN ROOFING AND WATERPROOFING

WILLIAM BRIGGS & SONS, LTD., DUNDEE.

LONDON—Vauxhall Grove, S.W.8

Offices at: ABERDEEN EDINBURGH GLASGOW LEICESTER LIVERPOOL NORWICH



Look our way before you leap

Whether it be 100 staircases or 1,000 window frames, we believe in promising to do a job only when we're sure we can do it, do it well and get it done on time. If you want fine joinery for houses, look our way before you leap.

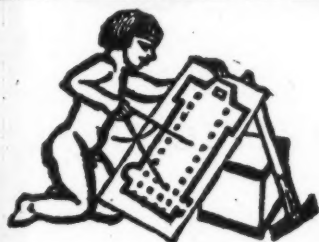
STANDARD ITEMS IN VAST NUMBERS

We produce window frames, doors and staircases in quantity. Standard in sizes—but with that little extra quality and finish that makes a world of difference. We can also produce these items to your specification—in quantity. And we keep our delivery dates. May we send you our literature?

BOULTON & PAUL JOINERY

BOULTON AND PAUL LTD • LONDON • NORWICH • BIRMINGHAM

In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their names will then be added to the subscription list as soon as possible. Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 17s. 6d. each; carriage 1s. extra.



DIARY FOR AUGUST AND SEPTEMBER

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials given in the glossary of abbreviations on the front cover.

BRADFORD. *Design Week organized by the Council of Industrial Design.* Details to be announced locally. SEPT. 12-17

GLASGOW. *Electrical Appliances Exhibition.* (Permanent.) Electrical Section, Scottish Building Centre, 425 and 427, Sauchiehall Street, Glasgow, C.2.

Scottish Industries Exhibition. Kelvin Hall. (Sponsor, the Scottish Council.) 10 a.m. to 10 p.m. daily, except Sundays. SEPTEMBER 1-17

LONDON. *Background to Design Exhibition.* (Sponsor, CID.) Rayon Design Centre, 1, Upper Grosvenor Street, W.1. Weekdays, except Saturday, 10 a.m. to 4 p.m. Closing date not announced.

Engineering and Marine Exhibition. Olympia. Monday to Saturday, 11 a.m. to 9 p.m. AUGUST 25-SEPT. 10

ST. ANDREWS. *Town and Country Planning Summer School.* At the University of St. Andrews, Fife. (Sponsor, TPI.) UNTIL AUGUST 27

TUNBRIDGE WELLS. *Building Week.* (Sponsor, MOW.) SEPT. 19-24

YORK. *Summer School of Architectural History and Measured Drawing.* (Sponsor, York Civic Trust.) UNTIL AUGUST 27.

COMPETITIONS

Festival of Britain Competitions. (1) "Vertical Feature" competition. This will be the dominant vertical element in the exhibition. It may be completely abstract in conception or related to the theme of the exhibition. Height should relate to adjoining buildings. Overall area of site is 40 ft. square, excluding surrounding promenade area which may be used for guying. Steel and timber employed should be restricted to a minimum. Assessors: Presentation Panel of the Festival of Britain. Premiums: First prize, £300; second prize, £150; third prize, £100. Further fees will be payable for preparation of detailed working drawings if prize-winning design is constructed.

(2) Restaurant competition. Qualities looked for will be suitability for purpose, character, originality and inventiveness. It will be in the extreme south corner of the exhibition. Site area: 14,800 ft. super; half of this may be given up to garden. Ingenious use of canvas and similar temporary materials will be an advantage. Assessors:

R. Furneaux Jordan, Mischa Black, Hugh Casson, Mark Hartland Thomas and Ralph Tubbs. Premiums: First prize, £250; second prize, £200; third prize, £150. Further fees will be payable for working drawings if prize-winning design is constructed. Closing date: November 1 for "vertical feature" and November 7 for restaurant. Enquiries to Secretary of Presentation Panel, "Festival of Britain, 1951," 2, Savoy Court, W.C.2, the envelope being marked "Competition."

Competition for Design of Strip Carpet. IAAS competition open to architects and architectural students in the United Kingdom and the Commonwealth. Divided into three sections: hotels, cinemas and theatres and ships. In each section a first prize of 75 guineas and a second prize of 25 guineas will be awarded. Closing date, October 31, 1949. The last day for questions, September 1, 1949. Assessors, Kenneth J. Lindy, E. C. Leach, and Hurlay Robinson. Technical Advisers, John Anderson and J. P. Glass. Details from the General Secretary, 75, Eaton Place, Belgrave Square, S.W.1.

Design of Community Centre. The Incorporated Association of Architects and Surveyors. Two prizes, £150 and £75, for Urban Design. Two prizes, £100 and £50, for Rural Design. Open to all architect members of the IAAS, and to any architect, whether principal or assistant, in the United Kingdom, Northern Ireland and Eire. Closing date, February 1, 1950. Applications to General Secretary, 75, Eaton Place, Belgrave Square, S.W.1.

NEWS

THURSDAY,

August 25, 1949

No. 2846

VOL. 110

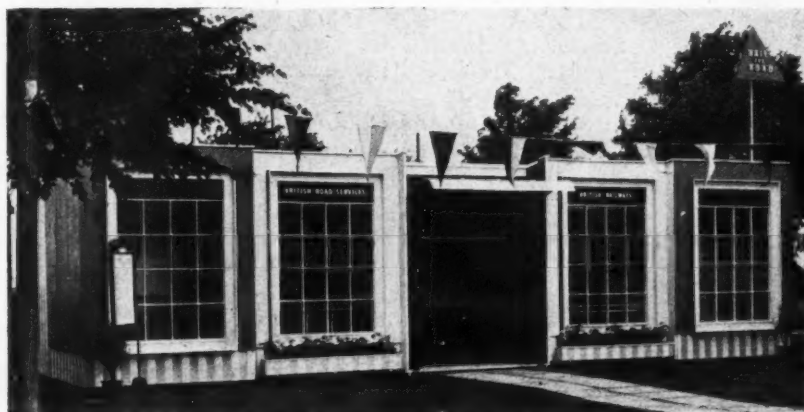
News	189
A Fresco Restored	190
This Week's Leading Article	191
Astragal's Notes and Topics	192
Letters	193
Edinburgh Student's Exhibition	194
Parliament Square Replanned	195
Societies and Institutions	196
Shop in Regent Street, London	198
Display Units for the Cotton Board	202
Information Sheets :	
42.C2 Typical Arrangements of Steel Storage Bins, Racks and Shelving	To face page 202
4.L10 Swimming Baths : Diving Equipment	
School at Whitstable	205
Technical Section :	
Information Centre	208
The Industry. By Brian Grant	211

Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

★ means spare a second for this, it will probably be worth it.

★★ means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.



A transportable exhibition stand designed by James Gardner for British Railways.

ENGINEERING & MARINE EXHIBITION
OLYMPIA

AUGUST 25th - SEPTEMBER 10th, 1949

HOPE'S BRONZE SHIPS' WINDOWS

STAND NO. 6
ROW C

Ground Floor, Grand Hall

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

From AN ARCHITECT'S Commonplace Book

THE SALOPIAN'S SKILL. [*From Shropshire, by Maisie Herring (Paul Elek).*].—Most writers claim that the county about which they make a book possesses more varied scenery than any other. I am going to claim instead for Shropshire that in no other county does such downright industrialism exist alongside such an unspoilt countryside. Perhaps it is this that has given the Salopian his deep roots; scratch an ironworker and you probably find a smallholder, an angler, a breeder of pigeons, or even of mink. Shropshire is a county of craftsmen, and I am proud to call many of them my friends and teachers, men who can make clogs, ride Severn flood waters in a coracle, and bring their craftsmanly mind to industry and yet not lose their personality to a machine. . . . Mary Webb, most sensitive of Salopians, acknowledges that in the craft of writing the scenery was her inspiration. It is hard to set aside the idea that other craftsmen too have drawn some of their strength from what they saw around them. The foundryman even today can straighten his back at the sound of the hooter and lift his eyes to the Wrekin that his fathers peopled with giants and devils. And before this later craft of ironworking, the stone-masons and carvers who filled the village churches with their work must have felt the influence within the limits of their art. . . . Looking at the fine work of today in so many industries and remembering the astonishment of evacuated firms at the ease with which local workers picked up intricate jobs, I have a feeling that this heritage of skill with the hands goes back a long way here.

The ABT has protested against restrictions imposed on local authority officers.

The following statement has been issued by the ABT, of 5, Ashley Place, S.W.1:—

The Association of Building Technicians has been informed that restrictions are being imposed by some local authorities on the freedom of movement of officers between one authority and another. We learn that it is the policy of the Association of Municipal Corporations that officers wishing to move from one authority to another shall not in normal circumstances be accepted by the second authority unless they have been at least two years with the first one.

This is a revival in a different form of the pre-war custom by which some local authorities refused to engage an officer coming from another authority without first enquiring whether his employer wished to release him. The procedure was an informal one, but the ABT protested vigorously and was able to stop the practice as far as it affected building technicians.

The new policy, if generally accepted, would tie technicians to authorities paying low salaries and would prevent them from using the present period of full employment to raise their standard of living to that of their colleagues employed by more enlightened authorities.

No one wishes to change his job unless he has serious reasons for doing so. It is well known that salaries paid by some authorities are ridiculously low, and that it is in the interests of good building as well as of individual technicians that they should be raised. It is also well known that many architects, engineers, surveyors and others find it difficult, with the rising cost of living, to make ends meet, especially if they are assuming the obligations of a family.

For these reasons the ABT stands for complete freedom of movement for all building technicians, and will do its utmost, in association with every other body willing to assist, to see that this freedom is not restricted.

MANCHESTER CITY COUNCIL is asking for Government aid in its district heating scheme.

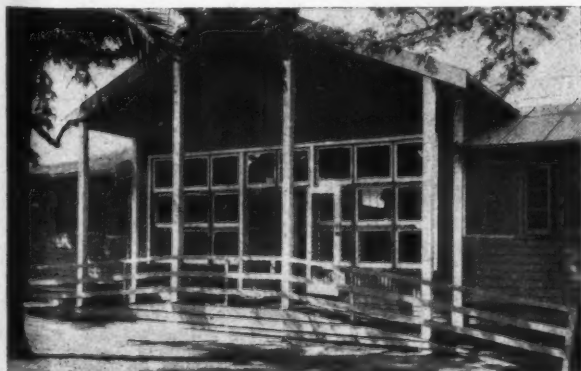
After spending £100,000 on this scheme for the Wythenshawe estate, which is estimated to cost £5½ m., Manchester CC is seeking financial help to prevent the abandonment of the project. A joint meeting of the housing and the Wythenshawe estate committees recommended that the council should approach the Health Ministry, the Ministry of Fuel and Power and the British

Electricity Authority and make suggestions which might keep the scheme open if adequate assistance was given.

It has been estimated that this scheme would save 30,000 tons of coal a year.

MOH instructions for REPAIRS OF REQUISITIONED PREMISES by Local Authorities have been modified.

Circular 75/49, issued to housing authorities by the MOH, states that in order to reduce the work falling on local authorities in submitting for approval proposals for the conversion and repair of requisitioned properties the Minister has decided to modify existing instructions as follows: In Circular 49/44, paragraph ten, £250 should be substituted for £100 as the maximum estimated amount necessary to render premises fit for occupation which may be authorized on the certificate of the local authority's technical officer without the necessity of obtaining the prior approval of the principal regional officer. In Circular 138/47, paragraph 1(2) and (3), the figure of £100 should be substituted for £50 as the limit within which local authorities may carry out repairs without the Department's prior approval.



Above, the entrance to the Melbourne University School of Architecture, Australia, which is temporarily housed in Army huts. The entrance was designed by the students who are taught by means of a new practical programme. They have already designed several buildings, some of which have been erected. Right, a group of students studying Ringwood, a city which is to be replanned.





A Fresco Restored

This fresco, depicting the figure of Christ Resurrected, is by Sebastiano Ricci. It is above the altar in the chapel of the Royal Hospital, Chelsea, and has recently been cleaned and restored. The exact date of execution is uncertain, but Ricci is known to have visited England between the years 1709-16. There is a preliminary sketch of the fresco in the Dulwich Art Gallery, and there are other well-known paintings by him on the staircase and in the assembly and council rooms of Burlington House, Piccadilly. Further

paintings are included in the Royal Collection. Ricci was born in Belluno in 1659 and was trained in Venice. He studied in Bologna, Rome, Naples, Milan, England and France, but his travels were, however, occasioned as much by his amorous adventures as by his study of painting. One of the last of the Baroque painters, his light, vivid colours show the first signs of the Rococo. He finally settled in Venice, beginning the lead of that city in Italian painting, and died there in 1734.

The MARS Group and the Institute of Contemporary Arts are arranging an EVENING OF DISCUSSION.

The subject of the discussion, which will be held at the RIBA, 66, Portland Place, W.1, at 6 p.m. on Friday, September 2, will be "Painting, Sculpture and the Architect."

Collaboration between architects, painters and sculptors was one of the principal themes of the Bergamo conference, and some of the distinguished foreign architects and artists who took part in the discussion there will be coming to England to be present at this meeting. They include C. Van Eesteren, the Director of the Antwerp School of Architecture and a member of the De Styl Group, L. Stynen and Ernesto Rogers, the Italian architect. It is hoped that a recording will be played of the speeches made at Bergamo by Le Corbusier and Professor Giedion. Gerald Barry will be in the chair, and other speakers include Graham Sutherland, J. M. Richards, Maxwell Fry, Roland Penrose, F. McWilliam and Patrick Heron.

The meeting will be followed at 9 p.m. by a party in Bedford Square Garden. At No. 7, Bedford Square, where a buffet and bar will be installed, guests will be able to see the work of 30 young architects who have come from Australia, Austria, the Argentine, Belgium, Colombia, Denmark, France, Holland, Italy, South Africa, Sweden and Switzerland, as well as Great Britain, to attend a summer school organized for them by the Mars Group, the British section of CIAM.

They have been working on the following schemes under the direction of Maxwell Fry: a national theatre, an office block at Knightsbridge, Elephant and Castle traffic complex, and a housing scheme at Hampstead.

There will be an exhibition of sculpture at No. 21, Bedford Square, the premises of the Royal Anthropological Institute, and of painting at No. 12, Messrs. Lund Humphries' offices. There will be dancing at No. 53, the editorial offices of the monthly "Horizon," and the AA are arranging a special buffet and bar at No. 34 for their members attending the party.

The meeting is free for members of the Institute of Contemporary Arts and the Mars Group. Tickets for the garden party, which also admit to the meeting, are on sale to the general public, price 10s. (17s. 6d. for two), and can be obtained from the Institute of Contemporary Arts, 6, Fitzroy Street, W.1, or the Mars Group, 7, Bedford Square, W.C.1.

NEWS IN BRIEF

The RIBA, 66, Portland Place, W.1, has changed its telephone number to Langham 5721-7.

On the recommendation of the City Architect, Mr. Leonard C. Howitt, Manchester Education Committee have agreed that one half of one per cent. of the total cost of future new schools should be set aside for work by the sculptor and the artist.

The Government have decided that the part of Arrowe Park, Birkenhead, at present occupied by the War Office as an armoured vehicle driving and training area, should be surrendered to the local authority not later than December, 1952.

The Library of the RICS was closed for cleaning and stocktaking on August 22 and will reopen on September 5. During this period it will not be possible, except in cases of extreme urgency, to answer enquiries or to issue books.

HOUSING PROGRESS

AT a House of Commons housing debate last month Lt.-Col. Elliot complained that although 364,000 houses were produced annually before the war by about one million workers, the same labour force was, at present, producing only about 230,000 houses per year. Hansard does not report any answer by Mr. Bevan to this point. Can we assume, then, that housing progress is, indeed, slow in relation to the labour force employed?

There are two major points to be made in answering this question. In the first place, nobody knows, or can estimate with any accuracy, how many men were employed on new housing work before the war, and the latest housing returns contain a warning that even our post-war figure, based on returns, "may be incomplete . . . and is subject to adjustment." In other words, the figure is unreliable. The second point is that the Girdwood Committee has asserted on evidence, but certainly without proof, that labour productivity has fallen by 31 per cent., which, *prima facie*, suggests that there may be some substance in Lt.-Col. Elliot's remarks. It may be surmised that the existence of the Girdwood Report prevented Mr. Bevan from giving a satisfactory reply to Lt.-Col. Elliot. But surely the greatest restrictive influence today upon the building of new houses is the much larger volume of other building that is going on all over the country than before the war. (The complexities of the statistics seem to have misled Lt.-Col. Elliot in this respect.) The number of steelworks, electricity generating stations, factories, university buildings, schools and farm buildings being erected must far exceed the figure for such work being done before the war. In addition, the country has been dealing with an immense programme of war damage repair, and the back of this work has been broken in a remarkably short time. There are, of course, some classes of work, such as hospitals, on which progress is slow. But 1948 and 1949 have been boom-condition building years—and not only for housing. Large as the housing programme may be, it represents only about 22 per cent. of total building activity.

Until June this year, 527,000 new permanent houses had been provided (roughly since VE day) in Great Britain. If temporary accommodation is included, the number of dwellings total nearly one million. By the second quarter of this year 50,000 permanent houses were being completed each quarter, and for the first time since the capital cuts of 1947 the amount of work commenced exceeded this figure, amounting to over 60,000 per quarter. The number of houses under construction had begun to increase. It seems as though commencements and completions may now have settled down at a fairly steady level of some 17,000 or 18,000 a month (say 55,000 houses a quarter) and if this continues complaints about productivity should diminish. The steady flow of production may at last begin to have effect, although it seems unlikely that the rate

of commencements can be much increased until the dollar shortage and hence the timber situation have improved.

As the bomb repairs programme is now nearing completion more labour is becoming available, and even with a steady housing programme of 220,000 houses per annum it seems unlikely that the amount of industrial and social service building will be reduced.



The Architects' Journal

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

Phone: Whitehall 0611

N O T E S & T O P I C S

BEGINNER'S LICENCE

Just before the MOH announced that licensing arrangements would be continued for another year, there was a persistent rumour, allegedly confirmed in high places, that licensing for building works was about to be abolished. The rumour is apparently now circulating again. One would have thought that the Ministry's statement left little room for doubt. I suppose hope springs eternal, but, from the inquiries I have been able to make, there is no chance of any relief for some time to come.

*

So those who are delaying in applying for licences, in the hope of finding them unnecessary in the near future, are strongly advised to go ahead and send them in. Goodness knows, these things take long enough anyhow, and to postpone any stage of the tedious business in the hope that it will soon be unnecessary is, I fear, to live in a fool's paradise, and clients have been known to get impatient if a gamble fails to come off.

*

One idea I would like to present to Mr. Bevan is that special facilities should be given to young architects

who wish to build houses for their own occupation. It is difficult to command the confidence of a prospective client if the only evidence of achievement you can produce is a photograph of a bathroom conversion. Even a small house, as we all know, can be made impressive with due photographic skill, and such jobs, after all, constitute the architect's stock in trade. I don't suppose there would be an overwhelming number of applications for such special licences, and it would be quite possible to make sure that the house was not for sale by some sort of arrangement similar to that made by purchasers of new cars.

VISION OF SHROPSHIRE

The recumbent lady with the lute and the stony eye, whose photograph appears below, graces the pages of a book on Shropshire in the *Vision of England* series (Paul Elek, Ltd.), which I have just finished reading. The books in this series have previously been well produced at the reasonable price of round about ten shillings, but I cannot think that there will be a great demand for the same type of work at the new

price of fifteen shillings, even with the inclusion of a pin-up girl of this Age of Reason and the provision of a cloth cover. If people want guide books for practical purposes they usually go for the less expensive publication which contains useful, if sometimes outdated, information and photographs. If, on the other hand, they want a book that is informative and amusing, and are prepared to pay for it, they will probably turn to Morton or Mais. At their present price, the *Vision of England* series will meet much competition.

*

However, I don't mean to imply that these books are not entertaining. The Shropshire book by Maisie Herring is well worth reading, for the author, like many Salopian craftsmen, has drawn inspiration from the scenery she knows so well. There are several descriptive phrases in her book that could not be bettered. She carries out her own suggestion that a town should be given a monument in words instead of guide book "pretty-pretty," particularly in her description of Iron Bridge. "Delirious gods throwing houses at the hillside might have done it," she writes. No words could conjure up a more vivid picture of the town. But in spite of occasional bursts of poetry in her work the author writes of Shropshire with the affection of a resident who has come to take many things for granted rather than the fanaticism of the traveller who becomes ecstatic at his



The tomb of Lady Mary Wolryche in Quat Church, Shropshire. An illustration from Paul Elek's guide-book series: Vision of England. See Astragals comment above.



A sketch of the proposed axial approach to Westminster Abbey as shown in the new design by Grey Wornum for Parliament Square. See Astragal's comment below, and page 195.

first sight of each new landscape and rates each view better than the last.

The volume is well produced and contains some excellent photographs but the pen sketches have a rather old-fashioned appearance. Drawings in the other new volumes on Essex, South Wales and Somerset are of varying standards and it seems that something might be gained if one artist was employed for the series, thereby ensuring that at least one feature of the publications retained a consistently good quality.

WESTMINSTER ROUND-ABOUT

I was pleased to hear from an Australian friend, who was recently shown over the Houses of Parliament, that the M.P. who acted as a guide spoke enthusiastically of the future plans for the Westminster area. The plan to which he referred was none other than that of *The Architectural Review* for regaining the precinctual qualities of what was once London's civic centre. That such enthusiasm should still exist in what Astragal, in his old-fashioned way, feels is still an important quarter, should augur well for the possible fruition of this plan. Recent events,

however, make one wonder whether other quarters, such as the MOW and the MOT are not more important as far as planning is concerned.

As an instance, take the scheme for the alteration of Parliament Square, which is illustrated, I am told, in this issue of the JOURNAL. It is primarily intended, apparently, to improve traffic conditions for the 1951 Exhibition. But with its stone walls and elaborate paving it can hardly be shrugged off as a cheap temporary measure, or if it is, it is a more than usually expensive shrug, even for these days.

The traffic problem having been solved by Mr. Wornum's admirable design, I can foresee a time when the authorities will feel that further expense in altering the Square would be unjustified (bearing in mind the state of this and that). And so, quietly but typically, the whole plan for Westminster will disappear further and further into the future, due to the pressing exigencies of the present.

The solution to the planning problem of Westminster is not, of course, a still larger island in Parliament Square,

however capably designed by Mr. Wornum, but no island at all. Traffic should be taken away from the Abbey and Palace precincts, and not encouraged to cavort round and round in the centre of it.

A last point, which the illustration above describes better than words: always, if you wish to avoid sudden death, look left when walking up the axis.

ASTRAGAL

LETTERS

"Desdichado"

An Overgrown Office

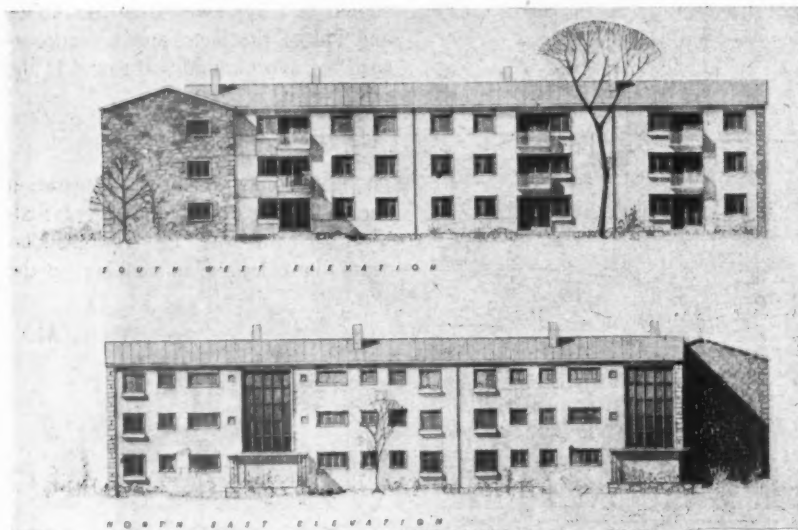
SIR,—Please accept congratulations upon your Editorial, "The Overgrown Office," from one of those rash enthusiasts who from 1936-40, under the aegis of ABT, fought that same battle which you so clearly demonstrate has still to be won.

The omission of a technicians' organization from the terms of reference of a Working Party sponsored by the MOW might arouse sardonic laughter amongst its own staff, who could hazard a guess why the subject has been avoided. The implication of the omission is none the less serious for the industry as a whole, and for the technical professions in particular. The sad truth is that the Ministry which is the doyen and in many ways the king-pin of all architects' departments, which should be a model to follow, is well behind most of its compeers; it is, like other departments and Ministries, the home of frustration, cynicism, fear of victimisation and misuse of ability and experience.

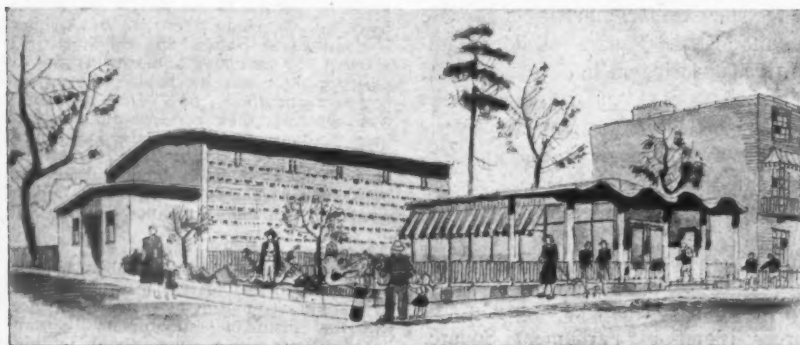
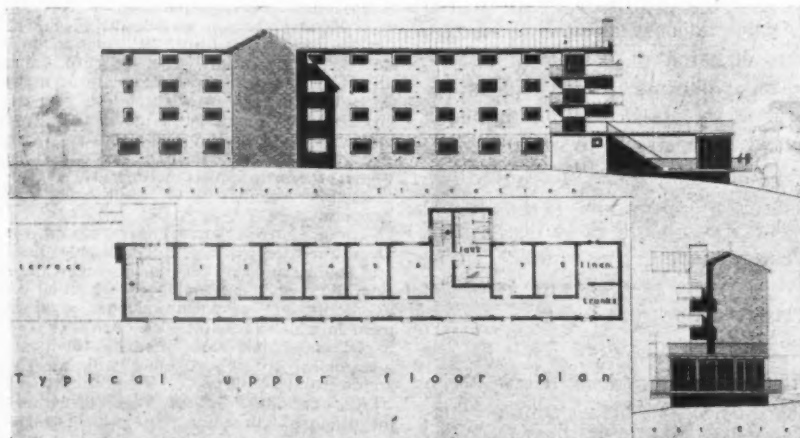
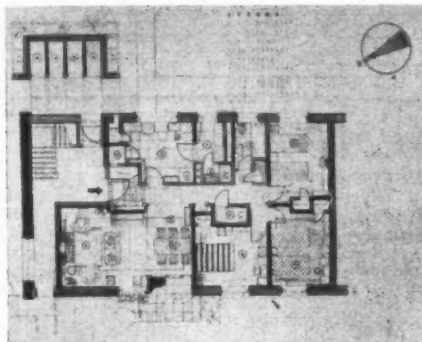
Various circumstances have forced the Department to decentralise its architectural and engineering services but this regionalisation, as I see it, has not been organised on its merits, but as an unwelcome development in which the old Office of Works core has been mainly concerned to retain its hierarchical control, together with all the architectural "plums." The export of "Little Londons" to the Regions involves the filling of all senior posts with London nominees, whose chief qualification for promotion appears to be length of service. Since no one below the rank of Architect is admitted to possess any opinions or is allowed any executive authority or site experience, the system inevitably produces successive generations of "drum-followers" who, whatever their personal qualities (and there are as good men in the Department as outside), develop, perforce, a conception of an architect's functions based on book-knowledge and the interpretation of circulars, with undue reliance on the Clerk of Works.

War-time expansion, together with Regionalisation, has, of course, brought in a large number of men, especially in the provinces, of maturer age and more varied experience, who find themselves subordinate to established officers who are younger by anything

EDINBURGH STUDENTS' EXHIBITION



These projects by students of the School of Architecture, The College of Art, Edinburgh, were recently exhibited at the school. Above, elevations of a block of three-storey flats and right, plan of the flats, by James Shearer (4th year). Below, a students' hostel for Edinburgh University at the Kings Buildings site on the outskirts of the city, by B.N.K. Collier, (2nd year). Bottom, design for an art department for a school, by William Campbell, (2nd year).



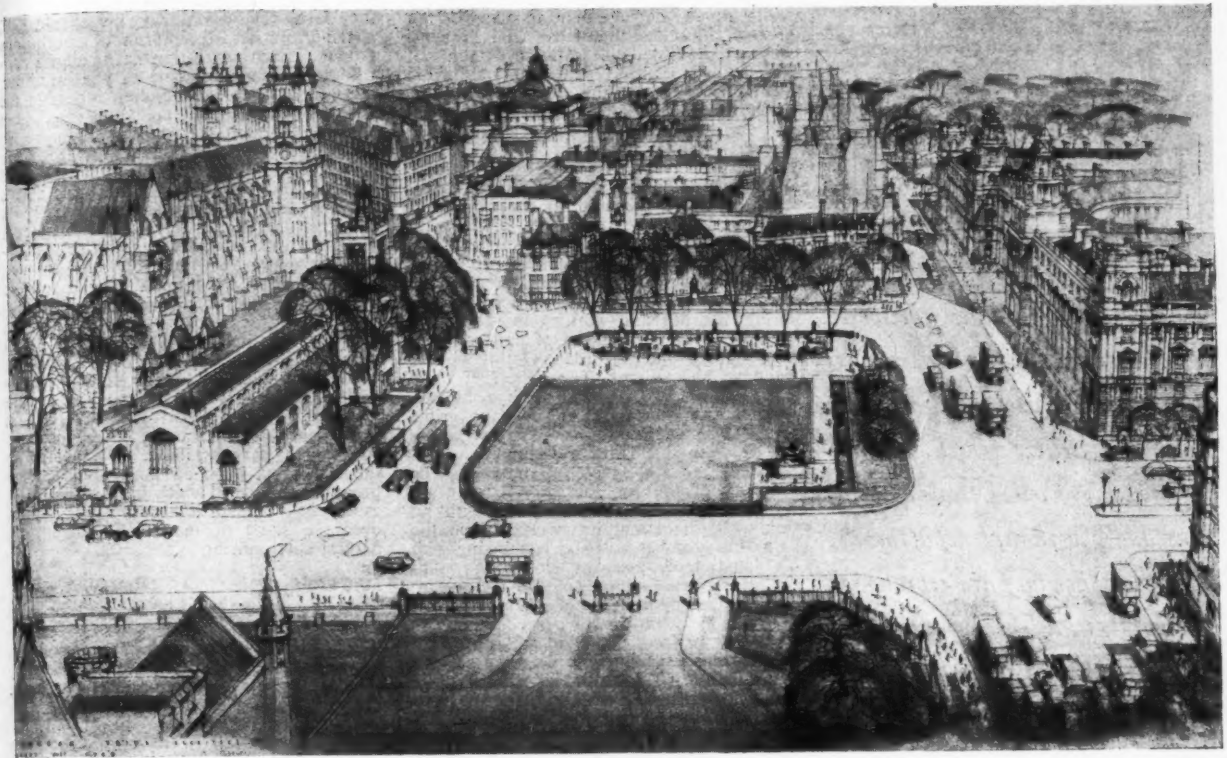
up to 20 years, and who have nothing like equivalent experience. The London hierarchy, while retaining sole control of grading and promotion, can, of course, know nothing of the newcomers except through the annual secret reports. Their senior officers, however, coming from the London office in the first place, are all known personally to some or others of the hierarchy. A tag frequently quoted in the Civil Service is "It's not *what* you know, but *whom* you know that counts." The only safeguard provided is that an officer must be informed and can protest if his report is adverse in any category, but he still does not know what finally goes into the report; he never knows, in any case, to what degree or in what respects he is favourably reported upon. These newcomers are therefore at the mercy of men who may not be qualified to judge them and whose training may lead them to regard such subordinates with suspicion and lack of understanding.

Many of the original Office of Works staff refused to leave London when Regionalisation was introduced, unless to fill the senior posts. The hierarchy displays remarkable ignorance of the technical and geographical conditions of provincial work, their senior outposts share their outlook, and there is no machinery by which the facts can penetrate to London if the outposts do not so desire. In consequence the provinces are badly understaffed, both as regards number and rank. An Architect (usually an established transferee from London) with a salary ceiling of £960, together with three or four Assistant Architects (usually newcomers, older and more experienced than their superiors) with a ceiling of £710, will be responsible for 150-200 jobs costing £1,000,000-£1,500,000 spread over four to six counties. Responsible in fact, that is, but hamstrung and frustrated by the control of the hierarchy, which does not seem to know how to allow architects and engineers to perform their functions. Jobs are delayed and incalculable time wasted waiting for decisions by senior officers who may be less competent to make them, because of their lack of knowledge of local conditions, than the men directly concerned. Mistakes are made because the provincial officers cannot discuss their jobs direct with their opposite numbers in Client Departments (who, of course, suffer the same disabilities), so that unreal and inadequate instructions are only too common. The same attitude of mind leads to a preoccupation with standard designs. Little latitude is allowed to provincial officers, and large sums are wasted, with unsatisfactory results, by forcing unsuitable buildings on to sites necessitating undue excavation, under-building, etc. In the case of non-standard new buildings, the hierarchy insists on "vetting" and does not hesitate to alter the chief elevations, but no plans, either of the building itself or its surroundings, or report of local conditions and requirements, are asked for.

No criticism, suggestion or opinion is ever invited from those who are, in fact, responsible for the work, and there is no way of approach, that I know of, except by the hierarchical ladder, which means, of course, that anything distasteful to any individual higher up the scale will be quietly smothered, even if anyone were rash enough to risk black marks from those who hold his annual report at their mercy. The whole system militates against the proper use of technicians and tends to encourage sycophancy, timidity, frustration and inefficiency. The Working Party needed first of all is one on the Ministry of Works itself, though the evidence needed would not be forthcoming without very convincing guarantees against victimization!

I would have liked to have put my name to this letter, but as I am myself in the Ministry, I feel it is advisable to sign myself:

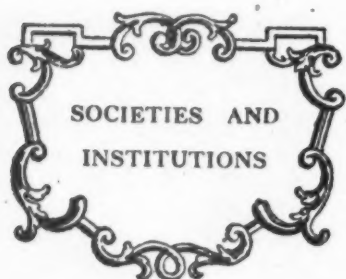
"DESCHIDACHO."



PARLIAMENT SQUARE REPLANNED

This design by Grey Wornum is for immediate execution, and is intended mainly to improve traffic conditions in that area before the 1951 Exhibition. The following factors severely affected the design. The underground railway, which runs only a few feet below the surface, prevented any use of pedestrian subways. The MOT desired the maximum "weaving" lengths for traffic on all four sides of the central island. The Metropolitan Police did not want any pavement provided around the central island, and wanted pedestrian access to the garden to be provided only on the north-west and south-west corners. (See also page 193)





Speeches and lectures delivered before societies, as well as reports of their activities are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full.

TPI

C. S. Orwin

August 23. Paper on THE PROBLEM OF PLANNING RURAL AREAS AND THE LOCATION AND DEVELOPMENT OF VILLAGES, read to members of the Town and Country Planning School, St. Andrews.

C. S. Orwin: This paper is concerned with country planning. While it will appear, presently, that country planning cannot be considered in isolation from town planning, it has also its own peculiar problems and difficulties, many of which have not yet been given the attention which they need. This is not surprising, perhaps, when it is remembered that the nation has lost, long since, the character which once it bore of a rural society, dispersed, with some uniformity, over the face of the countryside, and that today the greater part of the population is collected together in communities of many thousands, and, here and there, even of millions.

Considerable attention has been given to the problems presented by this concentration of population in great industrial communities, which have grown up, most of them, during the last hundred and fifty years or so, and some in less time than that, without any apparent plan or central control. The difficulty, today, is to provide satisfactory social conditions for great masses of men and women who are controlled in their daily lives by the impulse of a great centrifugal force, operating, through a diversity of unassociated authorities on the circumference of each community, to concentrate it in still greater numbers, and to obstruct still more the solution of the existing problem. But this has now received general recognition, and town planning, as a social science, has advanced far from the purely academic stage to that of practical application. From slum clearance schemes and the provision of open spaces to the limitation of urban communities, and even their reduction, by the creation of satellite towns and the dispersal of industry, is a great step,

while the war damage done to many of our greater cities has stimulated, and in some ways even assisted, the solution of some of the major social problems inherited from the industrial revolution.

Country planning, on the other hand, is still far removed from being a recognised science. While there can be few, if any, thoughtful persons who would wish to leave the industrial sprawl uncontrolled, there are many who are prepared to shout "Hands off!" at any suggestion of interference with the rural scene. In fact, most of us know the æsthetic and sentimental appeal of the little hamlet, with its cluster of thatched roofs, the woman with her bucket at the spring, her husband working in the wheelwright's yard, the handful of children running out of the Victorian Gothic school building, and so on. The appeal of these things to the eye, coupled with a healthy reaction from the gross ugliness and grime of much industrialism, make us forget the low ceilings, the damp walls and the dark bedrooms of the thatched cottages, the drudgery of life for the woman, with no water except what she can carry, with no sink to wash in and no house drains; the vain efforts of her husband, competing with his hand tools and his craftsman's skill against the mass-output of the factory industry; the disabilities of their children, handicapped from birth by the organization of health services, education and recreation on the low level inescapable in these tiny communities. The trade in picture postcards portraying Britain's heritage of rural beauty, is based largely on the perpetuation of conditions of life and labour which every Medical Officer, Sanitary Inspector, Health Visitor, and Education Officer condemns out of hand.

There is more muddled thinking, probably, applied to this question of the preservation of the village and village life than to any other of the nation's social problems. Even those professionally engaged in trying to improve conditions come under the spell of the "old world charm" of the English village. To quote from an important County Planning Survey: "Fortunately, in spite of modern progress, many of the old villages to this day retain their old world charm. The old villages [in this county], as in other parts of England, have largely remained untouched by modern industrialism, although the country as a whole paid a heavy price for this before the war in the decline of agriculture, the drift from the land and the consequent overgrowth of the towns."

EXODUS FROM CHARM

This is quoted not as a reflection upon a fine piece of work, but because it expresses views widely held by people whose lives are not spent in dwellings of old world charm, devoid of nearly all those things making for domestic convenience and physical comfort, which any townsman can take almost for granted. After all, modern industrialism, so far from exacting a heavy price, has given all workers in Britain, rural as well as urban, the highest standard of living to be found in Europe, while the drift from the land has been due, partly, to changes in methods of farming involving the use of more machines and fewer men, and, for the rest, to the better opportunities and amenities of many kinds which town life offers to the young countrymen and women. As to the old world charm of the village: "the appreciation which matters is that of persons who have to spend their lives, summer and winter, in scattered villages, cottages and farms. Large numbers of these persons express that appreciation by the rural exodus. How ideal rural life is, is a matter of opinion, on which they have had something to say." (Professor D. H. MacGregor.)

The instinct for the preservation of the traditional village is the first thing, I suggest, that country planners must resist, unless unwittingly, they would kill the thing

they love. The traditional village, so-called, is the evolution of centuries of continuous growth. Each generation has made its contribution, removing some of the buildings, decayed or obsolete, building others in the styles of the times, and thus has been created the heritage which we admire so much today. After all, few villages are wholly commendable in detail. Here and there is a building of good design, its details showing fine craftsmanship; internally it may conform moderately well with modern standards of house planning. With the possible exception of the Cotswold country, however, there is nothing about most of our villages to suggest a highly developed building tradition, and their appeal is based on the diversity of styles and materials, each typical of a period of English history, giving that sense of long continuity of life and occupation which is conveyed by the architecture of a great cathedral or the equipment of a stately country house. Above all, perhaps, have they gained by the mellowing hand of Time and the slow processes of decay, which have softened the asperities of crude designs and harmonized even the worst of man's efforts with the natural environment.

DECLINE OF RURAL INDUSTRIES

The greatest loss which our village communities have sustained in the last generation or so, has been the elimination, almost complete, of every form of industrial activity and of the people engaged in it. In the memory of persons still living, most of the villages were little worlds of their own, producing or purveying nearly all the requisites of life, and supplying, also, the social needs of their people. Most of the farm houses were located in the villages themselves, thus retaining the plan characteristic before the enclosure of the open fields, when farmers and their men lived in the villages and went daily to their work in the fields. Farming was the mainspring of the industrial life of the village community, and everyone not following it was engaged in small industries and crafts which served farming, such as blacksmithing, saddlery and wheelwrighting, or which drew upon farming for their raw materials, such as milling, malting and tanning. Besides these were others supplying the personal and domestic needs of the community; the shoemaker, the tailor, the dressmaker, the chandler, the grocer, the butcher, the carrier. Everyone was educated in his own village, worked, shopped, played and prayed there, and any young men and maidens who might be surplus to the working needs of those self-contained communities went away to the nearest town, to find work and to make new homes.

Today, nearly all this has changed. Agriculture no longer dominates industrial and social life. The decline of arable farming at the end of last century, and more recently, the application of machinery and every sort of labour-aid to farm work, has halved the agricultural population. On top of this, nearly all the people engaged in rural industries have gone, together, in most places, with the purveyors of the bodily needs of the villagers.

This has left the villages the poorer, both economically and socially, and calling out for public assistance. Economically, in that it has reduced the alternative openings for work; socially, because the communities, many of them, are now too small to organize a social life. Bereft of the leadership of parson and schoolmaster; too small to equip a village hall, to organize a Women's Institute, to run athletic clubs, Scouts or Guides, they have nothing left except the "old-world charm" of their surroundings. In fact, while the "traditional English village" which so many people are anxious to preserve, may exhibit an architectural continuity of some antiquity, its present economic and social organization is very recent. Only by the introduction of new elements to replace the

lost industrial life, can the village communities regain and retain their former vigour.

This, of course, involves the planned decentralization of industry on a large scale, not only in the interests of the workers in over-populated industrial centres, but also to restore the well-being of the countryside. And here, the planner finds himself ranged against opposition more serious than that of the lover of old-world charm; it is that of the vested interests of agriculture. Not, be it noted, the workers in the farming industry, who have not manifested any opposition, but the landowners and farmers of almost any area in which an industrial development programme is under consideration. Obviously, it is not possible to plan a new town to accommodate several thousand workers and their families, the factories in which they will work, the shopping centres, schools, places of worship, places of recreation and all the activities of an industrial community planned on generous lines, without indenting upon land already fulfilling some other purpose. Just as we must not be sentimental about the preservation of the picturesque, but too often insanitary, village, so must we retain a sense of proportion when it is necessary to balance the claims of large numbers of industrial workers for better living conditions against the retention of a few thousand acres in agricultural production.

With increasing transport facilities and the prospect of the deliberate location of factories in the smaller country towns and even in the country itself, this demand by town workers for rural homes, which is a manifestation of very recent times, forms one of the major problems of country planning. Here, then, we are brought face to face with the problems of country planning. The first of them is the simple problem of slum-clearance and overcrowding. The countryside is littered with houses condemned as unfit for occupation, which cannot be demolished because of the universal housing shortage and the impossibility of providing alternative accommodation for the tenants. Many of these houses are occupied by farm workers, who, until recently, were the worst paid of any of those engaged in the country's greater industries. Unable to pay the higher rents, farm workers have drifted into bad cottages because they are cheap.

OCCUPATIONAL TENANCIES

There is also the perennial problem of occupational tenancies—the "tied" cottages. Low wages have made it difficult for farm workers to compete for free houses, and a custom has grown up by which cottages have been provided, generally on the farms, as a part of the wages. The tenancy is an occupational one, and ceases automatically on the termination of the engagement by either party. Most of these tied cottages were built long ago, and the State has not given any clear lead in the controversy which they have roused. Workers are loud in their demands for its abolition, but such private building of cottages for agricultural workers as is in progress under licence today, is creating more of them, for occupation is permitted subject to the same conditions, which empower the landlord to eject his tenant without providing alternative accommodation. Under State housing schemes, however, it has been found impossible, in practice, to evict the tenant of a house, earmarked for an agricultural worker, who has changed to industrial employment.

Under post-war conditions, priority in the selection of tenants for the new Council houses has had to be given to overcrowded households and to persons with young families living in houses condemned as unfit. So far, country planning, in theory, seems to have got very little further than this—slum clearance and the relief of overcrowding. In practice, wherever the slum

dwellings are re-occupied and the potentialities of overcrowding remain, not even this much is being achieved. Anyway, it hardly touches the main problems of planning, which takes for granted the clean-up of the countryside now supposed to be going on, and is concerned with questions much larger and more difficult, involving as they do such matters as the village community as a social unit, the supply of public services to small and scattered villages and hamlets, the restoration of a balance in rural life between agricultural and industrial activities, and, greatest problem of all, how to introduce industrial enterprise into a country setting.

THE FULLER COMMUNITY LIFE

The village or hamlet which ceases to develop soon begins to decay. Its buildings fall into disrepair, and a social decline sets in as it tends to become the resort of the less fortunate members of the locality—the unlucky or the unthrifty—who are attracted to it by the relative cheapness of the poor accommodation which it affords. The old rural industries are dead. Agriculture is a declining market for labour. It is through the decentralizing of manufacture that many of our rural communities will be revived, and something of the old balance between work on the land and work in other forms of enterprise will be restored. Thus will come, indeed it is coming, the fuller community life, when the little places are big enough to organize themselves in groups for activities of many kinds now closed to them, when the day's work is done.

There is still the problem of the dwindling rural community, untouched by new industry and badly placed for grouping with its neighbours. These are endemic in most parts and epidemic in considerable districts, particularly in Wales and the English hill country. They offer little or no scope for development, being communities more of small family farmers than of farmers, tradesmen and wage-workers, often failing to exhibit any of that concentration of population at one point which makes the typical village or hamlet. Housing, whether by way of slum clearance or additional provision, must be left, as a rule, to private enterprise, for, under conditions prevailing now and likely to continue, the economic and social life which these places can offer is impossible of development and would not justify the expenditure of public funds. The provision, even, of some of the public services, water, light and power, to lighten domestic toil, must continue to depend upon chance opportunities until the right of all citizens, rural and urban, to an equal enjoyment of the amenities of life is recognized, by the adoption of national flat rates for the supply of these services.

Apart from such prospects for small villages, the only future for them is that which they can make for themselves. The demand for their preservation at the public expense must not be taken too seriously: it comes, as a rule, from those not called upon to pass their lives in picturesque slum dwellings, as members of communities cut off from the main stream of social life. It is unlikely that the country planner will often be concerned with the lay-out of brand new villages. Here and there, one may be found, generally in association with the development of one of the extractive industries; New Ollerton (coal), in Nottinghamshire, and Stewartby (brick-making), in Bedfordshire, are examples. More commonly, industrial development will be in the form of additions to existing places.

There remains the physical problem of how to introduce industrial workers' houses into their rural setting. The thing fundamental is that the model of the old village must be preserved in the sense that the completion of any development must leave the place as it found it, one corporate body, not having created a "Mudford Old

Town" and a "Mudford New Town." To judge by what is going on all over the country, today, it might be thought that the planner had taken a sheet of paper representing any flat field bounded by a high road, upon which he had proceeded to lay down an internal road or two, and then to line them with the twenty, or thirty or more houses, allotted to the place in question as the number needed to relieve a present congestion and to meet an ascertained demand. At best, the result is to produce two villages; one, the old one with all the attraction with which we are familiar, and equipped with church, chapel, school, post-office, shop, bus stop, and so on; the other, the new one, well-named a housing estate, a mass-produced collection of identical buildings, designed, it is true, to give shelter and home comforts conforming to modern standards, but without any of the many adjuncts needed by any community of men, women and children. Such a group can never, under any circumstances, be assimilated into the village, the essence of which is the mixture of dates, styles, materials and uses of the various structures composing it. As the sixteenth and seventeenth centuries rub shoulders with the eighteenth or nineteenth, so the doctor's house is sandwiched between the village shop and a pair of cottages, with a builder's yard beyond, adjoining, in its turn, perhaps, the village inn.

At worst, the result of the housing-estate type of planning is to produce, at the same time, two communities who never unite for purposes of mutual advantage, thus missing everything that should be gained from the addition not only of numbers to the little place, but also the advantage of a new industrial element.

THE KEYNOTE OF PLANNING

The old architects of the village worked subconsciously, perhaps, to preserve its corporate character. The removal of decayed or obsolete buildings provided sites for new ones. New growth was slow, and additions to the building area were made on its outskirts, in ones and twos, and here and there. This should be the keynote of the more intensive planning programmes of today. Without the suggestion of overcrowding, every opportunity should be taken to intersperse the new houses amongst the old. Only when the limit has been reached should the planner have resort to sites outside of the village, and then taking care to balance one side by another, so as to avoid the housing-estate effect and to secure access to the services of the village for the newcomers, with the minimum of inconvenience.

We cannot escape from having to pay the price of our position as a great industrial nation. In more primitive European states, in which there was, anyhow until recently, an organization 75 per cent., or even more, based on agriculture, the preservation of the rural scene presented no difficulty, because no one threatened it. In Britain, where some 90 per cent. of the people, today, are non-agricultural, concessions must be made and compromises contrived. These, however, need never entail the perpetuation of picturesque slums, on the one hand, or the erection of flats and sky-scrapers for country dwellers on the other.

Most of that which is planned and constructed during the next few years is going to determine the comfort and the convenience of country-dwellers for the next century. While the problems which have to be solved are clamant, they have hardly, so far, been stated. Let it never be forgotten that they are human problems, not intellectual exercises or problems for academic research. Country planning must be considered in terms not of conurbations, but of communities; not of housing estates, but of homes; not of units of population, but of Mrs. Smith and her husband and their children.



The shop front at night.

SHOP IN REGENT STREET, LONDON

DESIGNED BY BRONEK KATZ & R. VAUGHAN

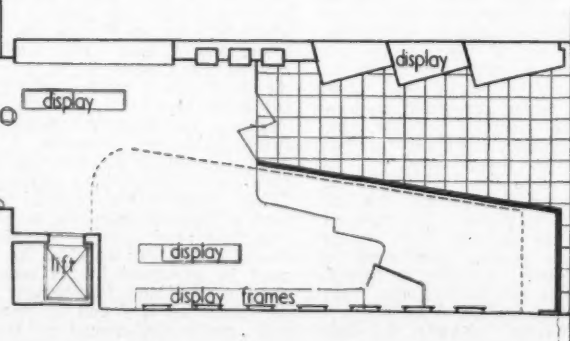


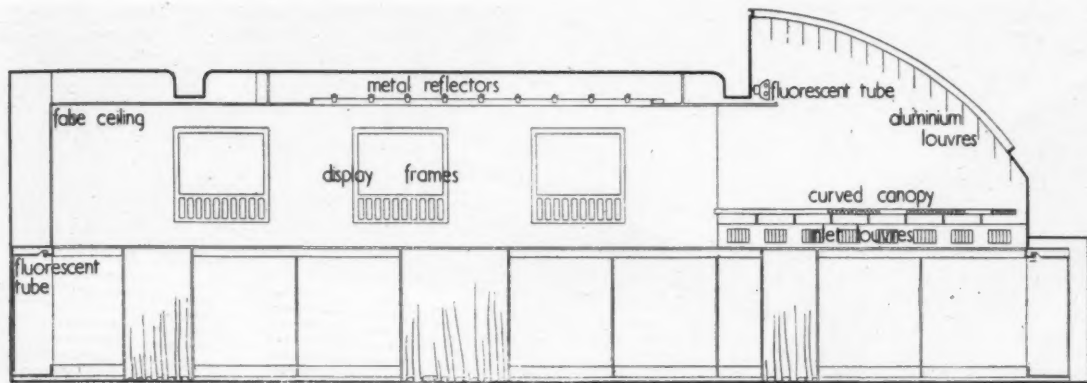
PLAN [Scale: $\frac{1}{4}'' = 1'0''$]

GENERAL.—The design for new premises for Richard shops in Regent Street won first prize in a competition assessed by Maxwell Fry. The layout of the lobby has been designed so that the front sales area merges with the window. Thus the passer-by is presented with a spacious display. The fitting rooms are behind a partition at the rear of the shop. In this main department dresses are accommodated in standard wall-hanging fixtures, or are displayed

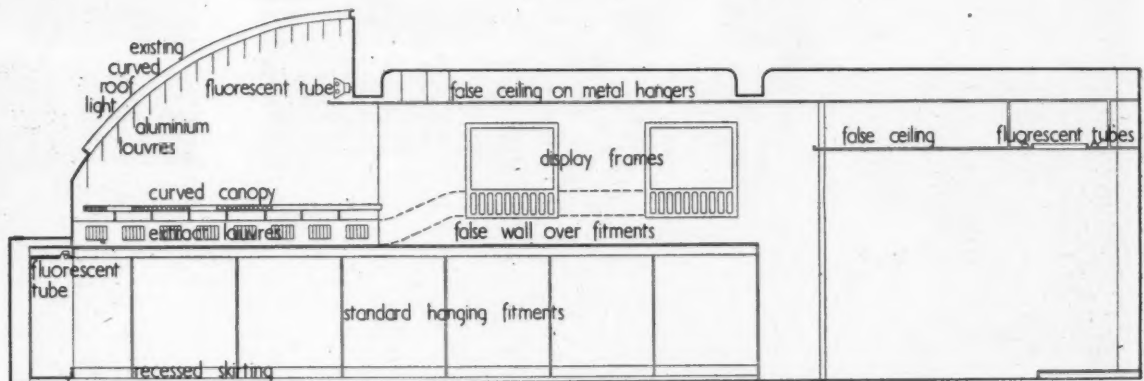
in free standing movable racks. The cash desk and wrapping table is set beside a column and has a rail, on which garments are hung before they are wrapped or taken away to the dispatch department.

CONSTRUCTION.—*Shop Front:* Metal-work, bronze; doors, frameless armoured plate; right-hand wall faced with fibrous plaster; display windows in this wall, veneered plastic board with hardwood edges; lobby floor, grey ter-





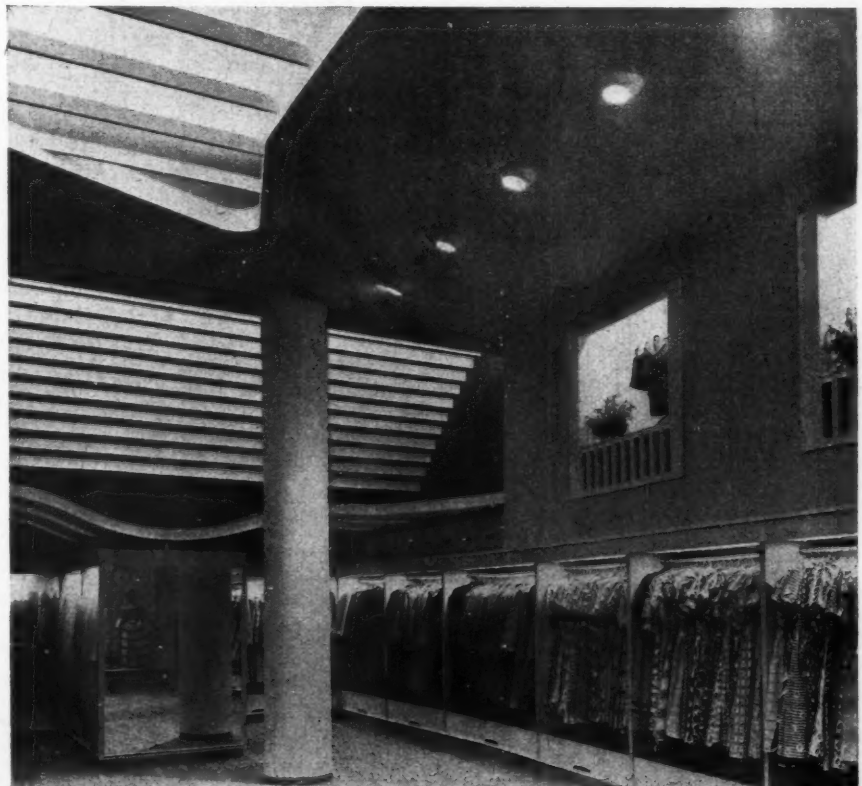
SECTION THROUGH REAR OF SHOP [Scale: 1" = 1'0"]



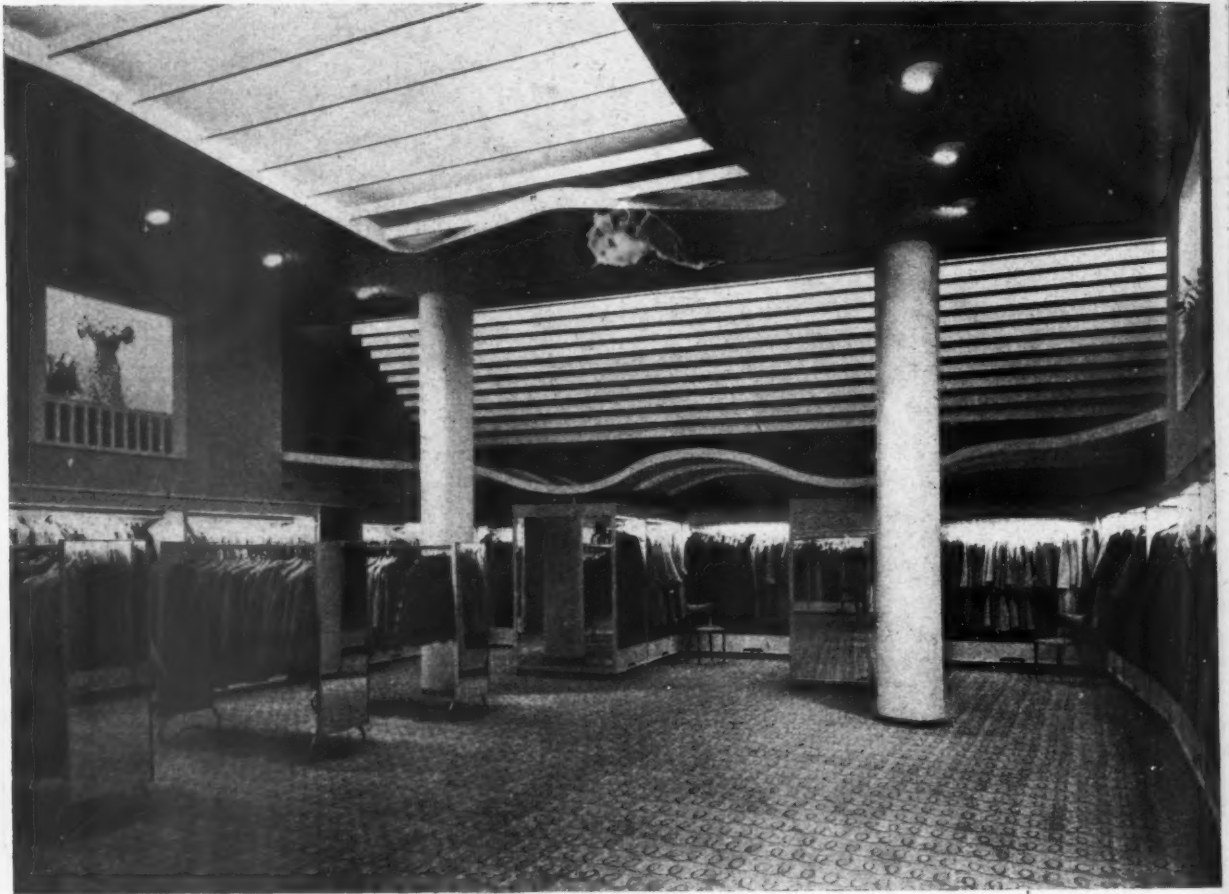
SECTION THROUGH REAR OF SHOP (looking towards the entrance)

razzo in 2-in. squares; main shop window merges with front sales area. **Rear Sales Area:** Suspended ceiling, 13 ft. 9 in. high; curved lay-light screened off by aluminium louvres; curved perforated canopy over fixtures, reinforced fibrous plaster. General colour scheme, light grey, pale yellow and dark brown accents. **Lighting:** Front of shop, fluorescent tubes concealed in continuous lighting trough above edge of lower ceiling. Display lighting, incandescent interior silvered lamps, countersunk into ceilings with specially designed attachable "eyeball" fittings. Rear sales area, irregular shaped opening illuminated with fluorescent tubes concealed in channels.

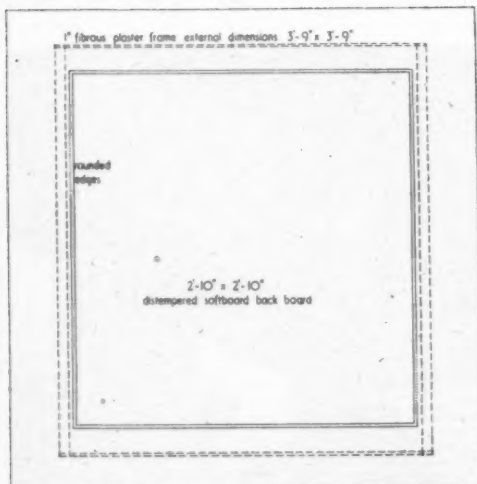
The main contractors, were Hickman, Ltd. For list of sub-contractors, see page 212.



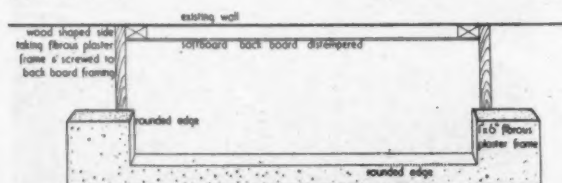
The rear sales area, showing the aluminium louvres which conceal a laylight.



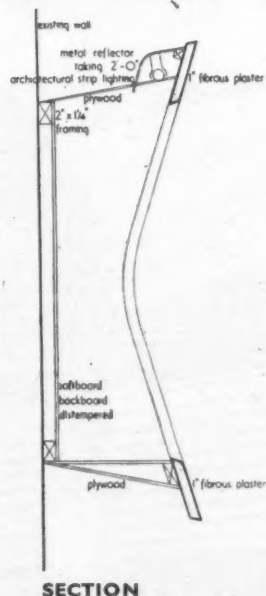
The rear sales area.



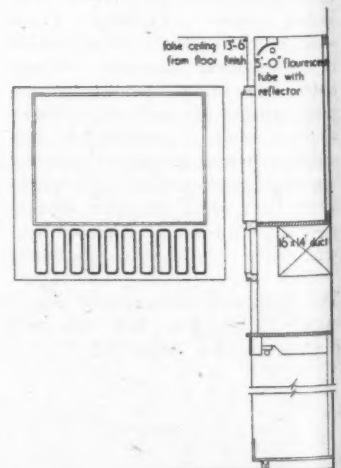
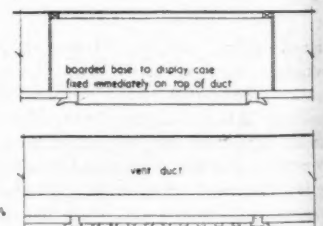
ELEVATION



PLAN OF DISPLAY FRAMES [Scale: $\frac{1}{4}$ full size]



SECTION



PLANS, SECTION AND ELEVATION OF DISPLAY CASES [Scale: $\frac{1}{4}$ = 1'0"]

SHOP IN REGENT STREET, LONDON



Four display units at the Fabrics Exhibition. Below, units on view at a "Design and Wallpaper" Exhibition.

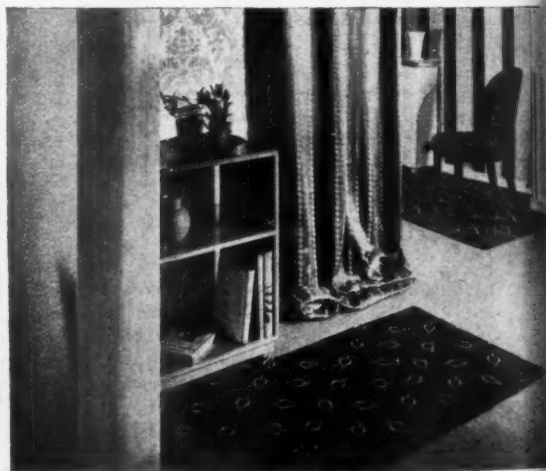
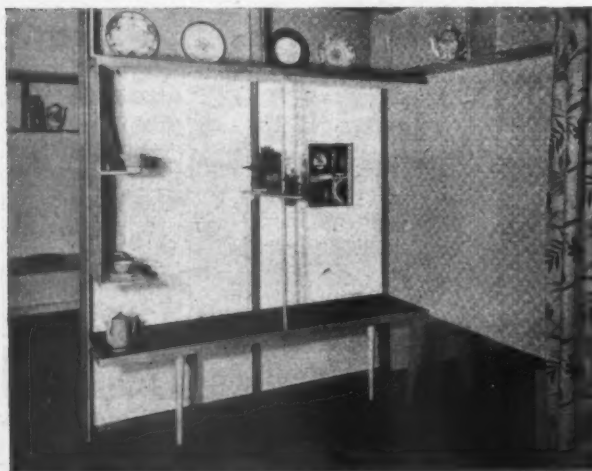
DISPLAY UNITS

FOR THE COTTON BOARD

DESIGNED BY
ROGER NICHOLSON &
ROBERT NICHOLSON

GENERAL. — Most exhibition stands are temporary affairs. They are usually expensive and when they are dismantled the materials used in their construction are wasted. The new series of adapt-

able exhibition units designed for the Cotton Board may be assembled in many different ways. Two types of screen are used, each being 6 ft. by 3 ft. in size. They can be used singly or on legs:



play
the
Ex-
Be-
on
De-
all-
Ex-
on.

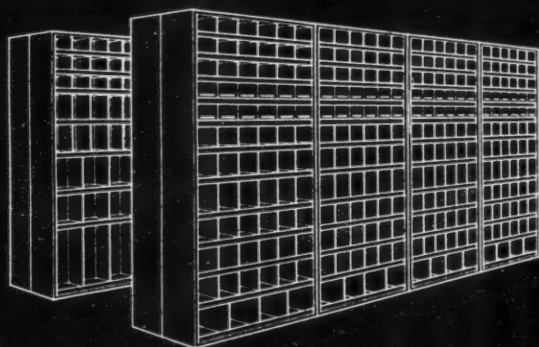
D

for
em-
Two
each
they
ega-

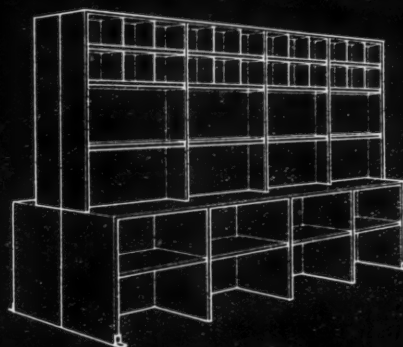
FURNITURE | STEEL | SHELVING

42.C2

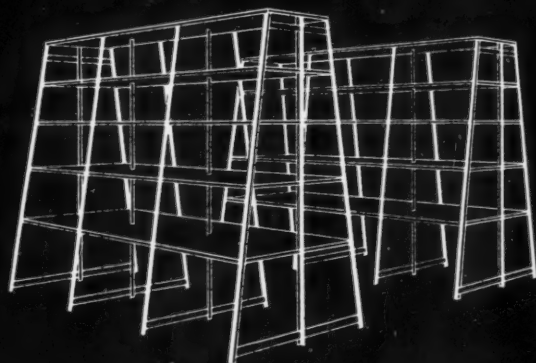
The Architects' Journal Library of Information Sheets 199. Editor: Cotterell Butler, A.R.I.B.A.



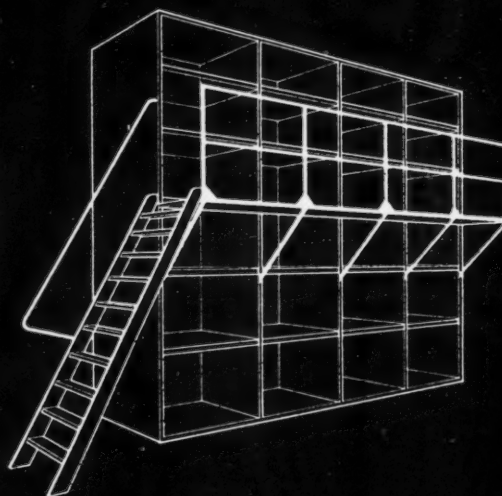
ADJUSTABLE STEEL STORAGE BINS.



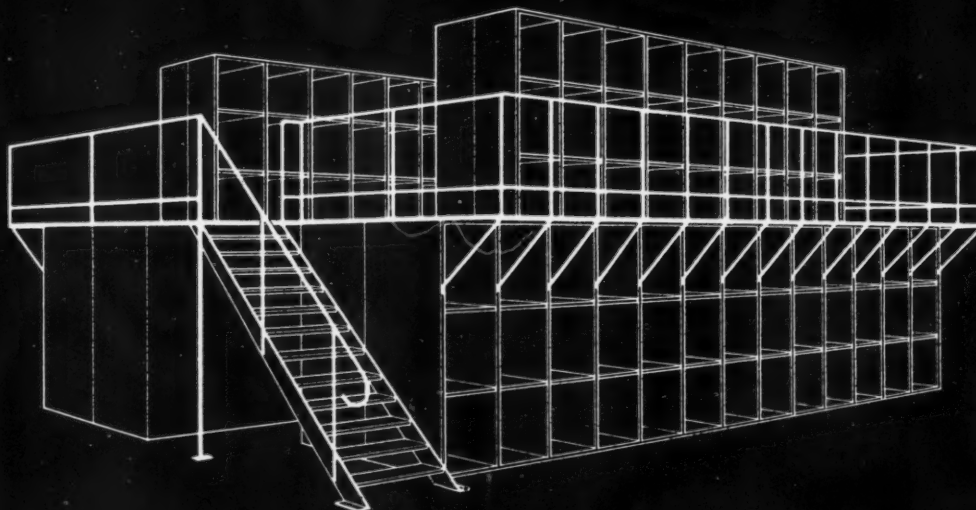
STORAGE BINS MOUNTED ON HEAVY SHELVING.



OPEN TYPE STEEL HEAVY SHELVING
WITH RAKED SIDES.



SIMPLE TIER ARRANGEMENT WITH ACCESS
LADDER AND GALLERY.



MULTIPLE TIER ARRANGEMENT WITH ACCESS
STAIRCASE AND GALLERY.

42.C2 TYPICAL ARRANGEMENTS OF STEEL STORAGE BINS, RACKS AND SHELVING

This Sheet illustrates typical arrangements of steel storage bins, racks and shelving. Details and characteristic dimensions of individual units are given on Sheet 42.C1. With the exception of the adjustable storage bins all equipment is designed to meet specific requirements.

Further Products

Tyre and bar racks, lock-up stores and works offices, lavatory partitions, clothes lockers, transporter platforms.

This Series of Sheets deals with tanks, cisterns, bins, bunkers, cycle-racks, non-ferrous metal mouldings,

perforated and embossed metals, woven wire screens, steel partitions and furniture, railings, fencing, gates, manhole covers, rainwater goods and ventilators.

Compiled from information supplied by :

G. A. Harvey & Co. (London) Ltd.

Head Office : Greenwich Metal Works, London, S.E.7.

Telephone : Greenwich 3232 (20 lines).

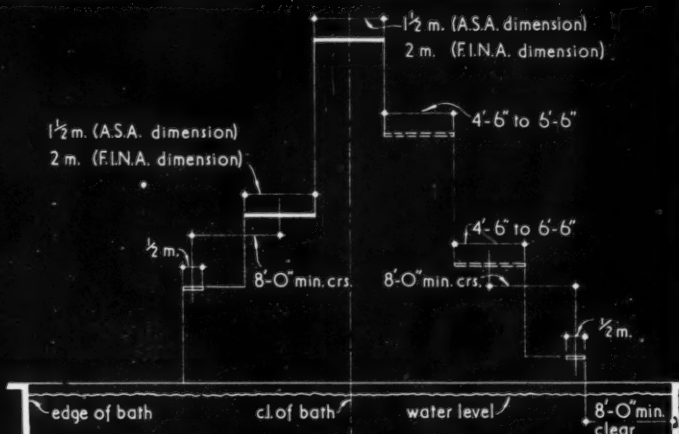
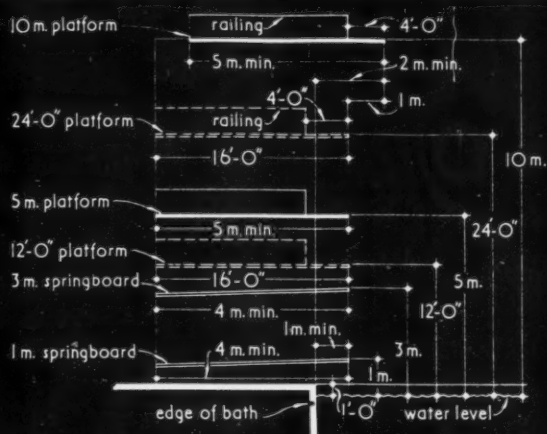
Telegrams : Cheaper, Wol, London.

London Office : 58, Victoria Street, S.W.1.

Telephone : Victoria 4963.

DESIGN DATA | SWIMMING BATHS**4.L10**

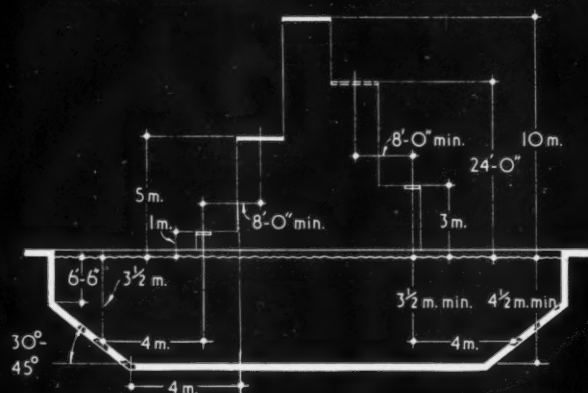
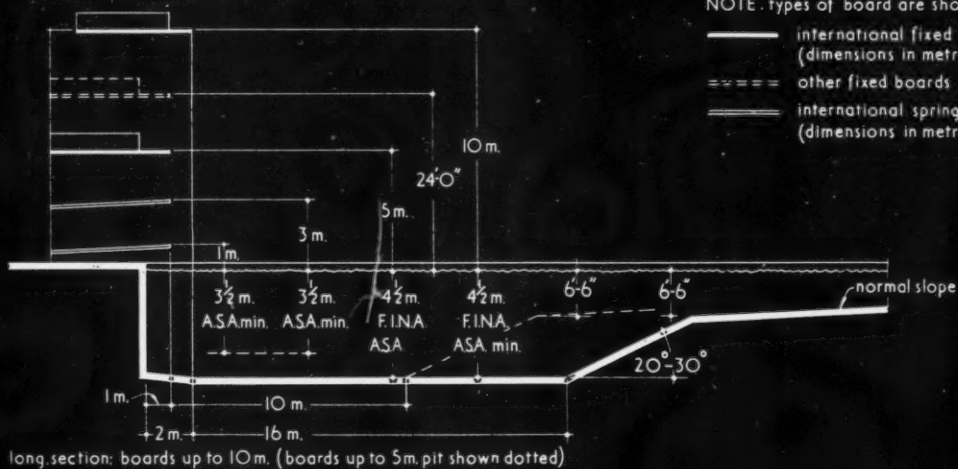
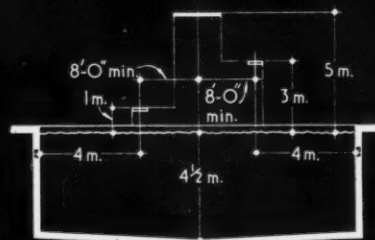
The Architects' Journal Library of Information Sheets 200. Editor: Cotterell Butler, A.R.I.B.A.



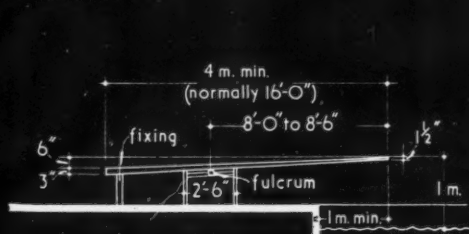
DIVING PLATFORMS, side and front elevation

NOTE: types of board are shown as follows:

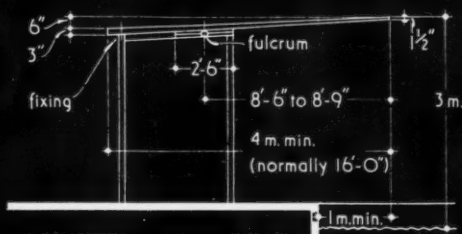
- international fixed boards (dimensions in metres)
- ==== other fixed boards
- ===== international springboards (dimensions in metres)

cross section of wide bath: boards up to 10 m.
DIVING PITS.

cross section of narrow bath: boards up to 5 m.



SPRINGBOARDS: 1 AND 3 METRE TYPES.



4.L10 SWIMMING BATHS : DIVING EQUIPMENT

This Sheet is the first of a group setting out design data for swimming baths and deals with diving equipment.

Information related to diving equipment applies to both covered and open-air swimming baths. It is however, not customary to use boards higher than 5 metres in a covered bath.

There are two kinds of diving, i.e., springboard diving and fixed board diving; boards up to 10 ft. above water level are made to spring while those more than 10 ft. above water level are fixed.

In swimming baths used for contests both springboards and fixed boards should comply with official regulations. There are two sets of regulations, those issued by the International Amateur Swimming Federation and those issued by the Amateur Swimming Association of Great Britain.

Regulation Springboards

International Amateur Swimming Federation (F.I.N.A.): Springboards shall be 1 metre and 3 metres above the water level, at least 4 metres long and $\frac{1}{2}$ metre wide, and covered along the whole length with rough coconut matting. The springboards for Olympic Games, Continental Championships and Inter-Nation contests shall be provided with movable fulcrums. The front of each board shall project at least 1 metre beyond the edge of the bath. The depth of the water shall be at least 3 metres, 1 metre back, 10 metres in front and 4 metres each side from a vertical dropped from the centre of the front end of the board.

Amateur Swimming Association (A.S.A.): The springboards shall be at 1 and 3 metres above the water level, and of International Type (i.e., as above). The fulcrum shall be readily adjustable by the diver. The depth of water shall not be less than 3 metres but in baths constructed after January 1, 1947, the depth shall be not less than $3\frac{1}{2}$ metres.

Springboard diving championships are to be made from the 3-metre springboard.

(The A.S.A. conducts also a 1-metre springboard diving championship contest where all the above regulations are applicable except that the minimum depth of water shall be 8 ft. 6 in.)

Regulation Fixed Boards

F.I.N.A.: The platforms must not move, shall be at least 5 metres long and 2 metres wide, and covered with coconut matting. The front of the 10-metre platform must project at least 2 metres beyond the edge of the bath and 1 metre beyond the platform immediately underneath, which must project at least 1 metre beyond the edge of the bath. The backs and sides must be surrounded by a handrail and each level must be accessible by stairs, not ladders. The height of the platforms must be 5 and 10 metres, variations of 10 per cent. being permissible. The depth of the water must be at least $4\frac{1}{2}$ metres, 2 metres back and 16 metres in front from a vertical dropped from the front of the 10 metre platform and 4 metres each side from verticals dropped from the outside edges of the 10 and 5-metre platforms.

A.S.A.: Fixed platforms must be rigid, be at least 5 metres long, $1\frac{1}{2}$ metres wide, and covered with coconut matting. The front of the 10 metre board must project at least 2 metres beyond the edge of the bath, and 1 metre beyond the 5-metre platform, which latter shall project at least 1 metre beyond the edge of the bath. Ten per cent variation of these heights shall be permissible. The depth of water must not be less than $4\frac{1}{2}$ metres. Men's high diving championships are all to be made from a 10-metre platform; women's from either a 5- or 10-metre platform.

Other Boards

Apart from these official regulations other boards, both fixed and sprung, may be provided at various other heights for practice and teaching. Such heights may be:—

For springboards—3 ft. and 9 ft.

For fixed boards—12 ft., 18 ft. and 24 ft.

The length of boards, both fixed and sprung, is normally 16 ft. but 1-metre international type boards are sometimes only 14 ft. long. The length of 3 ft. and 9 ft. springboards may be between 12 ft. and 14 ft. The width of fixed boards may vary from 4 ft. 6 in. to 6 ft. 6 in.

In cases where diving stages or other diving facilities do not comply with official regulations (e.g., school swimming baths or smaller pools) certain general principles should be observed.

1. The height of the diving board should never exceed twice the depth of water, taking 8 ft. 6 in. as minimum depth and 16 ft. as maximum. For sea water a slight reduction in safe depths is possible.

2. Boards should not be placed nearer than 8 ft. centre to centre, and springboards should not be less than 8 ft. clear from the side of the bath.

3. No board should project less than 3 ft. over the water or over another board lower down.

4. Springboards should not be placed under diving stages, nor should the boards of a diving stage be placed vertically one immediately above the other.

Design of Diving Pit

The greatest depth should be at a point immediately below the end of that board which projects furthest over the water. This depth should be continued backwards from the diving end to suit the various diving heights, and forward and sideways in accordance with the height and character of the various boards. The dimensions of pits in accordance with international regulations are given above.

According to K. M. B. Cross (in *Modern Public Baths*) the entry into the water may be almost vertically under the end of the diving board, or it may be about:—

15 ft. out in the case of a 1 or 3-metre springboard;

20 ft. out in the case of a 5-metre fixed board;

30 ft. out in the case of a 10-metre fixed board; the line of flight being continued under water for a distance of 15 ft. to 20 ft.

The water depth should be continued backward from the diving end of the board for a distance of at least 3 ft. 6 in. according to the height of the board and should be continued forward thus:—

15 ft. to 20 ft. where springboards only are provided;

20 ft. to 30 ft. where a 5-metre fixed board is provided;

40 ft. to 50 ft. where a 10-metre fixed board is provided.

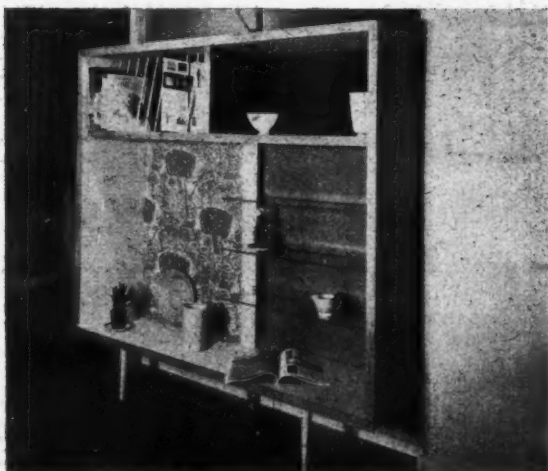
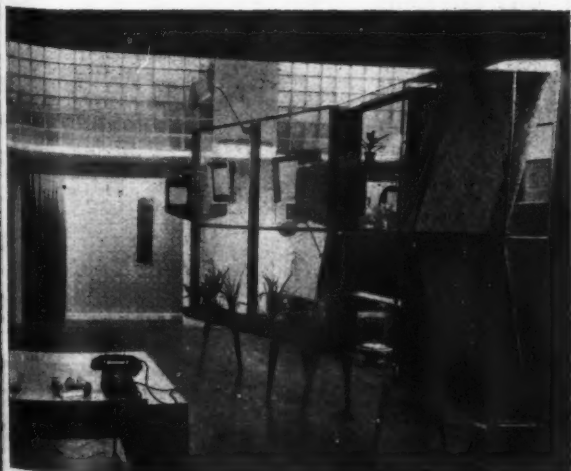
Copyright Reserved.

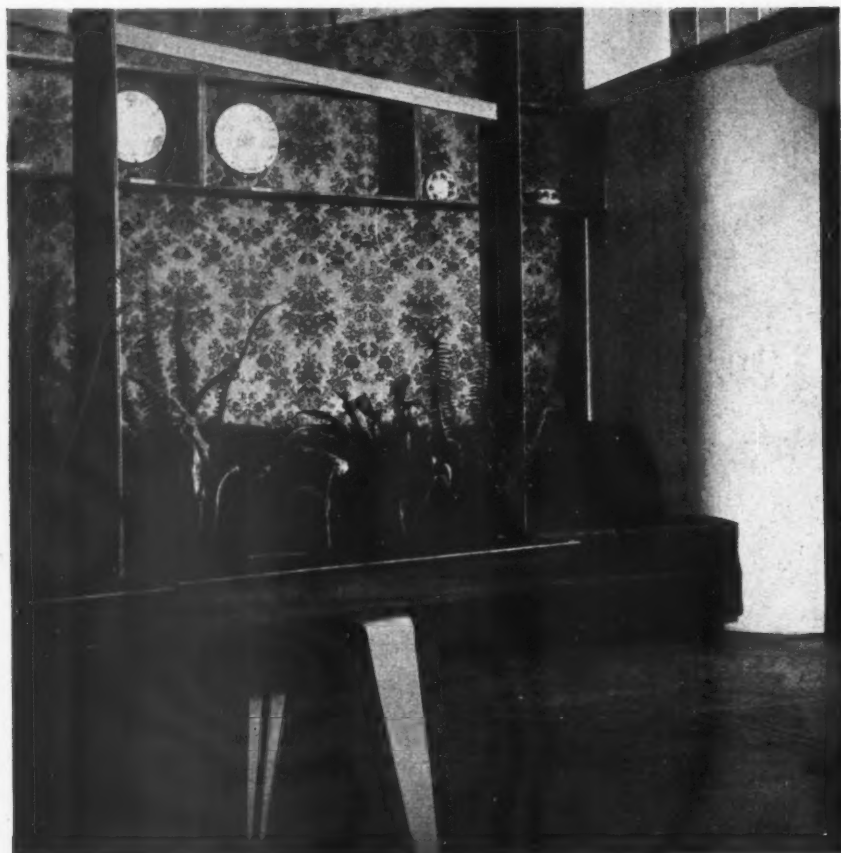
The Architects' Journal Library of Information Sheets.

Editor: Cotterell Butler, A.R.I.B.A.



Right, and below, units
in use at a "Design and
Wallpaper" Exhibition.





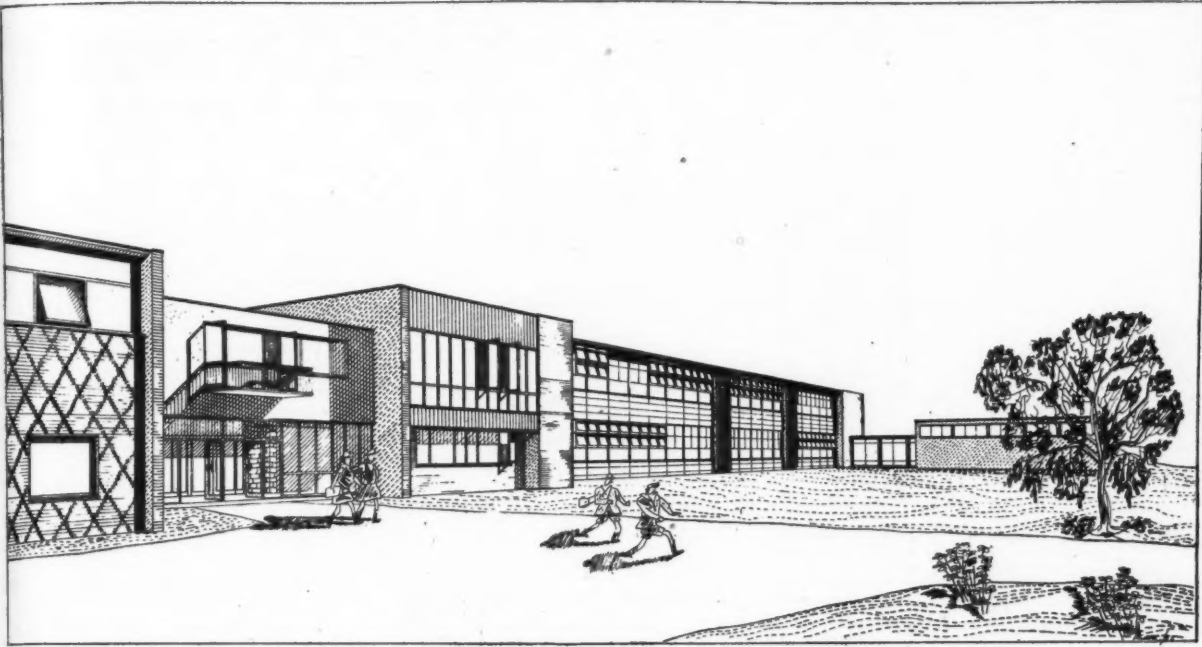
Left, a detail of one of the screens, mounted on legs and containing a flower box. Below, left, the 6-ft. by 3-ft. screens joined vertically and horizontally to form a display unit for an exhibition of 19th century fabrics.



joined to form larger screens; or grouped to form rooms, angles, corridors, verandahs, doorways or ceilings. They can be used horizontally or vertically and may also be employed to form tables or slanting display cabinets. Within the single unit the screen can contain either opaque or transparent surfaces and can take a range of display material from 15 ft. lengths of fabric to a small square of dress material. This system of adaptable exhibitions also makes use of a series of secondary units, including sheets of various materials, such as wood fibre board or glass; open boxes; cages of aluminium tube to take glass shelves; magazine racks, which can be used as tables or shelves; plant boxes; and miscellaneous display units. These are all unit, half-unit, or quarter-unit size.

The initial contractors for the units were A. Davies (Shopfitters), Ltd., and the local contractors, Arthur Wardle (Builders), Ltd.

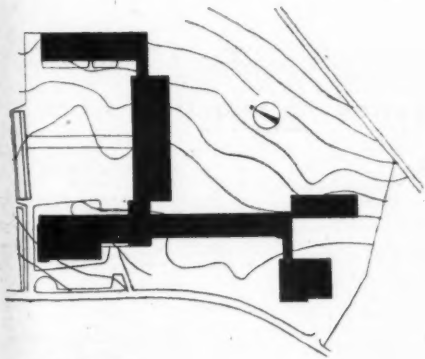
**DISPLAY UNITS
DESIGNED BY
ROGER NICHOLSON
AND ROBERT
NICHOLSON**



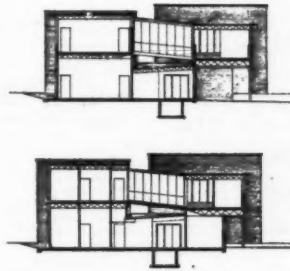
The main entrance to the proposed school.

SCHOOL AT WHITSTABLE

DESIGNED BY F. R. S. YORKE, E. ROSENBERG AND C. S. MARDALL
IN COLLABORATION WITH S. H. LOWETH, COUNTY ARCHITECT, KENT



SITE PLAN
[Scale 1 : 5000]



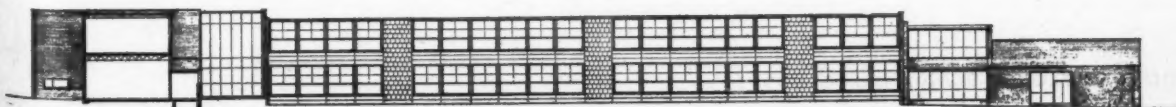
CROSS SECTIONS THROUGH
CLASSROOM BLOCKS

GENERAL.—The school is for 450 boys and girls but will later be converted for boys only. The site is high and open, with extensive views in all directions. The two main teaching blocks, one containing normal classrooms, the other science rooms, domestic science, needlework, etc., have a light steel frame based on an 8 ft. 3 in. bay with external cladding in precast slabs finished with white spar, clipped direct to stanchions. Details at eaves and around windows are standardised. First floor and roof are in precast

[Text continued on page 207]

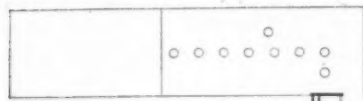


NORTH ELEVATION OF CLASSROOM BLOCK

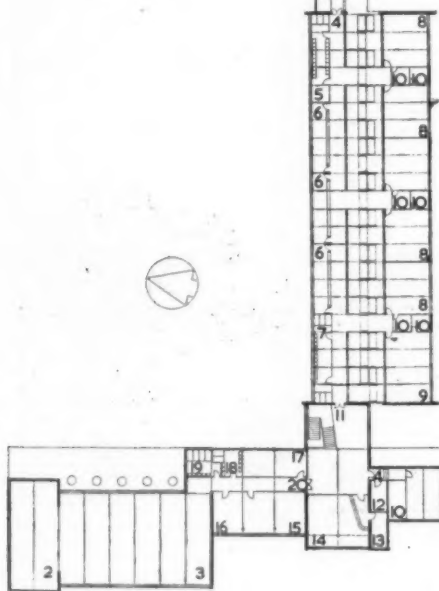


SOUTH ELEVATION OF CLASSROOM BLOCK

[Scale : $\frac{1}{4}$ " = 1'0"]



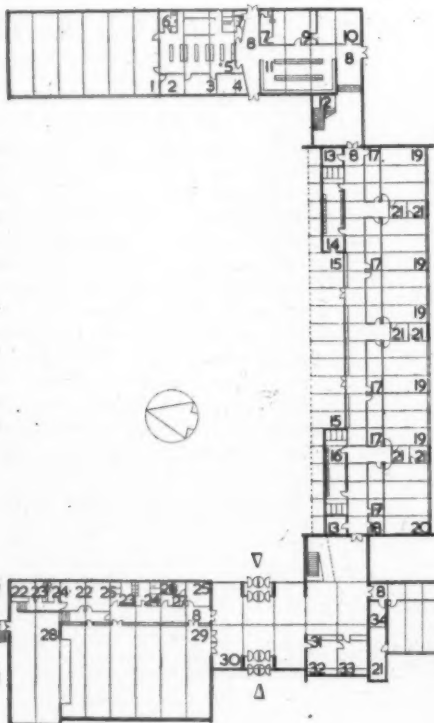
WEST ELEVATION OF GYMNASIUM



FIRST FLOOR PLAN

KEY TO PLAN:

- | | |
|-----------------------------|--------------------------|
| 1. Staircase | 12. School Store |
| 2. Stage—Upper Part | 13. Music Store |
| 3. Assembly Hall—Upper Part | 14. Music Room |
| 4. Corridor | 15. Staff Room |
| 5. Lavatory—Boys | 16. Staff Work Room |
| 6. Coats | 17. Divisions |
| 7. Lavatory—Girls | 18. Staff Lavatory—Men |
| 8. Classroom | 19. Staff Lavatory—Women |
| 9. History Room | 20. Corridor and Gallery |
| 10. Store | 21. Library |
| 11. Landing | 22. Art Room |
| | 23. Light Crafts |



GROUND FLOOR PLAN

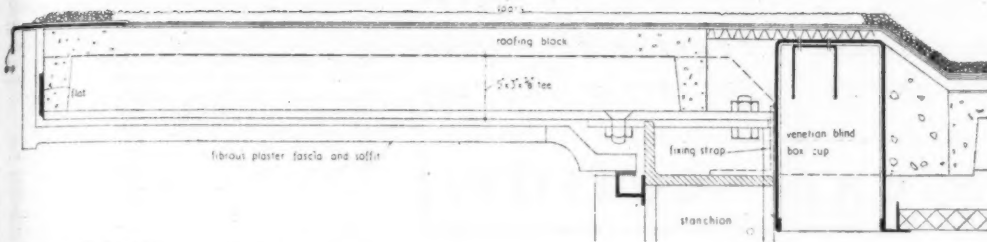
[Scale: 1/16" = 1'0"]



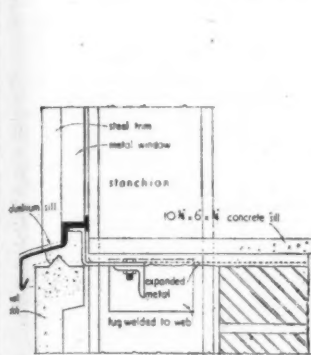
WEST ELEVATION OF WORKSHOP BLOCK

KEY TO PLAN:

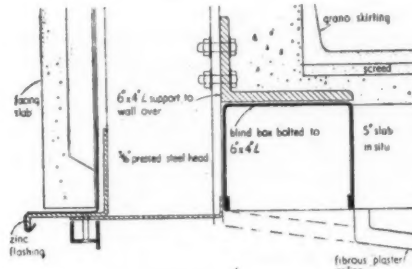
- | | | |
|---------------------------|-------------------------------------|---------------------------|
| 1. Gym | 18. Drying Room | 35. Science Lecture |
| 2. Gym Store | 19. Classroom | 36. General Science |
| 3. Towel Laundry | 20. Geography Room | 37. Needlework |
| 4. Games Store | 21. Store | 38. Domestic Science |
| 5. Changing and Showers | 22. Green Room | 39. Dry Store |
| 6. Gym Instructor | 23. Lavatory—Men | 40. Larder |
| 7. Lavatory | 24. Lavatory—Women | 41. Dining Room |
| 8. Corridor | 25. Chair Store | 42. Kitchen Staff |
| 9. Medical Inspection | 26. Lavatory—Secretary | 43. Office |
| 10. Changing and Division | 27. Lavatory—Head | 44. Veg. Store |
| 11. Lockers | 28. Stage | 45. Kitchen |
| 12. Staircase | 29. Assembly Hall | 46. Wash Up |
| 13. Cleaner | 30. Entrance Hall | 47. Pot Wash |
| 14. Lavatory—Boys | 31. Book Store | 48. Garden Store and Bins |
| 15. Covered Play Area | 32. Secretary | 49. Woodwork |
| 16. Lavatory—Girls | 33. Head | 50. Instructor |
| 17. Coats | 34. Meters and Electrical Equipment | 51. Drawing Office |
| | | 52. Metalwork |



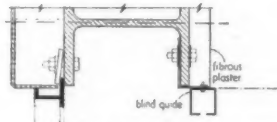
SECTION AT A [Scale: $\frac{1}{2}$ full size]



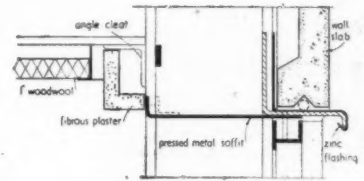
SECTION AT B



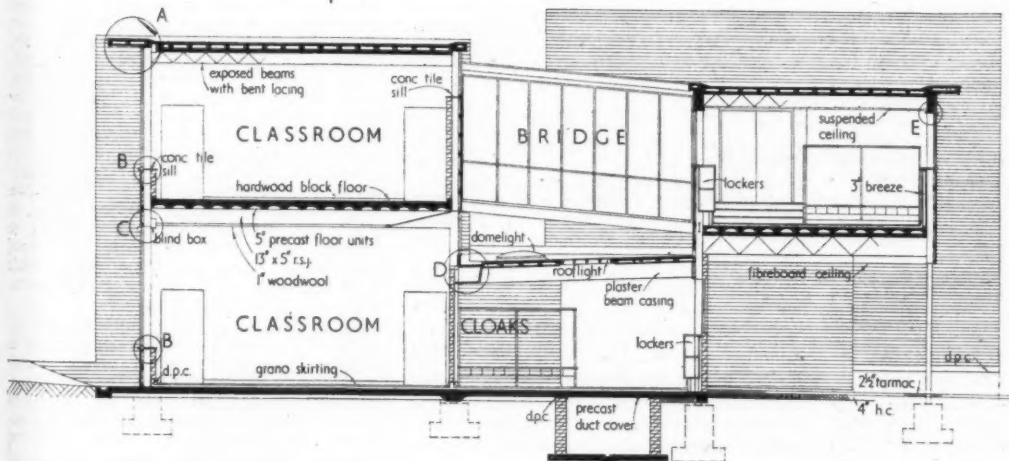
SECTION AT C



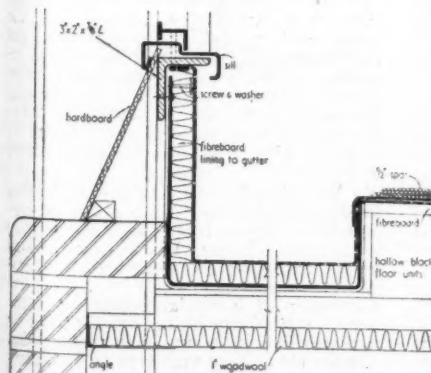
PLAN AT C



SECTION AT E



SECTION OF CLASSROOM BLOCK [Scale: $\frac{1}{32}'' = 1'0''$]



SECTION AT D [Scale: $\frac{1}{2}$ full size]

[Text continued from page 205]

units. The classroom block is designed to allow classrooms on two storeys to have clerestory lighting and through-ventilation to lavatories. The other parts of the school are joined to the standardised blocks by expansion joints and are free from restrictions of grid planning. Entrance hall and staircase are in reinforced concrete. Assembly hall, dining room and gymnasium in brick and steel, with local stocks, rendering, and vertical red cedar boarding externally.

Assembly hall and dining room are spanned by light, open lattice beams with bent lacing, at 12 ft. centres, with purlins carrying aluminium decking. Heating is by hot water radiators. The boiler flue, and tank room are incorporated together in a separate free-standing structure. Floor finishes in classrooms are in West African hardwood blocks, in corridors synthetic tiles, in lavatories concrete tiles. All classrooms have suspended woodwool ceilings.

BY F. R. S. YORKE, E. ROSENBERG & C. S. MARDALL

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

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

INFORMATION CENTRE

1 SOCIOLOGY. 2 PLANNING: General. 3 PLANNING: Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING: Public Utilities. 6 PLANNING: Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN: General. 10 DESIGN: Building Types. 11 MATERIALS: General. 12 MATERIALS: Metal. 13 MATERIALS: Timber. 14 MATERIALS: Concrete. 15 MATERIALS: Applied Finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: Theory. 19 CONSTRUCTION: Details. 20 CONSTRUCTION: Complete Structures. 21 CONSTRUCTION: Miscellaneous. 22 SOUND INSULATION-ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHTING. 25 WATER SUPPLY, SANITATION. 26 SERVICES EQUIPMENT: Miscellaneous. 27 FURNITURE, FITTINGS. 28 MISCELLANEOUS.

2.94 planning: general T AND CP ACT, 1947

Planning and the Law. William Wood. (Percival Marshall & Co. Ltd. 21s.)

An "interpretation" of the 1947 Act by an official in MOTCP. 288 pp. Index.

This book is not altogether successful. It sets out to be an explanation of the 1947 Act and its attendant Regulations for everyone, from student to professional man, concerned in its operation, but it cannot be said that the language of the Parliamentary draftsman when expanded by the civil servant always produces a clear and lucid script. Its greatest value will be to planning officials themselves. It is solid and detailed, and while it is, of course, unofficial, it does provide an account of what, in fact, an official in the Ministry thinks the Act means, what it is intended to do, and how those concerned in interpreting and administering it will go about their work. Incidentally, the title is quite misleading.

2.95 planning: general COMPULSORY LAND PURCHASE

The Compulsory Purchase of Land Regulations, 1949. Statutory Instruments 1949, No. 507, March 22, 1949. Ministry of Health. (HMSO, 1949. 4d.)

Regulations superseding and revising *Compulsory Purchase of Land Regulations, 1946*. Revisions due to passing of Town and Country Planning Act, 1947. Additional

purchase order forms now prescribed are for use where expedited completion under Section 39 of 1947 Act is sought. Revisions of existing forms to meet certain provisions of 1947 Act and to allow for experience gained in the working of the *Acquisition of Land (Authorization Procedure) Act, 1946*. Present Regulations give details of ten forms in connection with compulsory purchase of land.

2.96 planning: general DEVELOPMENT PLAN MAPS

Town and Country Planning (Development Plans) Regulations, 1948: Circular No. 59. Circular No. 70, June 17, 1949. Ministry of Town and Country Planning. (HMSO, 1949. 1d.)

Circular containing an appendix to MOTCP Circular No. 59 (see 2.74:31.3.49) consisting of minor amendments to notations for development plan maps as given in that Circular. Amended notations correspond with those covered by MOTCP Circular No. 63 for survey maps (see 2.92:18.8.49).

3.19 planning: regional and national CENTRAL AND S.E. SCOTLAND

A Regional Survey and Plan for Central and South-East Scotland. Sir Frank C. Mears. (Central and South-East Scotland Regional Planning Advisory Committee, Edinburgh. 1949. 50s.)

Comprehensive and important regional survey and plan presented in five sections under the headings of: Regional Survey; Communications; The Forth Basin; The Tweed Basin; and Recreation and Amenity. Appendices dealing with soil survey, Scottish mining communities, and employment structure of region. Fully illustrated with many maps, diagrams, tables and photographs. Index.

The main aspects dealt with in this report concern future developments in the area of the Forth Basin in connection with the projected extension of coal mining, and in the Tweed Basin, where the depopulation of the countryside presents a most serious problem.

The regional survey, stating the findings in a very clear and concise manner, begins with a description of the area's geographical setting. For planning purposes, the region under consideration is defined as extending about 100 miles from Loch Lomond in the west to Berwick in the east, and 90 miles from the estuary of the Tay in the north to Liddesdale in the south. It covers about 3,600 square miles and has a population which, in 1938, was estimated at 1,250,000, of whom nearly 470,000 lived in Edinburgh. This region includes the eastern half of the industrial belt of central Scotland and comprises the basins of the two main river systems of Forth and Tweed. The pronounced differentiation of the physical character of these two river basins has brought about contrasts in historical and

economical development and in the density of population. The maps attached to this part of the survey show the area's administrative boundaries, land forms and river basins, the geological structure, and the distribution of farmland, economic coalfields and population densities.

In the following chapter an outline of the region's historical background is given showing that this can be divided into two distinct periods, the first being "that during which man was dependent on his own strength, eked out by that of the horse and ox and by elementary control of wind and water power"; the second period representing "the age of coal and steam associated with the large-scale use of metals, which made possible the enormous increase in productivity based on power-driven machines." While during the first period the population increase was small and people lived scattered in relatively small communities, such as the farm-town, the hamlet and the burgh, with its function of a market centre, the second period showed a rapid population increase. It also brought with it the concentration of production in large mills and factories, the intensive exploitation of the coalfields, dislocation of the old "rural-burghal" economy, and migration of surplus population into the towns or overseas. The distribution of industry resulting from these developments is fully described and illustrated.

The region's population structure is the next major aspect investigated, drawing attention to the serious problem of population trends and the maldistribution of the people between town and countryside. It is stated that the chief causes for the trouble lie in the long-continued decline of fertility and in internal and external migration. The effects of migration on the total population, and age-group and sex distribution are examined in detail, the conclusions being summed up in the chapter's final paragraph, which states that although statistics suggest that "failing immigration, the people in the towns may be less able to maintain their numbers, it is evident that the measures most urgently needed are those designed to remedy the degree of depopulation already reached in many parts of the countryside. Such measures must be directed, first, to check the outward drift, and, secondly, to provide first-aid in the form of 'blood transfusion' from the urban areas while their people are yet numerous enough to sustain a small withdrawal . . ."

The population question, coupled with the draw of the towns, is again emphasized in the next part of the survey, which is concerned with the use and quality of the land, tracing developments from the eighteenth century onwards. It is shown that depopulation, the one-industry basis of rural activities, lack of opportunity, the loss of soil fertility, and even land dereliction comprise the main problems to be tackled.

In the concluding chapter of the survey, referring to past trends and future plans, the region's existing cleavage between town and countryside and the magnitude of the resulting economic and administrative problems are stressed. It is stated that planning proposals must aim at achieving interdependence between town and country by means of a better balance of population and industry.

In the industrial areas the urban planning problem arises largely as a result of concentration and specialization in one-industry towns and villages which have created serious conditions of ill-balance in the employment structure. There must be a redistribution of industrial population in the central belt of the region which "must be regulated in such a way that communities, whether old or new, may grow in an orderly way. . . . This growth . . . must be based on more than paper layout plans, however elegant and persuasive. Social factors must first be considered, including proximity of other communities, variety of occupation,

once more the
ARCHITECT SPECIFIED



THE
Queen Elizabeth
Hospital
BIRMINGHAM

ARCHITECTS:
Lanchester & Lodge
F.F.R.I.B.A.



Hydraulically pressed "Jaconite" Terrazzo
floor and wall tiles,

Precast Terrazzo partitions,

In situ Terrazzo wall linings, treads and risers
laid throughout this contract.

Jaconello LTD
ASSOCIATED WITH
"Doloment"
REG TRADE MARK

Head Office:

147, VICTORIA STREET
LONDON, S.W.1

Tel. Victoria 3043 (6 lines)

Branches at:

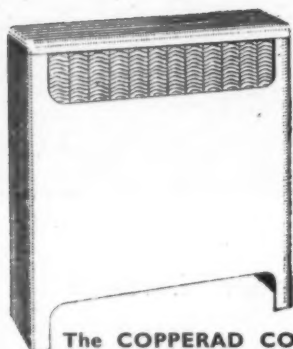
BIRMINGHAM
238-9, Monument Road,
Edgbaston.
Tel. Edgbaston 1178.

CARDIFF
High Street Chambers,
17, High Street.
Tel. Cardiff 2491.

MANCHESTER
10, Corporation Street.
Tel. Deansgate 5971.

READING
571-3, Basingstoke Road.
Tel. Reading 81560.

But for
safe warmth
schools need
Copperad !



The COPPERAD CONVECTOR

In various sizes for School, Office or Domestic use. Three types—floor-mounted, wall-mounted or recessed.



The COPPERAD UNIT HEATER
for clothes drying
and large space heating
as in Assembly
Halls and Canteens.



LONDON OFFICE:

87 High Holborn, London, W.C.1
Telephone: Holborn 0498/9

COPPERAD LTD.
HEAD OFFICE AND WORKS:
Colnbrook, Bucks.
Telephone: Colnbrook 203/4/5
Telegrams: Copperad, Colnbrook

NORTHERN AND SCOTTISH OFFICE:
30 Rutland Square, Edinburgh
Telephone: Edinburgh 24067

Representatives at BELFAST, CARDIFF, DUBLIN, LEEDS, MANCHESTER, NOTTINGHAM AND WOLVERHAMPTON



For Schools the Copperad Convector gives all the heating advantages you require :

Complete safety for children. With either steam or hot water, cabinet temperature is low and CANNOT HARM.

Ventilation. Cabinets can be arranged to provide heat and ventilation.

Recessed. The element can be completely recessed and the casing become a flush panel.

Air circulation. Convection heating is invigorating and healthy.

Prompt delivery. May we send you photographs and technical data ?

A

Copperad
product

availability of social, cultural and health services and opportunities for recreation." Resulting from these considerations and taking account of the fact that the great majority of good town sites are already occupied, that untidy expansion by means of ribbon building or direct coalescence must be avoided, and that, lastly, many existing burghs and large villages do not lend themselves to adaptation to modern needs for various given reasons, the following very interesting and important suggestion is put forward: "... it is submitted that the New Towns Act be applied to meet Scottish conditions in such a way as to promote the well-being of groups of communities. Under this scheme, each new town of moderate size would be linked with one or more existing settlements, so that the whole would embody a total population large enough to make possible the economic provision of social and industrial facilities. . . . Such groups would contain a total of 20,000 to 30,000 people, with, in addition, those living in a number of villages in the neighbouring countryside, who would benefit, too, through the proximity of an enlarged market for their produce. Existing small burghs and large villages frequently form loosely knit groups which may be related in the manner outlined above without losing their individuality. The aim is to create 'constellations', in which each member maintains its characteristic way of life, as opposed to the conception of a 'sun' and its dependent 'satellites' with the sun permanently dominating the scene."

Problems common to the rural areas in both the Forth and Tweed Basins are largely based on the process of depopulation which is affecting the whole region, except for Edinburgh and those districts where mining and industry are active. The reasons for this depopulation trend are set out, followed by broad redevelopment proposals as a conclusion to the survey.

The remaining sections of the report are devoted to detailed planning proposals. A study of communications comprises an analysis of the existing and future main-road pattern and a statement on traffic and transport problems in relation to ribbon building, public transport in rural areas, ports, railways, and airfields.

The problems to be solved in both the Forth and Tweed Basins are discussed in great details in the two subsequent sections. Of particular interest are the proposals concerned with the creation of "constellations" in connection with areas of expanding coal production, and the extensive rural redevelopment proposals.

The last section of the report deals with recreational facilities and amenities stressing the need for bridging the gap between townsman and countryman and for achieving "a new understanding, on the part of citizen and Government alike, of the lasting values which are latent in our countryside as a whole."

Finally, there are three informative appendices comprising an account of a reconnaissance soil survey for a defined area; a summary of the Social Survey Report on *Scottish Mining Communities* published in 1946; and, lastly, a chart showing the distribution of employment in the main industries arranged under counties.

In analysing the problems of the region the author has provided an admirable guide to future development possibilities and shown an approach to planning which goes far beyond administrative limits and is based on a deep understanding of the essential social problems involved.

17.60 construction: general

PRE-STRESSED CONCRETE

Pre-stressed Concrete. Proceedings of the conference held at the Institution, February,

1949. (The Institution of Civil Engineers, 1949. 7s. 6d. post free.)

Survey of the present position of pre-stressed concrete construction, setting out in general terms the methods of design used, and giving examples of actual structures built, both in this country and abroad, with discussion.

The basis of the discussion was a very comprehensive paper submitted by Dr. F. G. Thomas, which deals both with the theoretical and practical aspects of the subject (already referred to in *Inf. Centre*; see 20.120:21.4.49.) It contains a large number of good illustrations of applications of pre-stressed concrete, particularly in bridges, and gives an up-to-date and unbiased picture of the most important methods of pre-stressing used at present. Some of the main British patents on pre-stressed concrete are included in an appendix, and a bibliography comprising 289 items is added.

Twenty-four speakers have participated in the discussion. It is regrettable that this part of the report does not do justice to the conference. Several contributions would have deserved publication in full, whereas in the proceedings all contributions have been cut to more or less the same number of words, irrespective of quality. Many interesting illustrations shown at the conference by slides have been omitted. Nevertheless, even with these abbreviations much useful information on research is contained in the discussion.

Dr. Thomas' paper deserves the attention of all concerned with pre-stressed concrete.

20.139 construction: complete structures

BOAC BUILDINGS AT FILTON

Buildings at Filton for the British Overseas Airways Corporation. (Concrete & Constructional Engineering, July, 1949, pp. 209-213.)

Reinforced concrete buildings on the west side of the Brabazon assembly hall.

The Brabazon assembly hall at Filton has been referred to in *Inf. Centre*. (See 20.128:12.5.49.) The buildings on the west side of the main hall are the workshops, stores, link-training department and offices of the British Overseas Airways Corporation and are of reinforced concrete with some interesting structural features. The roof over the workshop is a thin-slab prismatic structure with continuous roof lights in each bay. The V-shaped roof members are continuous over three spans of 37 ft. 6 in. each. Metal lathing was used as a permanent shuttering for the 45-deg. slopes of these members. The stiffening beams are continuous over five spans of 30 ft. each.

In the three two-storey wings of the buildings pre-cast concrete columns and beams were used; the slabs were cast *in situ*. The connections between the various pre-cast members were designed to make the structural frame as monolithic as possible.

21.30 construction: miscellaneous

MODERN SHOPFRONTS

Modern Shopfront Construction. Trevor Perry. (The Technical Press, London. 2nd edition revised, 1949. 7s. 6d. net.)

Short guide to the design of shopfronts.

The shopfront has now become an important factor in our everyday life. This booklet deals with the various materials used for this purpose and describes the procedure from survey to completion that may be conveniently adopted in designing shopfronts. It contains a specification for a small shopfront, various details and a number of examples of modern work.

22.34 acoustics

ACOUSTICS OF CONCERT HALLS

A Comparison of the Acoustics of the Philharmonic Hall, Liverpool, and the St. Andrew's Grand Hall, Glasgow. By T. Somerville. (BBC Quarterly, April, 1949, p. 41.)

Reverberation and pulse studies in the two halls; comparison favours Glasgow hall. Interesting, useful. Illustrations, graphs and photos. Methods of study are described.

In the Liverpool hall the measured reverberation at 512 C.P.S. is 1.75 sec., compared with recognized desirable times of 2.3 to 2.9 for halls of this size. This makes it "dead" for concert music but useful as a multi-purpose hall.

Strong resonances at a particular low frequency observed, due apparently to the large areas of plaster on metal lath. These contrast with the short reverberation time at low frequencies generally. The result is a reverberation at one frequency of about twice the normal. This shows itself in musical performances.

Pulse measurements give evidence of "raggedness" and echoes in place of the more uniform decay considered desirable.

Listening tests indicated that definition is good, but tone is "hard," and there is no brilliance. Colouration of tone is evident, i.e., changes of time during decay.

The St. Andrew's Hall has much longer reverberation, about 3 sec., rather low at low frequencies, well maintained at high up to 2,500 C.P.S., where it sharply falls off. When the test source was at front of stage it was more "lively." This is thought to explain some strong tone found in this hall; but the cause is not known for certain.

Pulse measurements gave clean results, except for reflections from right-angled corners (cornices, etc.), which cause echoes.

The hall is said to be responsive; even very short pulses caused good tone.

It is claimed that the success of St. Andrew's Hall is evidence that rectangular halls and good acoustics may be associated.

This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS

2998 NOISE IN FLATS

Q I believe there has been published the results of some authoritative research into sources of noise which cause inconvenience in blocks of flats. Can you tell me what are the generally agreed nuisances?

A You are probably thinking of the recently published *A Survey of Noise in British Homes*. On page 16 the main sources of trouble are listed, such as cistern, babies crying in other rooms, children playing in other rooms, people moving in other rooms, wireless in other rooms, etc., and figures are given for the frequency with which these cause trouble. The publication which records the results of a study made by the Social Survey for the Building Research Station is *National Building Study Technical Paper No. 2*, obtainable from the Stationery Office, price 9d.

*On brick,
timber and
metal surfaces*

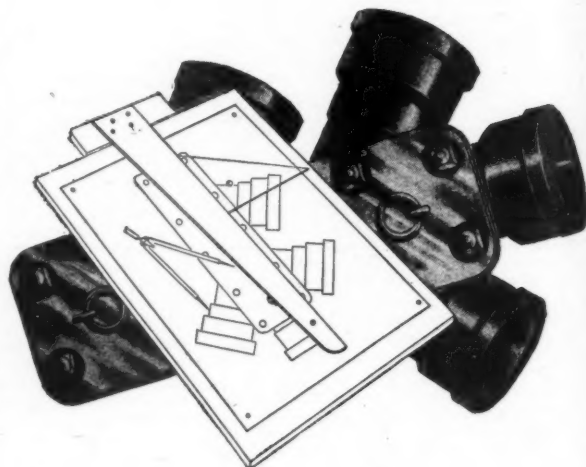


use
Duresco
paints

Duresco, KING OF WATER PAINTS; Silpaco FLAT OIL PAINT;
Silcolac HARD-GLOSS PAINT, ETC. FOR FULLER DETAILS
WRITE TO DURESCO PRODUCTS LTD., CHARLTON LONDON S.E.7

A SPECIALIST
Service

FOR ARCHITECTS, BUILDERS AND
SANITARY ENGINEERS



BY THE PIONEERS OF
CAST IRON SANITARY GOODS

Consultation with experts, before plans and specifications are submitted, often reduces costs and avoids delays. In the field of sewage pumping and purification plants BURN BROS.' Contract Department has a reputation second to none. Their experience of the requirements of local authorities, and of the bye-laws, is at the command of all BURN BROS.' clients.

Not so well known, perhaps, but no less valuable, are the services of BURN BROS.' Engineering Department. Turning, boring, milling, screw-cutting, etc., in all metals, are features of their work, and they will welcome the opportunity of serving you in this regard.

Supplies of Cast Iron Sanitary Goods, in which BURN BROS. were the pioneers, are admittedly difficult but we are making every effort to help our many customers, even if we cannot always satisfy their requirements.

BURN BROS.
(LONDON) LTD.

6 STAMFORD ST., BLACKFRIARS, LONDON, S.E.1
Telephone: WATerloo 5261

CAST IRON DRAIN AND SOIL GOODS • MANHOLE COVERS
TESTING APPLIANCES • WROUGHT IRON AND COPPER
TUBES AND FITTINGS • DRAIN RODS AND FITTINGS
PHILPLUG COLD CAULKING (SOCKET PIPE) COMPOUND
THE "ECLIPSE" DRAIN TESTING MACHINE, ETC.

This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.

THE INDUSTRY

By Brian Grant

SMALL INCINERATORS

Reference has already been made in these notes (14.7.49) to small gas-operated incinerators for use in offices, factories and other institutions of the same kind. I have recently been looking at a further example, produced by William Sugg & Co., who have been making equipment of this kind for over 20 years. The illustration shows the floor model, which sells at £29 4s. 3d., but there is also a bracket-mounted type of similar performance at £24 11s. 3d., both prices being subject to the usual discounts.

Operation is entirely automatic, the full gas supply being turned on as soon as the door is opened, an adjustable cut-off, device turning this supply off again in any time from 3 minutes to 2 hours, the usual setting being 10 to 15 minutes. Gas consumption is 25 cubic feet an hour at maximum rate, so that only a $\frac{1}{2}$ -inch supply pipe is necessary. A flue is, of course, essential, and the manufacturers recommend that it should be taken above the ridge, though this may not always be necessary.

With equipment of this kind it is always difficult to make any accurate estimate of the demands which will be made on it, but the manufacturers suggest that a single unit should be able to meet the requirements of from 70 to 100 people.

A smaller bracket model is also under development, and is to be available in a variety of stove enamel finishes (the larger models are porcelain enamel), and this should be suitable for smaller buildings with from 40 to 50 people. Price is not

yet fixed. (William Sugg & Co. Ltd., Chapter Street, Westminster, London, S.W.1.)

FLEXIBLE PLASTICS

A very old principle has been given a modern twist in the development by Ware-rite Ltd. of an interesting fabricating technique to give improved flexibility to their veneered board. A normal Ware-rite veneer is first applied to $\frac{1}{8}$ -in. core, the back of which is then kerfed with $\frac{1}{4}$ -in. saw cuts at $\frac{1}{8}$ -in. centres. The result of this treatment is a board of remarkable flexibility with a wide field of application in furniture and bar construction, as it can be curved to a radius of 3 in. without difficulty and is retained in position by fixing it to formers.

It has always, of course, been possible for manufacturers equipped with suitable formers and veneering equipment to apply Ware-rite veneers to curved surfaces. The development now announced, however, simplifies the production of bends in panels. A typical example of the use of flexible material is for the covering of pilasters and columns in buildings. Designers who, in the past, have necessarily avoided bends because of the high cost of achieving these when using synthetic laminates now have a more economical means of obtaining these effects.

Another important development is a new type of veneered board in which the veneer is applied to a special core of synthetic resin-bonded wood chips, which have been faced with gibbon veneers in the manufacturing process and to which the Ware-rite veneer is applied in the works. The resultant board is strong and rigid and suitable for immediate use for the construction of partitions, wall linings, furniture tops and fronts, coach partitions and flush doors. This new wood core has great physical strength, sufficient to take wood screws, while its hardness is such that the cut edge may be cleaned and polished to provide a pleasing effect. Since the working surfaces are themselves Ware-rite plastics, they possess all the practical and decorative advantages of this material, to which must be added the structural rigidity of the new core. This development, therefore, presents to the architect and builder a range of structural materials which are licence free and available in cut sizes up to the maximum areas of 8 ft. by 4 ft. and cut in a variety of thicknesses up to 22 mm. (Ware-rite Ltd., Ware, Herts.)



The Sugg floor model incinerator. It measures 39½ in. high by 11½ in. wide by 12½ in. deep. The height of the bracket model is 23½ in.

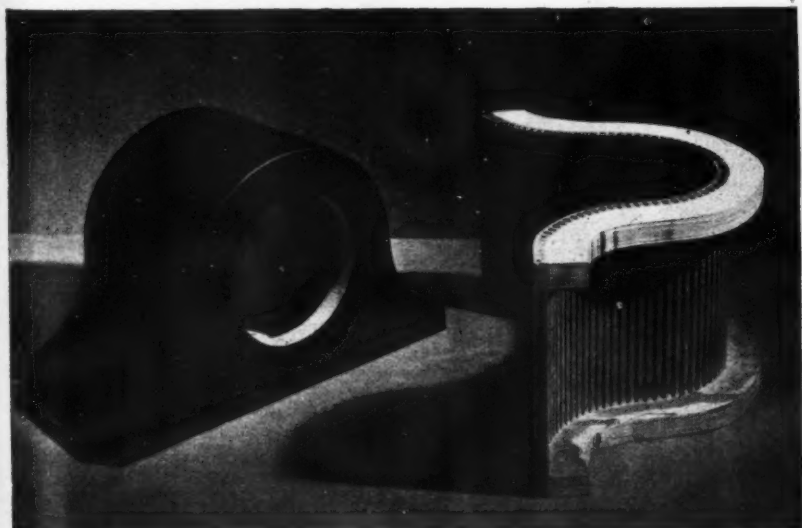
RIGID EXTRUSIONS

Mention of flexible plastic panels reminds me that De La Rue are now producing rigid plastic rods and tubes extruded in a phenolic thermo-setting material. They are used for electrical conduit, furniture manufacture, for pipe work in some kinds of food processing, and should have many uses in the building industry. So far as colours are concerned, they are available in black, brown, green and red, plain or mottled, with a durable high gloss finish. Close tolerances are maintained, and they provide architects and designers with a rigid plastic material of any required uniform cross section in suitable lengths. They are odourless, and will withstand continuous temperatures of up to 100° C.

Normal metal-working tools may be used for the fabrication of these extrusions. They may be sawn, filed, bored, or ground without danger of chipping, and although they cannot be bent after manufacture, most sections may be curved during the actual extrusion process. Special sections can be designed to suit individual requirements. (Thomas De La Rue & Co. Ltd., Plastics Division, 84, Regent Street, London, W.1.)

WOOD PRESERVATION

The TDA has just issued a revised version of their list of specialists in timber preservation and the manufacturers of the many proprietary brands of preservative now on the market. The list starts with firms with creosoting plant, most of whom are equipped to carry out pressure impregnation, and this is the more useful in that the firms are classified by areas throughout the country, including Scotland and Ireland. The second list contains the names of firms operating processes other than creosote, and this is arranged alphabetically under the names of the preservatives used. The final list is of proprietary names classified under



This clock case shows the potentialities of a fabricating technique for bending Ware-rite veneered board. The reverse side is kerfed with a circular saw to provide a sufficient number of parallel saw cuts $\frac{1}{4}$ in. wide at $\frac{1}{8}$ in. centres.

sub-headings of preservatives against decay, sap stain, insect attack, insecticides for the treatment of wood which has already been attacked, the final list giving fire retardants. A useful publication which should certainly be kept for reference. (*The Timber Development Association Ltd.*, 75, Cannon Street, London, E.C.4.)

PAINTING ASBESTOS-CEMENT

The painting of new asbestos-cement sheets is always something of a problem, as it takes some time before the alkali on the surface of the material is neutralised by the carbon dioxide in the air. With ordinary types of paint, the film saponifies and becomes water soluble, leaving large bare patches. Neutralising solutions, such as zinc sulphate, are not always satisfactory, and it is therefore useful to know that Tretol Ltd. have just produced a new alkali-resistant paint known as Tretolin, which, they claim, can be applied direct to old or new asbestos-cement without the previous use of sealing or neutralising compounds. It is available in fifteen standard shades, as well as black and white, and several of the colours are suitable for single coat application, both brushing and spraying grades being made. (*Tretol Ltd.*, 12, North End Road, London, N.W.11.)

Announcements

It is now possible to remove the restrictions on the use of roofing slates for housing which were referred to in earlier Supplements to the Ministry of Health Circular 76/46. The Supplement "Slates No. 1" and paragraph 1 of the Supplement "Roofing Materials No. 1," are, therefore, cancelled. In future, the supply situation will permit roofing slates to be specified irre-

spective of size for all types of work both for repairs to existing slate roofs and for new house building.

The Board of Trade Timber Control announce that the following species of hardwoods are now available for licensing under the terms of the Hardwood Overseas Procurement Scheme Part III: Ogea; Dahoma, Ekimi; Canarium; Antiaris, Ako; Ayan, Movingui; Black Afara, Idigbo, Emri.

Following a recent visit by Mr. Bernal Massé, chief executive of the International Road Federation, South African industrialists are proposing to establish their own counterpart of the British Road Federation.

Major Gerald Haythornthwaite, DIP.ARCH., A.R.I.B.A., A.M.T.P.I., would be pleased to receive trade catalogues at Endcliffe Vale House, Ranmoor, Sheffield 10.

Buildings Illustrated

New shop and shop front at 180, Regent Street. (Pages 198-201.) Proprietor: Richard Shops. Architect: Bronek Katz and R. Vaughan. General contractor: Messrs. Hickman Ltd. Contract price: £11,000. Sub-contractors: structural steelwork, The Burton Constructional Engineering Co. Ltd.; glass, Pilkington's Armour Plate entrance doors; central heating, ventilation and plenum warming, Rosser and Russell; electric wiring, plumbing, joinery, shop fittings and signs, Hickman Ltd.; plaster, fibrous plaster and suspended ceilings, David Esdaile; lifts, Waygood Otis.

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

ENQUIRY FORM

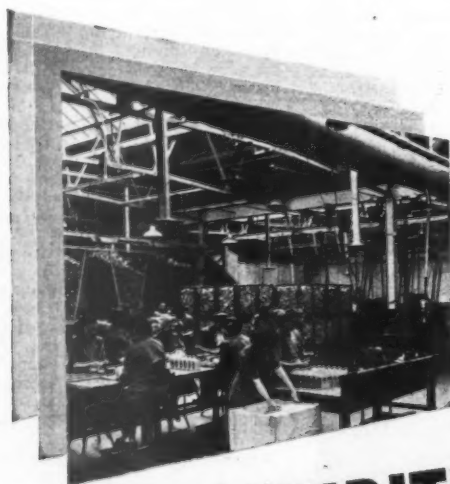
I am interested in the following advertisements appearing in this issue of "The Architects' Journal."

Please ask manufacturers to send further particulars to:—

NAME.....

ADDRESS.....

A.J. 25.8.49.
BLOCK LETTERS, Please



NEVER TOO HOT :
NEVER TOO COLD :

MUSGRAVE

PROVED

AIR CONDITIONING

The value of air-conditioning in life to-day cannot be over-stressed. Health and efficiency depend upon it. Musgrave engineers are specialists in the installation of air conditioning equipment—we offer a proved system of air-conditioning—never too hot—never too cold.

MUSGRAVE & CO LTD · ST ANN'S WORKS · BELFAST

London, Manchester, Glasgow, Bristol, Birmingham, Newcastle.

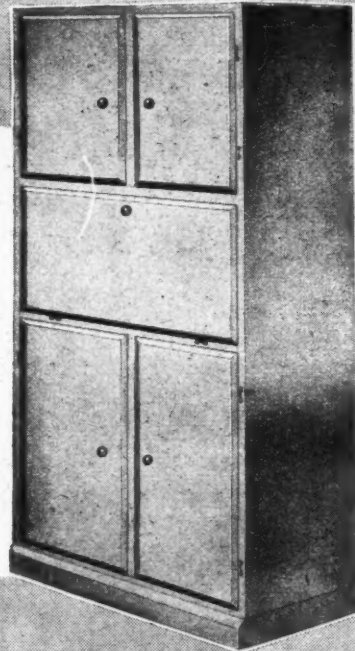
MEET THE NEW ALL ALUMINIUM TAX-FREE KITCHEN CABINET

Fraydon

GUARANTEED NOT TO RUST, TWIST OR WARP

Finished in hard stoved enamel in cream, or cream and green, which will not dull or wear off. Drop front working table, finished vitreous enamel, supported by Fraydon patent support arms. Size : 72in. high x 30in. wide x 16in. deep.

Write for full particulars, trade terms, etc., tonight.



Fraydon
TRADE MARK

KITCHEN CABINETS FOR YOUR CUSTOMERS

FRAYS (Engineers) LTD. BIDDULPH STOKE-ON-TRENT (TEL: BIDDULPH 3276)



Factory for Messrs. International Alloys Ltd. Aylesbury.

Consulting Engineers : Messrs. Malcolm Glover & Partners, Westminster, S.W.1

CHIMNEYS LTD

47, VICTORIA STREET LONDON S.W.1.

and at Manchester & Glasgow

TELEPHONE : ABBEY 4700

TELEGRAMS : STABLOCHIM, PHONE, LONDON

One of a number of wartime contracts including the erection of four brick chimneys 150 feet high, with underground brick flues, etc.



Laboratory, Chelsea School of Physical Education, Eastbourne Education Committee.

FURNITURE AND FITTINGS IN PERFECT HARMONY.
SPECIALISTS IN ARCHITECTURAL JOINERY AND
SPECIAL WOODWORK OF EVERY DESCRIPTION,
FOR LIBRARIES, LABORATORIES, CHURCHES, ETC.

NINETY-ONE years of traditional craftsmanship is a long time for a firm to have made quality products, and at the same time kept in the van of progressive design and manufacture. At HAMMERS we are proud of our tradition and our quality but base our present policy on energetic direction, young designers and fair prices.

"Established 1858, but no old stock."

GEO. M. HAMMER

Craftsmen in Woodwork
since 1858 & CO. LTD.

CROWN WORKS, HERMITAGE ROAD,
LONDON, N.4

Stamford Hill 6691/2

Plan for
ELECTRIC
REFRIGERATION
in your
kitchen
designs



Electric Refrigeration is now accepted as an essential feature of the complete kitchen. The beautiful lines of the Kelvinator EA4 Domestic Model blend admirably with imaginative modern kitchen plans.

If, however, the EA4 is not exactly what you are looking for to complete that new scheme, you are warmly invited to contact our Technicians; they will be happy to co-operate with you, on your own designs.

Let the **Kelvinator** Advisory Department assist you.

KELVINATOR LIMITED CREWE AND LONDON

A new idea for **ARCHITECTS**

Progress Each Commission You Handle—
VISUALLY—Stage by Stage.

Complete Details on Request.

Every commission you undertake necessarily involves many letters, plans, blue-prints and other papers.

The busy Architect, especially if short-staffed, usually finds administrative routine something of a problem. Each single undertaking necessitates so many sequences of operation that co-ordination is not easy.

A plan has now been evolved to simplify the whole procedure.

Either in your existing cabinets or in separate self-contained units install the new Shannographic filing system. This system comprises a series of flat-topped files suspended from metal frames. The flat-top goes right across the full width of the file and affords plenty of room for any data required—*such data being visible at a glance.*

In effect then, instead of a bunch of floppy folders bulging with papers, you have a completely flat surface over all the files—any of which can be identified at sight. These are colour-charted in alphabetical or numerical sequence to eliminate misfiling.

The flat-top has a transparent sheath under which is a long slip of "graphed" paper on which goes your data. At the left, for instance, could be the job number, name of client, site involved, etc. On the right are a series of ready-printed numbers used for "coding" each step in the series of activities (1 to 12 and 1 to 31).

As an example, these numbers could be coded thus: 1 = Enquiry; 2 = Site surveyed; 3 = Site plans prepared; 4 = Sketch plans sent to client for approval; 5 = Client's approval received; 6 = Plans sent to Local Authorities for approval under Bye-laws, Town Planning, etc.; 7 = Approval received; 8 = Specification and Bills of Quantity written up; 9 = Drawing, specification and Bills of Quantity sent to Contractors for Tender; 10 = Tender accepted; 11 = Building licence obtained; 12 = Work commenced.

And so on. . . . If you wish, narrower sub-files could be opened up for each contractor, where the project is sufficiently large to warrant this. A slotted-in record card (on the front of each file) provides room for detailed data, thus eliminating cross-reference.


But let us send you full details of the scheme. . . . Just write "Architects' Special System" on your notepaper and you will receive them by return.

Shannon Systems

FIRST IN FILING

The Shannon Ltd 103 Shannon Corner New Malden Surrey

Branches at: Kingsway (London), Birmingham, Bristol, Glasgow, Leeds, Leicester, Liverpool, Manchester, Newcastle, Southampton.



E.C.M.
ELECTRIC
LIFTS

**For Goods or
Passengers**

Executives who are interested in the provision of new lifts or the safe and efficient maintenance of existing lifts are invited to consult:-

ETCHELLS CONGDON & MUIR LTD
25 MILL STREET ANCOATS
MANCHESTER 4
TELEPHONE ARDWICK 4111

LONDON 31 HIGH ST MERTON SW19
TELEPHONE LIBERTY 5626

ALSO AT BIRMINGHAM CARDIFF
SHEFFIELD LIVERPOOL & EDINBURGH





Fire Escape Staircases and General Iron and Steelwork

Write for FARMER'S
LATEST CATALOGUE



LEWISHAM, LONDON, S.E.13

TELEPHONE : LEE GREEN 4334-8



NUMBER THREE MODEL ★ NUMBER ONE CHOICE



IN THE WORLD'S LARGEST KITCHENS

The reason? The 'SPLENDID' Patent Crockery Washer saves dishes, saves time, and compensates for staff shortages! The 'SPLENDID' actually brushes the crockery under water and removes the most stubborn food deposits with the greatest ease! In such kitchens as those of the Dorchester Hotel, London; the P. & O. Steamship Co.; Orient Line Steamship Co. (all

vessels); Butlin's Holiday Camps; and the leading Universities; where spotless crockery is essential, 'SPLENDID' Crockery Washers are giving complete satisfaction. Write now for Catalogue SP.

Agent for S.W. England:
Catering Equipment (S.W.)
Ltd., York Bldgs., Bank St.,
NEWQUAY. Tel: 2351/2

Sole Scottish Agent:
J. S. Meechie Ltd.,
10-12 Crichton Street,
DUNDEE. Tel: 2685

"SPLENDID" CROCKERY
WASHERS
PATENT

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

Scientific S.K. 24 D

STEEL FACED FLOOR FLAGS

"FERROGRAN"
STEEL FACED FLOOR
FLAGS ARE HYDRAULICALLY
PRESSED TO WITHSTAND
HEAVY TRAFFIC CONDITIONS

Sizes:
12in. x 12in. x 2in.
12in. x 12in. x 1½in.



Established 22 years
HEAD OFFICE:
EAGLE WORKS,
WEDNESBURY, STAFFS
Telephone: 0284 (5 lines)

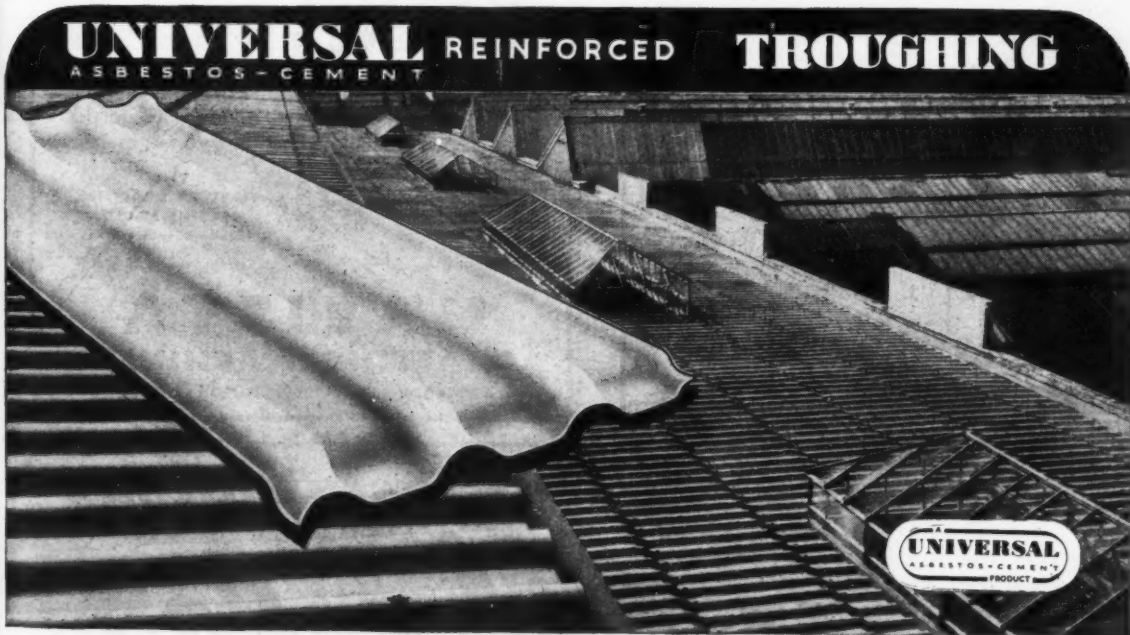


Established 22 years
LONDON OFFICE:
ARTILLERY HOUSE,
ARTILLERY ROW,
VICTORIA STREET, S.W.1
Telephone: 1547-8 Abbey

"CONSOL"
STEEL ANCHOR FLOOR
PLATES ARE MADE FROM
10 GAUGE STEEL FOR VERY
HEAVY TRAFFIC CONDITIONS

Sizes: 12in. x 12in. and 12in. x 6in.

STEEL ANCHOR FLOOR PLATES



Among the many advantages of this flat roof construction are the qualities of strength and durability greatly in excess of the requirements of any public authority.
With its relatively low dead weight of 4.75 lbs. per square foot and purlins spaced at 6 ft. 3 in. centres the utmost economies can be made in the supporting steelwork.
Full technical details and fixing instructions are contained in catalogue "Troughing"

THE UNIVERSAL ASBESTOS MANUFACTURING CO., LTD.
HANDCRAFT WORKS - TOLPITS - WATFORD - Telephone WATFORD 3371-3
BIRMINGHAM - BRISTOL - LONDON - MANCHESTER - GLASGOW

"FOSALSIL"
AGGREGATES FOR
INSULATING CONCRETE

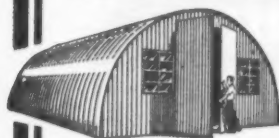
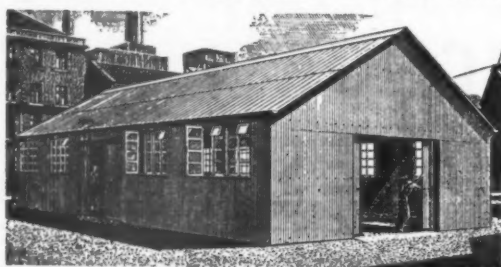
**FLUE BRICKS
POWDERS
PARTITION BLOCKS**

"FOSALSIL"
FLUE BRICKS &
SETTING POWDER

MOLER PRODUCTS LIMITED
HYTHE WORKS COLCHESTER
Telephone COLCHESTER 3191

**THORNS
INDUSTRIAL BUILDINGS**

for
WORKSHOPS — STORES — GARAGES
FACTORIES — OFFICES — CANTEENS



Nissen-type Huts



Asbestos Covered Buildings

Thorns range of industrial buildings includes designs to suit every purpose. They are constructed of unlicensed materials and are easily erected with a minimum of site labour. Prompt dispatch. Free lorry delivery 250 miles.

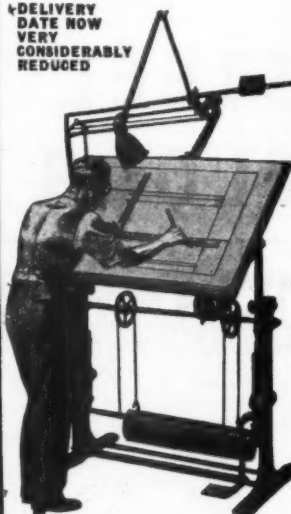
Write, 'phone or call for full details and specifications. Please state type and size of building required.

J. THORN & SONS LTD.
BOX 185, BRAMPTON ROAD,
BEXLEYHEATH, KENT
Telephone: Bexleyheath 305.

BD 256

*The perfect
drawing board*

DELIVERY
DATE NOW
VERY
CONSIDERABLY
REDUCED



The MAVITTA Drafting Machine stamps your drawing office as EFFICIENT. Made of steel tube with adjustable ball-bearings. The main angles are located automatically, intermediate angles by lock. Scales have inlaid celluloid edges and are divided to order on two edges.

THE
MAVITTA DRAFTING
MACHINES LTD.
Highlands Road, Shirley,
near Birmingham, Eng.
Telephone: Solihull 2231/2

**MAVITTA
DRAFTING MACHINES**

ASK ABOUT THE NEW MINOR MODEL

... for all electrical installations

F. H. Wheeler
& CO., LTD.

Head Office: 39 Victoria Street, London, S.W.1. Tel: ABBey 0000 (16 Lines)

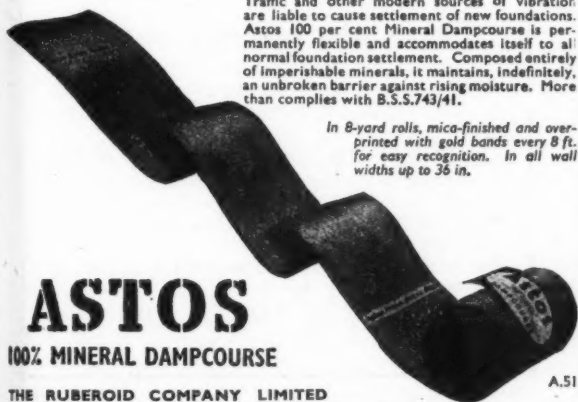
Branches: Manchester, Bournemouth, Glasgow, Birmingham, Hull, Southampton, Hereford, Sheffield, Thetford, York, Bristol, Edinburgh, Aberdeen.



COUNTERACT THE EFFECT OF VIBRRRATION WITH A FLEXIBLE DAMPCOURSE

Traffic and other modern sources of vibration are liable to cause settlement of new foundations. Astos 100 per cent Mineral Dampcourse is permanently flexible and accommodates itself to all normal foundation settlement. Composed entirely of imperishable minerals, it maintains, indefinitely, an unbroken barrier against rising moisture. More than complies with B.S.S.743/41.

In 8-yard rolls, mica-finished and over-printed with gold bands every 8 ft. for easy recognition. In all wall widths up to 36 in.



ASTOS

100% MINERAL DAMPCOURSE

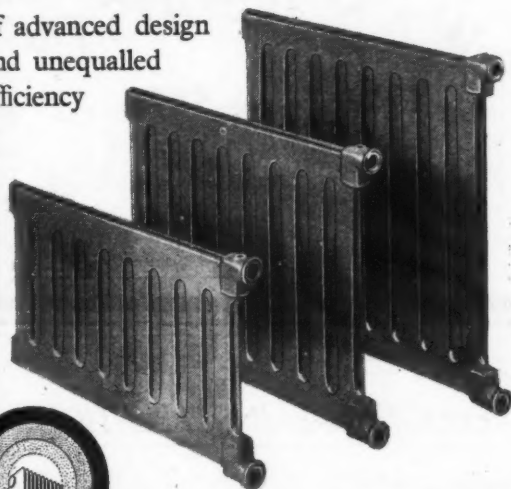
THE RUBEROID COMPANY LIMITED

2, COMMONWEALTH HOUSE, NEW OXFORD STREET, LONDON, W.C.1

A.51

Pressed Steel Radiators . . .

of advanced design
and unequalled
efficiency



Further details, printed matter and prices will gladly be sent on request

GULF RADIATOR CO. LTD.

HEAD OFFICE:
7 LYGON PLACE, WESTMINSTER, S.W.1
Telephone: SLOANE 1438-8122
WORKS: PENARTH ROAD, CARDIFF. Tel.: Cardiff 9227



★ Vermiculite

FEATHERWEIGHT MINERAL
FOR
BUILDING AND INSULATING

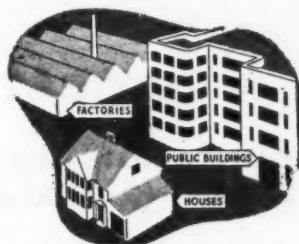
★ DOHM LTD

167, VICTORIA STREET, S.W.1

Victoria 1414/5/6 & 7913

KEMAPAC

— A SPECIALISED PRODUCT —



Here is a new enamel finish that makes decorating history! The outcome of intensive research in the laboratories of Allied Paints and Chemicals Ltd., KEMAPAC is specially designed for the exteriors of houses, factories, schools and public buildings. It dries in 8-10 hours to give a tough, resistant film that far exceeds hard gloss paints in durability and covering power and will retain its original gloss and colour for years, impervious to the ravages of climate and weather conditions. It is supplied ready for use in sixteen shades of colour as well as black and white.

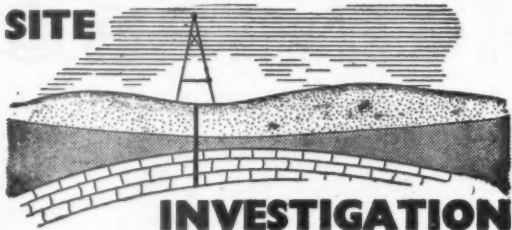
ALLIED PAINTS & CHEMICALS LTD.
WHARFDALE ROAD,
TYSELEY, BIRMINGHAM 11



Fine Floors from Fine Hardwoods

WILLIAM EVANS
AND COMPANY (MANCHESTER) LIMITED
DITTON ROAD WIDNES LANCASHIRE
Telephone WIDNES 8073 (10 lines) Telegrams FORESTRY, WIDNES

SITE



INVESTIGATION

**FOR FOUNDATION DESIGNS
& PROSPECTING PURPOSES**

SOIL SURVEYS FOR ENGINEERING AND
BUILDING STRUCTURES WITH COMPRE-
HENSIVE REPORTS. SOIL MECHANICS TESTS
IN MODERN LABORATORY. TEST BORINGS.
ELECTRICAL RESISTIVITY SURVEYS.

by

LE GRAND

SUTCLIFF & GELL LTD.
SOUTHALL • LONDON

Telephone: Southall 2211

Our Publication No. 59—"Site Investigation" is available, and
copies will be supplied on application.

Overseas Contracting and Supplies:
ASSOCIATED DRILLING & SUPPLIES CO. (Overseas) LTD.
1, VICTORIA STREET, LONDON, S.W.1.

A NEW first coat PLASTER



with greater covering capacity

The surest way to eliminate decoration failures is to use SIRAPITE BROWNING. This new plaster contains no injurious alkalis, and there is virtually no expansion and contraction once it has set.

SIRAPITE BROWNING SPEEDS UP WORK by enabling the setting coat to be applied earlier and promotes more rapid drying out because a high proportion of the gauging water combines chemically with the plaster.

Directions for use and Specification Clauses will be sent on request.

THE GYPSUM MINES LIMITED
MOUNTFIELD • ROBERTSBRIDGE • SUSSEX

W & M NEGUS LTD

WATERloo 5474

"Three Generations of Building"

For

ELECTRICAL INSTALLATIONS

Consult—

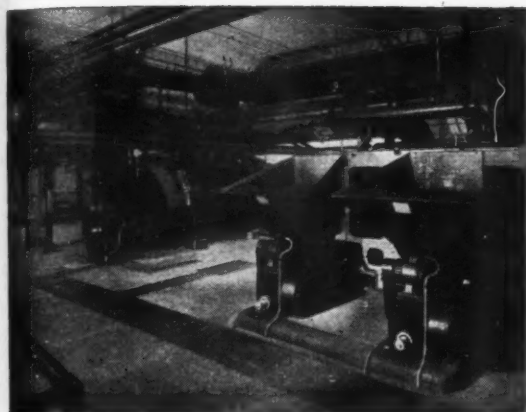
OHMLITE INSTALLATIONS LTD.,

62, Old Brompton Road,

S.W.7.

KENSington 0259/2890





● An Invitation

For many years we have enjoyed a reputation for reliability and sound workmanship in the field of

**HEATING ● VENTILATING & AIR
CONDITIONING ● ENGINEERING**

We invite you to avail yourselves of our accumulated experience for any project you may have in hand. Our qualified Engineers will gladly submit designs, specifications and estimates for any new work.

W. G. CANNON & SONS LTD.
145-147 NORTH END, CROYDON, SURREY

Telephone: CROYdon 4535 & 6749

EXCEL ASPHALTE

Send us your Enquiries for

**Asphalte • Laminated Felt Roofings
Pitchmastic • Tar Paving**

ON APPROVED LIST OF ALL GOVERNMENT DEPARTMENTS

EXCEL SERVICE ENDURES

EXCEL ASPHALTE CO. LTD.

Broadway Chamber, Hammersmith, W.6

Telegrams: "CESLYM," LONDON. Telephone: RIVerside 6052 (5 lines)

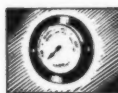
ALL THIS *and handsome too!*



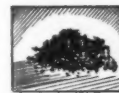
Lavish Cooking Space



Constant Hot Water



Exact Oven Temperature



Burns any Solid Fuel



Large Hot Plate

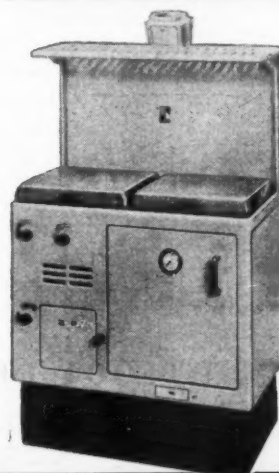


Easy to Clean

All these aids to care-free cooking come with the new Eagle Advance Range. Its smooth modern lines and bright enamel finish conceal a wealth of oven space to cook for six to ten people, while the twist of a wrist gives the right oven temperature. The continuous burning system puts an end to daily fire lighting and helps towards greater fuel economy.

There are two models. Number 31 has everything a cook can want and is finished in stone coloured vitreous enamel. Number 35, in grey porcelain enamel, is a simpler model with the same cooking capacity.

The EAGLE ADVANCE RANGE



EAGLE RANGE & GRATE CO. LTD. ASTON · BIRMINGHAM · 6

Product of Radiation Ltd

Lightfoot Refrigeration

FOR PERFECTION OF DETAIL

The Lightfoot Refrigeration Company design and supply complete equipment for ice factories, cold stores, breweries, bacon factories, abattoirs, dairies, ice-cream plants, quick-freezing plants, air-conditioning plants, and plants for the storage of apples, bulbs and flowers. The Lightfoot range of refrigeration equipment meets the needs of the food manufacturing and distribution trades, and the requirements of shipping companies, hotels, restaurants, hospitals,

canteens, institutions, and dairy farmers. The company's range also includes the new Lightfoot "De Luxe" Domestic Refrigerator.

For over 60 years the name Lightfoot has represented the highest standard of efficiency, economy and reliability in Refrigerating Machinery. The smaller Lightfoot plants operate on Freon or Methyl Chloride, whilst for the larger plants the refrigerant used is Ammonia.



THE LIGHTFOOT REFRIGERATION COMPANY LIMITED

ABBEYDALE ROAD, WEMBLEY, MIDDLESEX

DTV/A6A

CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the **Sub-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 to "The Architects' Journal," at the address given above.

Available only to applicants accepted from the Control of Engagement Order, 1947.

Public and Official Announcements

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

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WEST PARK, WYTHELEAF, Tel.: Uplands 0935, 991

LONDON COUNTY COUNCIL

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Act, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake the design layout and preparation of working drawings for housing schemes (cottages and multi-story flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2559) 1046

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointments in the Architect's Section of the Chief Engineer's Department in Central London.

(a) ASSISTANT ARCHITECTS. Commencing salary will be from £550 per annum, dependent upon qualifications and experience.

Applicants should preferably be Associate Members of the R.I.B.A. They should be capable of preparing working drawings and specifications, and should have had good general experience in design and construction.

(b) ARCHITECTURAL ASSISTANTS. Commencing salary will be from £500 per annum, dependent upon qualifications and experience.

Applicants should be studying for or have passed the Intermediate Examination of the R.I.B.A., be capable draughtsmen, and have had several years' experience in an Architect's office.

(c) DRAUGHTSMEN. Commencing salary will be from £350 per annum, dependent upon ability and experience.

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

The salaries for the above posts are provisional, and the salaries and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidates will be required to contribute to a superannuation scheme, and may be required to pass a medical examination.

Application should be made on forms obtainable from the Honorary Officer, London Electricity Board, 46/47, New Broad Street, London, E.C.2, to whom they should be returned, duly completed, within 14 days of the publication of this notice. (1769)

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) FOUR SENIOR ASSISTANT ARCHITECTS. Salary £595 per annum, rising to £660 per annum (A.P.T. Grade VI).

(b) THREE SENIOR ASSISTANT ARCHITECTS. Salary £520 per annum, rising to £570 per annum (A.P.T. Grade V).

Applicants should be Associates of the Royal Institute of British Architects, and must have had experience on Housing, General Architectural work, and/or Educational buildings.

The appointments will be subject to the National Conditions of Service as adopted by the City Council, to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Favourable consideration will be given to the provision of housing accommodation, if required. Applications, stating age, particulars of training, qualifications, experience, present and previous appointments, together with copies of two recent testimonials, and the names and addresses of two persons to whom reference may be made, should be addressed to the City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1.

JOHN ATKINSON, Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1.
3rd August, 1949. 1811

CAMBRIDGESHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the County Architect's Department:—

(a) ONE DEPUTY COUNTY ARCHITECT. Grade III, £750×£82—£900.

(b) ONE ASSISTANT ARCHITECT. Grade VI, £595×£220×£225—£560.

(c) ONE ARCHITECTURAL ASSISTANT. Grade IV, £480×£15—£525.

(d) ONE ARCHITECTURAL ASSISTANT. Grade III, £450×£15—£495.

(e) ONE ARCHITECTURAL ASSISTANT. M.D.I., £315×£15—£360.

Applicants for appointments (a) and (b) should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications, and have had good general experience in design and construction of Local Authority works.

Applications for (a) to be made on special forms to be obtained from the County Architect, Shire Hall, Castle Hill, Cambridge.

Applicants for (c), (d) and (e) should have a good general knowledge of construction and details.

The above appointments will be (a) subject to three months' notice on either side, and (b), (c), (d) and (e) one month's notice, and all appointments will be subject to the provisions of the Local Government Superannuation Act, 1937 and 1939.

The selected applicants will be required to pass a medical examination. Canvassing will disqualify, and applicants must disclose whether to their knowledge they are related to any member of the Council or to the holder of any senior office under the Council.

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, and the earliest date when available, together with copy of one recent testimonial and the names of two referees, should be sent to the undersigned on or before 10 a.m. on Saturday, the 3rd September, 1949.

CHARLES PHTHYIAN,

Clerk of the County Council.

Shire Hall, Cambridge. 1823
5th August, 1949.

BEDFORDSHIRE COUNTY COUNCIL.

Applications are invited for established posts in the Departments of the County Architect:—

ASSISTANT ARCHITECT. A.P.T., Grade VI (Salary £595-£660).

ASSISTANT ARCHITECT. A.P.T., Grade IV (Salary £480-£525).

ASSISTANT ARCHITECT. A.P.T., Grade II (Salary £420-£465).

Candidates must be suitably qualified and have experience equivalent to the grading of the post. Application forms and further particulars to be obtained from the County Architect, Shire Hall, Bedford.

Successful candidates, who need housing accommodation, will be eligible for flats under the County Scheme as soon as these are available, and a subsistence allowance will be paid to married men awaiting accommodation and who are compelled to maintain another home.

Applications to be received by the undersigned on or before 31st August, 1949.

J. B. GRAHAM,

Clerk of the County Council.

Shire Hall, Bedford. 1854
5th August, 1949.

COUNTY FERNAGH EDUCATION COMMITTEE.

Applications are invited for the following appointments in the department of the Committee's Architect:—

(1) ARCHITECTURAL ASSISTANT. Salary will be in the range £400 to £600 per annum, including bonus.

Applicants should have a sound knowledge of design and construction, and be capable of preparing working drawings, and should preferably have reached the Intermediate R.I.B.A. standard at least, and should have had 5 years' practical experience. Experience in school design and construction will be an additional recommendation.

(2) CLERK OF WORKS. Salary will be in the range £400 to £500 per annum, including bonus.

Applicants should have had sound comprehensive experience in the maintenance of buildings, etc., and in the supervision of new work, and must be able to prepare reports, specifications and estimates for normal maintenance and remodelling work.

The successful applicant will be required to provide a car for his work, and travelling allowance in accordance with the Civil Service Scales will be paid.

The actual salary within the above salary ranges will be determined in each case, according to the qualifications and experience of the persons appointed.

The appointments, which are pensionable, are subject to the approval of the Ministry of Education, Northern Ireland.

One month's notice in writing on either side will be required to terminate either appointment.

Preference will be given to ex-service applicants, provided the Committee is satisfied that the successful candidate can, or within reasonable time, will be able to fill the vacant post efficiently.

Forms of application may be obtained from the undersigned, with whom applications must be lodged not later than 10th September, 1949.

J. MALONE,

Chief Education Officer.

Education Office, Enniskillen, N. Ireland. 1843
5th August, 1949.

CITY OF COVENTRY.

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

(a) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., VII, commencing at £635 per annum and rising to £710 per annum.

(b) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., V, commencing at £530 per annum and rising to £570 per annum.

(c) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., IV, commencing at £490 per annum and rising to £525 per annum.

Applicants for (a), (b) and (c) should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

(d) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects.

(e) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., II, commencing at £420 per annum and rising to £465 per annum.

(f) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.

(g) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., II, commencing at £420 per annum and rising to £465 per annum.

(h) ONE HEATING AND VENTILATING ENGINEERING ASSISTANT. Salary on Grade A.P.T., V, commencing at £520 per annum and rising to £570 per annum.

Applicants should preferably be over 25 years of age, and be Associate Members of the Institute of Heating and Ventilating Engineers.

(i) ONE HEATING AND VENTILATING ENGINEERING ASSISTANT. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.

Applicants should preferably be graduate members of the Institute of Heating and Ventilating Engineers.

In certain circumstances, housing accommodation may be made available for the successful applicants in the cases of (a), (b) and (h).

Salary increments are subject to satisfactory service.

The posts are subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's Medical Officer.

The successful male applicants will be required to contribute to the Municipal Officers', Widows' and Orphans' Pension Fund.

Applications for all the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than 12th September, 1949.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON,

City Architect.

11, Warwick Row, Coventry.
11th August, 1949. 1898

NANTWICH URBAN DISTRICT COUNCIL.

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Junior Architectural Assistant in the Engineer and Surveyor's Department. The appointment will be for approximately 18 months, and the applicant will be engaged upon Housing and the erection of a new Public Hall.

The provisions of the Local Government Superannuation Act, 1937, and the National Joint Council Scheme and Conditions of Service will apply. The appointment will be subject to one month's notice on either side. The salary will be in accordance with Grades A.P.T., I and II (ranging from £390 to £465), according to experience and capabilities.

Applications to be sent in to Mr. E. H. Bailey, Engineer and Surveyor, Brookfield House, Nantwich, stating age, experience, married or single, together with copies of two recent testimonials, not later than 31st August, 1949.

D. T. EVANS,

Clerk of the Council.

5th August, 1949. 1896

CITY AND COUNTY OF THE CITY OF LINCOLN.

CITY HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the City Housing Architect's Department. Salary Grade IV, A.P. and T. Division of the National Scale of Salaries (£480×£15—£525).

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

Applications, stating age and experience, together with the names of two persons to whom reference may be made, should be delivered to the City Housing Architect, Stamp End, Lincoln, not later than Wednesday, the 31st August, 1949.

Canvassing, either directly or indirectly, will disqualify.

J. H. SMITH,

Town Clerk.

Town Clerk's Office, Lincoln.
August, 1949. 1863

CITY OF OXFORD.
CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.
Applications are invited for the undermentioned posts on the Staff of the City Architect and Planning Officer's Department:-
ASSISTANT ARCHITECT. Grade Va, A.P.T. Division. Permanent. Salary £550×£20-£610 per annum.

The successful applicant will be required to carry out work on Schools and Public Buildings, and should be an Associate of the Royal Institute of British Architects.

SENIOR PLANNING ASSISTANT. Grade Va, A.P.T. Division. Permanent. Salary £550×£20-£610 per annum.

The successful applicant will be required to carry out work in connection with the preparation of the Development Plan and planning administration in the City, and should preferably have passed the Final Examination of the Town Planning Institute.

Housing accommodation, if required, will be made available by the Council for the successful applicants for the above-mentioned posts.

ARCHITECTURAL ASSISTANT. Grade III-IV, A.P.T. Division. Permanent. Salary £450×£15-£525 per annum.

The successful applicant will be required to carry out varied architectural duties on Schools, Housing and Public Buildings. Preference will be given to applicants who have passed the Intermediate Examination of the Royal Institute of British Architects.

ASSISTANT SURVEYOR (Quantities and Accounts). Grade III, A.P.T. Division. Permanent. Salary £450×£15-£495 per annum.

The successful applicant will be required to assist, with others, in the Quantities and Accounts Section of the Department, and should have had experience in taking off Quantities, Site Measurement, Valuations for Certificates, Adjustment of Variations and Final Accounts. Preference will be given to applicants who are studying for membership of the Royal Institution of Chartered Surveyors (Quantities).

TWO ARCHITECTURAL ASSISTANTS. Grade I, A.P.T. Division. Permanent. Salary £390×£15-£435 per annum.

The successful applicants will be required to carry out work on Schools, Housing and Public Buildings, under supervision, and skilful and speedy draughtsmanship will be required.

CLERK OF WORKS. Grade I, A.P.T. Division. Temporary. Salary £435 per annum.

The successful applicant, who must be suitably qualified, will be required to supervise Housing and/or School building works.

The appointments will be subject to the National Conditions of Service, the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Further details of the duties and Application Forms, which must be used in applying for the posts, may be obtained from H. G. Chandler, A.R.I.B.A., A.M.P.E.I., City Architect and Planning Officer, Town Hall, Oxford.

Applicants must clearly state for which post they wish to apply when writing for Forms, and these Forms must be returned to the City Architect and Planning Officer not later than Thursday, the 1st September, 1949.

HARRY PLOWMAN,
Town Clerk.
1954

AMENDED ADVERTISEMENT.
CITY OF COVENTRY.
CITY ARCHITECTURAL DEPARTMENT.
APPOINTMENT OF DEPUTY CITY ARCHITECT.

Applications are invited from suitably qualified persons for the appointment of Deputy City Architect, at a commencing salary of £1,005 per annum, rising by annual increments of £85, £100 and £10 to a maximum of £1,200 per annum. Applicants must have had extensive experience of the work undertaken in a City Architectural Department, and previous local government experience will be an advantage.

At present the City Architect is one of two Joint Planning Officers for the City. In October, 1949, he will be the sole Planning Officer and it is thought that a Deputy Planning Officer will be appointed to assist in this work.

The appointment will be terminable by three months' notice on either side, and will be subject to the Conditions of Service of the National Joint Council for Local Authorities' Administrative, etc., Services, as amended in favour of officers by decisions of the City Council.

The successful applicant will be required to pass a medical examination and to contribute on the statutory basis to the Superannuation Fund under the Local Government Superannuation Acts (as amended in regard to Annuities to Widows by the Coventry Corporation Act, 1936), and will be required to contribute to the Staff Widows' and Orphans' Pensions Fund.

Forms of application may be obtained from the undersigned and must be returned accompanied by not more than three recent testimonials not later than Saturday, the 3rd September, 1949.

Canvassing, directly or indirectly, will be considered a disqualification, and applicants should disclose any relationship within their knowledge to a member or senior officer of the Council.

CHARLES BARRATT,
Town Clerk.

Council House, Coventry.
10th August, 1949. 1707

CORPORATION OF GLASGOW.
HOUSING DEPARTMENT.
ASSISTANT ARCHITECTS.
Salary scales: A.P.T. V, £530-£570.
" " III, £450-£495.
" " I, £390-£435.

Applications are invited for appointments to the Architectural Staff of the Department, at salaries in accordance with the above existing scales. Placing on these scales will be according to age and experience.

Intending applicants should have passed the Final Examination of the Royal Institute of British Architects, or should hold other equivalent qualifications.

The appointments will be to the Permanent Establishment of the Department, and are subject to the provisions of the Corporation's Superannuation Scheme. Successful applicants will require to pass a medical examination.

The appointments are terminable on either side by one month's notice in writing.

Applications, stating age, particulars of training, experience and qualifications, should be addressed to the undersigned, and should be received within 14 days of the publication of this advertisement.

A. G. JURY,
Director of Housing.

Housing Department, 20, Trongate,
Glasgow, C.I. 1876

KENT EDUCATION COMMITTEE.
BROMLEY DIVISION.
BROMLEY COLLEGE OF ART DEPARTMENT OF BUILDING.

Required in September Part-time EVENING LECTURERS in Building Construction.

Applicants should possess professional qualifications and have a wide experience of modern framed construction. Remuneration in accordance with the Committee's scale, plus travelling expenses.

Applications by letter giving full particulars to: Head of Department of Building, Wharton Road, Bromley, Kent. 1835

HUTTON-WITH-ROBY URBAN DISTRICT COUNCIL.

Applications are invited for the following established appointments in the Engineer and Surveyor's Department:-

(a) **GENERAL ENGINEERING ASSISTANTS (TWO).** Salary in accordance with A.P.T. Grades II (£420-£465)-III (£450-£495), according to experience and qualifications. Candidates should hold either Associate Membership of the Institution of Civil Engineers, Testamur of the Institution of Municipal Engineers, or a University Degree in Engineering, and have had experience in a municipal engineer's office.

(b) **GENERAL ARCHITECTURAL ASSISTANTS (TWO).** Salary in accordance with A.P.T. Grades II-III, according to experience and qualifications. Candidates should be up to the standard of the Intermediate examination of the R.I.B.A., and have had experience in municipal architectural and housing work.

The appointments will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the successful candidates passing a medical examination.

Housing accommodation will be made available if necessary.

Applications, stating age, qualifications, details of experience, present and past appointments, with the names and addresses of two persons to whom reference may be made, should reach the undersigned not later than the 10th September, 1949.

Canvassing will disqualify.

H. E. H. LAWTON,
Clerk of the Council.
Council Offices, Derby Road, Hayton. 1831

METROPOLITAN BOROUGH OF SOUTHWARK.
PERMANENT APPOINTMENTS-BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments:-

(a) **ONE ARCHITECTURAL ASSISTANT.** A.P.T. V or Va, £550-£600 or £580-£640 (£10 less if under 26).

(b) **TWO ARCHITECTURAL ASSISTANTS.** A.P.T. V or Va, £550-£600 or £580-£640 (£10 less if under 26).

(c) **ONE JUNIOR ARCHITECTURAL ASSISTANT.** A.P.T. III, £480-£525 (£10 less if under 26).

Appointments (b) and (c) are required to fill vacancies in design groups engaged on the preparation of new housing schemes.

Appointment (a) is required for work in connection with the alteration and improvement of public buildings.

The appointments are subject to the Council's Conditions of Service, to the provisions of the Shoreditch and Other Metropolitan Borough Councils' (Superannuation) Acts, 1922-37, to the passing of a medical examination and to one month's notice on either side.

Applications should be made on forms obtainable from me and returned not later than the first post on Monday, 19th September, 1949.

The Council is not in a position to provide housing accommodation for successful applicants.

Canvassing in any form will disqualify.

D. T. GRIFFITHS,
Town Clerk.

Town Hall, Walworth Road, S.E.17.
4th August, 1949. 1801

LANCASHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staff:-
SENIOR SECTION ARCHITECT (Education Branch). Grade X. Salary £860×£25-£960.

Applicants should be capable of a high standard of design, and have had experience of the control of staffs.

The successful applicant will be responsible for the supervision of four Section Architects and their staffs.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937; to a satisfactory medical examination, and to the termination of each appointment by one month's notice in writing on either side.

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Saturday, 10th September, 1949.

R. H. ADCOCK,
Clerk of the County Council.
County Offices, Preston. 1909

MERIONETH COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of ASSISTANT COUNTY PLANNING OFFICER, at a salary in accordance with Grade VI (£595-£660) of the National Joint Council's Scale.

Applicants must be Corporate Members of the Town Planning Institute (by examination) and possess one of the following additional qualifications:-University Degree or Diploma in Architecture; Surveying or Engineering or Corporate Membership (by examination) of the Institution of Civil Engineers; Royal Institute of British Architects; Royal Institution of Chartered Surveyors or Institute of Municipal Engineers.

They must also have a wide experience in all matters appertaining to planning a large Rural Area.

The County of Merioneth includes a considerable area of a suggested National Park and the appointment offers special opportunities in this field. An appreciation of the planning problems appertaining to such an area, with good experience of architectural building control, is desirable.

The successful applicant must be prepared to run a motor car for official purposes, and for which a travelling allowance will be paid.

The salary is consolidated, and the appointment will be subject to the terms and conditions of service applying to the administrative, technical and clerical officers of the County Council. The appointment will be terminable at the end of any month by one month's notice in writing on either side. The successful applicant will be required to pass a medical examination and will be subject to the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, present position and salary, previous appointments held, and full details of experience, accompanied by copies of two recent testimonials, are to be sent to the undersigned not later than Saturday, 3rd September, 1949.

HUGH J. OWEN,
Clerk of the County Council.
County Offices, Dolgelly, Merioneth. 1971

NEWCASTLE-UPON-TYNE REGIONAL HOSPITAL BOARD.
PROPOSED ERECTION OF A PATHOLOGICAL INSTITUTE AT NEWCASTLE GENERAL HOSPITAL.

The Board desires to appoint a practising ARCHITECT (or firm of Architects) to act on its behalf in connection with the above project.

Sketch Plans have been prepared by the Chief Architect to the Ministry of Health, and the practising Architect appointed will be required to carry the project forward from that stage to its final completion.

The proposed building is intended to accommodate on three floors and basement:-

(i) The Regional Blood Transfusion Service,
(ii) The Pathological and the Mortuary and Post Mortem Departments of the Newcastle General Hospital.

(iii) The Pathological Laboratory of the Medical Research Council in the Newcastle area, and the total floor area will be approximately 54,700 sq. ft.

Architects who are willing to receive an invitation to act should forward to the undersigned, by not later than 31st August, 1949, particulars of their special qualifications for carrying out this project, and if not practising within 100 miles of Newcastle, are desired to suggest by what means they would propose to ensure constant supervision of erection and ready liaison with the officers of the Board in Newcastle and of the Medical Research Council in London.

Details of the Board's administrative procedure for architectural projects, including, *inter alia*, committee organization and arrangements for consultation with the appropriate officers of the Hospital Management Committee and the Regional Hospital Board, may be obtained from the undersigned.

E. B. JENKINS,
Secretary.

"Dunira," Osborne Road,
Newcastle-upon-Tyne, 2.
4th August, 1949. 1803

LONDON COUNTY COUNCIL.
QUANTITY SURVEYORS.

Vacancies exist for Quantity Surveyors in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at salaries of up to £700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—
(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, etc.
(b) Management of housing contracts of considerable value; interim valuations for payments; measurement of variations and settlement of final accounts.

Forms of application may be obtained from the Director of Housing and Valuation, The County Hall, Westminster Bridge, S.E.1 (a stamped addressed foolscap envelope required), quoting G.S.1.

Canvassing disqualifieds. (2140) 752

LANCASHIRE COUNTY COUNCIL.
LANCASHIRE ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff:—

(a) SENIOR ASSISTANT ARCHITECTS, Grade III. Salary £685-£760.
(b) SENIOR ASSISTANT ARCHITECTS, Grade II. Salary £635-£710.

(c) ASSISTANT ARCHITECTS, Grade VI. Salary £595-£660.

(d) ASSISTANT ARCHITECTS, Grade V. Salary £550-£570.

Applicants for the above posts should have passed, or attained the equivalent standard of, the R.I.B.A. Final Examination.

(a) JUNIOR ARCHITECTURAL ASSISTANTS, Grade III. Salary £450-£495.

Applicants for the above post should have passed, or attained the equivalent standard of, the R.I.B.A. Intermediate Examination.

(b) JUNIOR ARCHITECTURAL ASSISTANTS, Grade I. Salary £390-£435.

Promotion to higher grades in the case of (a) and (b) is accelerated on passing each stage of the examination of a recognized Professional Institute, and for assistants who show the required ability, as vacancies occur.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, to a satisfactory medical examination, and to the termination of each appointment by one month's notice in writing on either side.

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, P.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Saturday, 10th September, 1949.

R. H. ADCOCK

Clerk of the County Council.

County Offices, Preston. 1807

TYRONE COUNTY COUNCIL.
COUNTY SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECT AND PLANNING OFFICER.

The Tyrone County Council will at its meeting to be held on 13th September, 1949, consider applications from properly qualified persons for the position of Architect and Planning Officer, on the County Surveyor's Staff, at a salary of £700 per annum plus Cost of Living Bonus, at present £90 per annum.

Increments shall be payable from the first day of the financial year, but no officer with less than six months' service at the incremental date shall be entitled to an increment.

The person appointed will be required to provide and maintain a motor car for travelling in connection with his duties, for which he will receive an allowance of £150 per annum.

Candidates must be qualified Architects, holding R.I.B.A. Diploma or equivalent, and must in addition hold qualifications for Planning Officer as prescribed in S.R. & O. No. 146, 1948 (Northern Ireland). The person appointed must devote his whole time to the duties of his office and perform such duties for the Council and its Committees as may be assigned to him.

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

Application in candidates' own handwriting, stating age, qualifications, present occupation and experience, together with copies of not less than three recent testimonials and medical certificate of fitness, must be lodged with the undersigned, from whom any information as to duties and conditions of the office can be obtained, not later than Wednesday, the 7th of September, 1949.

Candidates may be called for interview, and if a reasonable travelling expenses will be allowed.

ARTHUR H. COOTE,

Secretary.

Courthouse, Omagh. 1935
10th August, 1949.

BERKSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT.

Applications are invited for above appointment on a salary commencing within the range of £1,460-£1,760, subject to adjustment when the findings of the Negotiating Committee on Chief Officers' salaries are known.

The department is responsible for maintenance and erection of all County Council buildings, schools and police premises.

Applicants should be Members of the R.I.B.A., with good architectural experience covering a wide field and the ability to organize and manage staff engaged on a rapidly expanding programme. Further particulars regarding the appointment and an application form can be obtained on receipt of a stamped addressed envelope from the undersigned, to whom applications for the appointment should be delivered by not later than Thursday, 15th September, 1949.

H. J. O. NEOBARD,

Clerk of the Council.

Shire Hall, Reading. 1833

MIDDLESEX COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

FOUR DRAUGHTSMEN (A.P.T., 1-£390, rising to £435 p.a., plus £20-£30 London Weighting according to age), required in the Area Planning Sections.

Candidates should be good draughtsmen, preferably with experience of map drawing and/or architectural draughtsmanship. Established, pensionable, subject to medical examination. Applications, stating age and experience, and accompanied by two recent testimonials, to the undersigned by not later than the 16th September, 1949 (quoting F. 955, A.J.). Canvassing disqualifieds.

C. W. RADCLIFFE,

Clerk of the County Council.

Middlesex Guildhall. 1923
Westminster, S.W.1.

CITY OF WAKEFIELD.

CITY ENGINEER'S DEPARTMENT.

PRINCIPAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of one Principal Architectural Assistant on Grade A.P.T. VII (£635-£710).

Applicants should be A.R.I.B.A., and have had good experience in Housing and General Municipal Work.

The appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Candidates must state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications endorsed "Principal Architectural Assistant," stating age, qualifications, present and previous appointments, and details of experience, should be accompanied by copies of two testimonials, and sent to me not later than the 2nd September, 1949.

The Council will give favourable consideration to the provision of housing accommodation.

W. S. DES FORGES,

Town Clerk.

12th August, 1949. 1921

KENT COUNTY COUNCIL.

Applications are invited from Members of the Royal Institute of British Architects for two appointments as SENIOR ASSISTANT ARCHITECT, each at a salary in accordance with the A.P.T. Division, Grade VI (£595-£660). These appointments offer interesting and varied work in the design and erection of Fire, Health, Police and School Buildings.

Candidates should have good experience in the design and supervision of both large and small building schemes, excluding housing, and should be capable of taking charge of such schemes. Previous experience with a Local Authority is not essential.

The posts are superannuable and the successful candidate will be required to pass a medical examination.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, should be delivered to him not later than fourteen days after the date on which this advertisement appears.

W. L. PLATTS,

Clerk of the County Council.

County Hall, Maidstone. 1918

WEST SUSSEX COUNTY COUNCIL.

(AMENDED ADVERTISEMENT).

Applications are invited from suitably qualified persons for the post of ASSISTANT MASTER to teach Architecture at the County School of Arts and Crafts, Worthing. Candidates must be able to prepare students up to the standard of Intermediate Examination of the Royal Institute of British Architects. Salary in accordance with the Burnham Scale for Assistant Teachers in Institutions for Further Education, but the Authority will be prepared to consider the award of an allowance for a post of special responsibility and also the award of increments for industrial experience as provided for in the Burnham Report. Application forms may be obtained from the Director of Education, County Hall, Chichester, on receipt of a stamped (2d.) addressed foolscap envelope, and should be returned within 14 days of the appearance of this advertisement.

T. C. HAYWARD,

Clerk of the County Council.

11th August, 1949. 1919

BOROUGH OF PRESTWICH.
APPOINTMENT OF ARCHITECTURAL ASSISTANT-BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the position of Architectural Assistant. The appointment, which is at present temporary with a guarantee of 5 years' duration and the prospect of a permanency, is on A.P.T. Grade VI (£595-£660), commencing at £615 per annum.

Applicants should hold suitable qualifications and have had some experience in housing.

The appointment will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, experience, etc., together with copies of two recent testimonials, should be sent to the undersigned in envelopes endorsed "Architectural Assistant," so as to be received not later than Saturday, 3rd September, 1949.

Canvassing disqualifieds and applicants must state whether to their knowledge they are related to any member or senior officer of the Council.

F. H. ASHTON,

Town Clerk.

Town Hall, Prestwich, Lancs. 1942

18th August, 1949.

CROWN AGENTS FOR THE COLONIES.

ARCHITECTURAL DRAUGHTSMAN required by the Government of Kenya for four years in first instance. Commencing salary according to experience, in the scale £670 a year rising to £840 a year. Gratuity terms. Free passages. Outfit allowance, £30. Candidates should be accurate and rapid draughtsmen with sound knowledge of building construction and with architect's office experience. Apply at once by letter stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/2427/3D, on both letter and envelope. The Agents cannot undertake to acknowledge all applications and will communicate only with applicants selected for further consideration.

1933

RHONDDA URBAN DISTRICT COUNCIL.

HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the Department of the Council's Housing Architect:—

(a) QUANTITY SURVEYOR. A.P.T., Grade VI (£595-£660).

(b) ASSISTANT ARCHITECT. A.P.T., Grade V (£520-£570).

(c) ASSISTANT ARCHITECT. A.P.T., Grade IV (£480-£525).

(d) ASSISTANT SURVEYOR. A.P.T., Grade IV (£480-£525).

Applicants for post (a) should have experience in the preparation of estimates, Bills of Quantities, interim valuations, and the settlement of final accounts. Preference will be given to Associates of the R.I.C.S. (Quantities Division).

Applicants for posts (b) and (c) need not have had previous Local Government experience, but preference will be given to Associates and Students of the R.I.B.A.

Applicants for post (d) should have experience in surveying and levelling and the preparation of plans for roads and sewers. Preference will be given to candidates holding a recognized technical qualification.

The appointments will be terminable by one month's notice on either side and subject to the National Scheme of Conditions of Service.

The appointments are subject to the Local Government Superannuation Act, 1937, and the successful applicants must undergo a medical examination.

Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, to be delivered to the undersigned not later than Wednesday, the 31st August, 1949.

D. J. JONES,

Clerk of the Council.

Council Offices, Pentre, Rhondda. 1983

BOROUGH OF ILFORD, ESSEX.

APPOINTMENT OF ARCHITECTURAL ASSISTANT-GRADE IV.

Applications are invited for the following appointment on the permanent staff of the Borough Engineer's Department.

Architectural Assistant. Salary in accordance with A.P.T., Grade IV (£510-£555. £10 p.a. less if under 26).

Candidates should be suitably qualified and have general Architectural experience in municipal buildings, particularly with regard to the preparation of contracts and working drawings. The Council is prepared to consider, if necessary, the question of housing accommodation in connection with this appointment.

The appointment will be whole time (private practice being prohibited) and subject to one month's notice on either side, to the provisions of the Local Government Superannuation Act, 1937, the National Conditions of Service, and to medical examination.

Forms of application may be obtained from the Borough Engineer, Town Hall, Ilford, and should be returned to the undersigned not later than the 10th September, 1949.

K. F. B. NICHOLLS,

Town Clerk.

10th September, 1949. 1929

COUNTY BOROUGH OF ROTHERHAM.
SENIOR ARCHITECTURAL ASSISTANT.
Applications are invited for the above appointment in the office of the Borough Engineer in accordance with Grade VI of the A.P.T. Division of the National Scale of Salaries, namely, £595 to £660 per annum, commencing at an incremental point within the Grade according to qualifications and experience of the successful candidate.

Applicants must be Associate Members of the Royal Institute of British Architects.

The architectural work in the department is very varied and consists of Educational, Housing, Health and other types of Local Authority Buildings, and the volume of work is rapidly expanding.

The post is superannuable and the candidate selected for appointment will be required to pass a medical examination. The appointment will be subject to the conditions of service adopted by the Council and based on the National Scheme of Conditions of Service. It will be determinable by one month's notice on either side.

Applicants must state whether they are related to any member or officer of the Rotherham County Borough Council. Deliberate omission to disclose any such relationship will disqualify any candidate. Canvassing of Members of the Council, whether direct or indirect, will disqualify.

Applications, endorsed "Senior Architectural Assistant," stating age, qualifications and experience, accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than the 15th September, 1949.

Housing accommodation will be made available for the successful candidate if married.

JOHN S. WALL, Town Clerk.

Municipal Offices, Rotherham. 12th August, 1949. 1920

CITY OF MANCHESTER.
APPOINTMENT OF CHIEF ASSISTANT ARCHITECT (HOUSING DEPARTMENT).

Applications are invited for the appointment of Chief Assistant Architect, Housing Department. Applicants must be members of the Royal Institute of British Architects and must have had considerable experience of the development of large housing estates, block residential flats and ancillary buildings.

The appointment is classified within A.P.T. Grade X of the National Scales, i.e., £850×£250 to £1,000 per annum, and the starting salary will be commensurate with qualifications and experience.

The appointment is subject to the National Scheme of Service Conditions, and the Standing Orders of the Council. The successful applicant will be required to pass a medical examination and to contribute to the Manchester Corporation Superannuation Fund. Canvassing in any form is prohibited, and relationship to any member of the Council or Senior Officer must be disclosed to me in writing.

Application forms and other particulars may be obtained from my office, and the form when completed must be returned to me, together with copies of three recent testimonials, not later than Friday, 16th September, 1949.

PHILIP B. DINGLE, Town Clerk.

Town Hall, Manchester, 2. August, 1949. 1930

CITY AND COUNTY OF KINGSTON-UPON-HULL.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS, Grade IV, £480—£535 per annum.

(b) ASSISTANT ARCHITECTS, Grade III, £460—£495 per annum.

(c) ARCHITECTURAL ASSISTANTS, Grade I, £390—£435 per annum.

Applicants should not be over 40 years of age (except in the case of applicants who are serving, or have served, in the Forces).

The appointments will be subject to one month's notice on either side, to the National Scheme of Conditions of Service, and the Local Government Superannuation Act, 1937.

Application forms, to be obtained from the undersigned, should be returned complete on or before 12th September, 1949.

ANDREW RANKINE, A.R.I.B.A., City Architect.

Guildhall, Kingston-upon-Hull. August, 1949. 1903

BOROUGH OF PORT TALBOT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the following appointment on the Architecture and Housing staff of the Borough Engineer:—

ARCHITECTURAL ASSISTANT, A.P.T., GRADE IV.

The appointment to be subject to medical examination and contribution to the Superannuation Scheme.

Applications, on forms obtainable from the Borough Engineer, Municipal Buildings, Port Talbot, to be received by the undersigned not later than noon on the 5th September, 1949.

W. KING DAVIES, Town Clerk.

Municipal Buildings, Port Talbot. 22th August, 1949. 1911

MIDDLESEX COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
DEVELOPMENT PLAN OFFICER (£750×£50—£800 p.a. plus London Weighting of £30).
PRINCIPAL PLANNING ASSISTANT and FOUR DEPUTY AREA PLANNING OFFICERS (A.P.T., VIII—£685, rising to £760 p.a. plus London Weighting £30 if 26 years or over).

The Development Plan Officer will have special duties under the County Planning Officer and his Deputy in connection with the survey of the County and the preparation of the Development Plan, and he will be required to undertake such other planning duties as may be assigned to him. The Principal Planning Assistant will be engaged in the Headquarters section of the Department on survey and Development Plan duties. The Four Deputy Area Planning Officers will work under the Area Planning Officers on development control, survey and planning generally in the Areas to which they are appointed.

Candidates should be Members or Associate Members of the Town Planning Institute, with complementary qualifications in one or more of the following: Architecture, surveying, engineering, economics and sociology. They should have good experience of town planning, design and administration, and of collaboration with Borough and Urban District Councils. Established pensionable posts, subject to medical examination and prescribed conditions of service. Applications, stating age, experience, qualifications, etc., and accompanied by three recent testimonials, to the undersigned by not later than 23rd September, 1949 (quoting Y. 954, A.J.), Canvassing disqualifies.

C. W. RADCLIFFE, Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1. 1924

COUNTY BOROUGH OF DEWSBURY.
BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Borough Architect and Buildings Surveyor's Department:—

(a) QUANTITY SURVEYOR—Grade A.P.T., VI. Salary £595—£660 per annum.

(b) ARCHITECTURAL ASSISTANT—Grade A.P.T., V. Salary £520—£570 per annum.

(c) ARCHITECTURAL ASSISTANT—Grade A.P.T., IV. Salary £480—£525 per annum.

(d) ARCHITECTURAL ASSISTANT—Grade A.P.T., V. Salary £520—£570 per annum.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications and full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than 10 a.m. on Monday, 5th September, 1949, in envelopes suitably endorsed.

A. NORMAN JAMES, Town Clerk.

Town Hall, Dewsbury. 11th August, 1949. 1915

COUNTY LONDONDERRY COUNTY COUNCIL.
APPOINTMENT OF COUNTY PLANNING OFFICER.

The above-named Council invites applications for the post of County Planning Officer. The duties involved will include responsibility for all Planning work in the County Rural Area and the Borough of Coleraine, and also the planning work of the Urban District Councils of Portstewart and Limavady, in the event of an appropriate arrangement being made at any time in future between the County Council and one or both of those Authorities.

Applicants should (a) be Members or Associate Members of the Town Planning Institute; (b) have had at least two years' practical experience in the work of Town and Country Planning, and (c) be not less than 28 years of age.

The salary attached to the post is £950 per annum, inclusive of cost-of-living bonus, but a higher salary may be paid to a successful candidate possessing outstanding qualifications and experience.

The person appointed will be required to use his own motor car in the service of the Council, and will be allowed travelling expenses in accordance with the Council's scale, subject to a limit of £150 per annum.

The appointment will be a full-time one and will be on a temporary basis, subject to termination by three months' notice on either side, but may later become permanent and pensionable.

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

Applications, giving age and full details of qualifications and experience (with dates), and accompanied by a Medical Certificate of physical fitness and copies of at least two recent testimonials, will be received by the undersigned up to, but not later than, Wednesday, 31st August, 1949. Applicants are also required to state the date on which they can take up duty if appointed.

J. L. RANKIN, Secretary to County Council.

County Courthouse, Londonderry. 10th August, 1949. 1997

CITY OF WAKEFIELD.
CITY ENGINEER'S DEPARTMENT.
TOWN PLANNING ASSISTANT.
Applications are invited for the appointment of a Town Planning Assistant, Grade IV (£480—£525). The appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Candidates must state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed "Town Planning Assistant," stating age, qualifications, present and previous appointments and experience, should be sent, together with copies of two testimonials, to the undersigned not later than the 2nd September, 1949.

W. S. DES FORGES, Town Clerk.

12th August, 1949. 1922

CITY OF BATH.
CITY ENGINEER'S DEPARTMENT.
ARCHITECTURAL SECTION.

Applications are invited for the appointment of TWO GENERAL ARCHITECTURAL ASSISTANTS on the permanent staff of the City Engineer, salary A.P.T., III or IV (£450—£495 or £480—£525), according to qualifications and experience.

Preference will be given to candidates who are Associate Members of the Royal Institute of British Architects or hold equivalent qualifications, and who have had experience in the design and supervision of housing estates or domestic buildings.

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

Applications, stating age, qualifications and experience, together with names and addresses of three referees, should be sent to the City Engineer, Guildhall, Bath, not later than Saturday, 10th September, 1949.

JARED E. DIXON, Town Clerk.

Guildhall, Bath. 11th August, 1949. 1914

URBAN DISTRICT COUNCIL OF KIDSGROVE.
ARCHITECTURAL ASSISTANT.

The Council invites applications for the post of Architectural Assistant in the Engineer and Surveyor's Department.

Applicants must have a thorough architectural training and must be first class draughtsmen. Preference will be given to those who have passed the intermediate examination of the Royal Institute of British Architects and have experience in connection with municipal housing schemes. The salary will be within Grade A.P.T., II (£400, rising by annual increments of £15 to £465), and the exact position in the grade will be fixed according to the experience and qualifications of the successful candidate.

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

Applications, endorsed "Architectural Assistant," should reach the Engineer and Surveyor, Town Hall, Kidsgrove, not later than 5 p.m. on Monday, 29th August, 1949. Applicants should state whether or not they are related to any member or senior officer of the Council, and canvassing, either directly or indirectly, will be a disqualification.

A house will be made available if the applicant is married and does not live within reasonable distance of Kidsgrove.

O. LLOYD HURST, Clerk of the Council.

Town Hall, Kidsgrove, Staffs. 11th August, 1949. 1996

LLANELLY RURAL DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECT AND SURVEYOR.

Applications are invited for the post of ARCHITECT AND SURVEYOR to the above Council at a salary of £685 per annum, rising by annual increments of £25 to £760 per annum.

Applicants must be qualified Architects, and experience in the design of houses for Local Authorities will be an advantage.

The successful applicant will be responsible for the preparation and carrying through of all the Council's Housing Schemes; the administration of the Town and Country Planning Act, 1947, and the Council's Building Byelaws. He will not be allowed to engage in private practice.

The post will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Conditions of Service, and the successful applicant will be required to pass a medical examination. The person appointed must provide a car, and a travelling allowance will be payable in accordance with the Council's Scale.

The appointment is whole-time and will be terminable by three months' notice on either side.

Applications, stating age, qualifications, present position, and experience, accompanied by copies of three recent testimonials, should be addressed to the undersigned in plain envelopes marked "Architect and Surveyor," and must be received not later than Tuesday, the 6th day of September, 1949.

C. B. HUGHES, Clerk to the Council.

Castle Buildings, Llanelly, Carmar. 1904

LONDON COUNTY COUNCIL. VACANCIES FOR ARCHITECTS, GRADE III, AND TECHNICAL ASSISTANTS IN THE ARCHITECT'S DEPARTMENT.

Applications are invited for the following vacancies in the Architect's Department:—
ARCHITECT, GRADE III. Salary £550 to £700 a year.

TECHNICAL ASSISTANTS. Salary £440 to £580 a year, Section (a).
TECHNICAL ASSISTANTS. Up to 167s. 6d. a week, Section (b).

Required for the preparation of schemes, working drawings, specifications and estimates for works at schools and other buildings.

Commencing rate according to qualifications and experience. Successful candidates are required to contribute to the Council's Superannuation and Provident Fund and are subsequently eligible for permanent appointment and for advancement to higher positions according to merit. Candidates for Grade III positions should possess appropriate professional qualifications.

Application forms may be obtained from the Architect to the Council (AR/P/A), County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelopes. Canvassing disqualifies. (992). 1899

CITY OF PETERBOROUGH. CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT at a salary in accordance with Grade III, A.P.T., i.e., £450, rising by annual increments to £495 per annum.

Applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings under supervision.

The City Council have adopted the National Scheme of Conditions of Service. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Housing accommodation is not immediately available, but the Council will, if necessary, assist as far as they are able the successful applicant to obtain accommodation, but it must be distinctly understood that the Council do not guarantee to find either a house or living accommodation.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, and suitably endorsed, must be delivered to the undersigned not later than 16th September, 1949.

Applicants must disclose whether they are related to any senior official or member of the authority.

ARTHUR J. REEVES,
Town Clerk. 1949

Town Hall, Peterborough.
August, 1949.

BOROUGH OF CLITHEROE.

Applications are invited for the permanent appointment to the staff of the Borough Surveyor and Waterworks Engineer of:—

ARCHITECTURAL ASSISTANT, Grade A.P.T., II, £420-£465 per annum.

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

Appointments will be subject to one month's notice on either side. Applicant for appointment must have had architectural training and experience in the design and preparation of plans and details for houses. Preference will be given to applicants who have passed some part of the examination of a recognised professional body.

Housing accommodation will be provided if required. Applications, stating age, education, qualifications and experience, in envelopes endorsed "Architectural Assistant," must reach the undersigned not later than 12 noon, Saturday, 3rd September, 1949. Canvassing in any form will disqualify.

G. HETHERINGTON,
Town Clerk. 1950

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointment in the Architect's Section of the Chief Engineer's Department in Central London:—

QUANTITY SURVEYOR. Commencing salary £900 per annum.

Applicants must be qualified in the Quantities Sub-division of the R.I.C.S. and have had considerable experience in a Quantity Surveyor's Office.

Applicants should be competent to take responsibility for the preparation of Bills of Quantities, Estimates, Measurement of Works on site, preparation of Interim Certificates and checking of final accounts.

The salary for the above post is provisional, and the salary and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidate will be required to contribute to a Superannuation Scheme, and may be required to pass a medical examination.

Applications should be made on forms obtainable from the Establishments Officer, 46/47, New Broad Street, E.C.2, and returned duly completed by 5th September, 1949, quoting reference ESB/V/302. 1944

CITY OF CARDIFF.

QUANTITY SURVEYING ASSISTANTS.

Applications are invited for the appointment of Quantity Surveying Assistants as follows:—

(1) 2 No. Quantity Surveying Assistants, A.P.T., Grade 5a.

(2) 3 No. Quantity Surveying Assistants, A.P.T., Grade 5.

(3) 1 No. Quantity Surveying Assistants, A.P.T., Grade 4.

Preference will be given to Candidates who are Corporate Members of the Royal Institute of Chartered Surveyors.

The Council will assist in finding housing accommodation for successful applicants, who are married and have children.

Applications, endorsed "Quantity Surveying Assistant, Grade _____," as the case may be, should be delivered to the undersigned not later than Friday, 9th September, 1949.

Details of the Conditions and Duties may be obtained from the City Surveyor, City Hall, Cardiff.

S. TAPPER-JONES,
Town Clerk. 1965

City Hall, Cardiff.
19th August, 1949.

METROPOLITAN BOROUGH OF PADDINGTON.

HOUSING DEPARTMENT.

Applications are invited for the following appointments in the Housing Department, Architectural Section (which also deals with all Council's building work). Appointments (a), (c), (d) and (e) are on the permanent establishment, and appointment (b) is on the temporary establishment of the Department.

(a) SURVEYING ASSISTANT (ESTIMATING).—Salary, A.P.T., I, II and III, (£390×£415-£465 per annum), plus London "weighting," according to age.

Applicants should have experience in all branches of building work, particularly in connection with the preparation of estimates and specifications for alterations to and maintenance of housing property and public building, including the supervision of contract work and the preparation of final accounts. Preference will be given to candidates who have passed or are in an advanced stage of preparation for the intermediate examination of the Royal Institution of Chartered Surveyors (Building or Quantities Section).

(b) SECOND SURVEYING ASSISTANT (Estimating).—Salary equivalent to A.P.T. I and II (£390×£415-£465 per annum) plus London "weighting" according to age.

The experience and qualifications required for this post are similar to those detailed in the appointment mentioned above, but the work will be carried out under the supervision of the Surveying Assistant (Estimating).

(c) SENIOR ARCHITECTURAL ASSISTANT. —Salary A.P.T., IV and V (£480-£570 per annum), plus London "weighting" according to age.

Applicants must be Registered Architects, preferably Associates of the Royal Institute of British Architects, and have had extensive experience in architectural design and construction of general municipal work, including multi-storey flats.

(d) ARCHITECTURAL ASSISTANT.—Salary A.P.T., IV (£480×£415-£525 per annum), plus London "weighting" according to age.

Candidates must be suitably qualified, have had a good general architectural training and experience, and possess a sound knowledge of construction; experience in multi-storey blocks of flats will be an advantage. Preference will be given to candidates who have passed or are in an advanced stage of preparation for the Final Examination of the Royal Institute of British Architects.

(e) TWO ARCHITECTURAL ASSISTANTS.—Salary A.P.T., II (£420×£415-£465 per annum), plus London "weighting" according to age.

Applicants must have passed or be in an advanced stage of preparation for the Intermediate Examination of the Royal Institute of British Architects, be used to preparing working and detail drawings, and be good draughtsmen.

These appointments will be subject to one month's notice on either side, to the provisions of the Council's Superannuation Acts and Standing Orders, and to the National Joint Council's Scheme of Conditions of Service. The commencing salary will, in each case, be at an appropriate point within the grade(s), dependent upon the qualifications and experience of the successful candidate.

Applications for these appointments, stating age, qualifications, present and previous appointments, with salaries, and experience, together with the names of three authorities or persons to whom reference may be made, should be delivered to the undersigned, in an envelope clearly indicating the appointment for which application is being made, not later than noon on Wednesday, 7th September, 1949. No forms of application will be issued.

Candidates must state in writing whether, to their knowledge, they are related to any member or senior officer of the Council.

Canvassing, directly or indirectly, will disqualify.

W. H. BENTLEY,
Town Clerk. 1968

Town Hall, Paddington, W.2.
25th August, 1949.

KING'S COLLEGE HOSPITAL, DENMARK HILL, LONDON, S.E.5.

Applications are invited for the position of ARCHITECTURAL DRAUGHTSMAN in the Architect's Department of this Hospital. Candidates should be capable of carrying out surveys quickly and accurately. Experience of Hospital work would be an advantage.

The salary will be within the range of £480 to £525 a year, according to experience, plus London Weighing up to £30 a year according to age. The appointment will be subject to the National Health Service (Superannuation) Regulations, 1947/48, and the successful candidate will be required to pass a medical examination.

Applications, stating age, education, qualifications and full details of experience, and enclosing copies of two testimonials, to be sent to the undersigned not later than September 12th.

S. W. BARNES,
House Governor and Secretary. 1946

HERIOT-WATT COLLEGE, EDINBURGH. BUILDING DEPARTMENT.

The Governors invite applications from British subjects under 45 years of age holding recognised qualifications in Building, Architecture or Structural Engineering, with teaching and practical experience, for the appointment of HEAD of the BUILDING DEPARTMENT, to take up duty as early as possible in 1950. Salary, £900×£25-£1,050. Forms of application, which may be obtained with further particulars from the College, must be submitted on or before 23rd September, 1949.

J. CAMERON SMALL,
Principal. 1955

CROWN AGENTS FOR THE COLONIES.

ARCHITECTURAL ASSISTANT required by Government of Somaliland Protectorate for tour of 12-18 months in first instance. Commencing salary according to experience and qualifications in the scale £640×£20-£800 per annum. No local income tax. Free passages. Liberal leave. Candidates should have had at least 5 years' experience in an Architect's office. Professional qualifications and knowledge of town planning advantages. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/24194/3D on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications and will communicate only with applicants selected for further consideration. 1917

WELWYN GARDEN CITY AND HATFIELD DEVELOPMENT CORPORATIONS invite applications from suitably qualified and experienced persons for the appointment of SENIOR QUANTITY SURVEYOR at a salary of £1,250 p.a. Candidates should either be Fellows or Associates of the Royal Institute of Chartered Surveyors (Quantities Division). The duties of the appointment will include the preparation and management of Value-cost contracts, the preparation of Bills of Quantities for, and measurement of work in construction of houses, factories and public buildings, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts, preparation of statistics, estimates, etc., handling of housing contracts of considerable value, interim valuations for payments, measurement of variations and settlement of final accounts. Applications, giving age, full details of present and past experience, and appointments held, together with the names of three persons to whom reference may be made, should be addressed to the General Manager, Midland Bank Chambers, Welwyn Garden City, and be received not later than 14 days from the appearance of this advertisement. 1960

BOROUGH OF LUTON. BOROUGH ENGINEER'S DEPARTMENT. TECHNICAL STAFF.

Applications are invited for the following vacant appointments:—

(A) PRINCIPAL ARCHITECTURAL ASSISTANT (A.P.T., Grade VIII, £685×£25-£760 per annum).

(B) SENIOR ARCHITECTURAL ASSISTANT (A.P.T., Grade VII, £635×£25-£710 per annum).

Housing accommodation will be made available to the successful candidates if required.

Applicants should be A.R.I.B.A., and have extensive municipal experience, especially in housing and school works.

The appointments will be subject to the Local Government Superannuation Act, 1937, to the National Scheme of Conditions of Service, and to the successful candidates passing a medical examination.

Applications, appropriately endorsed, giving details of age, qualifications, experience, present appointment, and salary, and accompanied by names of three persons to whom reference may be made, should be sent to:—The Borough Engineer, Town Hall Luton, not later than first post on Monday, 8th September, 1949. Canvassing will disqualify. Applicants must disclose if they are related to any member or senior officer of the Council.

W. H. ROBINSON,
Town Clerk. 1969

Town Hall, Luton.
18th August, 1949.

**COUNTY BOROUGH OF WEST
HARTLEPOOL.
APPOINTMENT OF QUANTITY SURVEYOR.
GRADE A.P.T. VI.**

Applications are invited for the appointment of Quantity Surveyor in the Borough Architectural Department at Grade A.P.T. VI (£595-£660) of the National Scales of Salaries.

The appointment is subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities, Administrative, Professional, Technical and Clerical Services (with the exception of Paragraph 39), and the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications, previous and present appointments, details of experience, together with copies of recent testimonials, are to be sent to S. M. Richmond, F.R.I.B.A., A.M.T.P.I., Borough Architect, Municipal Buildings, West Hartlepool, not later than Saturday, 3rd September, 1949.

The Council are prepared to consider the allocation of housing accommodation to the successful applicant if required.

ERIC J. WAGGOTT,

Town Clerk.

Municipal Buildings,
West Hartlepool.
August, 1949. 1967

**CITY OF CARDIFF.
ARCHITECTURAL ASSISTANTS (HOUSING).**
Applications are invited from experienced Architectural Assistants for the following appointments:—

- (1) Architectural Assistant—A.P.T., Grade 6.
- (2) Architectural Assistant—A.P.T., Grade 4.
- (3) Architectural Assistant—A.P.T., Grade 3.

The Council will assist in finding housing accommodation for successful applicants, who are married and have children.

Details of the Conditions and Duties may be obtained from the City Surveyor, City Hall, Cardiff.

Applications, endorsed "Architectural Assistant, Grade — (Housing)," as the case may be, should be delivered to the undersigned not later than the 9th September, 1949.

S. TAPPER-JONES,

Town Clerk.

City Hall, Cardiff.
19th August, 1949. 1964

**CITY OF CARDIFF.
ARCHITECTURAL ASSISTANTS (GENERAL).**
Applications are invited from experienced Architectural Assistants for the following appointments:—

- (1) Architectural Assistant, A.P.T., Grade 7.
- (2) Architectural Assistant, A.P.T., Grade 6.
- (3) Architectural Assistant, A.P.T., Grade 4.

The Council will assist in finding housing accommodation for successful applicants, who are married and have children.

Details of the Conditions and Duties may be obtained from the City Surveyor, City Hall, Cardiff.

Applications, endorsed "Architectural Assistant, Grade — (General)," as the case may be, should be delivered to the undersigned not later than the 9th September, 1949.

S. TAPPER-JONES,

Town Clerk.

City Hall, Cardiff.
19th August, 1949. 1963

**CITY OF CARDIFF.
ARCHITECTURAL ASSISTANTS
(EDUCATION).**
Applications are invited from experienced Architectural Assistants for the following appointments:—

- (1) Architectural Assistant, A.P.T., Grade 6.
- (2) Architectural Assistant, A.P.T., Grade 5.
- (3) Architectural Assistant, A.P.T., Grade 4.

The Council will assist in finding housing accommodation for successful applicants, who are married and have children.

Details of the Conditions and Duties may be obtained from the City Surveyor, City Hall, Cardiff.

Applications, endorsed "Architectural Assistant, Grade — (Education)," as the case may be, should be delivered to the undersigned not later than the 9th September, 1949.

S. TAPPER-JONES,

Town Clerk.

City Hall, Cardiff.
19th August, 1949. 1962

WELSH REGIONAL HOSPITAL BOARD.
Applications are invited for the following permanent posts on the Board's Headquarters staff:—

- (a) ASSISTANT ARCHITECT. Salary A.P.T., Grade VIII (£685-£760).
- (b) ASSISTANT ARCHITECT. Salary A.P.T., Grade V (£520-£570).

- (c) ARCHITECTURAL ASSISTANT. Salary A.P.T., Grade III (£450-£495).

Applicants for posts (a) and (b) must be registered Architects and have passed the final examination of the R.I.B.A. They should have had wide experience in planning and construction, and in the preparation of working drawings for important hospital buildings. Applicants for post (c) must have passed the intermediate examination of the R.I.B.A.

(d) SENIOR ASSISTANT QUANTITIES SURVEYOR. Salary, A.P.T., Grade VIII (£675-£760).

Applicants must have passed the final examination of the Royal Institute of Chartered Surveyors (Quantities Division) or be otherwise suitably qualified, and should be familiar in all respects with a quantities surveyor's duties, including the preparation of estimates and bills of quantities.

The appointments are subject to the provisions of the National Health Service (Superannuation) Regulations, 1947 and 1948.

Applications, stating age, qualifications and experience, together with the names of two referees, should be addressed to the Secretary, Temple of Peace & Health, Cathays Park, Cardiff, so as to reach him not later than September 10, 1949. 1957

Tenders for Contracts

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

PEMBROKESHIRE COUNTY COUNCIL.

EDUCATION COMMITTEE.

NEW SECONDARY SCHOOL, FISHGUARD.

PRELIMINARY SITE WORKS.

Public Works Contractors are invited to tender for the Preliminary Site Works for the Proposed New Secondary School at Fishguard, and are requested to submit their applications to Walter Barrett, M.B.E., A.R.I.B.A., County Architect, County Offices, Haverfordwest, Pembrokeshire. The works include the removal of hedges, approximately 30,000 yards cub of excavation to reduce levels, and the construction of approximately 240 yards lineal 9-in. cast iron sewer, and sundry other works.

General Conditions and Bills of Quantities will be supplied on receipt of £5 ss. Od. deposit, returnable upon receipt of a bona fide Tender. Drawings can be inspected at the office of the County Architect during the usual working hours.

Contractors will be required to state the Mechanical Earth Moving Equipment they have available for the work, and to provide proof that they are in a position to provide the necessary labour to carry out the works.

Sealed tenders must be submitted in the endorsed envelope provided for the purpose and forwarded to the Clerk to the Education Committee, County Offices, Haverfordwest, Pembrokeshire, to reach him not later than 12 noon on Thursday, 8th September, 1949.

D. T. JONES,

Clerk to the Education Committee.

County Offices,
Haverfordwest, Pembs.
15th August, 1949. 1925

Partnership and Financial

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

CHARTERED ARCHITECT AND QUANTITY SURVEYOR (48) would welcome contact with established Architect in either Sussex, Hampshire or Dorset, with a view to partnership. Advertiser has had considerable experience in commercial work and has good prospect of introducing valuable clients. Box 1903.

Architectural Appointments Vacant

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

SENIOR ARCHITECT required to take control of the Architectural Section in the Chief Engineer's Department of the Board; candidates, preferably not under 35 years of age, must be qualified members of the R.I.B.A., experienced in the design and construction of industrial buildings, including canteens and welfare centres; applicants should state age and experience; the appointment is of a permanent nature, and pension terms will be discussed with short list candidates; minimum starting salary £750 p.a., depending on qualifications. Applications should be sent to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8. 1703

QUANTITY SURVEYOR, with knowledge of pricing, urgently required for country district; state age and qualifications and experience. Lion Green Works Ltd., Horam, East Sussex. 'Phone: Horeham Road 14. 1514

ARCHITECTURAL ASSISTANTS required immediately in offices at Newton Abbot, Tavistock and Plymouth; applications should have attained at least R.I.B.A. Intermediate standard, and should write, stating age, experience and salary required, to L. F. Vansone & Partners, Chartered Architects, Surveyors, National Provincial Bank Chambers, Tavistock. 1761

ARCHITECTURAL ASSISTANT required, of Intermediate R.I.B.A. standard, and with some previous experience in an architect's office; salary according to ability. Write, stating age and experience, to Staff Officer, Handley Page, Ltd., Cricklewood, N.W.2. 1798

ARCHITECTURAL ASSISTANTS required immediately for interesting and varied work on Schools, Hospitals, University Buildings, Housing, etc.; salary dependent on experience and qualifications. Apply personally by telephone or in writing. Pite Son & Fairweather, Chartered Architects, 6, Queen Anne's Gate, Westminster, S.W.1. Whitehall 5576. 1862

JUNIOR ARCHITECTURAL ASSISTANT required, with some office experience and at least R.I.B.A.; Intermediate standard. Welch & Lander, F.R.I.B.A., 38, Gloucester Place, W.1. Welbeck 6551. 1870

QUALIFIED or fully experienced **ASSISTANT** required for permanent and progressive position in Company Architect's office in the Midlands. Applicants are requested to give full particulars of training, age, and salary required, to Box 1822.

ARCHITECTURAL ASSISTANT required for interesting and varied work; must have passed Intermediate examination. Reply, quoting age and experience, to Personnel Dept., Fort Dunlop, Erdington. 1839

ARCHITECTURAL ASSISTANT—A vacancy exists in a London office for an experienced Assistant, with knowledge of Commercial and Industrial Buildings; some experience in domestic work, including conversions, an advantage; salary by arrangement. Box 1848.

THE MILK MARKETING BOARD require an **ASSISTANT** in their Architect's Department, capable of preparing specifications for new work and for alterations and maintenance of existing buildings; must have sound experience and also be able to supervise works in progress; ability to prepare detail and working drawings of minor schemes an advantage; salary £325 per annum. Applications, giving full details, should be addressed to the Chief Administrative Officer, Milk Marketing Board, Thames Ditton, Surrey. 1877

ARCHITECTS' ASSISTANTS required in the Architects' Dept., F. W. Woolworth & Co., Ltd., Head Office, 1-5, New Bond Street, London, W.1. Applicants should write in giving full details of training, qualifications, experience, and salary required, to H. Winbourne, F.R.I.B.A., Architect. 1879

EXPERIENCED ARCHITECTURAL ASSISTANT required for permanent and progressive appointment in a Birmingham office; salary up to £750 per year, according to qualifications. Box 1886.

ARCHITECT'S ASSISTANT; good knowledge of building construction, preliminary surveys, working drawings, etc. Reply R.F./Express Dairy Co., Ltd., 15-17, Tavistock Place, London, W.C.1. 1887

ARCHITECTURAL DRAUGHTSMAN required immediately by London Contractors for position in British West Indies; sound constructional knowledge; able to produce working drawings from sketches without supervision; good prospects; salary according to experience, etc.; applicants should write, stating age, experience, salary required; full particulars of position given at interview. Box No. U4687, A.K. Advgn., 212a, Shaftesbury Avenue, W.C.2. 1890

ARCHITECTURAL ASSISTANTS of Junior and Intermediate Standard required in West End office. Salary £400 to £700, according to experience and qualifications. Five-day week. Box 1932.

JUNIOR ASSISTANT required in Architect's office on Sussex coast; applicants must be good draughtsmen with knowledge of construction; capable of preparing accurate surveys, also working and detail drawings. Write, stating age, experience and salary required, Box 1933.

CLIFFORD TEE & GALE require **JUNIOR ASSISTANT**, Intermediate standard. Five-day week. 153, Moorgate, E.C.2. Tel. Central 6683. 1934

TWO Qualified **ARCHITECTURAL ASSISTANTS** required with experience of design and working drawings, in private office, London West Central area; salaries £500 and £700. Apply, giving particulars of experience, to Box 1936.

ARCHITECTURAL ASSISTANT (R.I.B.A. qualification), required in I.O.W. office. Able draughtsman, details, specification and competent to supervise. Possibility of newly built house available. Full particulars and salary required, to Box 1939.

ASSISTANT ARCHITECT required for responsible post in busy general practice (10 miles from London). Office experience essential. R.I.B.A. qualifications desirable; some knowledge of School or Hospital design an advantage. Apply by letter, giving age, experience and salary required, to Tooley & Foster, F./A.R.I.B.A., Chartered Architects, Midland Bank Chambers, Buckhurst Hill, Essex. 1940

ARCHITECT'S AND SURVEYOR'S ASSISTANT required, Intermediate standard, for S.W. London office. Hammond J. Harvey, A.R.I.B.A.; Prospect 6954. 1943

ARCHITECTURAL ASSISTANT required for work in connection with Rural Housing, Ecclesiastical, Industrial and General Private practice. Applicants should write stating experience, age and salary required. D. C. Denton-Smith, L.R.I.B.A., 40, Regent Street, Cambridge. 1909

JUNIOR ARCHITECTURAL ASSISTANT required (male or female) for general practice. Write, stating age, experience and salary required, to G. Scott Baird, Chartered Architect, Salisbury Street, Blandford, Dorset. 1996

WANTED.—CHIEF ASSISTANT to manage under Principal for medium sized office in the West Country. Experienced man required, competent in design and in the preparation of specifications, estimates, etc. Must be able to organise, control and supervise work in office and interview clients. State full particulars of training, experience, age, and salary required, to Box 1906.

SENIOR ARCHITECTURAL ASSISTANT. R.I.B.A., Final Standard, required for busy General Practice in Oxfordshire. Probability of partnership to right man. Box 1902.

ARCHITECTS require competent ASSISTANT, used to detailing and specifications, able to carry through small jobs completely. Full details and salary required, to "Assistant," 4, Market Hill, Huntingdon. 1900

ARCHITECT'S ASSISTANT required. Intermediate R.I.B.A. or equivalent standard. Experienced in commercial and industrial buildings, preferably Retail Stores. Liberal salary; permanent position. Write fully, stating age, training, experience, Staff Office, Busbys (Bradford), Ltd., Department Store, Manningham Lane, Bradford. 1898

ARCHITECTURAL ASSISTANT required immediately. Intermediate standard, for varied and interesting work. Must be neat and accurate draughtsman with keen interest in design. Apply Jack Cotton, Ballard & Blow, Architects and Surveyors, Kings Court, Forty Lane, Wembley Park, Middlesex. 1945

WEST RIDING Architects require ASSISTANT for busy general practice; industrial, hospital and housing work; excellent prospects for reliable man. Box 1947.

ARCHITECT'S ASSISTANT of Intermediate Standard or higher, required for Architect's Dept. of a Multiple Firm with offices in Birmingham. Applicants should have a sound knowledge of Construction and Surveying and should be able to produce Working Drawings details under supervision. Salary in accordance with experience and qualifications, etc. Apply in first instance to Box 1948, enclosing copies of recent testimonials.

JUNIOR ASSISTANT required, Intermediate Standard. Apply, stating age, experience and salary required, to Messrs. Burgess, Holden & Watson, Beaconsfield, Bucks. Tel. 1198. 1951

ARCHITECTURAL ASSISTANT (Intermediate Standard) required in Architects' West End Office. Current works include Licensed Premises and Blocks of Flats. Previous experience desirable but not essential. Reply, stating salary required, Box 1950.

REASONABLE commencing salary and good prospects offered to competent **ARCHITECTURAL DRAUGHTSMAN** capable of producing accurate working drawings. R.I.B.A. qualifications not necessary but experience on working drawings essential. Telephone: Edward Armstrong and Frederick MacManus, F.F.R.I.B.A. (Welbeck 3820 and 3920). 1952

ASSISTANT required by Quantity Surveyors for Branch Office, Harrow. Must have experience in working up, measuring, and final accounts. Reply in writing, stating age, education, training, experience, with dates and salary required, George Lewis & Son, 49, Sheepcote Road, Harrow, Middlesex. 1954

LONDON firm now engaged on large building schemes for medical and scientific purposes, requires **ARCHITECTURAL ASSISTANTS**, qualified A.R.I.B.A., with office experience of surveys and the preparation of working drawings. Write, stating qualifications, etc., and salary required, Box 1955, or telephone Welbeck 8962.

SENIOR and JUNIOR ASSISTANTS urgently required by Lanchester & Lodge, 10, Woburn Square, W.C.1. Salary by arrangement. Ring Secretary at Museum 0845 for appointment. 1961

SENIOR ARCHITECT required for responsible post in private practice in Derby. Interest in contemporary design essential. Good premises and working conditions. Salary from £500 to £700, according to experience. Share of profits. Box 1966.

Architectural Appointments Wanted

SCOTSMAN would like to hear from an Architect who would be interested in accepting his 20 years' experience in the Building profession with his full-time services in return for experience in his office with a moderate salary. Box 1875.

A. R.I.B.A., 40, with 20 years' experience in industrial and commercial work, desires position as principal assistant for probationary period with a view to partnership. Connections with some work in prospect. Box 353.

SENIOR ASSISTANT, A.A. School trained, 25 years' varied experience, desires responsible position; London area. Box 348.

ASSOCIATE, age 39, with wide experience of Government and private work at home and abroad; wishes to obtain a permanent, responsible and administrative position; car owner. Box 352.

CHARTERED and qualified **ARCHITECT** at present studying for degree in Town and Country Planning, with 20 years' experience, including industrial, housing, agricultural and hospital work, good knowledge surveying, levelling, and quantities, desires position which would lead to partnership or permanent position; car owner. Box 351.

ARCHITECT, forced to leave London for medical reasons, will undertake work in provinces. Specialist in modern design and constructional research. Please reply, stating nature of work, to Box 350.

ARCH. A.R.I.B.A., aged 31, experienced, and used to taking responsibility, now convalescing after year's illness, wants to recommence work with part-time position, preferably working at home, about 20-25 hours per week. London area. Box 354.

ARCHITECTURAL DRAUGHTSMAN requires post immediately in London. All working drawings, details, surveys, etc. Box 355.

A. R.I.B.A., 15 years' office experience, school area; salary £11 per week. Box 338.

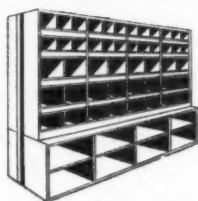
Other Appointments Vacant

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

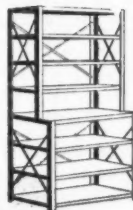
EXPERIENCED MEASURING SURVEYOR required by Messrs. Holloway Brothers (London), Ltd., for a large Building and Civil Engineering Contract, in South of England; must be capable of measuring for interim payments, measuring and agreeing work on schedule rates, and preparing final account; opportunity for suitable applicant to join permanent staff. Apply in writing, giving full particulars of age, experience, and salary required, to the Secretary, 157, Millbank, S.W.1. 1411

DESIGNER DRAUGHTSMAN AND RENDERER required; preferably with experience of shop and store design; good prospects for man having design ability; staff superannuation scheme; 5-day week; submit samples of recent work and give full particulars as to education, experience, and monthly salary desired. Apply Courtney Pope, Ltd., Amhurst Park Works, Seven Sisters Road, Tottenham, N.15. 1787

ALL IN PLACE IN LESS SPACE!



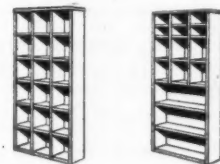
Adjustable Counter Type Bins in wide selection



Single or double sided Open Type Shelving



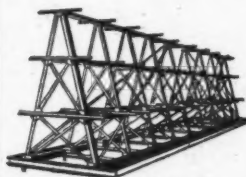
Unit Construction Bins for immediate flexibility



Standard Bin Units for all small components



Universal Racks for "awkward" components



Bar Racks in big variety

And you can start right now! Timson Bros. offer you really prompt delivery of Bins, Racks, Shelving, Clothes Lockers, Work Trays, etc., to standard sizes, single or in series, or to your own particular specification. Send at once for fully illustrated catalogue to:—

TIMSON Bros (ENGLAND) LTD

HEAD OFFICE: MOOR STREET, BIRMINGHAM, 4. Mid. 3301.

Also at Jamaica Street, Liverpool Tel: Royal 4307 and St. Mary's Place, Newcastle-on-Tyne Tel: 22278

REQUIRED.—REPRESENTATIVE, with suitable connections, for obtaining orders for Fabrication and Erection of Steel Buildings. Box 1725.

ARCHITECTURAL Journal requires **EDITORIAL ASSISTANT**; knowledge of architecture essential; some journalistic experience and knowledge of magazine production useful. Box 345.

DRAFTSMEN wanted; used to Metal Windows and Brake press work. Apply Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17. 1826

DRAFTSMEN wanted, with Architectural Metal-work experience. Apply Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17. 1827

ESTIMATORS required; used to Architectural Metal-work. Apply personally or by letter to Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17. 1828

ESTIMATORS wanted; used to Brakepress work. Apply personally or by letter to Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17. 1829

EXPERIENCED DRAFTSMAN required in Architect's Department of large South London Building Company, mainly for housing work. Salary £300/£450 p.a., according to qualifications. Write, giving age, qualifications. Box A.C. 43695, Samson Clark's, 57/61, Mortimer Street, W.1. 1916

EXPERIENCED TAKER-OFF required for permanent situation in Quantity Surveyor's London office. Salary £450 p.a., plus overtime. Five-day week. Excellent prospects. One week's holiday this autumn. Box 1927.

JUNIOR TAKER-OFF required for permanent situation in Quantity Surveyor's London office. Salary £450 p.a., plus overtime. Five-day week. Excellent prospects. One week's holiday this autumn. Box 1928.

COMPETENT SHORTHAND-TYPIST required in London Architects' office. Small staff and interesting work. Telephone: Edward Armstrong and Frederick MacManus. F.F.R.I.B.A. (Welbeck 3820 and 3920). 1963

Services Offered

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

DESIGNS, Plans, Perspectives, for all trades and professions. C. Leslie New, A.N.Inst.E. 182, Sladepool Farm Road, Birmingham, 14. Tel.: MID. 5421. 623

DRAFTSMANSHIP, Designing and Artistry for Architectural Metalwork, Shopfronts, Interiors, Neon Signs, Display, etc. "New" Services, 85, Heath Street, Birmingham, 18. Phone MID. 5421. 624

COMPETITION DESIGNS developed and rendered by Professional Draughtsman-Designer. C. Leslie New, A.N.Inst.E., 182, Sladepool Farm Road, Birmingham, 14. Tel.: MID. 5421. 1317

PROFESSIONAL MODEL-MAKER undertakes Modelling Work in spare time; Architectural, Topographical, etc. Box 1783.

PART-TIME ASSISTANCE offered to Architects for building and land surveys, levelling, contouring, etc., for housing, school, factory, etc.; sites; own car and equipment. Box 1869.

SURVEYS, Designs, Working Drawings, Tracings and Specifications prepared. "Architectural Services", 14, Greenford Road, Greenford, Middlesex. Perivale 7040. 1840

EXPERIENCED ARCHITECTURAL DRAFTSMAN will undertake exhibition designs, interior designs, work for publication, perspectives, and general architecture; London area. Box 1816.

CHARTERED ARCHITECT, with wide experience in profession, offers services to Architects in London area, in the preparation of working drawings, specifications, schedules, reports, etc. Box 1782.

WELL-KNOWN firm of London ARCHITECTS able to carry out "Ghosting" during temporary slack period. Box 1931.

A.R.I.B.A. offers part-time assistance in London, preferably at own address. Experienced, competent to carry through schemes from design to completion. Box 1941.

YOUNG LADY, A.R.I.B.A., with almost two years' experience in private practice, requires part-time work, preferably at home. Box 1907.

For Sale

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

THOROUGHLY seasoned Home Grown Hardwood for Sale; 1 in., 1½ in. and 1¾ in. Oak, 2 in. and 1½ in. Elm; mixed Hardwood in sizes 4 ft. 3 in. by 2 in. by 1 in., 3 ft. 3 in. by 1½ in. by 1 in., 3 ft. 11 in. by 1½ in. by 1 in. Timberies, Ltd., Oozells Street, Birmingham, 1. 705

RED Sable Water Colour Brushes, Nos. 04; sample set (7 brushes), 22s. 6d., post free; c.o.d. extra. Spur Artists Brush Co., 12, Duke Street, St. James's, London, S.W.1. Whitehall 6640/6988. 682

Miscellaneous

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

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of fencing, guard rail, factory partitions and gates. Harvest Works, 99-107, St. Pauls Road, N.1. Canonbury 3061.

£50 FOR ONE JOB Architectural Modelling pays! We supply Plans, Instructions, and sell your work. Details free. B5, Biltex Models, London, W.4. 1906

FRAMING and MOUNTING of Drawings and Plans is a special service offered to Architects by The Rowley Gallery, Ltd., 87, Campden Street, Kensington Church Street, W.8. Park 4349. 1345

FLOORS OF DISTINCTION Laid in wood, rubber, composition, cork, mosaic; existing floors repaired, resurfaced and polished; also panelling restored. Davis Floorings, Grove Hall Court, Hall Road, N.W.8. CUN. 3206/6 and 6616. 400

ALL Kinds of Fencing supplied and erected; established over 100 years. Parker, Winder & Achurch, Ltd., 80, Broad Street, Birmingham 1.

ROGENTS PARK DISTRICT—Light room to let, suitable for professional man. Rent £2 per week. Use of telephone if required. Box 1937.

ANTIQUE and MODERN IRONMONGERY for all classes of jobs. Specialists in Wire Gym Kit Lockers and Towel Cages for schools, swimming pools, etc. Write for list, A1C80, stating requirements, or ask for representative to call, Parker, Winder & Achurch, Ltd., 80, Broad Street, Birmingham, 1. (Midland 5001). 1913

LONDON COUNTY COUNCIL

BRIXTON SCHOOL OF BUILDING

Ferndale Road, Brixton, S.W.4 (Tel. BRIXton 2068/9)

Principal: D. A. G. REID, B.Sc.(Eng.), A.M.I.C.E., A.M.I.Struct.E.
Head of Senior School: E. M. RICE, F.R.I.B.A., Dip. Arch. (Leeds)

Full Time Courses in Building, Architecture, Structural Engineering Surveying, Decoration and Painting.

Session 1949-50
commences Tuesday, 6th September, 1949

Three or five year courses provide training for professional, administrative and executive positions in the building industry and prepare students for the examinations of the Institute of Builders, Royal Institute of British Architects, Institution of Structural Engineers, Royal Institution of Chartered Surveyors and Institute of British Decorators.

Part Time Day and Evening Courses: National Certificate Courses in Building, Structural Engineering, Civil Engineering; Preparation for Architects' Surveyors' and Decorators' Examinations: City and Guilds Courses in Building Trades.

Workshops available for all Building Trades.

Full particulars may be obtained from the Secretary at the School (497a)

SAFETYLYTE guards

The Adelphi Hotel Liverpool

It is not only in buildings required by law to provide emergency lighting that you will find Tudor 'Safetylyte' equipment installed. This automatic system, instant in action and particularly reasonable in its need for battery maintenance, is in demand wherever mains interruption can cause risk to life or property. When you are planning new buildings, the Tudor Company's engineers are always ready to discuss and advise.



Write for publication No. 81/20

THE TUDOR ACCUMULATOR COMPANY LIMITED, 59 GROSVENOR GARDENS, LONDON, S.W.1

Educational Announcements

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

R.I.B.A. and T.P.I. EXAMINATIONS.
R. Mr. L. Stuart Stanley, M.A., F.R.I.B.A.,
Dist.T.P., M.T.P.I., Tutor in the Bartlett School
of Architecture, London University, prepares
candidates by correspondence tuition. 15, North
Road, N.5. Tel.: MOUntview 8104.

THE POLYTECHNIC, 309, REGENT STREET, W.1.
**SCHOOL OF ARCHITECTURE, SURVEYING
AND BUILDING.**

President of the School: SIR BANISTER FLETCHER,
D.Lit.(Lond.), M.Arch., F.P.R.I.B.A.
Head of the School: JOHN S. WALKDEN, F.R.I.B.A.,
Dist.T.P., M.T.P.I., F.R.I.A.S.

DAY SCHOOL.
The Day School of Architecture is fully
recognized by the Royal Institute of British
Architects. The Final Diploma Examination of
the School is a qualification for registration under
the Architects (Registration) Act.

The course embraces all aspects of Architectural
Education, including Interior Design, Structural
Design and Equipment, and the Science of Building
Materials.

The Day Schools of Surveying and Building
also courses in Building and Quantity Surveying
and in Building Technology.

Session commences 20th September, 1949.
EVENING SCHOOL.
Professional courses are available for pupils
and assistants in the Architectural, Town
Planning, and Surveying professions and in the
Building Industry.

Prospectuses may be obtained on application
to the undersigned.

J. O. JONES,
Director of Education.
1818

NORTHERN POLYTECHNIC HOLLOWAY, LONDON, N.7.

Principal: T. J. DRAKELEY, D.Sc., Ph.D.(London),
F.R.I.C., F.I.R.I.

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

DAY SCHOOL OF ARCHITECTURE

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

School year begins 26th September, 1949.

Fees—£20 per annum, or £7 per term.

Students under the age of 18 may be admitted free

EVENING SCHOOL OF ARCHITECTURE

Five years' Course recognised by the R.I.B.A. for
exemption from the Intermediate Examination.)

New Session begins 26th September, 1949.

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

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

ENTRY TO THE SCHOOLS. Intending day students
are interviewed by appointment. Intending evening
students will be interviewed from 5.30-7.30 p.m. on
19th and 20th September, 1949, or on any subsequent
evening by appointment.

Prospectus post free on application.

Telephone: NORth 1686.

R.I.B.A. INTER, FINAL & SPECIAL FINAL.

Final Courses in all subjects of the examination syllabus
(including Professional Practice) are conducted by

THE ELLIS SCHOOL OF ARCHITECTURE

Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.

103, OLD BROMPTON RD., LONDON, S.W.7

Telephone: KENington 8641

DRAUGHTSMAN DESIGNER

with first class experience of Architectural
Metalwork required by the

MORRIS SINGER CO.

Apply giving full particulars to:-

**FERRY LANE WORKS, FOREST ROAD,
WALTHAMSTOW, E.17**

PROFESSIONAL ADVANCEMENT

through **ICS** **STUDY
COURSES**

I.C.S. Home Study Courses help the pro-
fessional man to further his career. They
include many courses for Membership Exam-
inations of the various technical bodies.
Brilliant successes have been recorded in the
spheres of architecture, building, and surveying.

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

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

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

Special Courses for the examinations of the R.I.B.A.,
I.O.B., R.I.C.S., Inst.C.E., I.M.E. (Building Inspectors,
Inst.Struct.E., A.E.A.I., Inst. Clerk of Works, etc.)
Examination students are coached till successful.

Write to-day for free booklet describing our Courses
in any of the subjects mentioned above.

International CORRESPONDENCE SCHOOLS

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

FIBROUS PLASTERWORK OF EVERY DESCRIPTION

ALLIED GUILDS

King Edward Square,

SUTTON COLDFIELD. Tel.: SUT 3809

TILYARD TILES LIMITED

WALL & FLOOR TILING TILED FIREPLACES

APPROVED SPECIALISTS FOR

**ARMSTRONG'S "ACCOTILE"
FLOORING.**

182 EARL'S COURT ROAD, S.W.5

Phone: Frobisher 3479-6762

**SHOWROOMS: 1-5 CHILD'S PL.
EARL'S COURT**

BOOKS

A list of books on architecture, planning
and building practice will be sent on
application to the Manager:-

THE ARCHITECTURAL PRESS

9, Queen Anne's Gate, Westminster

THE WORLD'S GREATEST BOOKSHOP

FOYLES
* FOR BOOKS *

**LARGE DEPT FOR BOOKS ON
ARCHITECTURE**

New & secondhand Books on every subject
We BUY Books, too

119-125 CHARING CROSS RD LONDON WC2
Gerrard 5660 (16 lines) * Open 9-6 (inc Sats)

STEELWORK BY

R.W. SHARMAN LTD.

Head Office: The Parade,
Sunbury-on-Thames,
Middlesex

Works: Swan Works,
Hanworth,
Middlesex,
and at Hayes, Middlesex.

Phone:

Sunbury 3210,

Phone:

Feltham 3007,

Telegrams: "Sharmar, Sunbury"

(All communications to be addressed to Head Office.)

Books by post

THE MODERN SCHOOL

by C. G. Stillman, F.R.I.B.A. and
R. Castle Cleary, A.R.I.B.A. 21s 9d

The scope and implications of the Butler Act
of 1944 have created many architectural prob-
lems, all of which the authors deal with
comprehensively.

OLD CHURCHES AND MODERN CRAFTSMANSHIP

by Alban D. R. Caroe ... 18s 9d

Mr. Caroe has had specialised experience in this
branch of post-war reconstruction and reno-
vation work and in detailing the many problems
likely to confront the architect, he offers
practical solutions.

HOMES:

Small, Medium and Large 30s 9d

Two hundred contemporary American houses—
of one, two and three bedrooms—are illustrated
by over 400 photographs, plans and details.

Prices include postage from

STOBART & SON LTD.

9 Victoria Street, London, S.W.1

CIRCUIT BREAKERS

to control electric

current of up to 4,000 amps or for

For

STARTERS

for electric motors of up to 1,000 H.P.

Specify ELLISON

Made by GEORGE ELLISON Limited, Perry Barr, Birmingham, 22B

WHITE FACING BRICKS

(S. P. W. BRAND)

TELEPHONE & TELEGRAMS
BULWELL 78237-8

M. McCARTHY & SONS, LTD

BULWELL • NOTTINGHAM

Alphabetical Index to Advertisers

Aldas Electric, Ltd.	PAGE xxvii	Foyles	PAGE lxv	Musgrave & Co., Ltd.	PAGE xvi
Allied Glaziers	lxv	Fry's (Engineers), Ltd.	xlvii	Negus, W. & M., Ltd.	lxv
Allied Paints & Chemicals, Ltd.	liii	Galvo (Wire Netting), Ltd.	xxxviii	Northern Polytechnic, The	lxv
Anderson Construction Co., Ltd.	xvii	Greenwood's & Airvac Ventilating Co., Ltd.	ii	Ohmrite Installations, Ltd.	lxv
Anderson, D., & Son, Ltd.	—	Gulf Radiator Co., Ltd.	liii	Patchett & Co., Ltd.	xxx
Ascot Gas Water Heaters, Ltd.	—	Gypsum Mines, Ltd., The	liiv	Peglers, Ltd.	xxxix
Austin-Hall Group of Companies, The	vii	Haden, G. N., & Sons, Ltd.	—	Phoenix Timber Co., Ltd.	lxvii
Banister, Walton & Co., Ltd.	xxxii	Hammer, George, & Co., Ltd.	xlviii	Poles, Ltd.	—
Bath Cabinet Makers & Artcrafts, Ltd.	—	Harper, John, & Co., Ltd.	xv	Pritchett & Gold & E.P.S. Co., Ltd.	—
Bigwood, Joshua, & Son, Ltd.	xix	Harvey, G. A., & Co. (London), Ltd.	lii	Prodorite, Ltd.	—
Blackburn, Thomas, & Sons, Ltd.	xxxv	Haskins Rolling Shutters	xxxvi	Radiation, Ltd.	—
Boulton & Paul, Ltd.	xi	Henderson, P. C., Ltd.	—	Ruberoid Co., Ltd.	—
Braithwaite & Co., Engineers, Ltd.	—	Heywood, W. H., & Co., Ltd.	xx	Sadd, John, & Sons, Ltd.	—
Briggs, Wm., & Sons, Ltd.	xxxix	Higgs & Hill, Ltd.	xxi	Sankey-Sheidon, Ltd.	—
Brightside Foundry & Engineering Co., Ltd.	xxxvii	Holloway Bros. (London), Ltd.	—	Scaffolding (Great Britain), Ltd.	—
British Aeroplane Co. (Housing), Ltd.	—	Holophane, Ltd.	—	Sealcrete Products, Ltd.	xxx
British Plaster Board, Ltd., The	xxii	Hope, Henry, & Sons, Ltd.	xlii	Secomastic, Ltd.	xxxix
Broad & Co., Ltd.	—	Imperial Chemical Industries, Ltd.	xli	Sentex, Ltd.	—
Burn Bros. (London), Ltd.	xlv	International Correspondence Schools	lxv	Shannon, The, Ltd.	lxix
Cannon, W. G.	lv	Jaconello, Ltd.	xliii	Sharmar, R. W., Ltd.	lxv
Carter & Co., Ltd.	xiv	Jicwood, Ltd.	—	Smith's Fireproof Floors, Ltd.	—
Cattle, R., Ltd.	lxvii	Johnson & Phillips, Ltd.	vi	Staines Kitchen Equipment Co., Ltd.	—
Cement Marketing Co., Ltd., The	—	Kelvinator, Ltd.	xlviii	Standard Patent Glazing Co., Ltd.	—
Chimneys, Ltd.	xlvii	Kingfisher, Ltd.	xvi	Stobart & Son, Ltd.	lxv
Clark & Eaton, James, Ltd.	—	King, George W., Ltd.	xxxiii	Structural & Mechanical Development Engineers, Ltd.	lxix
Copperad, Ltd.	xlii	Klinger, Richard, Ltd.	—	Sundeala Board Co., Ltd.	xxxix
Copper Development Association	—	Le Grand Sutcliffe & Gell, Ltd.	lii	Taylor, Robt., & Co. (Ironfounders), Ltd.	—
Crompton Parkinson, Ltd.	viii	Lever, James, & Sons, Ltd.	—	Tentest Fibre Board Co., Ltd.	lxix
Davis, H. & C. Co., Ltd.	xxxi	Lightfoot Refrigeration Co., Ltd., The	lvi	Tilyard Tiles, Ltd.	lxix
De La Rue Insulation, Ltd.	—	London Brick Co., Ltd.	—	Timson Bros. (England), Ltd.	—
Dohm, Ltd.	liii	London County Council	lxiv	Thomas De La Rue & Co., Ltd.	—
Dunlop Rubber Co., Ltd.	—	Marley Tile Co., Ltd., The	xxlii	Thomas, Richard, & Baldwins, Ltd.	xi
Durable Asphalt Co., Ltd.	x	Matthews & Yates, Ltd.	lxvii	Thompson Beacon Windows, Ltd., John	—
Durasteel Roofs, Ltd.	xxxviii	Mavitta Drafting Machines, Ltd.	lii	Thorn, J., & Sons, Ltd.	—
Dureco Products, Ltd.	xlv	Maxwell, Andrew	ii	Troughton & Young (Lighting), Ltd.	—
Eagle Range & Grate Co., Ltd.	lxv	McCarthy, M., & Sons, Ltd.	lxv	Tucker's Installations, Ltd.	—
Ellis School of Building	—	Metallic Seamless Tube Co., Ltd.	ix	Tudor Accumulator Co., Ltd., The	lxix
Ellison, George, Ltd.	lxv	Micromatic, Ltd.	xxxvi	Universal Asbestos Manufacturing Co., Ltd.	—
Empire Stone Co., Ltd.	—	Midland Electric Manufacturing Co., Ltd.	—	Versil, Ltd.	—
Etchells, Congdon & Muir, Ltd.	xlix	Midland Woodworking Co., Ltd.	xxv	Vulcanite, Ltd.	—
Evans, Wm., & Co. (Manchester), Ltd.	lii	Mills Scaffold Co., Ltd.	lxviii	Walker, Crosswell & Co., Ltd.	xxxix
Excel Asphalt Co., Ltd.	lv	Moler Products, Ltd.	lii	Wacrite, Ltd.	—
Farmer, S. W., & Son, Ltd.	i	Morris, Herbert, Ltd.	—	Wheeler, F. H., & Co., Ltd.	—
Finch, B., & Co., Ltd.	v	Morris Singer Co.	lxv	Zinc Alloy Rust-Proofing Co., Ltd.	lxvi
Fothergill & Harvey, Ltd.	xlii				

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

YOURS for the Asking

LEARN HOW TO:-

SPECIFY,

TEST,

USE,

SHERARDIZING.

ZINC ALLOY RUST PROOFING CO. LTD.

SHAKESPEARE STREET, WOLVERHAMPTON

TELEPHONE: WOLVERHAMPTON 20647/8.

ALSO AT LONDON & ROCHDALE.



PAGE
xvi
xv
ix
xxx
xxxv
xviii
I
xxxv
III
X
xxx
xxxiv
xix
lxv
I
lxv
xxxv
xxxviii
xix
lxv
lxviii
xi
II
lxv
II
xxxviii
iv
III
lxv

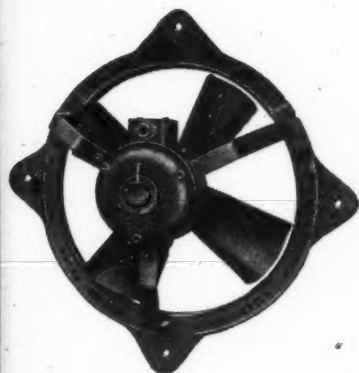
**HIGH CLASS JOINERY
FLUSH DOORS AND
PRECISION WOODWORK**

R. CATTLE LIMITED

(Established 70 years)

EVERITT RD., CHASE RD., NORTH ACTON, N.W.10

TELEPHONE: ELGAR 5411 (4 LINES)



**INSTALL
CYCLONE**

FANS AND ALLIED EQUIPMENT

AND INCREASE PRODUCTION!

CYCLONE SPECIALITIES

Multivane Fans—Forward and Reverse Curve • Patent Laminated Fan Casings for Super-silence Paddle Blade Fans • Air Propellers (Belt and Electric) • Copper Gilled-pipe Heaters • Unit Heaters • Air Filters • Air Washers (Water-Spray) • Cyclone Separators • Closed Circuit Motor Cooling

MATTHEWS & YATES LTD.

(Member of the Fan Manufacturers' Association Ltd.)

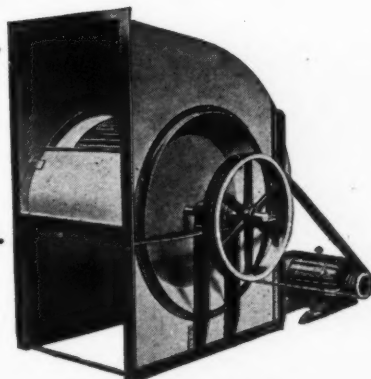
SWINTON (MANCHESTER) AND LONDON

Telephones: SWinton 2273 (4 lines)

London, CHAncery 7823 (3 lines)

Also at GLASGOW • LEEDS • BIRMINGHAM • CARDIFF

lxvii



Please write for illustrated Brochures, quoting AJ:12.

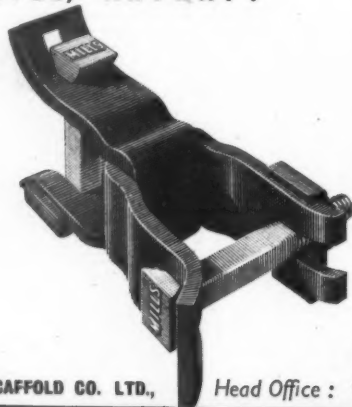
HOW CAN WE MAKE CERTAIN THAT WE ARE
COMPLYING WITH THE NEW BUILDING REGULATIONS?

HOW DO WE KNOW THAT THE SCAFFOLDING
WILL BE ERECTED BY THE SCHEDULED DATE?

HOW QUICKLY CAN THE STRUCTURE
BE DISMANTLED AND THE SITE CLEARED?

HOW MUCH IS IT
ALL GOING TO COST?

HOW DO WE GET
STARTED, ANYWAY?



MILLS SCAFFOLD CO. LTD.,

Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6.

MILLS
KNOW HOW

TELEPHONE: RIVERSIDE 5026/9
OR YOUR NEAREST DEPOT

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

