

May 27, 1948

Volume 107

Number 2781

THE ARCHITECTS' JOURNAL

Registered as
a Newspaper
Price
Ninepence

PUBLIC LIBRARY

JUN - 9 1948

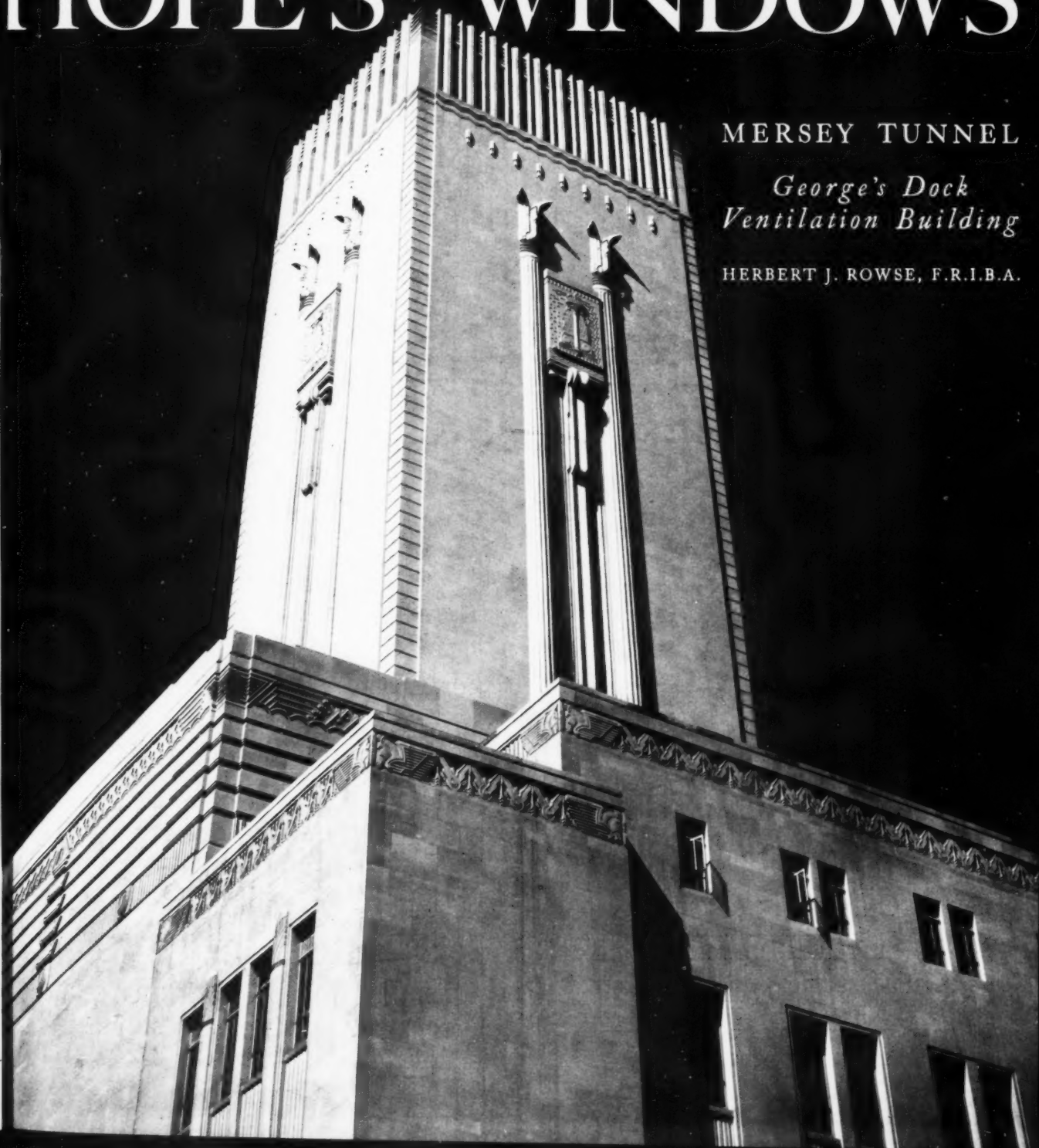
R.I.B.A. CONFERENCE, LIVERPOOL

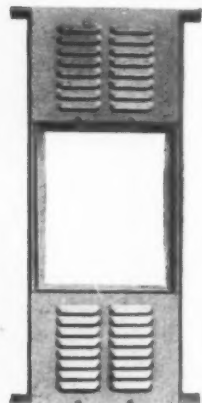
HOPE'S WINDOWS

MERSEY TUNNEL

*George's Dock
Ventilation Building*

HERBERT J. ROWSE, F.R.I.B.A.





TYPE MAS

GREENWOOD'S "PERMAVENT" ALL STEEL LARDER LIGHTS

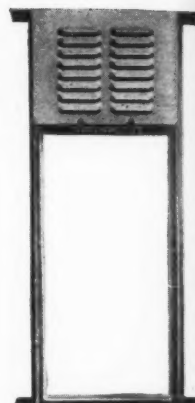
LIGHT AND PERMANENT VENTILATION COMBINED

STEEL FRAMED WINDOWS ADMIT DAYLIGHT.
VENTILATION VIA WEATHER RESISTING
MULTI-LOUVRED PANELS BACKED BY
DETACHABLE INSECT-PROOF SCREENS.
IMMENSELY STRONG AND DURABLE.
MADE IN TWO TYPES AND FOUR SIZES.
DELIVERED READY FOR BUILDING IN.
FOR HOUSING, AND OTHER BUILDINGS.

GREENWOOD'S AND AIRVAC VENTILATING COMPANY LTD.

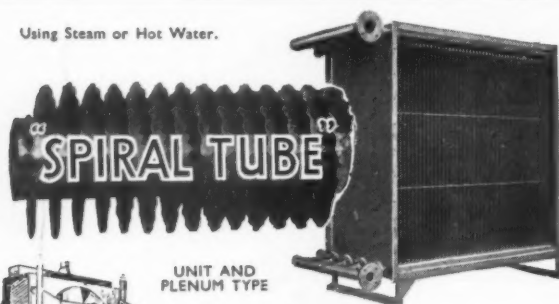
BEACON HOUSE • KINGSWAY • LONDON • W.C.2

TELEPHONE: CHANCERY 8135-6-7



TYPE MBS

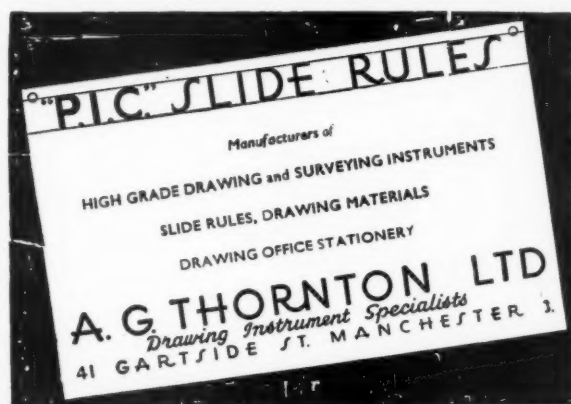
Using Steam or Hot Water.



UNIT AND
PLENUM TYPE

AIR HEATERS

THE SPIRAL TUBE & COMPONENT CO., LTD.
Osmaston Park Road, Derby.
London Office: Honeypot Lane, Stanmore, Middlesex.



laid in a minute...

lasts as long as the wall!

BRIGGS

AQUALITE

BITUMEN DAMPCOURSE

WILLIAM BRIGGS & SONS LIMITED

East Camperdown St., Dundee. Vauxhall Grove, London, S.W.8
Branches:—Aberdeen, Edinburgh, Glasgow, Leicester, Liverpool, Norwich



ODONI PATENT

ALL-STEEL BICYCLE STANDS

Write for fully illustrated catalogue

VARIOUS TYPES TO SUIT REQUIREMENTS

Sole Manufacturers and Patentees:

ALFRED A. ODONI & CO. LTD.

SALISBURY HOUSE : FINSBURY CIRCUS

LONDON, E.C.2

WORKS : LONDON, S.W.

Telephone :
O'Narch
8638/9

Telegrams :
"Odoni, Ave
London"

I

I

I

OS

TS

D.

US

na:

Ave

11

C

2000

2000

2000

2000

Ca
bo

- T
bi
sto
- C
se
- Li
of
- N

For

COME RAIN..COME SHINE



House at Crown Lane, East Burnham, Bucks,
roofed with Colt Shingles.

Architects : Tubbs, Duncan & Osburn, AAA.R.I.B.A.

Colt Shingles prove Britain's best All-Weather Roofing

- The form and nature of the shingles combine to provide a close and completely stormproof weather shield.
- Colt Shingles are only the finest carefully selected material.
- Light weight permits considerable savings of structural timber.
- No maintenance costs.
- Colt Shingles are licensed additionally to maximum timber allowance.
- Immediate delivery from stock.
- Expert advice and fixing service always available.
- Concise details on waterproof qualities, weight, insulation, etc., on request to:

W. H. COLT (LONDON) LTD., SURBITON, SURREY

Telephone : Elmbridge 6511 (4 lines)

COLT *Canadian Cedar Wood* **SHINGLES**
(CEDAR WOOD TILES)

For all DOMESTIC, AGRICULTURAL, and INDUSTRIAL BUILDINGS

**AGRICULTURAL
BUILDINGS**

DWELLINGS

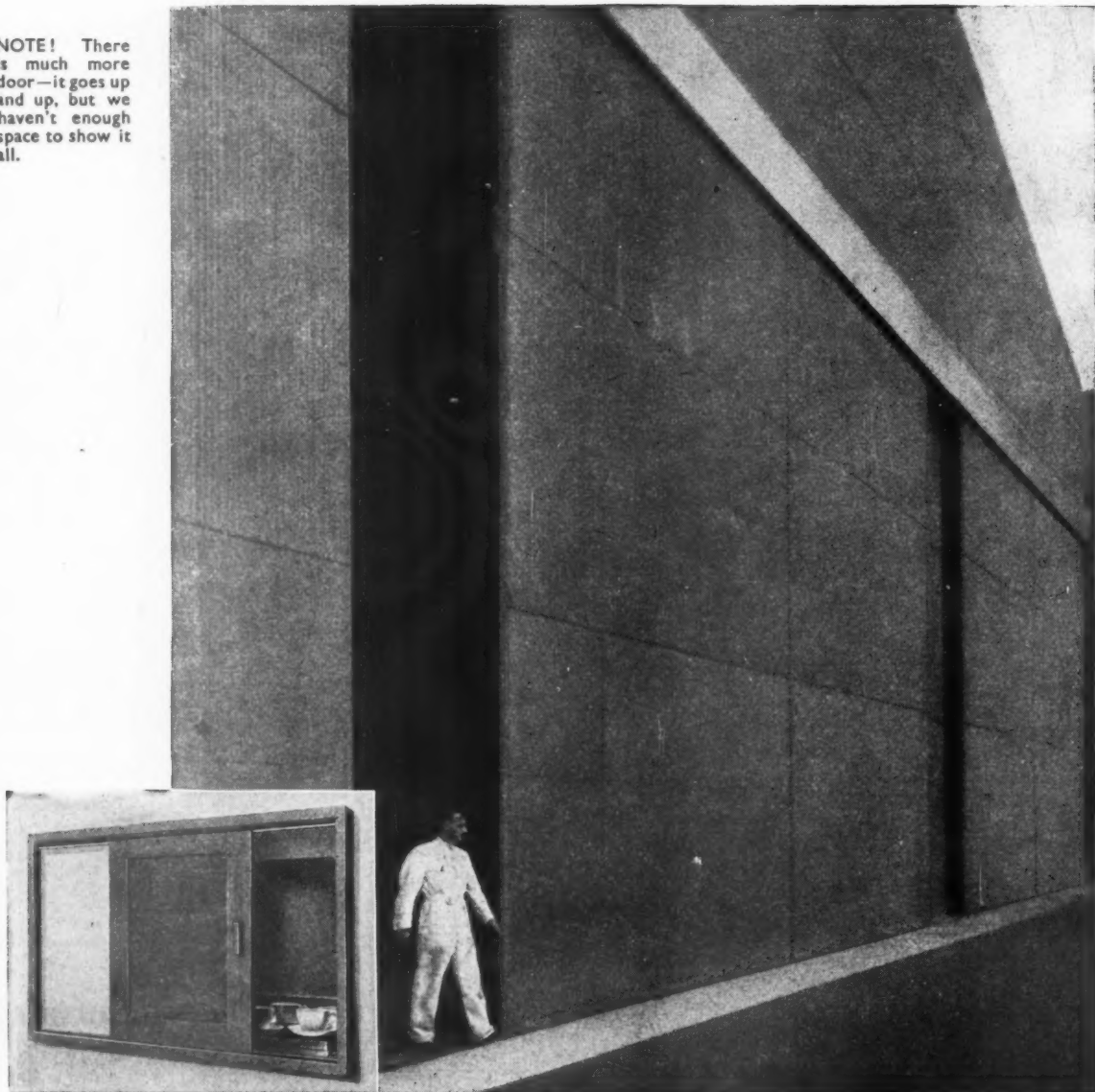
SCHOOLS

**COUNCIL
HOUSES**

CHURCHES

KING SLIDING DOOR GEAR

NOTE! There is much more door—it goes up and up, but we haven't enough space to show it all.



Small illustration above left shows King Sliding Door Gear applied to a small serving hatch. The large illustration above right shows part of a range of King Power Driven doors installed in a factory. Each door is 20ft. wide and 30ft. high and weighs 4 tons. Each pair of doors is power driven and fitted with two-speed motor. Travel is controlled by safety limit switches. For emergency, auxiliary hand winding gear is incorporated. Whether a King installation is large or small the same degree of engineering excellence is embodied in the product. For ease of operation, neat appearance and long life, specify King Sliding Door Gear.

A DOOR THAT RUNS ON KING SLIDING DOOR GEAR IS A GLIDING EXAMPLE OF PERFECT SMOOTH RUNNING.

WRITE FOR ILLUSTRATED BOOKLET AND PRICE LIST

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

PHONE: HITCHIN 960 (10 LINES)



To County Architects and Education Authorities

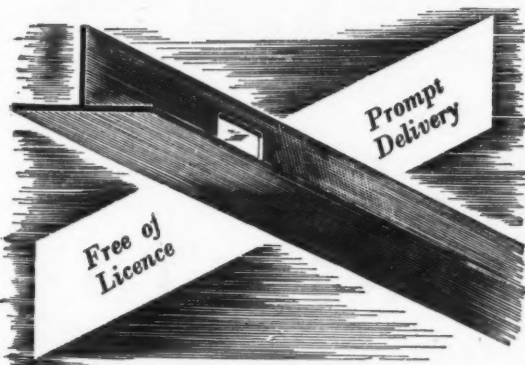
CUTS IN CAPITAL EXPENDITURE

The cut in Capital Expenditure does not affect your school building programme so that one question you will consider is what material is available for prompt delivery and free of licence.

Your design and choice of material for Class Rooms, Assembly Halls, will, no doubt, embody the usual features:—

1. THERMAL INSULATION—for the saving of fuel and the comfort of the pupils.
2. ABSORPTION OF SOUND—ensuring quiet, consequently greater attention and more efficient work from the pupils.
3. APPEARANCE—which we suggest is a necessary part of education.

The "AND" Method of Fixing wallboards is too well-known to call for repetition here, but if you will favour us with your plans or sketches, we shall be pleased to make layouts of ceilings or walls, and give you the benefit of our very extensive experience in school work.



Aluminium Alloy Extruded Tee Section



CONSTRUCTION COMPANY LTD.
CLIFTON HOUSE, EUSTON ROAD,
Opp. St Pancras Station
LONDON. N.W.1. EUSTON 7465

CONTRACTING AGENTS:

BIRMINGHAM—Rudders & Paynes, Ltd., Aston.
CARDIFF—John Bland & Co., Ltd., East Moors.
MANCHESTER—Beaumonts (Manchester) Ltd., Victoria Park.
NEWCASTLE—G. M. Carter (Agencies) Ltd., Jesmond.
SCOTLAND—W. Gibson & Co. Ltd., St. James Street, Paisley

have YOU seen

OUR *exhibits*
AT THE BUILDING CENTRE

John Sadd & Sons are specialists
in both mass production joinery
and joinery to architects' details



WINDOWS · KITCHEN UNITS · DOORS · STAIRS · MOULDINGS
WOOD PANELLING · ETC.

JOHN SADD & SONS, LTD.
MALDON Telephone Maldon 131 (6 lines) **ESSEX**

London Office: Aldwych House, W.C.2. Telephone Chancery 7214

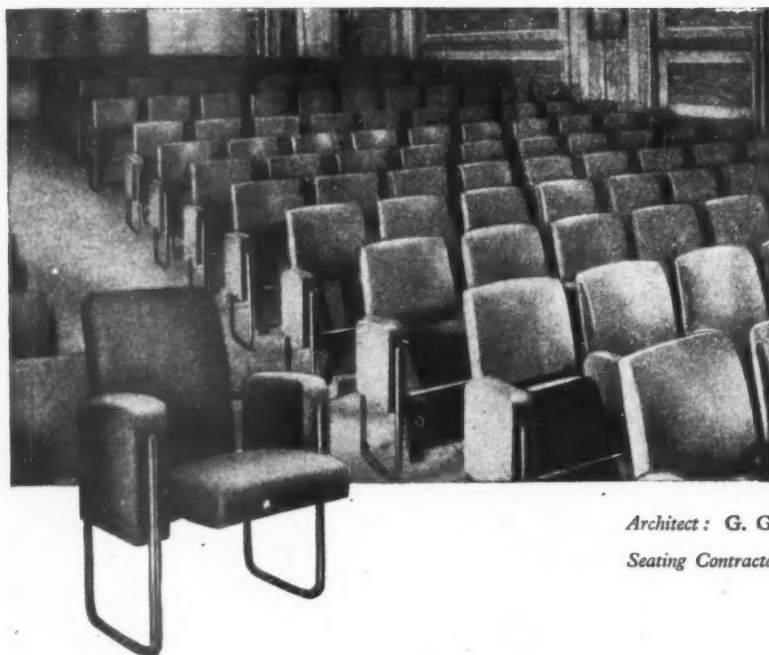
Sd.XVIII.10.47



**As happy as a chef in a kitchen
planned by**

Radiation
Large Cooking Equipment, Ltd.

PALATINE WORKS, WARRINGTON, LANCs. London Showrooms: 7 & 8, STRATFORD PLACE, W.1. Phone: MAYFAIR 6467



Installed in 1935, these Dunlopillo-Cushioned seats in the Henry Jarvis Memorial Hall at the R.I.B.A. Building have given thirteen years of hard wear and are good for many more.

Architect : G. Grey Wornum, Esq., F.R.I.B.A.

Seating Contractor : Cox & Co., Bushey

13 YEARS AT THE R.I.B.A.!

Dunlopillo is particularly suitable for large seating installations. Not only is it most comfortable, hygienic and long-wearing, but as it is moulded in single units, it makes for easy and speedy assembly.

DUNLOPILLO

The original **LATEX FOAM CUSHIONING**

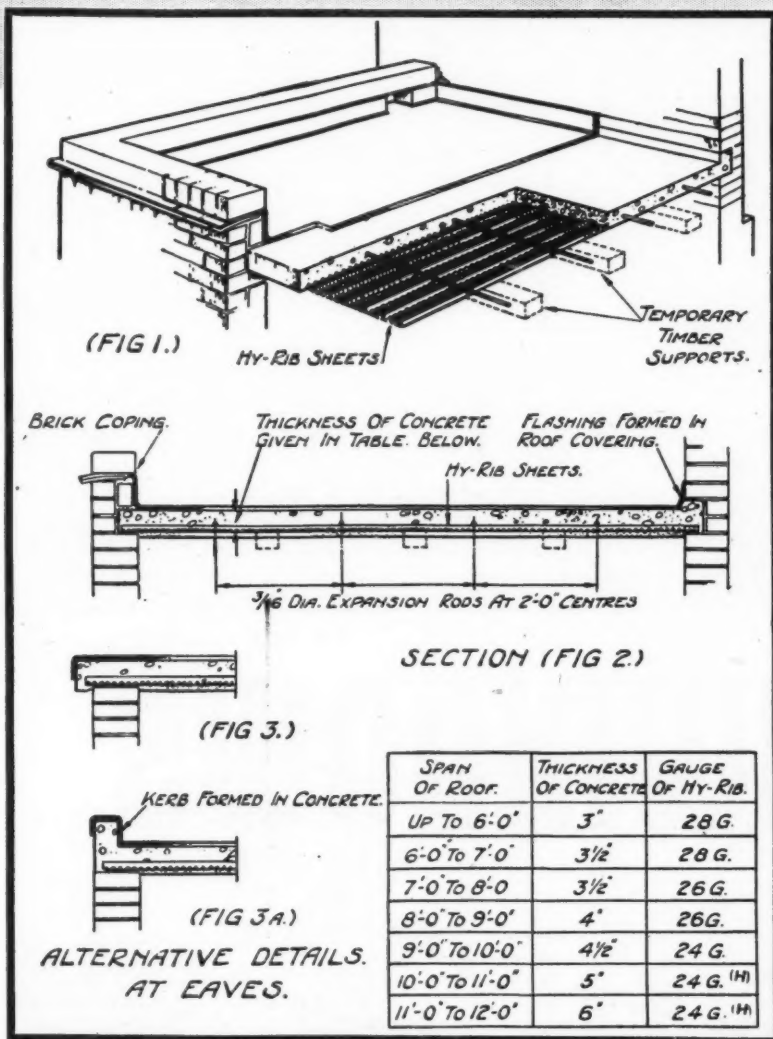
THE CHOICE OF ARCHITECTS

Dunlop Rubber Co. Ltd. (Dunlopillo Division, Dept. A J), Rice Lane, Walton, Liverpool,
London Address: 19/20 New Bond Street, W.1

48D/D9

HY-RIB CONSTRUCTION

for CONCRETE ROOFS
OF OUT-BUILDINGS
IN HOUSING SCHEMES



HY-RIB

REINFORCES
THE SLAB

ELIMINATES
WOOD CENTERING

ENSURES SPEEDY
ERECTION

CONSERVES
SKILLED LABOUR

General details of concrete flat roofs in Hy-Rib construction

For the guidance of Constructional Staffs we provide working drawings for particular applications of Hy-Rib.

Hy-Rib is unequalled in providing the above facilities and its use reduces labour costs to a minimum.



HY-RIB SALES · 6 COLLINGHAM GARDENS · EARLS COURT · S.W.5 'PHONE FROBISHER 8141

AN ADVERTISEMENT OF THE TRUSSED CONCRETE STEEL COMPANY LIMITED 4-574
London, Birmingham, Bristol, Glasgow, Leeds, Manchester, Newcastle-on-Tyne



Roath Power Station
Civil Engineers: L. G. MOUCHEL & PARTNERS LTD.
Builders: JOHN MORGAN (BUILDERS) LTD.

JONWINDOWS

*More than 50 years
of window making.*



JOHN WILLIAMS & SONS

(CARDIFF) LTD.

EAST MOORS ROAD • CARDIFF

TELEPHONE: CARDIFF 2501

TELEGRAMS: "METAL" CARDIFF

LONDON: BANK CHAMBERS, FINSBURY PARK, N.4

Telephone: ARCHWAY 2294

Telegrams: DISSOLVING, LONDON



PROTECTION



COLOUR can brighten our lives—at home, at work and at play; but the paint that colours must also protect. This dual function—the result of skilful formulation, careful manufacture and an efficient application service—is available in high degree in the paints supplied by

IMPERIAL CHEMICAL INDUSTRIES LIMITED
PAINTS DIVISION **SLOUGH, BUCKS.**

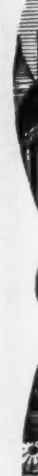
D.D.761

MODERN DIGNITY

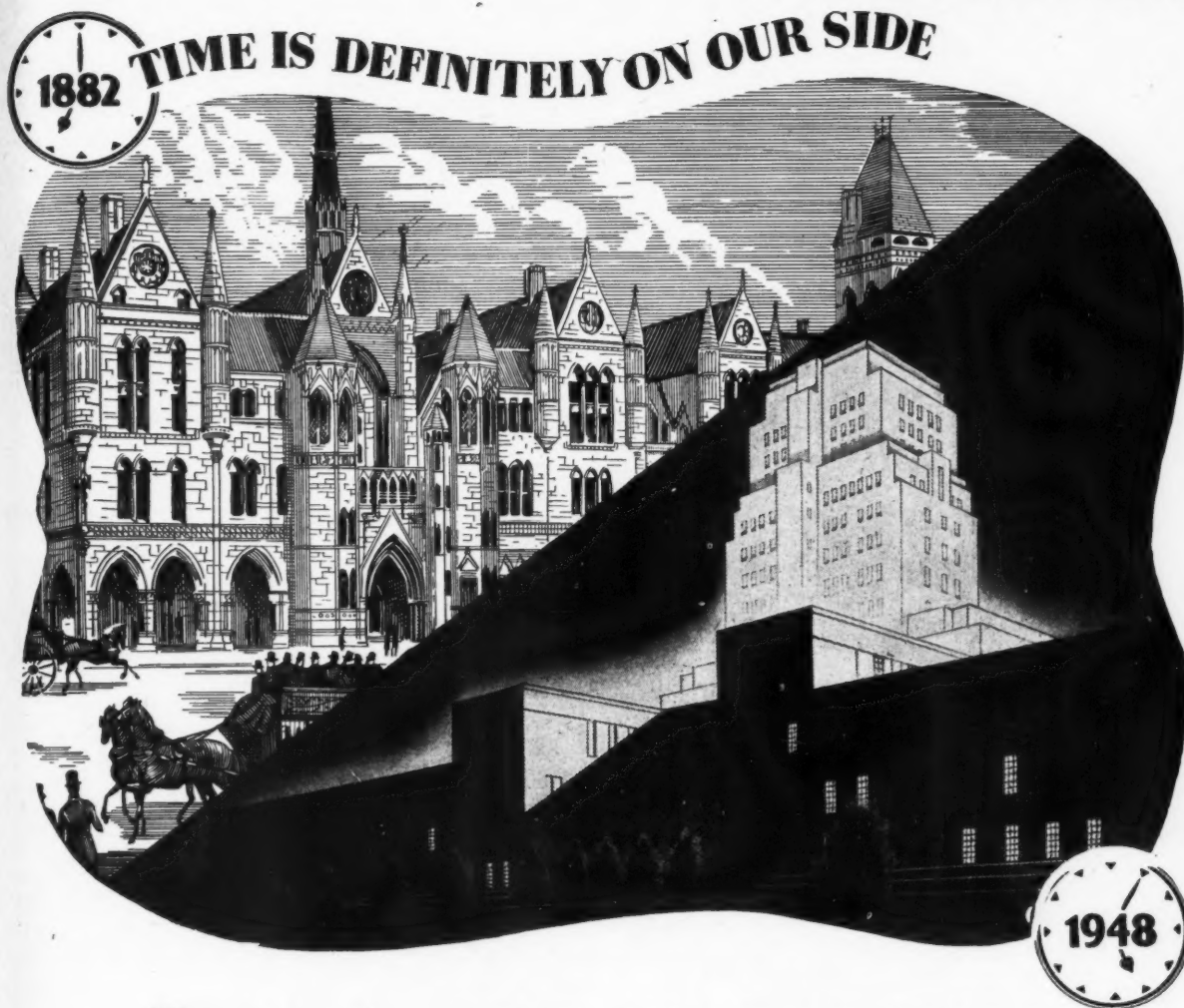


Write for New Brochure "Designing with Asbestos-Cement"

TURNERS ASBESTOS CEMENT CO. LTD.
TURNERS NEW WALL LTD.
TRAFFORD PARK MANCHESTER 17



50



Round about the year 1882 we lit the Law Courts, The Royal Exchange and other important buildings. To-day our batteries safeguard the lighting of London University and many buildings of equal prominence. Over 60 years of making and installing P & G & E.P.S. cells for every possible purpose, in particular for emergency lighting.

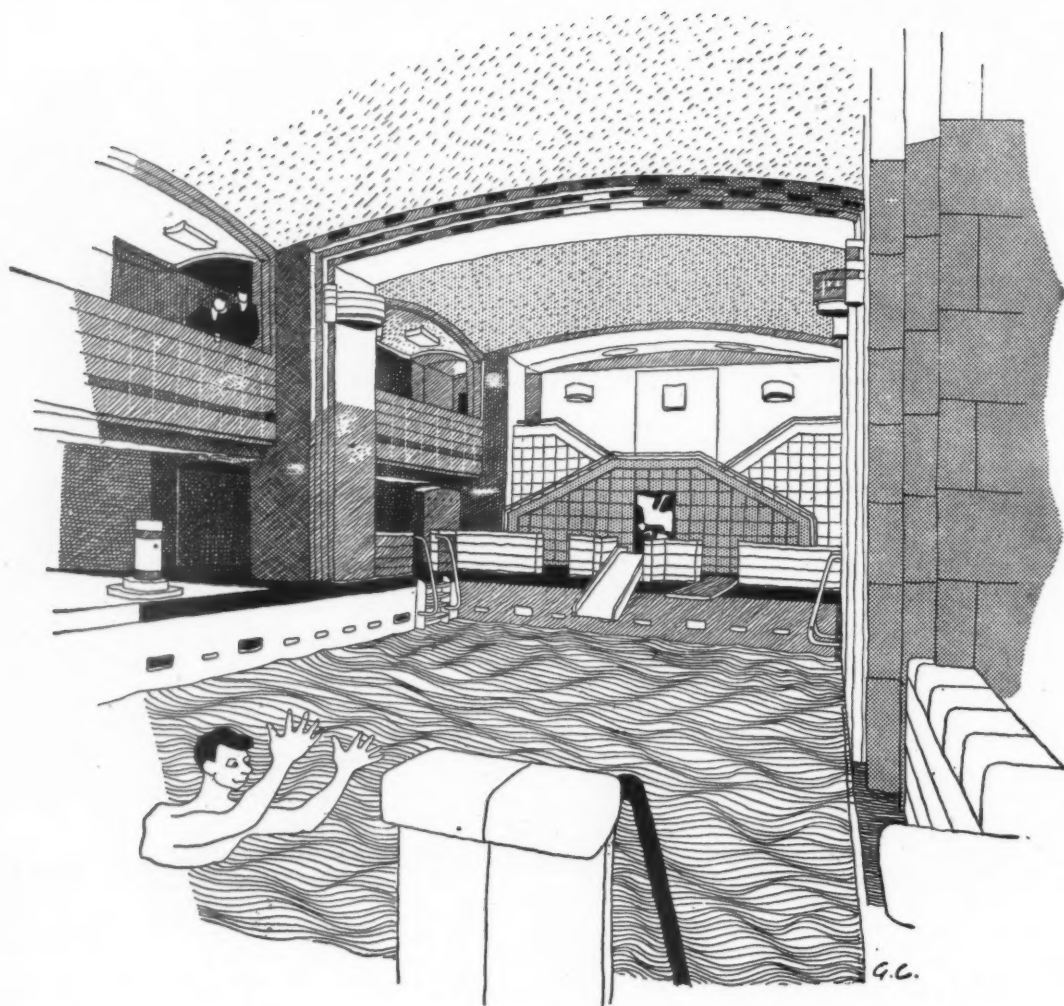
No new building of any size can be said to be properly equipped without a system of emergency lighting. New schools, theatres or large commercial buildings where normal mains failure may lead to pilfering and perhaps panic and disaster, need P & G & E.P.S. cells as a standby system that never fails. Automatic equipment will ensure instantaneous operation. May we offer you the benefit of our lengthy experience?

YOUR PRESENT BATTERIES WILL LAST LONGER IF REPLATED BY US

PRITCHETT & GOLD and E.P.S.CO.LTD.

Formerly The Electrical Power Storage Co Ltd - the first Battery makers

56 GROSVENOR GARDENS, LONDON, S.W.1 • Telephone: SLOane 7164 • Telegrams: Storage, Sowest, London

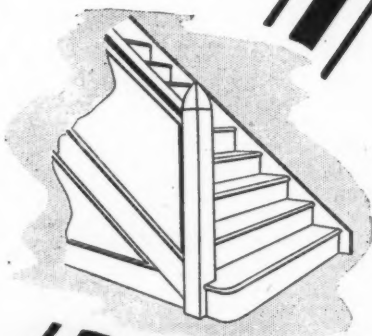
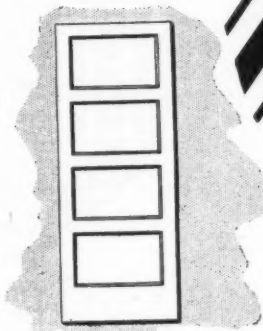
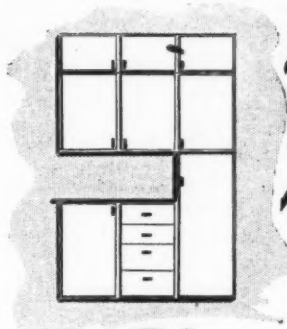
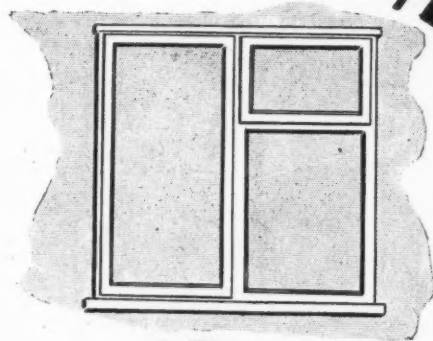


*R.M.S. Queen Elizabeth
and T.S.S. Caronia
are also Carter tiled*

Tiling and faience on R.M.S. Queen Mary
made and fixed by **CARTER**

CARTER & CO LTD · POOLE · DORSET
CARTER & CO LONDON LTD · 29 ALBERT EMBANKMENT · SE11

Selected Timber seasoned by the most modern methods, accurately machined, faultlessly assembled by skilled craftsmen, and minutely inspected by experts makes the **PERFECT JOINERY** of which **MAGNET** are so proud: while planned production methods ensure *Quick Delivery.*



Whitley St., BINGLEY, YORKS.

Phone : BINGLEY 547 (5 lines).

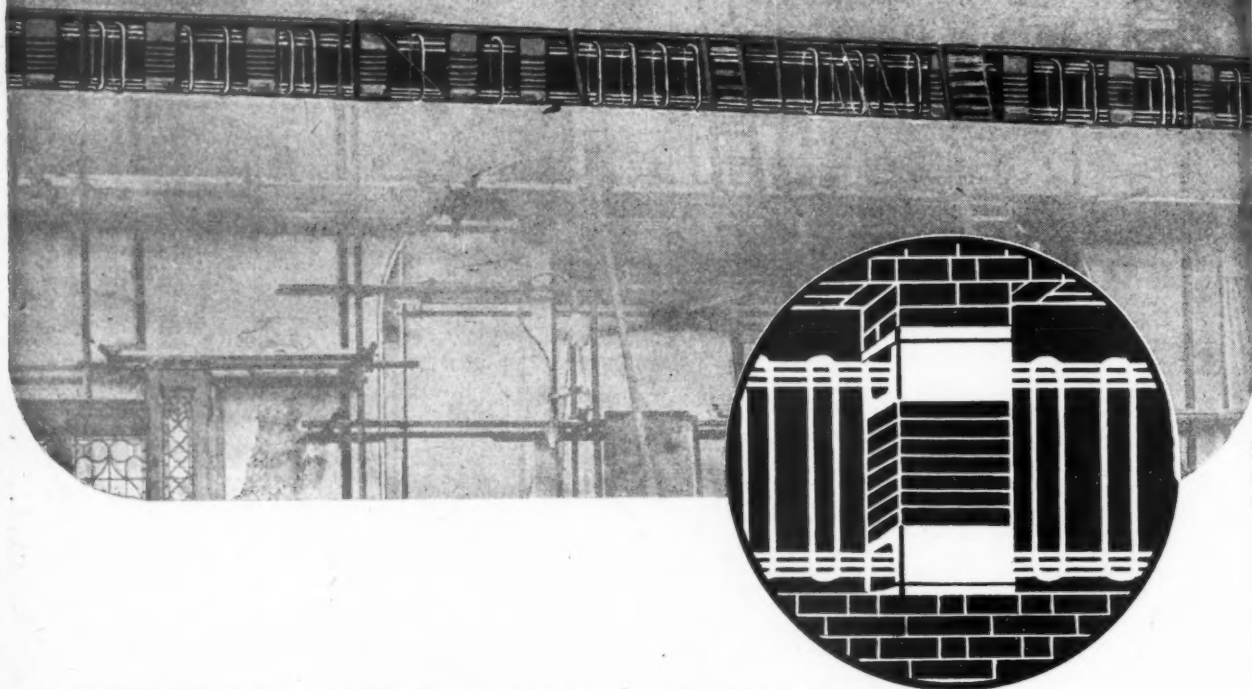
London Rd., GRAYS, ESSEX.

Phone : TILBURY 77 (5 lines).

Love Lane, ASTON, BIRMINGHAM.

Phone : ASTON CROSS 3291-2.

PYNFORD UNDERPINNING



THE NEW PYNFORD METHOD

PYNFORD STOOLING may be used to underpin at any level.

PYNFORD BEAMS are in use to replace brick arches which have deteriorated or become ineffective due to settlement or spreading of the supports or abutments.

PYNFORD STOOLING will readily adapt itself to an exclusively wide range of beam sizes.

PYNFORD BEAMS are being used to anchor tie bars.

PYNFORD BEAMS will strengthen walls laterally at any level.

PYNFORD BEAMS are being used to support structures while works are in progress underneath.

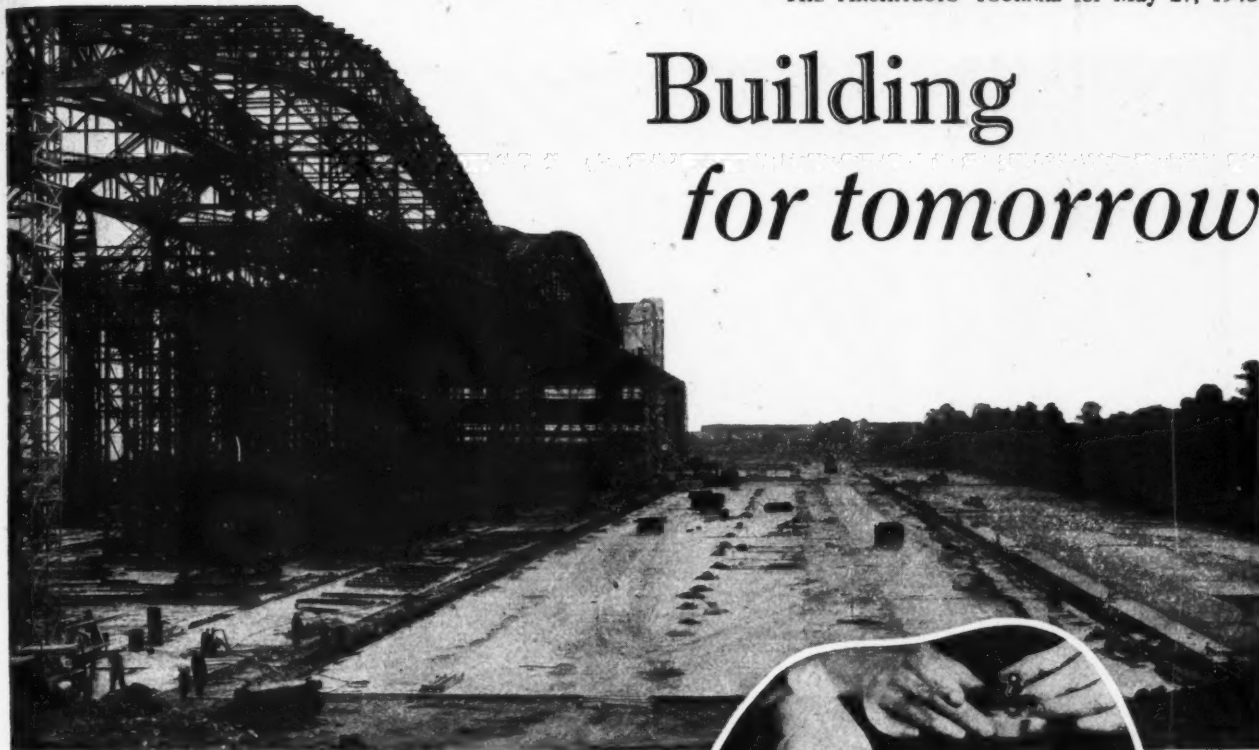
PYNFORD LIMITED

SPECIALISTS IN UNDERPINNING

74, LANCASTER ROAD, STROUD GREEN, N.4

Tel.: ARChway 2372

Building for tomorrow



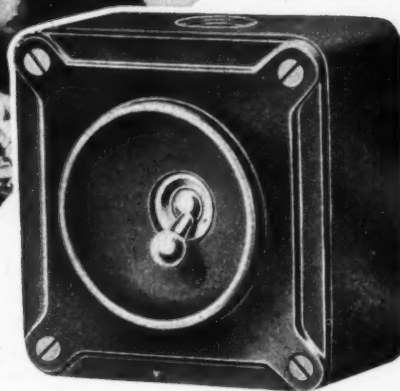
The Aircraft Assembly Hall at Filton in course of erection. Architect: Eric Ross, A.R.I.B.A. Consulting Engineers: Brian A. Colquhoun & Partners. Electrical Engineer: A. N. Irens, A.M.I.E.E.

The Crabtree switch and the giant Aircraft Assembly Hall of the Bristol Aeroplane Company have much in common. Each is intended to do a particular job of work—and to do it well. Each, again, is designed to give long and reliable service, and to meet the exacting demands of the post-war world.

For these reasons, the quality of Crabtree craftsmanship is widely appreciated at Filton. Here, hundreds of Crabtree switches and accessories—many of them in protective iron cases—are installed throughout the bays and workshops, and are fitted to more than eighty special control cabinets. In addition, it is planned to include Crabtree aircraft wiring components in the Bristol "Brabazon" aircraft which will be constructed and serviced at Filton. We can therefore claim to be playing a vital part in helping to maintain Britain's leadership in the sphere of aeronautics.

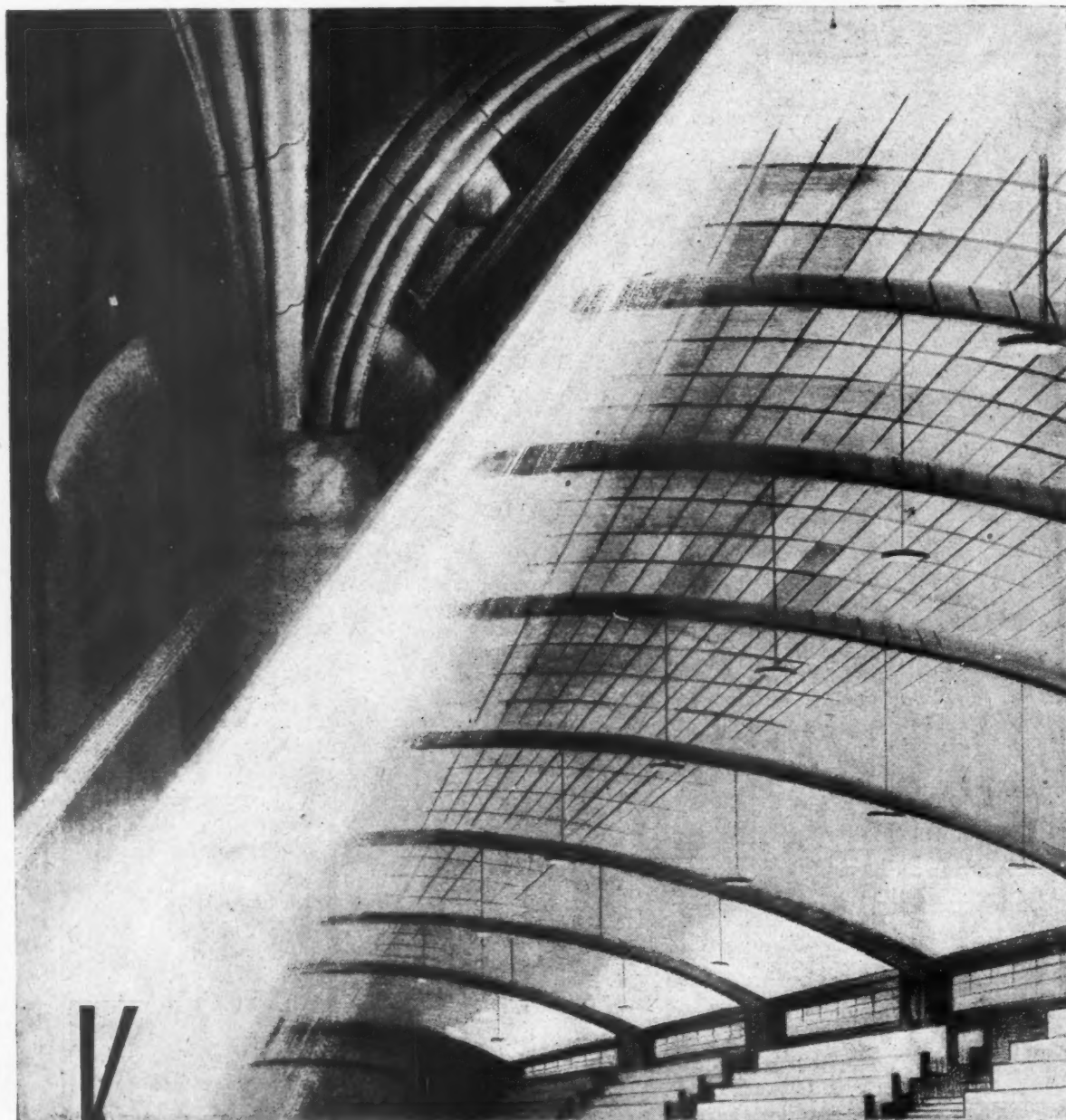


Some of the operations involved in assembling Crabtree switches.



C R A B T R E E

A name synonymous with Progress in Accessories and Switchgear



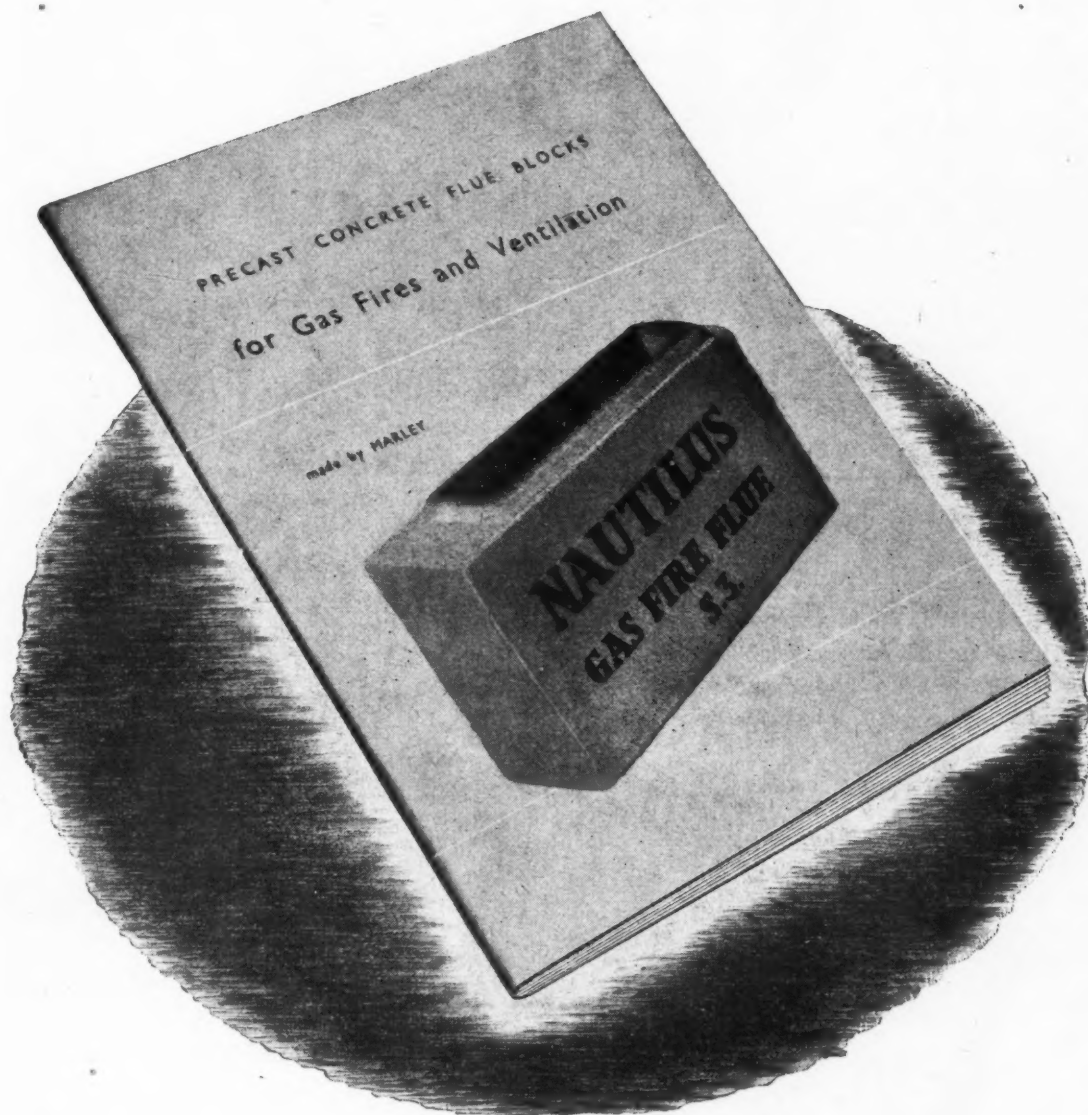
KNOWLEDGE-

The Architect of yesterday was limited in his choice of available building materials for the design of any particular structure. To-day, however, this choice is wider than ever before, and the advantages to be derived from the use of strong light aluminium alloys for building purposes merit the most serious consideration. Our Development Department will gladly give you information if you care to write to us—the pioneers in this field in this country.



JAMES BOOTH & COMPANY LIMITED, ARGYLE STREET WORKS, BIRMINGHAM 7

PRECAST CONCRETE FLUE BLOCKS For Gas Fires and Ventilation



This new publication describes the Nautilus system of flue construction. The full range of standard flue blocks is illustrated, and drawings of typical construction are included, together with notes on the computation of quantities. Copies may be obtained from **MARLEY**

THE MARLEY TILE COMPANY LIMITED • SEVENOAKS • KENT

M.N.a

Fothergill & Harvey introduce

Tygan
REGD

a new woven upholstery fabric

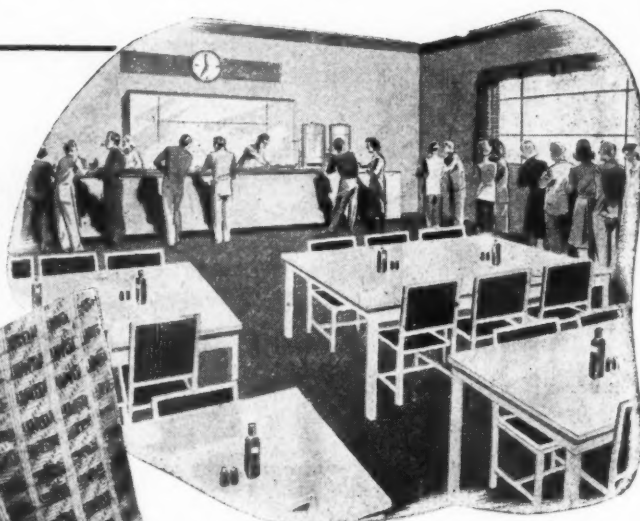
TOUGH · WASHABLE · WEATHERPROOF
MOTHPROOF · FAST TO LIGHT

Tygan is a new synthetic fabric woven exclusively by Fothergill & Harvey Limited, the old established Lancashire textile manufacturers. It is made from Bexan, a synthetic yarn developed after years of intensive research by B.X. Plastics Limited.

The unique characteristics of Tygan make it specially suitable for

Tygan is woven from BEXAN, a new synthetic yarn developed by B.X. Plastics Limited

upholstery where durability and cleanliness are of paramount importance. Tygan has outstanding resilience, toughness and abrasion resistance, which ensure excellent wearing qualities. It can easily be cleaned by sponging, and so always looks smart. It is fast to light, is mothproof and will not mould or rot. It is exceptionally



Tygan is tough where treatment is tough

resistant to acids, alkalis, alcohol and many other organic solvents. It has a negligible water absorption and is therefore never damp. Tygan upholsters well and will be available in a wide range of pleasing colours and designs.

Tygan is subjected to the same rigorous testing as other Tyga Textiles in the laboratories of Fothergill & Harvey Limited. This is an assurance of the consistent high quality and serviceability of Tygan, which conforms in every respect to the highest standards of Lancashire woven productions.



Write for illustrated folder with patterns, quoting reference BA2
to FOTHERGILL & HARVEY LIMITED, Thirty-seven Peter Street, Manchester 2



"By my periwig, methinks my descendants show a goodly sense. I perceive they still embellish their homes with the Paints of Nobles & Hoare".



For over 160 years, Nobles & Hoare's Paints and Varnishes have made a major contribution to the grace and beauty of English Homes, and have been acknowledged by the discriminating to embody a long tradition of quality and excellence.

**NOBELIN ENAMEL PAINT. BODICOTE READY MIXED UNDERCOAT.
ALBAGLOSS SUPERFINE WHITE ENAMEL.
ALBAMATTE FLAT OIL PAINT. VARNISHES OF HIGHEST QUALITY.**

Nobles & Hoare Ltd.

Established 1787.

Varnish, Paint & Cellulose Lacquer Manufacturers,

Woodbridge Works, Kingston Road, Leatherhead, Surrey. Telephone: Leatherhead 2450 & 2992.

BRABY

METAL WINDOWS



LOTHIAN HOUSE, EDINBURGH

Architect: STEWART KAYE, F.R.I.B.A.

METAL WINDOWS by BRABY

Brochures on request

FREDK. BRABY & CO. LTD.



GLASGOW -	-	-	Eclipse Works, Petershill Road, Glasgow, N.	'Phone Springburn 5151
LONDON -	-	-	Fitzroy Works, 352-364 Euston Road, N.W.1	'Phone Euston 3456
	-	-	Ida & Victoria Works, Deptford, S.E.8	'Phone Tideway 1234
LIVERPOOL -	-	-	Havelock Works, Aintree, Liverpool, 10	'Phone Aintree 1721
BRISTOL -	-	-	Ashton Gate Works, Bristol, 3	'Phone Bristol 64041
EXPORT -	-	-	110 Cannon Street, London, E.C.4	'Phone Mansion House 6034
			Also at BELFAST and PLYMOUTH	



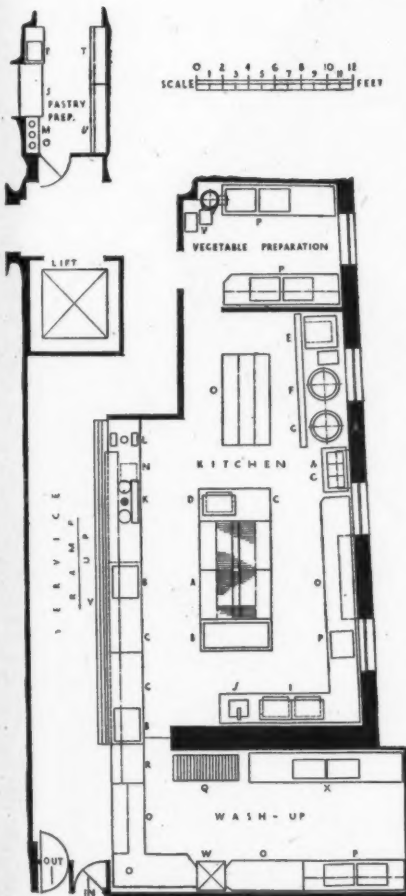
No



The Kitchen



ILLUSTRATED ARE PLAN and views of the recently equipped restaurant kitchen of Messrs. Debenham & Freebody, Wigmore St., W. The equipment is electric and steam, all special finish with stainless steel service counter, sinks, etc; to be compared also with Messrs. Marshall & Snelgrove, also recently refitted by the company. Most installations have their design problems, often to comply with special architectural conditions, and Debenham's was no exception. Here, wash-up and kitchen are on different levels, necessitating a ramped service passage. Hoods are of special design and are constructed of anodised aluminium.



- A. 4-oven electric range with pot and pan rack over.
- B. Bain maries, steam heated
- C. Hot closets, steam heated
- D. Toaster, electric.
- E. 3-compt. wet steam oven with steam and grease trap.
- F. 30-gallon steam boiling pan.
- G. 15- " " " "
- H. Existing electric fish fryer.
- I. Double compartment electric grill with hot closet over.
- J. Existing "Jiffy" grill.
- K. Tea and coffee set, steam heated.
- L. Water boiler, steam heated.
- M. Electric boiling plate.
- N. Counter with tea-leaf sink under.
- O. Tables, stainless steel.
- P. Sinks and drainers, stainless steel.
- Q. Pot rack, galvanised with enamelled framing.
- R. Cleans stacking rack, stainless steel.
- S. Existing marble top table.
- T. Bread cupboard.
- U. Existing cupboard.
- V. Potato peeler with dirt interceptor.
- W. "Rotex" dishwashing machine.
- X. Galvanised pot sink and drainer.
- Y. Service tray slide, stainless steel with steam heated hot closet under half its length.

Hot
service
counters.

BENHAM

SERVICE TO ARCHITECTS

Cooking

Cooking Appliances, all fuels
Specialist Kitchen Planning
Kitchen Joinery, Dishwashing Machines
Stainless Steel Sinks and Drainers

Heating

Heating Engineers
"Panelite," Invisible Panel Heating
Electric Convector Air Heaters

Air Conditioning

Air Conditioning Engineers
Ventilation
Elimination of Dust, etc.
Rectification of Existing Installations

**BENHAM & SONS LTD. 66 Wigmore St.
LONDON, W.1 (WELbeck 9253)**

BOURNEMOUTH · BIRMINGHAM · BRIGHTON
MANCHESTER · CARDIFF · GLASGOW
DUBLIN

Plan showing new layout of the kitchen of Messrs. Debenham and Freebody.
Note the wide service ramped passage which also acts as emergency fire exit for the restaurant.

A HOUSE IS AS GOOD AS ITS ?



WHAT DO YOU THINK?

We believe good joinery plays a very important part in any building, from the planning stage to the wear and tear of everyday usage on the finished job.

EJMA joinery sets a high standard of design, materials and finish. It allows for the utmost flexibility in planning. It guarantees the excellence of materials and workmanship. It may be specified with complete confidence.

The Trade Mark is a guarantee of quality since it may only be used by licensed producers who undertake to conform to the designs and specifications of the Association.

A list of members manufacturing EJMA Joinery may be obtained from the Secretary of the Association.

SPECIFY

EJMA
CERTIFICATION TRADE MARK

THE GUARANTEE
OF JOINERY
EXCELLENCE

THE
ENGLISH JOINERY MANUFACTURERS ASSOCIATION
(INCORPORATED)

SACKVILLE HOUSE : 40 PICCADILLY W.I. Reg. 4448

Send for your copy NOW . . .

**FREE ILLUSTRATED FOLDER
GIVING FULL DETAILS OF THE
LATEST
FUEL-ECONOMY
DEVELOPMENT**



New Sadia Coal-Electric Water Heating System

EVERY architect will want this new folder. Designed for small houses and flats, the type C.E.L. Sadia is an efficient, compact, factory-built unit, which works by both solid fuel and electricity. With a minimum consumption of fuel or electricity this new water heating system provides a constant supply of thermostatically controlled hot water all the year round.

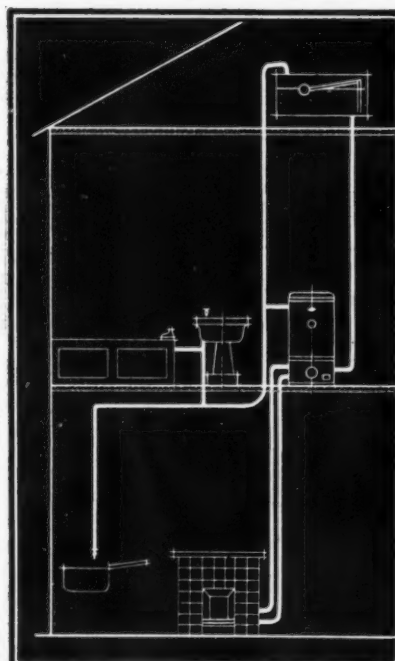
Makes Back Boiler Systems More Efficient



Fitted in place of the hot water tank, the Type C.E.L. Sadia stores all heated water in an effectively insulated container, thus reducing heat losses to a minimum. Coal is not wasted in summer—electricity provides ample hot water for all needs and the house is kept cool. In winter, water is heated by the solid fuel boiler and the electricity is automatically shut off by the thermostats.

CALORIFIER STOPS FURRING-UP

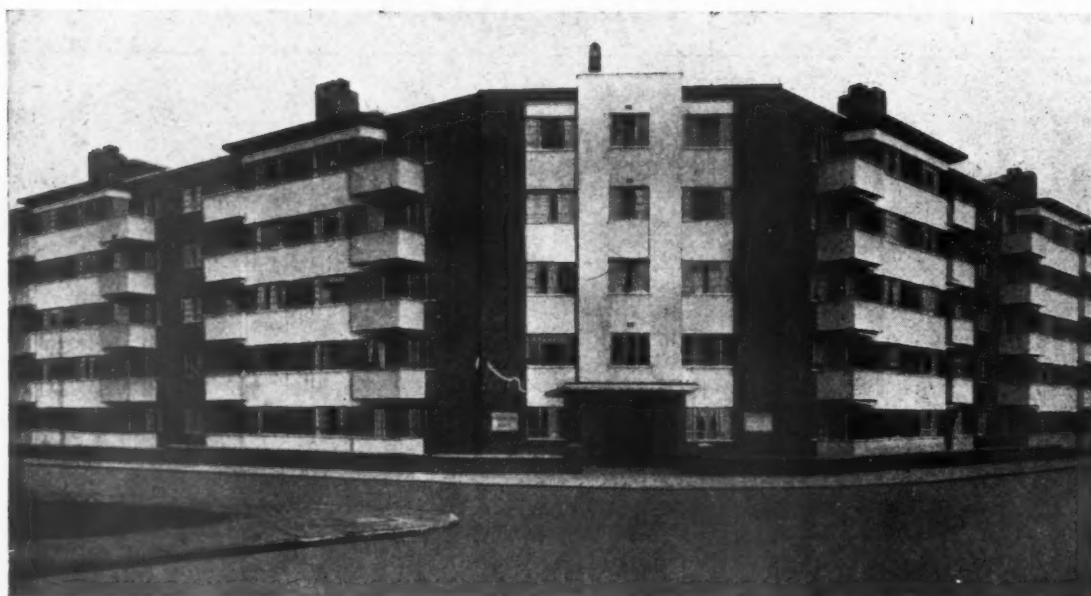
For use with hard water the C.E.L. is fitted with an automatic calorifier which needs no separate feed or venting.



SADIA
HOT WATER BY
ELECTRICITY

Write today to AIDAS ELECTRIC LTD.
SADIA WORKS, ROWDELL ROAD, NORTHOLT, MIDDLESEX
SCOTTISH AGENTS: W. BROWN & CO. (Engineers) LTD., 89 DOUGLAS STREET, GLASGOW, C2

FLATS AT HAGGERSTON FOR SHOREDITCH BOROUGH COUNCIL



Engineer and Surveyor : G. T. Fulcher, Esq., O.B.E., M.I.Mun.E. Contractors : Walter Lawrence & Sons Ltd.

TILED FIREPLACES FOR THE
ABOVE BLOCK OF FLATS SUPPLIED BY
SUPREMUS TILE CO. LTD.

Sole Manufacturers of

DuROY
TILED FIREPLACES

Illustrated Catalogue and Working Drawings sent to Architects on request

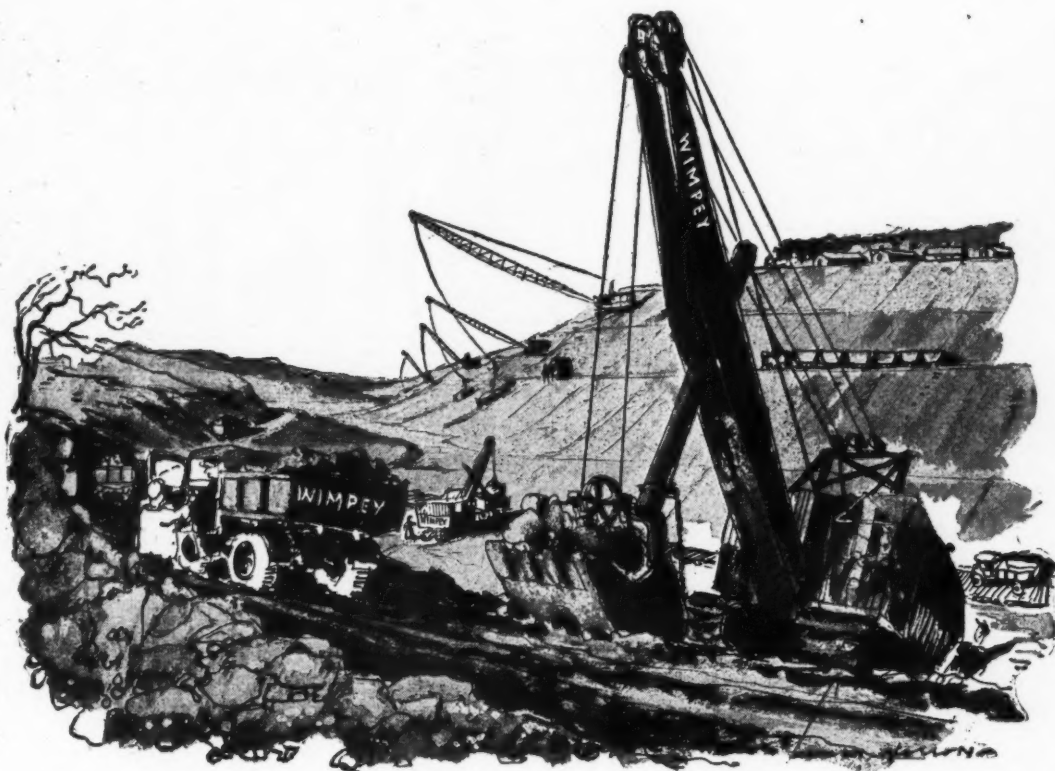
WOODCOCK HILL, RICKMANSWORTH, HERTS



Phone : 2803

WIMPEYS AT WORK

Eight tons a minute



This is a typical Wimpey excavator. One of the latest types, moving speedily about the site under its own power, moving easily from job to job, often working day and night and averaging a hundred hours a week—it can excavate eight tons a minute.

WE USE a large number of these excavators, not only for shifting soil but for excavating in hard earth and rock for the thousands of tons of coal which we uncover every week by open-cast methods. Like all Wimpey plant, our excavators are serviced daily, and overhauled at intervals at one of the national network of Wimpey service stations.

Wimpey's immense pool of mobile modern plant helps to explain Wimpey's efficiency, economy and speed. All Wimpey's huge central resources—plant, transport, key manpower, laboratory work—are 'on tap' for any Wimpey job, large or small, anywhere in

Britain. All these resources are at the command of Wimpey's seven British regional offices: at Birmingham, Cardiff, Manchester, Newcastle, Nottingham, Edinburgh and Glasgow. Wimpeys also have large foreign depots at Cairo, Baghdad and Singapore.

WIMPEY

*Contractors since 1880—and now busy in
the export market as well as at home*

GEORGE WIMPEY AND COMPANY LIMITED, TILEHOUSE LANE, DENHAM, MIDDLESEX

M.2

Part of a
long run of
GYPSTELE
Registered Trade Mark
partitioning
installed at the
British Oxygen Company's
factory, Morden



GYPSTELE is a "dry" system which enables partitions to be easily installed or dismantled according to the changing needs of growing offices or factories. All component parts and materials can be salvaged and used repeatedly.

The partitions are formed of interlocking sherardised steel vertical and horizontal members, arranged to carry double panels of $\frac{1}{2}$ " thick GYPROC. Single or double glazing and standard door frames can be accommodated as required. Simplicity and speed of erection, structural strength, fire-resistance, and satisfactory sound and thermal insulation are other advantages of the GYPSTELE system.

A GYPSTELE ceiling has also been applied to the job illustrated above. The smaller illustrations give some idea of the adaptability of this system of partition construction. Further information about this and other GYPROC products or systems will gladly be supplied.

Makers also of ACOUSTELE Ceilings, GYPROC Plaster Board, GYPKLITH Lightweight Building Slabs, GYPSTELE Partitions and Ceilings, GYPROC 2" Solid Partitions.

GYPROC PRODUCTS LIMITED

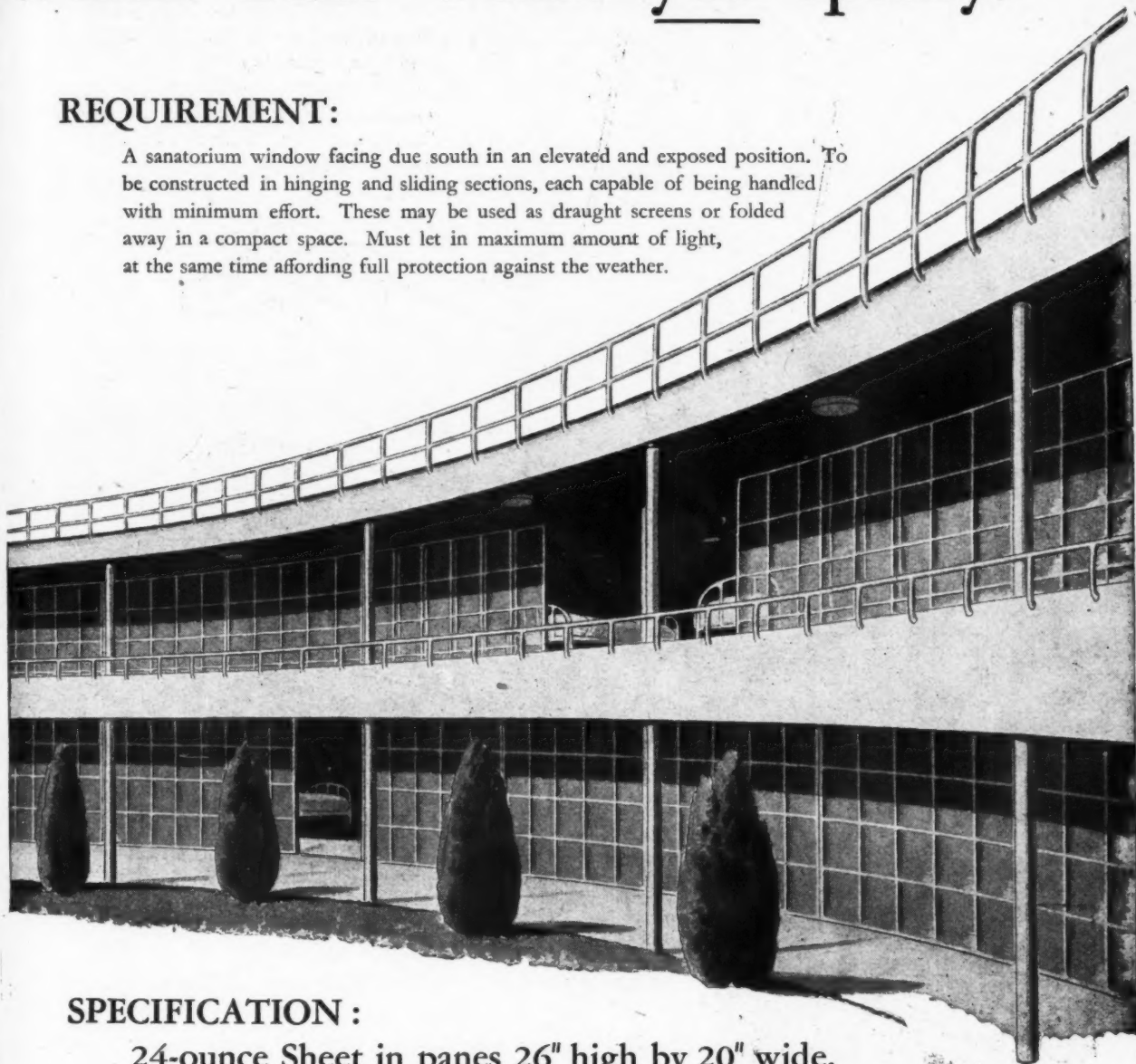
HEAD OFFICE: Westfield, Upper Singlewell Road, Gravesend, Kent. Tel: Gravesend 4251-4 Grams: Gyproc, Gravesend
GLASGOW OFFICE: Gyproc Wharf, Shieldhall, Glasgow, S.W.1. Telephone: Govan 614 Telegrams: Gyproc, Glasgow
LONDON OFFICE: Morris House, 1-3 Jermyn Street, London, S.W.1 Telephone: Whitehall 9821-5

G.S.4

Which Glass would you specify?

REQUIREMENT:

A sanatorium window facing due south in an elevated and exposed position. To be constructed in hinging and sliding sections, each capable of being handled with minimum effort. These may be used as draught screens or folded away in a compact space. Must let in maximum amount of light, at the same time affording full protection against the weather.



SPECIFICATION :

24-ounce Sheet in panes 26" high by 20" wide.

REASONS :

As the window sections had to be moved easily, lightness of weight was essential, so Sheet Glass was selected which obviated use of heavy or bulky framework and glazing bars. Sheet Glass allows 90 per cent light transmission. Though wind pressures not exceeding 15 lbs. per square inch (68.5 m.p.h. wind velocity) would be withstood by 24-ounce Sheet panes of double the size specified, the unusually exposed position of the windows made a generous safety-margin desirable. The aggregate weight of the 6 panes of 24-ounce Sheet in each section amounted to 32½ lbs.



When considering your glazing specifications, write to our Technical Department at St. Helens or visit our London showrooms at 63 Piccadilly, W.1.

PILKINGTON BROTHERS LTD. ST. HELENS, LANCs.

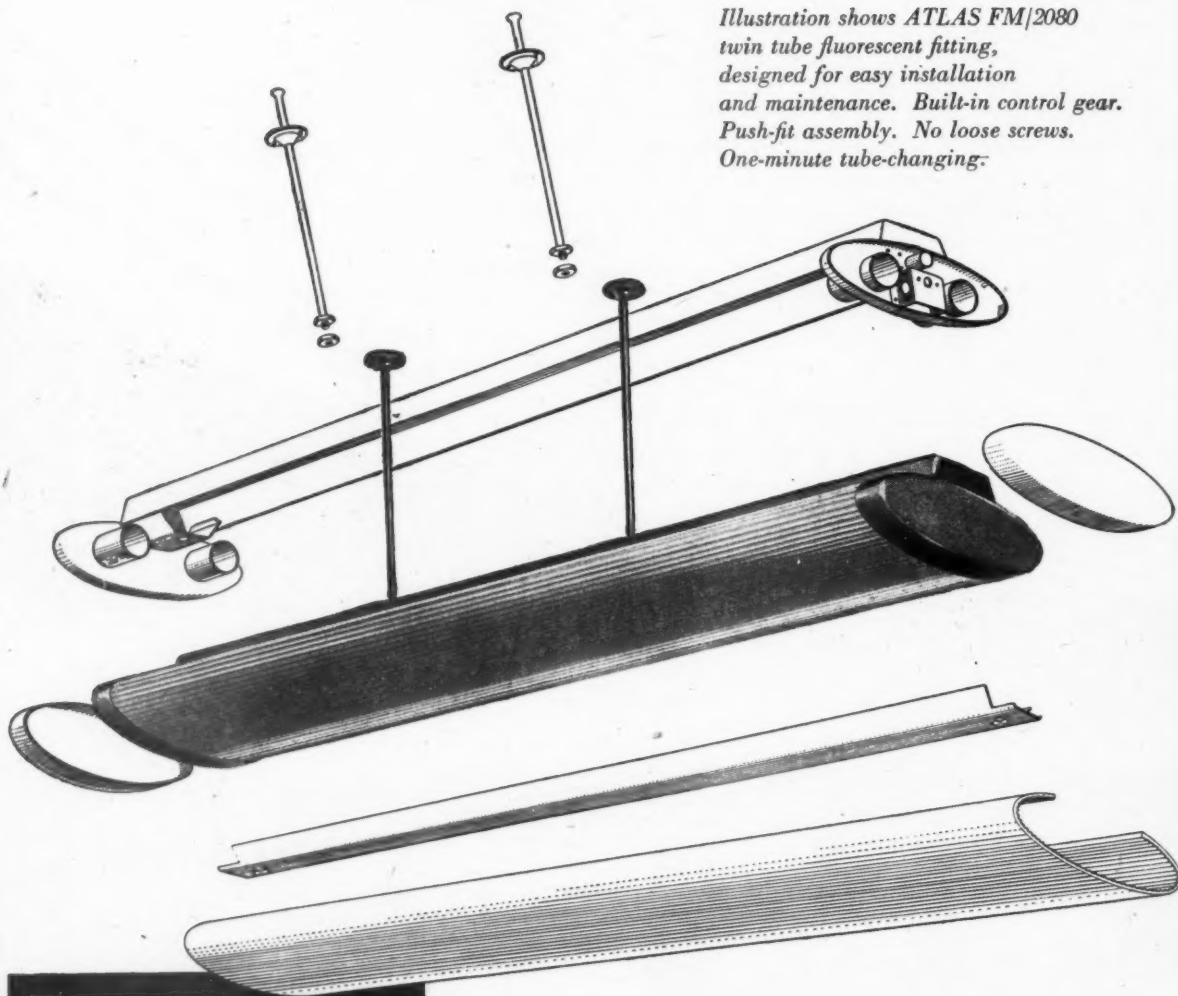


Illustration shows ATLAS FM/2080 twin tube fluorescent fitting, designed for easy installation and maintenance. Built-in control gear. Push-fit assembly. No loose screws. One-minute tube-changing.

**FUNCTIONAL
LIGHTING**

ATLAS Fluorescent fittings combine high mechanical and optical efficiency with a designed elegance that measures up to critical architectural standards. They are available

in a wide range of models, each designed with the same care and attention to detail. The ATLAS QUICKSTART UNIT gives immediate lighting response and prevents fading during voltage drops.

Architects are invited to investigate the possibilities opened up by the new Atlas 'peach' tube. Atlas illuminating engineers will gladly co-operate in the planning of any lighting installations. Write for illustrated leaflets.

ATLAS FLUORESCENT FOR INDUSTRIAL & DOMESTIC LIGHTING



HIGGS^{AND} HILL
LIMITED

LONDON

LEEDS

COVENTRY

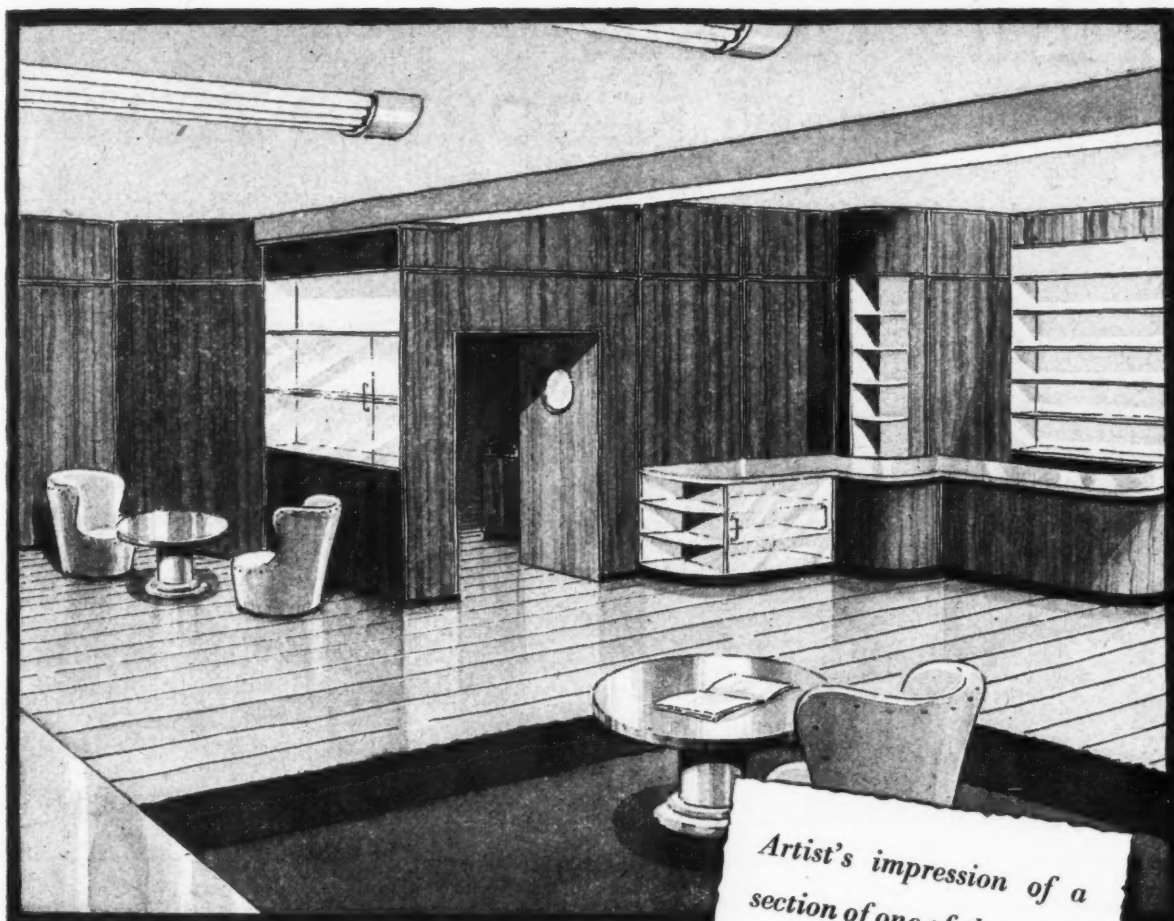


British Columbia Red Cedar
—one of the many fine woods
used by this Company to
produce work of which the
Industry can be proud.

The
**Midland Woodworking
Company Ltd**

MELTON MOWBRAY

Craftsmen in Domestic Joinery



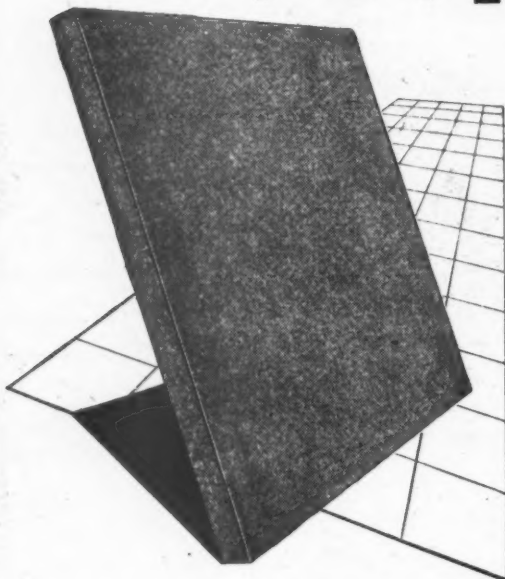
*Artist's impression of a
section of one of the many
schemes executed by us.*

FOR PARTITIONS AND FITMENTS you can confidently specify Compactom. We have achieved outstanding results in this type of work with materials that are free of licence and which are ideally suitable for prefabrication. Our experienced technical staff will gladly advise you on any scheme, large or small, simple or complex.

C	O	M	P	A	C	T	O	M
P	A	R	T	I	T	I	O	N

COMPACTOM LTD. OXGATE LANE, LONDON, N.W.2
TELEPHONE GLADSTONE 2600

PLIMBER offers immediate delivery of the New High Density FLOORING TILES



An attractive and durable synthetic timber tile that is licence free

A new development of Plimber, these high density synthetic timber tiles are now in mass production and available for immediate delivery. Size 12" x 12" x $\frac{5}{8}$ " nominal, the tiles are an attractive light wood colour. They may be stained to any required shade and wax polished exactly like parquet. Laboratory tests have shown Plimber Tiles to have the same resistance to wear as natural timber and excellent insulating properties. Plimber tiles may be laid over concrete or any even surface. They are licence free and exempt from purchase tax. The retail price (unlaid) is 21/- per square yard (9 tiles) ex-works.

★ *You are invited to write for full details and prices to the manufacturers*

BRITISH PLIMBER LTD. 90, REGENT ST. LONDON, W.1 REGENT 5765
or to any Plimber Distributor.

USE PLIMBER AND SAVE TIMBER

KEEP HEAT *INSIDE*

"There is probably no single factor which may contribute to a greater saving of fuel used for heating buildings than the adequate use of insulation."

"The cost of a heating installation may be reduced by more than the cost of providing insulation."

"The aim of this Bulletin is to ensure that no building shall be erected in the future, without consideration being given to this very important matter (i.e. Insulation)."

Reproduced from the Ministry of Fuel and Power 'Fuel Efficiency Bulletin No. 12'



THE MINISTRY OF FUEL
AND POWER *Say...*

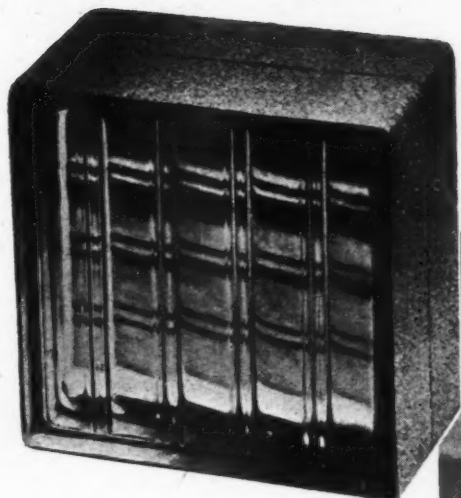
"Insulation may save more than half the fuel required to heat an un-insulated building."

UN-INSULATED buildings, particularly of corrugated iron or asbestos construction, allow high heat loss and entail greater initial 'heat-up.'

The importance of fuel costs and conservation, plus the comfort and well being of workers during winter months, is of a priority nature today—and many leading manufacturers (who of necessity during the war years and since have extended with un-insulated buildings) are alive to the fact, and suitable 'insulation' is now in progress.

The business of W. F. Hollway & Brother Ltd. is handling much of this work and invites those interested to contact them for details and estimates.

W.F. HOLLWAY & BRO. LTD. • 42 Grafton Street • LIVERPOOL 8



A MODERN way to use GLASS

Important physical properties are combined with high aesthetic value in

INSULIGHT HOLLOW GLASS BLOCKS

They have all the hygienic properties of glass. They are efficient in the transmission and diffusion of light, have high insulating qualities (both thermal and sound), and ensure privacy.

Glass Blocks offer exceptional scope in modern architecture. As specialist fixers, Clarks know just where and how they can be used, and will gladly co-operate with you in the early stages of planning.

Please ring for information, or ask for a technical representative to call.

JAMES CLARK & EATON *Ltd.*

(Amalgamating James Clark & Son, Ltd.,
and Eaton, Parr & Gibson Ltd.)

GLAZING CONTRACTORS — CRAFTSMEN
STOCKHOLDERS & DISTRIBUTORS

SCORESBY HOUSE, GLASSHILL St.,
BLACKFRIARS, LONDON, S.E.1

Telephone: WATERloo 4611 (15 lines)

Branches: CANTERBURY · BOURNEMOUTH
EASTBOURNE · READING

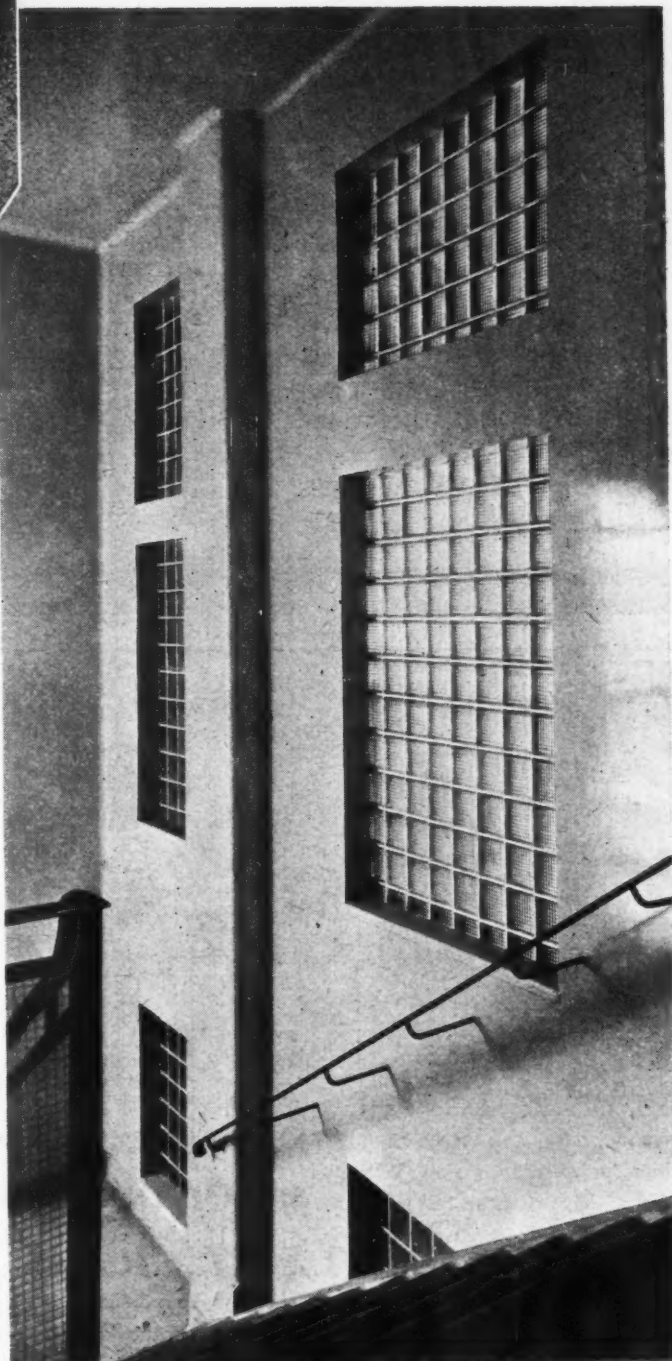


Architects:

Waterhouse & Ripley
F./F.R.I.B.A.

Builders:

Holliday & Greenwood Ltd.



Specialist Fixers of INSULIGHT HOLLOW GLASS BLOCKS

LITHOFALT^{REGD}

ASPHALT PAVING BLOCKS

FOR CARRIAGEWAYS,
FOOTWAYS, FACTORY
FLOORS & PLATFORMS
CAN BE LAID COLD
BY LOCAL UNSKILLED
LABOUR
LARGE STOCKS AVAILABLE

ENQUIRIES TO CENTRAL SALES DEPARTMENT

PHOTOGRAPH BY COURTESY OF THE GREAT WESTERN RAILWAY

THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD., STEEL HOUSE, TOTHILL ST., LONDON, S.W.1, ENGLAND



Patent No. 344159

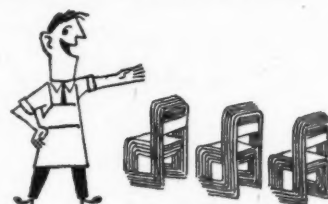
Model RP6

Chairs that can easily be moved into position for a meal, a meeting or a concert. Chairs that can be moved away quickly and be stored in next to

no space. Chairs that can stand up to constant hard usage without showing the strain. Chairs that provide the maximum of comfort and good looks. Pel Nesting Chairs have been designed to satisfy every one of these important needs. They are made by a company which pioneered the introduction of tubular steel furniture. The high quality steel used means that all unnecessary weight is eliminated (a stack of 20 chairs weighs less than many an easy chair) without any sacrifice of strength.



SIT ON PEL IN COMFORT — MOVE PEL WITH EASE



STORAGE IS NO PROBLEM WITH NESTING CHAIRS LIKE THESE

PEL

N E S T I N G C H A I R S



A  PRODUCT MADE BY PEL LTD · OLDBURY · BIRMINGHAM

London Office: 15 Henrietta Place, W.1.

The perfect concrete-curing blanket

The advantage of Sisalkraft on a concrete curing job is the certainty that it will keep stipulated moisture in the mix and unwanted moisture and contamination out. When a newly laid bay of concrete is covered with Sisalkraft, the surface moisture condenses, little globules of moisture cling to the under-side of the blankets, being returned to the mix in the form of "sweat" to maintain a state of humidity. The result is even hydration throughout the slab, a dense, hard set, and a surface resistant to abrasion; with no material other than Sisalkraft can you be so sure of ultimate perfection in concrete curing. Sisalkraft is stronger than required by any standard specification (proved by official tests). It is easily transportable from site to site, and can be used over and over again. Sisalkraft is being extensively and consistently used by Government Departments, Municipal Authorities, and Public Works Contractors; you cannot do better than to follow their example.

Write to-day for technical details.



Our new SISALKRAFT film in colour and sound can be seen in our private cinema at Aldwych House by appointment.

SISALKRAFT

TRADE MARK

Sole Distributors for British Sisalkraft Ltd.

J.H. SANKEY & SON. LTD

ALDWYCH HOUSE, ALDWYCH, LONDON, W.C.2

● TELEGRAMS: BRICKWORK, ESTRAND, LONDON ● TELEPHONE: HOLBORN 6949 (14 LINES)

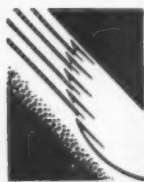


To kill & Roast a PIGG---

Take your Pigg and hold the head down a Payle of cold Watter untill strangled, then hang him up buy the heels and fley him, then open him, then chine him down the back as you doe a porker first cutting of his head, then cut him in fower quarters, then lard two of the quarters with lemon peeel and the other two with tops of Time, then spit and roast them. The head requears more roasting than the brains with a little Saige and grave for sauce.

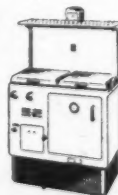
From : 'A' Butler's Recipe Book ' 1719

Today, the good butler would have to start his recipe "First obtain a licence to kill your pig..." and then he would be lucky if he finished with a fat pork chop. The chop, however, would be cooked much better today, and soon, when Eagle Ranges are plentiful as grunts in a piggery, the quality of our cooking will match the abundance of eighteenth century rations.



EAGLE

Advance
RANGE



EAGLE RANGE & GRATE CO. LTD. Aston, Birmingham. 6
Product of Radiation Ltd



BUT..

Here is the Answer -

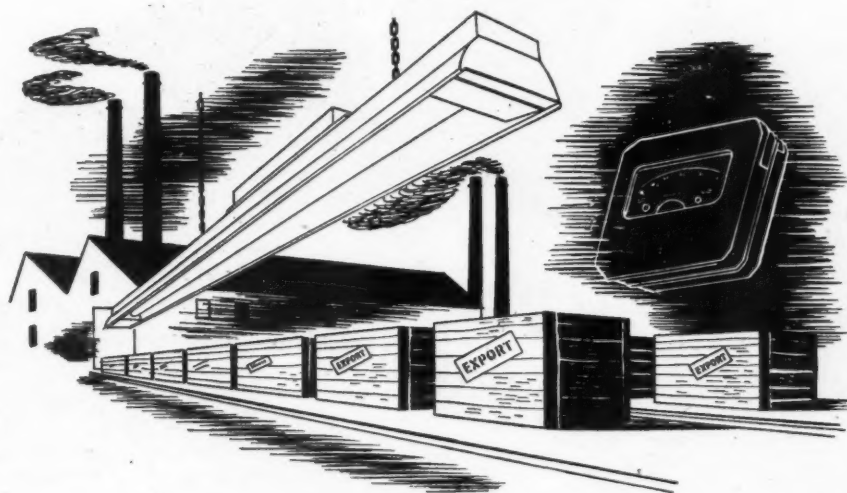
NO W.B.A. permit is necessary for **TRETOL CHLORINATED RUBBER PAINT**, supplied in Aluminium, Red, Grey, Battleship Grey, Brown, White and Cream, or for **TRETOL BITUMINOUS COATINGS**, supplied in Black, Red, Brown, Green and Aluminium.

Write for details to :-

TRETOL LTD., 12/14 North End Road, London, N.W.11. Tel. : SPE. 4621 (5 lines).
Works : Slough, Bucks.

TRETOL

PAINT



Better lighting points the way to increased efficiency

THE application to industry of recent developments in lighting technique has resulted in a marked increase of efficiency, coupled in many cases with reduced current consumption. Planned lighting is able to effect a general speeding-up of manufacturing and assembly processes by ensuring the best possible visual conditions for each operation. In designing new premises and modernizing old ones, the co-operation of the Ekco-Ensign Lighting Advisory Service is available for the planning of the correct lighting conditions essential for modern production needs, at the minimum running cost.

NOW, while daylight is still plentiful, is the time to plan efficient lighting so necessary to the success of next winter's production. An enquiry by letter or telephone to any of the following offices will be dealt with promptly and without obligation.

Ekco-Ensign

ELECTRIC LTD

LIGHTING ADVISORY SERVICE

Southern : 5 Vigo Street, London, W.1

Northern : Kent Street Works, Preston, Lancs.

Western : 50 Bridge Street, Cardiff

Telephone : REGent 2601

Telephone : Preston 4628

Telephone : Cardiff 5426



TODAY in Britain at their Tynemouth factory, De La Rue's are producing FORMICA* in a range of attractive colours and finishes . . . This is great news of the

highest import to all Designers, Architects and Interior Decorators.

*FORMICA. A decorative Laminated Plastic of great beauty possessing physical properties which give it a wide field of usefulness in every type and sphere of modern interior decoration. It is also produced in a 'Cigarette-proof' grade which is the final answer to the cigarette burn menace.

Write today for full details.

De La Rue Insulation Limited

Imperial House, 84/86 Regent Street, London, W.1, England
Telephone: Regent 2901 Cables: Delinsul, London

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 15s. each; carriage 1s. extra.



DIARY FOR MAY JUNE AND JULY

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first.

B.C. THIRD PROGRAMME. Raglan Squire. *The Restoration and Re-planning of our Towns.* 6 p.m. JUNE 2

CARDIFF. TCPA One-Day Conference. At the Reardon Smith Lecture Theatre, Cardiff. (Sponsor, TCPA.) JUNE 5

CHATHAM. Visit to Fort Luton School. (Sponsor, S.E. Society of Architects, Maidstone Group.) JULY 10

EDINBURGH. TPI 22nd Annual Country Meeting. (Sponsor, TPI.) JUNE 4-6

GATESHEAD. RSI Gateshead Sessional Meeting. Lt.-Col. G. Perry. *The Planning of Industrial Estates.* Afternoon visits to Queen Elizabeth Hospital and Sheriff Hill Isolation Hospital, Gateshead, Shipcote Baths and the Team Valley Trading Estate. At the Greensfield Health Centre, Mulgrave Terrace, Gateshead. (Sponsor, RSI.) JUNE 26

HARROGATE. RSI Conference. At Harrogate. (Sponsor, RSI.) UNTIL MAY 28

IRELAND. TCPA Irish Study Tour. UNTIL JUNE 19

LIVERPOOL. British Architects Conference. (Sponsor, RIBA.) MAY 27-30

LONDON. Darkness into Daylight Exhibition. At the Science Museum, South Kensington. (Sponsor, Science Museum.) UNTIL SEPTEMBER 30

Some Ideas on Design in the Home Exhibition. At the Passmore Edwards Library, Shepherd's Bush. (Sponsor, ACGB.) UNTIL MAY 31

Georgian Architecture in Northern Ireland. Exhibition of photographs. At the Ulster Office, 13, Lower Regent Street, S.W.1. (Sponsor, CEMA (Northern Ireland).) UNTIL MAY 31

Coalite Exhibition. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) UNTIL JUNE 14

Exhibition of Metropolitan Housing Layouts. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) UNTIL JUNE 26

New Schools Exhibition. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) Weekdays 10-6, Saturdays 10-5. UNTIL JUNE 19

Lady Pepler. *Recent Developments in the Work of the International Federation.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) Buffet lunch 12.45 p.m. Meeting 1.15-2.15 MAY 27

W. A. Wood. *The 1947 Town and Country Planning Act.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 1.15 p.m. MAY 27

ABT Open Evening. At the Building Centre, 9, Conduit Street, W.1. (Sponsor, ABT.) 6.30 p.m. MAY 28

RICS Annual General Meeting. At the RICS, 12, Great George Street, S.W.1. (Sponsor, RICS.) 5 p.m. MAY 31

W. J. Woolgar. *Plumbing and Hygiene.* At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch 12.45-1.15 p.m., 2s. 6d. Lecture, 1.15-2.15 p.m., 6d. JUNE 1

Prof. A. E. Richardson. *Craftsmanship.* Peter Le Neve Foster Lecture. At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. JUNE 2

Discussion on the 4th Edition of the Standard Method of Measurement of Building Works. To be opened by P. T. Walters. At Caxton Hall, Westminster. (Sponsor, IAAS.) 6.30 p.m. JUNE 7

MANCHESTER. One-Day School on the Town and Country Planning Act, 1947. W. A. Wood of MOTCP will lecture on (1) Compensation and Development Charges, (2) The Planning Machine, (3) Land Purchase. At the Town Hall, Manchester. Sponsor, (TCPA.) 10.30 a.m. MAY 29

TORONTO. Canadian International Trade Fair. At the Exhibition Grounds, Toronto. (Sponsor, Canadian Government Exhibition Commission.) MAY 31-JUNE 12

COMPETITIONS

Art Competition and Exhibition of the XIV Olympiad, London, 1948. Designs eligible: (a) Town planning, (b) Architectural designs. Entries will be limited to designs for sports grounds and to buildings intended for use in connection with sport only, and must be received before June 11, 1948. Full particulars from the Organizing Committee for the XIV Olympiad, London, 1948, 105, Victoria Street, London, S.W.1. JUNE 11

Royal National Eisteddfod of Wales Architectural Competitions, 1948. Competition 192 for a county college. Competition 193 for a neighbourhood unit layout. Assessors: C. F. Bates and T. Alwyn Lloyd. Premiums: £50 in each case. Conditions and entry forms from Rev. W. J. Samuel, General Secretary, 38, Dunraven Place, Bridgend. Entries to be submitted between June 5 and 14. JUNE 5-14

NEWS

THURSDAY, May 27, 1948
No. 2781 VOL. 107

News	477
Liverpool Rehoused	478
This Week's Leading Article ..	479
Astragal's Notes and Topics ..	480
Some Personalities of the Liverpool Conference	482

Information Sheets:

32.C23 Ascot Alternative Hot Water Systems

1.B3 Graphic Symbols:
1. Based on B.S. 1192:
1944

To face
page 482

The Conference Programme
Liverpool 483

The Architectural Background
of Liverpool. By F. J. M.
Ormrod 484

Current Work in Liverpool .. 489

The Model Village of Port
Sunlight. By Josephine
Reynolds 492

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.

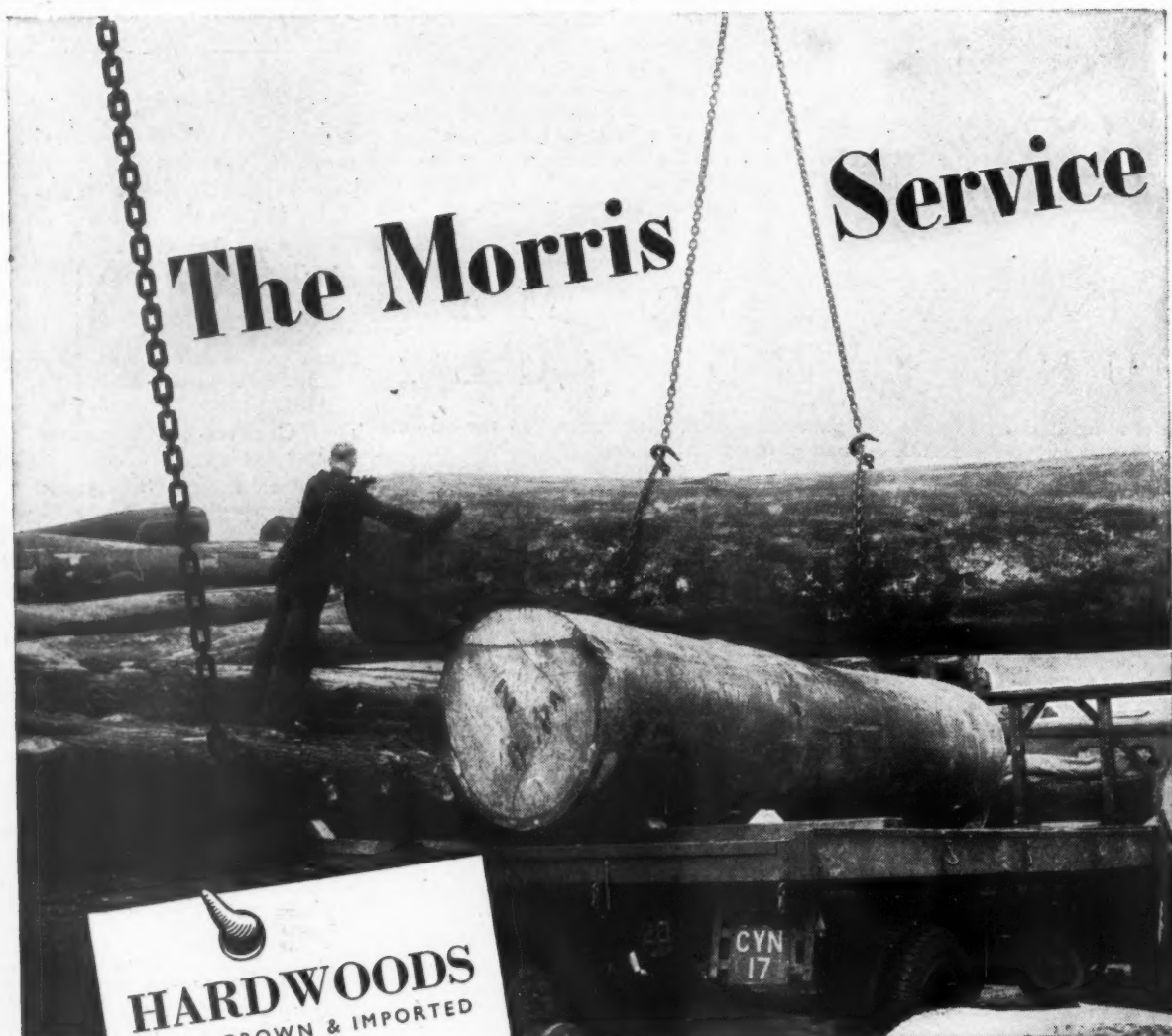
Any feature marked with more than two stars is very big building news indeed.

★
The MARS Group announces the inauguration of the first INTERNATIONAL SUMMER SCHOOL FOR ARCHITECTS of post-graduate status to be held from July 19 to September 6, 1948.

The school is to be held at the AA School premises under the aegis of CIAM, and will be directed by Maxwell Fry, assisted by Miss Jacqueline Tyrwhitt and members of the MARS group. There will be forty students, 20 being selected by the MARS group from applications in the British Isles and Commonwealth, and 20 by the various local groups of CIAM in other countries.

The subjects of study will centre upon the architectural aspects of central urban-re-planning, with addresses and discussions by architects of international repute, who will visit the school at intervals throughout the course, supplementing and enriching the continuous studio instruction provided by the director and staff. The services of the school staff and visiting architects will be voluntary, but all other necessary expenses must be met, and a fee of £25 will be charged for the course.

Applicants, who should be of post-graduate status, are invited to apply without delay to the Bursar, CIAM Summer School of Architecture, 34, Gordon Square, London, W.C.1, enclosing particulars of training and qualifications, etc., and testimonies of study in as compact as possible a form.



The Morris Service

HARDWOODS
HOME GROWN & IMPORTED
Decorative Veneers

Floorings
Wood Bends
Log Sawing
Moulding
Kiln Drying

M·A·MORRIS·LTD

**RAVENSDALE WHARF
AND SAWMILLS**
STAMFORD HILL, LONDON, N. 16
Telephone : Stamford Hill 6611 (6 lines)



From AN ARCHITECT'S Commonplace Book

ARCHITECTS AND THE HIGHER LIFE. [From The Buildings Erected at Port Sunlight and Thornton Hough, by W. H. Lever (afterwards Lord Leverhulme). A paper read at a meeting of the AA, March 21, 1902.] It is not until the first architect appears on the scene that man comes within the reach of a higher life. There can be no possibility of doubt that the architect was the first and most important link in the chain of art workers that have raised us to our present state of civilization. The art of the painter is a most important one, but it is clear that until there were suitable buildings the least remunerative of the professions. If an architect does his duty to himself and client, and supplies full necessary detail drawings to the builders; if he carefully and conscientiously supervises the progress of the building during erection, he will have a very small sum left for his own personal remuneration after paying the salaries of draughtsmen and assistants. And it is to the credit of the architectural profession that it does contain a body of men who maintain a high level for their profession, as free as the requirements of life will permit from unworthy thoughts of personal remuneration. And with a very few exceptions this appears to have been always the case with architects in all countries and ages.

★★

Two replies have been made to the Simon Committee's report on the DISTRIBUTION OF BUILDING MATERIALS AND COMPONENTS: one by the Distributors of Builders' Supplies Joint Council, the other by the National Council of Building Material Producers.

The Simon Committee report, the subject of the leading article in the A.J. for May 13, alleged that there were restrictive practices on a large scale in the distribution of building materials and components, and that in the national interests these should be abolished so far as possible.

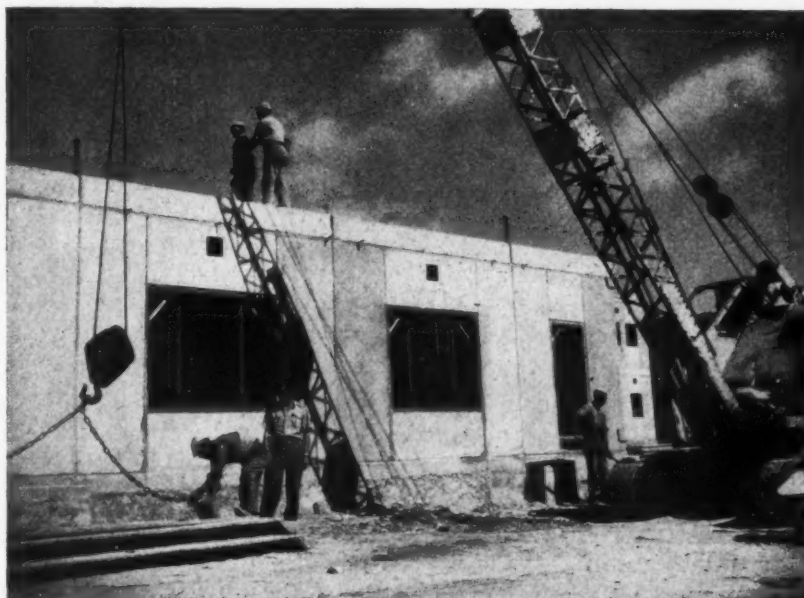
In their reply, the Distributors of Builders' Supplies Joint Council calls for the rejection of the major conclusions of the Simon Committee's report and for the reopening of the inquiry to take further evidence and expert interpretation of that evidence. Sir Dudley Pryke, the chairman, said that the council agreed with about one-quarter of the report, in so far as it analysed the functions of builders' and plumbers' merchants. Where members least agreed with the report was where it expressed opinions not based on factual evidence and drew conclusions based upon what were admittedly assumptions. Four points that the council criticized in the report were that builders' merchants provided too elaborate services, were parties to rings and monopolies, made too much profit, and that there were too many merchants. The first point was inconsistent with the committee's own call to merchants to elaborate their office systems, yards, and showrooms, and with the demand now being made by the Coal Utilization Joint Council and the Ministry of Fuel and Power for merchants throughout the country to provide more elaborate showrooms and after-sales' services in connection with the new and improved cooking appliances coming on the market. The question of monopolies could be left to the manufacturers, who were quite capable of meeting the issue. More than a half of the commodities handled by the merchants were not subject to any price control. To support the charge that the merchants made too much profit, the committee took the year 1946 or the nearest accounting period to it. That year was a period of sharply rising prices, a boom year, when there were many bomb-damage repairs leading to the use of large quantities of materials. To take a single year in that way was entirely wrong. The period of analysis should be at least 10 years to allow for the fluctuations of supplies and prices, and the corresponding losses on stocks as prices fell. The argument that merchants were making too much

profit was based on a statement made to the committee by the Ministry of Works report. If there were too many merchants, how were they to set about reducing the number? If there was to be a reduction, would not that be in restraint of trade? Would it not also reduce the very competition the committee was so anxious to see? The joint council had been co-operative enough during the inquiry, and had given all the help it could, but the committee had not pushed its researches far enough. As the report was not based upon factual evidence, but apparently upon preconceived evidence and hearsay, the joint council felt that the inquiry should be reopened.

The National Council of Building Material Producers' reply suggests that the committee began with the hypothesis that trade agreements within the industry were inherently harmful. The view which it adopted had the apparent merit of definitiveness and simplicity, but it was an illusory over-simplification because it evaded the reality and complexity of the issues which faced the Government, industry and the

public. The only fruitful way—and the producers believed that the Government should make this clear publicly—was to recognize the good that lay in co-operative agreements as well as the potentiality for harm. The statement expresses the belief that the committee's procedure in taking and recording evidence and sources had been most haphazard. There were instances where pure hypotheses had become elevated during the course of the committee's arguments to the dignity of established fact. It seemed probable that the range of the building materials industry was so large that the Simon Committee found it an impracticable task to cover it adequately in the time at its disposal.

The Town and Country Planning Association's IRISH TOUR leaves for Belfast on May 31.
The tour will be led by Mr. F. W. Dalley, former General Secretary of the Railway



Apart from Morocco's housing shortage, there is also a scarcity of skilled workmen. To solve this problem tenders were asked for from all over Europe for suitable prefabricated houses. These had to withstand excessive temperatures and be easily erected by unskilled labour. From 1,000 prototypes submitted the British one was selected as providing the maximum comfort at a reasonable price. The houses are semi-detached, providing five rooms, kitchen and bathroom in one; and four rooms, kitchen and bathroom in the other. This photo shows one of the prefabs in course of erection.



Liverpool Rehoused

Liverpool had a great reputation, even before the war, for the efforts made by the Corporation Housing Department, under Sir Lancelot Keay, to replace insanitary slums by clean, well-planned blocks of flats. This photograph shows typical new housing rising alongside the old. While some of the former can be criticized for exceeding

the density thought desirable nowadays, it achieves an all-round standard that few English cities can rival. Specimens of Liverpool's Corporation housing should be visited by all delegates to the RIBA Conference which takes place this week. The Conference is the subject of this special number of the JOURNAL.

Cle
tow
men
Irel
the
Tru
the
Gra
Lon
trav
visi
in t
Pla
of
will
the
and
afte
Con

★
Th
Inc
for
VI
R
T
The
sug
Arc
wit
Stru
of
Res
sch
inf
var
Thi
Bui
pos
ma
var
pri
tion
per
lem
cha
cou
of
to
qui
in

M
of
shi
U
an

Clerks Association, and well known for his town planning work in the Labour movement. A week will be spent in Northern Ireland visiting housing estates and studying the work of the Northern Ireland Housing Trust, and will include official receptions by the Minister of Health, the Rt. Hon. William Grant, the Lord Mayor of Belfast, and the Lord Mayor of Derry. The party will then travel to Dublin, and the arrangements for visiting places of planning interest have been in the hands of Mr. Michael O'Brien, Town Planning Officer of Dublin, and Secretary of the Irish Town Planning Institute. These will include further receptions, amongst them by the Minister of Local Government, and the party will return via Rosslare, after a motor-coach tour going down to Cork. The party will number about 30.

★

The Department of Scientific and Industrial Research has appointed forty-seven HONORARY OBSERVERS OF THE BUILDING RESEARCH STATION.

Thirty-four are architects.

The appointments have been made following suggestions put forward by the RIBA Architectural Science Board and discussions with the RIBA, the IAAS, the Institution of Structural Engineers, the Royal Institution of Chartered Surveyors, and the Building Research Station. The main objects of the scheme are: (1) To collect from the industry information and experience available in the various geographical areas of the country. This information will be collated at the Building Research Station, supplemented, if possible, by the results of research, and then made available to the industry through the various building journals and other appropriate ways. (2) To encourage closer relationship between Building Research and the personnel dealing with the day-to-day problems of the industry. (3) To provide a channel by which experience throughout the country with newer materials and methods of construction can be readily collected, and to enable conclusions to be drawn more quickly as to their behaviour and suitability in practice.



Mr. Ronald A. Dick, of the Bartlett School of Architecture, whose election to a Fellowship in Architecture at Cornell University, USA, to study architecture, was recently announced in the Journal.

PROVINCIALISM AND PAROCHIALISM

THE RIBA's excellent custom of holding its Annual Conference in a provincial centre, this year at Liverpool, is a reminder that however important Londoners consider the metropolis, it is not the whole of England. It has been for long the habit of the Londoner to scorn the provincial, and to display little interest in the affairs of the remainder of the country except when he visits it at week-ends or on his summer holiday, and London architects are not guiltless of this parochial outlook, which is only partly mitigated by the presence of provincial members on the RIBA Council. The Annual Conference, a social occasion at which, in addition, some papers are read and applauded, helps to introduce the metropolitan quarter of the population to the other three quarters, but alone it cannot give the London architect sufficient opportunity of absorbing the outlook of the provinces. At the time of the Conference, when the liveliness and architectural activity of a centre like Liverpool are brought to their notice, members of the RIBA ask themselves what more might be done to keep the metropolis and the provinces in constant touch.

Other national institutions find it helpful to maintain contacts with their provincial members by holding meetings regularly in the provinces, attended by all those who make up the national committees or councils. Would it be out of the question to hold Council meetings of the RIBA in successive provincial cities? If members from the provinces can travel to London for these meetings, there is nothing to prevent Londoners taking their turn to travel in the other direction.

It has been greatly to the advantage of the profession that recent presidents of the Institute have developed their practice outside London, and at present it is probably true to say that provincial architects are busier than the majority of those in London. There is, however, little opportunity for them to keep in close touch with the Institute except through the activities of the Allied Societies. To enliven the architectural temperament of the provincial architect is obviously one of the duties of the Institute. Another way this could be accomplished is through a stimulation of the activities of the Allied Societies. These bodies frequently find some difficulty in maintaining a vigorous existence and largely rely upon the energy or devotion of one of their members with little technical assistance in the way of secretarial work. Meetings are few and the papers read are often inadequate. The RIBA would be helping the profession greatly if it saw to it that the Allied Societies were able to hold meetings at which papers of the standard of the sessional papers at Portland Place were read by speakers of similar standing.

There are no doubt many other ways in which members outside London could be enabled to participate more in the headquarters activities in Portland Place. Exhibitions should

be planned so that they could be seen in other cities, giving the architects of those cities an opportunity of keeping in touch with contemporary work. While provincialism may be a fault of some non-metropolitan architects, parochialism, as justly attributable to many Londoners, is no less so. Both can be eradicated to the advantage of the whole profession, and the Royal Institute is in a strong position to begin the good work by ensuring that its own organisation, on which the welfare of the profession depends, does not become overweighted at the centre.



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

A GLANCE BACK

The last time the RIBA Conference met at Liverpool was in 1921. The programme for this—the first large-scale provincial conference ever held—was an imposing one, and included a paper from the retiring president, J. W. Simpson, on *Registration*, one from Lionel Budden on *Education*, one from Maurice Webb on *Official Architecture*, and, of course, one from Professor Reilly on *Propaganda*. All these lectures, however, were received with only mild enthusiasm. "Mr. Simpson," says the contemporary AJ—no Astragal in those days—"added little to what is already common knowledge." Mr. Webb spent most of his time attacking the high salaries paid in the Office of Works (heigh-ho, those were the days!), while the Professor delivered a blistering attack on the AA, and (says the AJ again), "though displaying some brilliant flashes, generally gave little illumination to the problem."

In the discussion on official architecture Professor Adshead suggested—apparently quite seriously—that this should be confined to buildings which are underground, while a Colonel Beckwith—a Liverpool Councillor to whom the vision of Sir Lancelot pricking to the rescue was as yet denied—condemned the work of the city's housing department and said Liverpool would have had double the number of houses by now had a private architect been employed.

The visits—to the Cunard Building ("certainly up to expectation . . ."), to the cathedral ("where Sir Giles explained his difficulties of construction") and to the margarine works ("where the plant, unfortunately, was at a standstill") seem to have been generally successful, and the banquet ("to which ladies are especially invited") only cost 12s. 6d.

Today, Liverpool without Sir Charles is rather like Hamlet without Sir Laurence Olivier, but otherwise—so it seems from the AJ for June, 1921—things are much the same as then. The schools were overcrowded with ex-service students, there were articles in the AJ on daylighting and illustrations of buildings in Brazil; Mr. Waterhouse (father of Michael) was the President-elect, there was a crisis in the coal-fields, and a great national housing scheme collapse—described as "a national scandal . . . a monstrous bungling of bureaucrats" (wasn't this where we came in?) which had just culminated in the resignation of the well-meaning Dr. Addison. "This has proved conclusively," says the AJ, "the incompetence of the State to control industry." Those to whom such statements have a sadly familiar ring are reminded, however, that in 1921 the Ministry of Health was being attacked



Henry Moore's trio of stone figures; a new work which occupies a central position in the LCC's sculpture exhibition in Battersea Park.

for abandoning its programme before completion and not, as it is today, for refusing to abandon it.

BATTERSEA REVISITED

I now feel I was less than fair to the LCC when I wrote about their sculpture exhibition in Battersea Park a fortnight ago. I admired their enterprise, but said I was disappointed that they had collected all the pieces together in one enclosure instead of using the whole park as a landscape background. I have been along again—the first time I went the exhibition wasn't completely installed—and the finished effect is really most agreeable. The enclosure is large, with many varieties of trees and shrubs, so each piece can be looked at in a setting of its own.

The familiar ones—for example, the bronze Epstein from the Tate Gallery—gain immeasurably by being let out of prison, and the whole show is an object lesson in the proper use of sculpture. I hope other municipalities will take the lesson to heart. There must be plenty of sculpture incorporated in city art galleries that could be used to embellish public parks, and thereby stimulate a new interest in the art of landscaping.

OLYMPIAN MISTAKE

Last week's special issue of the AJ (lacking Astragal's pages) prevented me from referring before to *The Times*

leader of May 8, which drew attention to the fact that no architect, artist or professional designer has yet been appointed to watch over the visual side of the Olympic Games. This situation—"so incredible," writes our contemporary, *The A. and B.N.*, in commendable if confused rage "that it is almost unbelievable," has been disclosed when it is almost too late to remedy it.

*

Any other nation, says *The Times*, would have called in months ago the best stage managers, the best costume designers, the best architects, typographers, sculptors and painters to express in visual form the distinction and symbolism of this international event. But the British adoration of amateurism, or the traditional suspicion of artists so prevalent among athletes, has prevented it. Yet *somebody* must be doing something about it. Who, we wonder, is planning the layout of the arenas and tracks? Who is responsible for furnishing the hostels? Who is designing the posters and the programmes?

Weekly we are deluged with information as to what the foreign competitors will eat. Never are we told in word or

picture what the setting of the Games will be like. Is it because this setting has yet to be designed, or because it has not and will not ever be designed?

NEW SCHOOLS

Congratulations to the producers of *New Schools*, the official handbook (of which I have been privileged to see an advance copy) which has been prepared for the RIBA Schools Exhibition open this week. It is a great deal more than the usual catalogue. The information it contains, ranging from school siting to school furniture, is arranged for easy reference and admirably presented by a team of twelve experts. The result is a miniature textbook of contemporary practice in school design which should prove of great value not only to architects but to all those who are concerned with the implementing of the new Education Act, particularly, perhaps to members of Local Education Committees and, of course, to parents.

American parents are encouraged, I believe, to take a more personal interest in the running of the local school than English parents, an interest which is given an impetus by the common American practice of combining the adult community-centre and children's school on one site.

This is emphasized strongly in *You Want to Build a School?**, a book written by two Americans, an architect and an educationist, to describe the procedure of planning and administering the school programme for a district. Much of the detailed information it contains applies, of course, only to American, or rather to Californian, practice, but the principle that school building must be a group effort is universally applicable, and British readers will be certain to find much of interest in this survey of American solutions to this problem.

ASTRAGAL

*By C. W. Bursch and J. L. Reid. Chapman & Hall, 21s. net.



Two views of the open-air sculpture exhibition in Battersea Park showing some of the pieces in their landscape setting. Above, stone head by Modigliani, bronze abstraction by Lipchitz and (in the distance) lead torso by Maillol. Right (in the foreground) "Venus" by Henghes, reclining figure by Henry Moore and (under the tree) Epstein's bronze "Visitation." See Astragal's note.



SOME PERSONALITIES OF THE LIVERPOOL CONFERENCE

Below are portraits of some of the eminent people, architects and others, who are playing a leading part in this week's RIBA Conference. On the right is St. George's Hall, the Conference headquarters. The Conference programme is given on page 483 and the proceedings will be reported in next week's Journal.



Alderman W. T. Lancashire, the Lord Mayor of Liverpool, and one of the Vice-Presidents of the Conference, will welcome members at the inaugural meeting at St. George's Hall on Friday.



Sir Lancelot Keay, Liverpool's distinguished Director of Housing and retiring President of the RIBA, will be President of the Conference and will address the members at the inaugural meeting.



Dr. J. F. Mountford, the Vice-Chancellor of Liverpool University, another Vice-President of the Conference. Liverpool has always drawn much of its architectural vitality from the University.



Dr. F. W. Dwelly, the Dean of Liverpool, a Vice-President, who will conduct the special service for members of the Conference in the Cathedral on Sunday where the RIBA banner is to be set up.



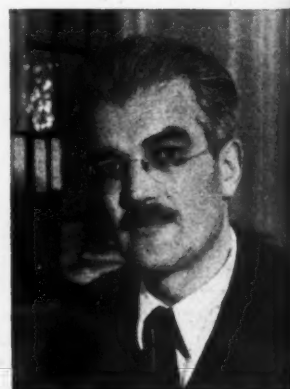
Viscount Leverhulme, Hon. F. R.I.B.A., one of the Vice-Presidents, will entertain members when they visit the Port Sunlight housing estate, founded by his father. See the article beginning on page 492.



Lord Woolton, C.H., a Vice-President of the Conference, is a well-known Liverpool figure. The present chairman of the Conservative Party, he was Minister of Food 1940-43 and Minister of Reconstruction 1943-45.



Professor L. B. Budden, a Vice-President of the Conference, was the successor of the late Professor Sir Charles Reilly as Director of the Liverpool School of Architecture, and is also President of the Liverpool Architectural Society.



Gordon Stephenson, late of the Ministry of Town and Country Planning and now Professor of Civic Design at Liverpool, will read a paper on Friday on "The Place of the Architect in the Building of a New Town."

CE

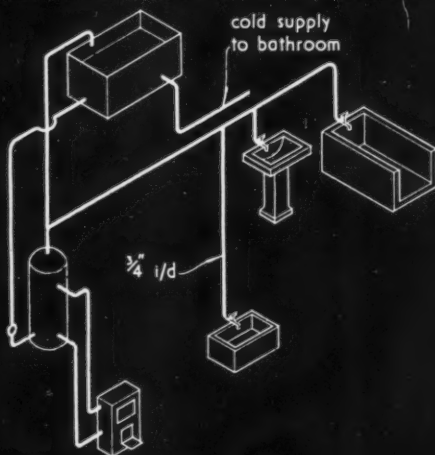
of
who
for
the
the
up.

the
try
of
will
on
in

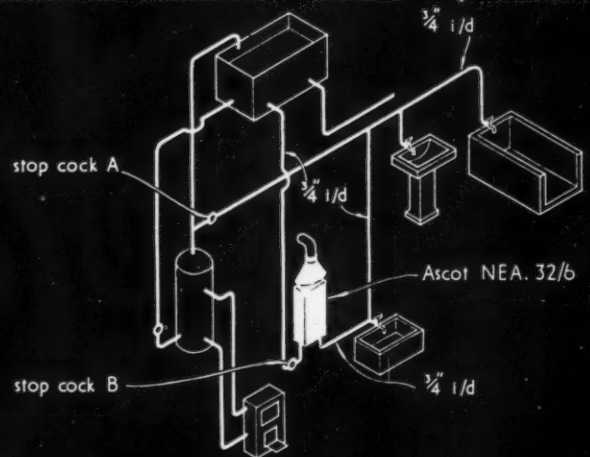
WATER HEATING UNITS GAS

32.C23

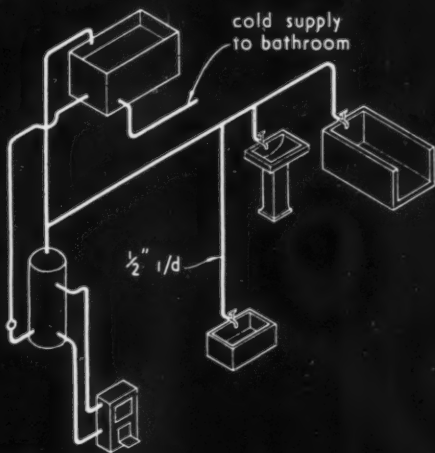
The Architects' Journal Library of Information Sheets 69. Editor: Cotterell Butler, A.R.I.B.A.



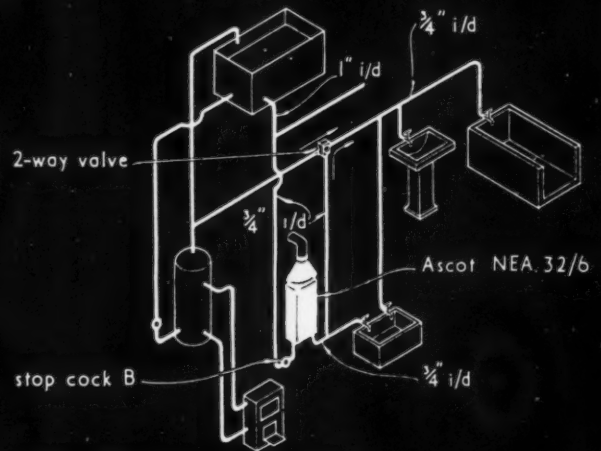
solid fuel boiler system

DIAGRAM 1: NORMAL INSTALLATION WITH $\frac{3}{4}$ " HOT WATER FEED PIPE TO KITCHEN SINK.

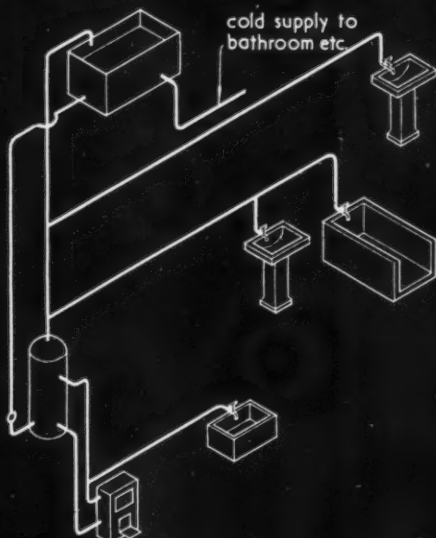
combined Ascot and boiler system



solid fuel boiler system

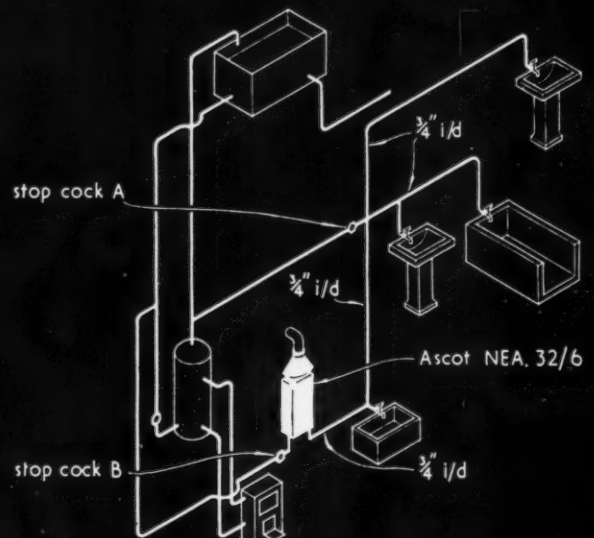
DIAGRAM 2: NORMAL INSTALLATION WITH $\frac{1}{2}$ " HOT WATER FEED PIPE TO KITCHEN SINK.

combined Ascot and boiler system



solid fuel boiler system

DIAGRAM 3: INSTALLATION WITH SEVERAL DRAW-OFF BRANCHES.



combined Ascot and boiler system

32.C23 ASCOT ALTERNATIVE HOT WATER SYSTEMS

This Sheet describes alternative hot water systems combining the Ascot multi-point heater Type NEA32/6 with solid fuel boiler systems. This Ascot heater is particularly suitable for connection to a boiler system as an alternative and continuous source of hot water supply during the summer months, and is similarly available for immediate service whenever the boiler is inoperative.

The dual installation of water heater and boiler is simple as the same hot water draw-off piping may be used for both units, the isolation of one system from the other being effected by the operation of one or more stopcocks or a 2-way valve. The Ascot heater should be installed close to the point of most frequent usage—normally the kitchen sink—and the cold water supply should be from a tank, preferably by means of a separate $\frac{1}{2}$ in. down service.

All pipe sizes specified refer to internal diameter and relate to normal installations where the available head is 10 to 12 ft. measured vertically from the level of the water in the cold water tank to the highest draw-off point, and where sizes and lengths of all piping are in accordance with standard practice. (See Sheets 32.C20 and 32.C25.)

The heater is not suitable for operation as a booster and must therefore be supplied with cold water. Whichever cold water supply and hot water draw-off systems are employed, the expansion pipe must always remain open to the atmosphere, and to the hot tank when the boiler is in use, but must be capable of isolation from the Ascot when the latter is in operation. An isolating stopcock ("A" in diagrams) must therefore be incorporated and a second stopcock ("B" in diagrams) is required to cut off the supply to the heater when the boiler is in use.

Diagram 1: Normal Installation with $\frac{1}{2}$ in. Hot Water Feed Pipe to Kitchen Sink.

The diagram shows the small amount of plumbing necessary where the solid fuel system was originally planned to accommodate an alternative form of hot water heating. The only additional piping required is a short length of $\frac{1}{2}$ in. from the heater outlet to the hot tap at the kitchen sink.

Ascot operation—close stopcock "A," and open "B."

Boiler operation—close stopcock "B" and open "A."

Diagram 2: Normal Installation with $\frac{1}{2}$ in. Hot Water Feed Pipe to Kitchen Sink.

Where the flow is found to be insufficient to provide satisfactory service from all draw-off taps utilising the existing $\frac{1}{2}$ in. hot water feed pipe to the kitchen—by calculation of the water pressure losses against requisite flow and available head (see subsequent sheet)—additional $\frac{1}{2}$ in. hot water piping is necessary as shown in the diagram and described below.

An independent $\frac{1}{2}$ in. down service is preferable, but not always practicable, and the cold water supply to the heater may be teed off a 1 in. cold service

branched $\frac{1}{2}$ in. to the heater and $\frac{1}{2}$ in. to the bathroom. The outlet of the heater is connected by a short length of $\frac{1}{2}$ in. piping to a second hot water tap at the kitchen sink. From this latter point an additional $\frac{1}{2}$ in. hot water service is run to a 2-way valve situated between the expansion and the nearest draw-off branch, the 2-way valve being fitted to give the alternative flows as shown.

The use of a 2-way valve simplifies the change over from heater to boiler, or vice versa. In addition, a hot water supply from the heater is always available in the kitchen, as stopcock "B"—essential to facilitate maintenance of the Ascot—may remain open when the boiler is in use.

Ascot operation—Turn the 2-way valve to the Ascot position.

Boiler operation—Turn the 2-way valve to the boiler position.

Diagram 3: Installation with Several Draw-off Branches.

An independent $\frac{1}{2}$ in. down service is preferable, but not always practicable, and the cold supply to the heater may be teed off the $\frac{1}{2}$ in. cold feed to the hot tank at a point above this tank.

The outlet of the Ascot is connected by a short length of $\frac{1}{2}$ in. piping to the hot tap at the kitchen sink.

The existing hot water services to the kitchen and bedroom basin are disconnected, and these points are reconnected by means of a new length of $\frac{1}{2}$ in. piping to the lower draw-off pipe from the expansion. Ascot operation—Stopcock "A" is closed and "B" opened.

Boiler operation—Stopcock "B" is closed and "A" opened.

Mains Connected Heaters

A heater connected as an alternative should only be supplied from the cold water mains when:

1. It is impossible to obtain adequate head from tank supply.
2. Permission is obtained from the appropriate water authority.
3. There is no connection between the outlet of the heater and the boiler system.

(See Sheet 32.C25 for full details.)

Compiled from information supplied by:

Ascot Gas Water Heaters, Ltd.

Head Office: 43, Park Street, London, W.1.
Telephone: Grosvenor 4491.

Works: Ascot Works, Neasden, London, N.W.10.
Telephone: Willesden 5121.
Telegrams: Gascot, Phone, London.

Branch Offices: Belfast, Birmingham, Bournemouth, Bristol, Cambridge, Glasgow and Manchester.

DRAUGHTSMANSHIP GRAPHIC SYMBOLS**I.B.3**

The Architects' Journal Library of Information Sheets 70. Editor: Cotterell Butler, A.R.I.B.A.

GAS POINT		TELEPHONE POINT, INTERNAL	
GAS COCK		LOUD SPEAKER OUTLET	
CEILING POINT, LIGHTING		EARTH POINT	
CEILING POINT, POWER		W.C. LOW DOWN	
FLOOR POINT, LIGHTING		W.C.	
FLOOR POINT, POWER		HOT WATER TANK	
BRACKET POINT, LIGHTING		HOT WATER CYLINDER OR WATER HEATER	
SYNCHRONOUS CLOCK POINT		COLD WATER CISTERN	
LIGHTING WALL SOCKET		FLOOR GULLEY	
LIGHTING WALL SOCKET AND SWITCH COMBINED		GREASE TRAP	
POWER WALL SOCKET		RAINWATER OUTLET	
POWER WALL SOCKET AND SWITCH COMBINED		RAINWATER HEAD	
1 AND 2-WAY SWITCHES		MANHOLE	
FIRE EXTINGUISHER		INTERCEPTING TRAP AND FRESH AIR INLET	
BELL PUSH		VENT	
BELL		RISE IN DIRECTION OF FLOW	
BELL INDICATOR (n = no. of ways)		FALL IN DIRECTION OF FLOW	
INDICATOR AND BELL			
		crossed lines form a useful symbol where it is desired to indicate certain items e.g. lifts, hatchways, ducts etc.	

GRAPHIC SYMBOLS: I. BASED ON B.S. 1192: 1944.

Compiled from information supplied by Eagle Pencil Company — Chemi-Sealed Turquoise pencils.

1.B3 GRAPHIC SYMBOLS: 1. BASED ON B.S.1192: 1944

This Sheet is one of a group illustrating graphic symbols based on B.S. 1192 and covers a selection of symbols for general services and equipment. It also gives a list of British Standard abbreviations. Subsequent Sheets based on B.S. 1192 give a selection of symbols for the representation of materials and topographical symbols from Ordnance Survey conventional signs.

British Standard Abbreviations

(Extract from B.S. 1192: 1944 "Architectural and building drawing office practice" by permission of the British Standards Institution, 28, Victoria Street, London, S.W.1.)

It should be noted that abbreviations are the same in the singular and plural.

Primary units

Centimetre	cm.
Chain	ch.
Cubic foot	cu. ft.
Cubic yard	cu. yd.
Dozen	doz.
Foot	ft. or (')
Hundredweight	cwt.
Inch	in. or (")
Metre	m.
Millimetre	mm.
Ounce	oz.
Pound	lb.
Quarter	qr.
Square inch	sq. in.
Square foot	sq. ft.
Square yard	sq. yd.
Ton	t.
Yard	yd.

Materials and general terms

Aggregate	agg.
Air brick	A.B.
Approved	appd.
Approximate	approx.
Asbestos	asb.
Asphalt	asph.
Bench mark	B.M.
Birmingham gauge	B.G.
Bitumen	bitn.
Brickwork	bwk. or B.
British Standard	B.S.
Cast iron	C.I.
Cement	cem.
Centre line	C.L. or C
Centre to centre	c/c.
Checked	ckd.
Chemical closet	C.C.
Clearing eye	C.E.
Concrete	conc.
Corrugated	corr.
Diameter	dia.
Drawing	drg.
Drinking fountain	D.F.
Earth Closet	E.C.
Figure	Fig.
Fire hydrant	F.H.

Flushing cistern	F.C.
Fresh air inlet	F.A.I.
Galvanised	galv.
Glazed ware pipe	G.W.P.
Grease trap	G.T.
Ground level	G.L.
Gully	G.
Height	ht.
Hose bib	H.B.
Inspection chamber	I.C.
Insulated or insulation	insul.
Intercepting trap	I.T.
Internal	int.
Invert	inv.
Lavatory basin	L.B.
Left hand	L.H.
Macadam	mac.
Manhole	M.H.
Mild steel	M.S.
Not to scale	N.T.S.
Number	No.
Petrol interceptor	P.I.
Radius	rad.
Rain water outlet	R.W.O.
Rain water pipe	R.W.P.
Reinforced concrete	R.C.
Right hand	R.H.
Rising main	R.M.
Round	rd.
Sink	S.
Sketch	sk.
Sluice or stop valve	S.V.
Soil and vent pipe	S. & V.P.
Soil pipe	S.P.
Specification	spec.
Spigot and socket	S. & S.
Square	sq.
Standard Wire Gauge (Imp.)	S.W.G.
Stand Pipe	St. P.
Street gully	S.G.
Tongued and grooved	t. & g.
Traced	Tcd.
Urinal	U.
Vent pipe	V.P.
Volume	vol.
Waste pipe	W.P.
Waste and vent pipe	W. & V.P.
Water Closet	W.C.
Weight	wt.
Yard gully	Y.G.

This series of Sheets covers geometrical drawing, orthographic, isometric and axonometric projections, perspective, rendering, lettering and draughtsmanship generally.

Compiled from information supplied by :

Eagle Pencil Company.

Address : Ashley Road, Tottenham, London, N.17.
Telephone : Tottenham 4435-6-7.
Telegrams : Octennial, London.

THE CONFERENCE PROGRAMME

LIVERPOOL

MAY 27 — 30

From May 27 to 30 the headquarters of the conference will be at St. George's Hall, Liverpool. Members should call at the conference office in the Hall, William Brown Street entrance, as soon as possible on arrival to obtain badges, information, etc., and to give their addresses in Liverpool, if not previously notified.

Day of Arrival, THURSDAY, May 27

8.30 p.m. to 11 p.m. An informal reception will be held at St. George's Hall, at which members will be the guests of the Liverpool Architectural Society. An exhibition, "Architecture of Liverpool," will be on view in the Hall. Light refreshments. Music. Informal dress.

FRIDAY, May 28

10.30 a.m. to 12 noon. The inaugural meeting will be held in the Small Concert Hall, St. George's Hall. Reception and address of welcome of members by the Lord Mayor (Alderman W. T. Lancashire, J.P.). Address by Sir Lancelot Keay, K.B.E., President RIBA followed by a paper on "The Place of the Architect in the Building of a New Town," by Mr. Gordon Stephenson, B.Arch. (Liverpool), F.R.I.B.A., A.M.P.T.I.

12.10 p.m. Conference photograph on the steps of St. George's Hall.

LUNCH. Members and guests will make their own arrangements for lunch.

2.15 p.m. to 5.30 p.m. Visit to Port Sunlight Housing Estate and Garden Party at Thornton Manor, by kind invitation of Lord and Lady Leverhulme. Motor coaches from St. George's Hall Plateau at 2.15 p.m. Cost per head 6s.

9 p.m. to 1 a.m. Civic reception and dance at the Liverpool Town Hall, at the kind invitation of the Lord Mayor and Corporation of Liverpool. Evening dress, decorations, Presidential badges.

SATURDAY, May 29

10.30 a.m. to 12 noon. Paper to be read in the Small Concert Hall, St. George's Hall, by Mr. A. Llewellyn Smith, M.B.E., F.R.I.B.A., on *Community Centres*.

LUNCH. Members and guests will make their own arrangements for lunch.

ALTERNATIVE HALF-DAY TOURS

2.15 p.m.

Tour No. 1.—Members will assemble at the River Front entrance (facing the river) of the Mersey Docks and Harbour Board Building at 2.15 p.m. They will be received by members of the Dock Board and a short explanation of the dock system will be given with reference to model, maps, etc. Embark at Pier Head at 2.45 p.m. for a river cruise which will include visits to some of the older docks. Tea will be served on board. The boat will sail into the Gladstone Dock and there will then be a short tour of the Gladstone Dock system. Return to Liverpool by bus, leaving Gladstone



The Small Concert Hall, St. George's Hall, where the conference meetings will be held.

Dock 5 p.m. Cost per head, including tea, 10s.

2 p.m.

Tour No. 2.—Members will assemble at St. George's Hall Plateau at 2 p.m. when buses will leave for a tour through a selected portion of Speke Estate—inspection of Speke Hall—thence to Airport where tea will be served. Depart Airport 4.30 p.m. and return via Mather Avenue. Cost per head, including tea, 5s.

2 p.m.

Tour No. 3.—Members will assemble at St. George's Hall Plateau at 2 p.m. when buses will leave for Town Hall—after inspecting the Town Hall, buses will leave for a visit to the School of Architecture. Buses will then depart for the Cathedral and after inspection will leave for Radiant House, where members are invited to tea by The Liverpool Gas Co. Return 5 p.m. Cost per head, 4s.

WHOLE DAY TOUR

9.15 a.m.

Tour No. 4.—Buses will leave St. George's Hall Plateau at 9.15 a.m. and proceed via Mersey Tunnel, to Chester. *Morning*—Alternative tours of the City, including the Walls, Cathedral,

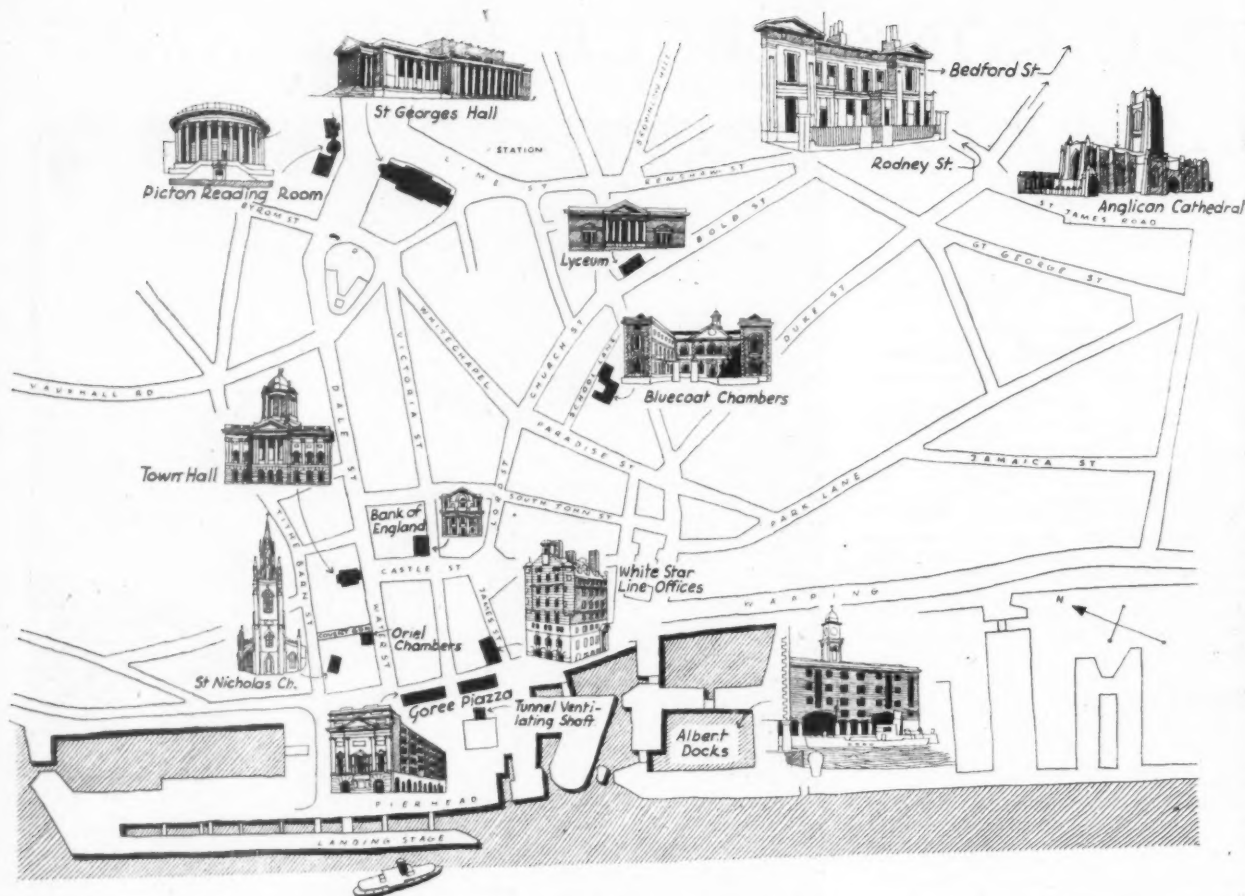
The Rows and ancient buildings. Lunch in Chester. *Afternoon*—By launch up the River Dee as far as Eccleston. Members will then proceed to Cathedral Refectory where tea will be served. Buses will leave Chester at 4.45 p.m. for return to Liverpool. Cost per head, including lunch and tea, £1 1s.

7.45 for 8 p.m. Conference dinner at St. George's Hall. The guests will be received by the President of the Royal Institute of British Architects and the President of the Liverpool Architectural Society. Cost of dinner (inclusive of wines and cigars), £2 10s. Evening dress, decorations, Presidential badges.

SUNDAY, May 30

11 a.m. Special Service at Liverpool Cathedral. Members of the Conference will welcome His Grace the Lord Archbishop of York, who will address them. At this Service the Lord Bishop, the Dean and the Chapter will formally receive in honour the banner of the Royal Institute of British Architects and set it up in the Cathedral. Members should take their seats not later than 10.40 a.m.

3 p.m. to 5 p.m. Special Concert at the Liverpool Philharmonic Hall, by the Liverpool Philharmonic Orchestra, conducted by Sir Malcolm Sargent.



The RIBA Conference will bring a large number of architects to Liverpool, many of whom will be unfamiliar with the city's buildings. In the article below the Secretary of the Liverpool Architectural Society writes on the archi-

tectural character and background of the city, and gives some notes on a score of buildings of all periods, that have been chosen as typical of Liverpool's architectural achievements. Their situation is shown on the map above.

THE ARCHITECTURAL BACKGROUND OF LIVERPOOL

By F. J. M. Ormrod

HISTORICALLY the development of Liverpool, which, of course, owes its establishment to its trading facilities as a port, may be said only to have commenced, with any degree of intensity, at the beginning of the 18th century. It is significant that the first dock was built before the first real worthwhile road, and the city from that time expanded with complete emphasis on its river activities until quite recent years. An endeavour is now being made to establish alternative interests for the city's welfare.

Unfortunately, this casual and necessitous growth round the *raison d'être* of the City's existence has somewhat paradoxically prevented a real expression of the City's beauty which lies in its waterfront. The sporadic growth of the industrial riverfront has left little scope for any imaginative form of development. There is, however, no lack of character in this area. The rather grim utilitarian docks and warehouses, based purely on the industrial needs of the times, show an undeniable forthrightness of thought and are certainly

examples of straightforward honest building. The docks were and are engineering feats of considerable magnitude, and the warehouses are solid, well constructed and well adapted for the needs they had to fulfil. All this is specifically 18th and 19th century development.

The main central buildings of this era began with the old Bluecoat School, built in 1716, which is a particularly valuable architectural legacy, unfortunately badly damaged in air raids during the war. It marked the commencement of a period of rapid development of the area leading up the slope from the river to the positions now occupied by the new cathedrals. Some very fine merchants' houses were erected, which are now sadly neglected and fallen from their previous high estate. Appropriately heading the 18th century domestic development is the building now used as the Town Hall—the Lord Mayor's official residence. Though not specifically designed for its present use, it has been altered and adapted to so successful a degree that one finds it hard to believe that a building so appropriate, particularly so far as the interior is concerned, could evolve in this way. The more important of the City's public buildings, however, came into being in the 19th century. The majority were constructed in a type of regionally local grit stone which unfortunately does not allow natural weathering to enhance the general effect. There is no question of the material's durability—it is probably much better in this respect than the limestone of the south country, but the uniformity of colour characterising all these buildings does not assist their general effect either individually or collectively. Of these buildings, St. George's Hall undoubtedly takes first place. It is a monumental pile conceived in the most orthodox manner with the greatest care and attention to detail. Situated on St. George's plateau with plenty of open space around, it undoubtedly constitutes the architectural focal point of the City and presents an imposing spectacle to visitors making their approach to the City through the Mersey Tunnel.

The 20th century is, curiously enough, providing the city with two new cathedrals during a period in which there is said to be a serious decline in religious observation. The Liverpool Cathedral designed by Sir Giles Scott, begun in 1904, is now well advanced, and the new Metropolitan Cathedral, designed by the late Sir Edwin Lutyens, has had a considerable amount of foundation and subterranean work

executed
ing fun
limitati
Expans
industri
has bee
been cr
comple
will con
south a
in whic
better t
Here,
acreage
architec
tionally
of a mo
who pr
illustrat
the min

Speke
describ
of hal
altere
examp
extrem
lawns
neighb
every

Blue
is the
built
tion,
ing u
know
Arts.
Alley
a vis
neith
situa
exten
was s
comp
comm
brick
pleas
const

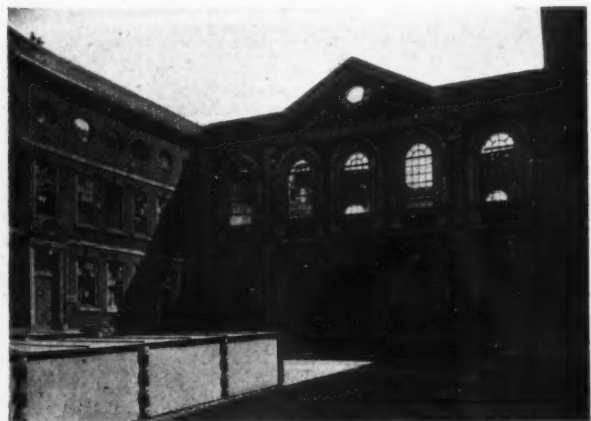
executed, and is in the very happy possession of a considerable building fund which will enable construction to proceed once the present limitations are removed.

Expansion of the City is now being consciously directed to provide industries and activities apart from the shipping on which Liverpool has been so reliant for its prosperity. New industrial estates have been created at Speke and Kirkby and the former, when ultimately completed, with its factories, houses and general amenity buildings, will constitute a small township on its own. This development lies to the south and will help to effect a balance of the City's present disposition in which the bulk of industry has been located in the north with the better type residential and park districts in the south.

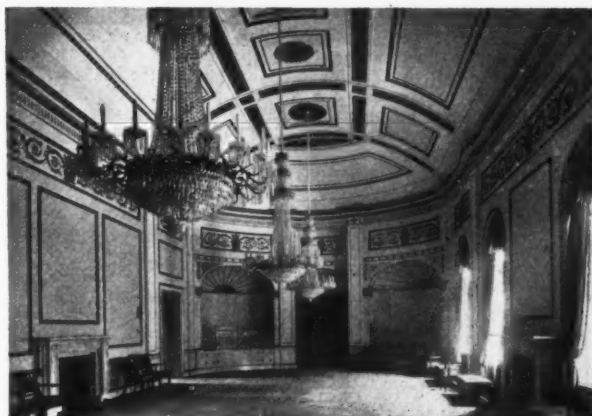
Here, then, is the background to this year's Conference; a vast acreage of industrial and residential areas which, to say the least, is architecturally nondescript, providing at the same time some exceptionally fine major buildings, and a wealth of less obvious buildings of a more intimate nature, which can delight the heart of the collector who prefers making his own discoveries. The following pictures illustrate a selection of the major buildings and typical examples of the minor ones.



Speke Hall. This, Liverpool's oldest important building, might be described as design by agglomeration. It is an outstanding example of half timber work and was begun in 1490, being extended and altered later to reach its present form in 1598. It is a remarkable example of the 16th century country house. Considering its extreme age, it is in a fine state of preservation and is surrounded by lawns and foliage which keep at arm's length the 20th century neighbours of airport and factory. The interior of the building is in every way as interesting as the exterior.



Bluecoat School. Apart from Speke Hall, the old Bluecoat School is the oldest of the more notable buildings of Liverpool. It was built in 1716 under the ægis of Liverpool's oldest charitable Institution, the Bluecoat Hospital, and the School was housed in this building until 1899. Since 1906 the old Bluecoat School, as it is now known, has been used as a centre for activities connected with the Arts. It is situated in School Lane at the extreme end of Church Alley. Both these streets now belie their names. The visitor forming a visual conception round the names will be surprised to find neither school, lane, church or alley. But it provides a unique oasis, situated very nearly in the heart of the City. While suffering very extensive damage during the war, fortunately a section of the building was saved, including the façade around the courtyard. A scheme for complete restoration is in hand and it is hoped that work will commence in the not too distant future. The elevational materials are brick and stone and, with the cobbled courtyard, afford a very pleasant contrast to the City's other notable buildings which are constructed mainly in stone.



The Town Hall. The renowned John Wood, of Bath, laid his hand on the city in 1754, being responsible for the building which is now used as the Town Hall—the official residence of the Lord Mayor. It was originally designed as part of the Exchange, but owing to the necessities of time, altered use and the ravages of fire, many changes have been made. A new dome was built in 1802 by Wyatt after a disastrous fire in 1795, which necessitated very considerable interior renovations. Not the least of the sympathetic hands to have modelled the building subsequently were those of J. Foster, who carried out a great amount of the internal work as it now stands. The Reception Rooms are the example par excellence of accommodation for civic occasions and are the finest, along with their contemporary furnishings, of any similar suite of rooms in the country. Visitors to the Conference will have the opportunity of inspecting them on the occasion of the Civic Reception and Dance which will be held in the Town Hall on Friday.



St. Nicholas Church. The present church has suffered very severe war damage, having been gutted in 1940. This misfortune seems to have been in character with the vicissitudes of the site, on which the earliest church erected is believed to have been about 1360. St.

Nicholas was the Patron Saint of Mariners and this is the ancient parish church. In 1774 the then existing church was taken down and re-built under the direction of Joseph Brooks. In 1810 the spire collapsed, apparently having been built upon the walls of the old tower which were insufficient for the purpose. The present tower and lantern were completed in 1815 to the designs of Thomas Harrison.

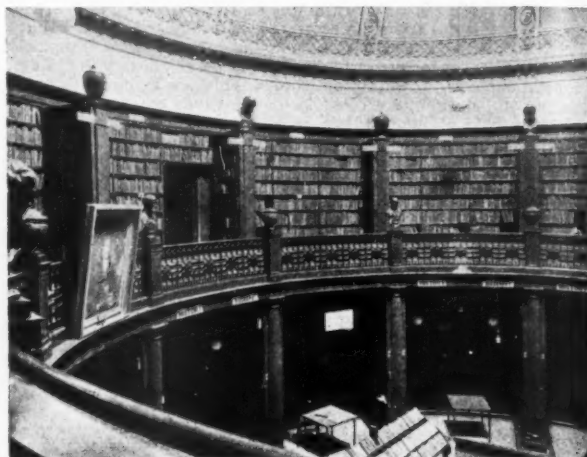


Goree Piazza. This romantically sounding name with the foreign flavour was given in commemoration of the African trade once so extensive in Liverpool. It is named from the Island of Goree, which was taken from the French in 1759. The Goree warehouses, though designed in 1767, were not built until 1793. The original buildings had a very short life, being destroyed by fire in 1802, but they were very quickly replaced. It may be that slaves were exposed for sale in the arcade—local tradition has it so. Here, in any case, is the utilitarian building of its day and purpose—solid, heavy, somewhat grim, but nevertheless impressive. There is now little evidence of the romantic associations of these buildings, which overlook a present day scene of very prosaic dock activity.



Albert Docks. This illustration must serve to represent the magnificent range of buildings comprising Salthouse, Canning and Albert Docks. Salthouse is the oldest, being completed in 1753. The area was then just under five acres and this was reduced in 1842 and then again enlarged in 1853, and the present area is well over six acres. It was built by Thomas Steers, the constructor of the original Liverpool Dock—"The Old Dock." The name is derived from the Salthouse or Saltworks which stood on the River bank. Salt was then one of Liverpool's chief industries, brought from Cheshire by boat or barge and taken to the Salthouse where it was crushed, converted into brine and then evaporated. Canning Dock is next in chronological order and was opened in 1829 with an area of just under four acres. It was enlarged in 1842, altered in 1920, and now has an area of about four and a half acres. It was first called the Dry Basin, being part of the "Old Dock Gut," and was later enlarged and converted into a wet dock named after the former Liverpool M.P. The Albert Dock was designed by Jesse Hartley, the then Dock Engineer, has an area of nearly eight acres, and remains unaltered at the present time. The Dock was opened officially by Prince Albert, after whom it is named, in July, 1846. The surrounding buildings with their three-feet-thick brick walls and massive cast iron ground floor columns, are remarkable examples of a particular type built

with a singleness of purpose which produces a fortress like quality round this water "courtyard."



The Lyceum. In 1758 a Club Library was formed in Liverpool with just over 100 subscribers. Expansion in 1759 and 1786 eventually lead in 1803 to the building of the Lyceum in Bold Street, by Thomas Harrison, of Chester. This building is one of the few unchanging landmarks in what was once the finest shopping street in Liverpool. Devastation during the war and a general deterioration of tenancies has reduced the character of this once first-class street.



Rodney Street. Rodney Street is aptly described as the Harley Street of Liverpool, though the doctors and specialists are now finding themselves elbowed and jostled by architects who are also learning appreciation of this street as a working quarter. It was built mostly in the early 19th century and is essentially a street of domestic architecture, really, one might say, of 18th century character. The finely proportioned and detailed doorways and balconies are set against a background of plain brickwork and symmetrically arranged windows, with the stronger horizontal lines well maintained in the continuity of the street. The finest houses lie at the end nearer the cathedral, where the rather poorer detailing at the end nearer the centre of the town has given way to something lighter and more graceful.



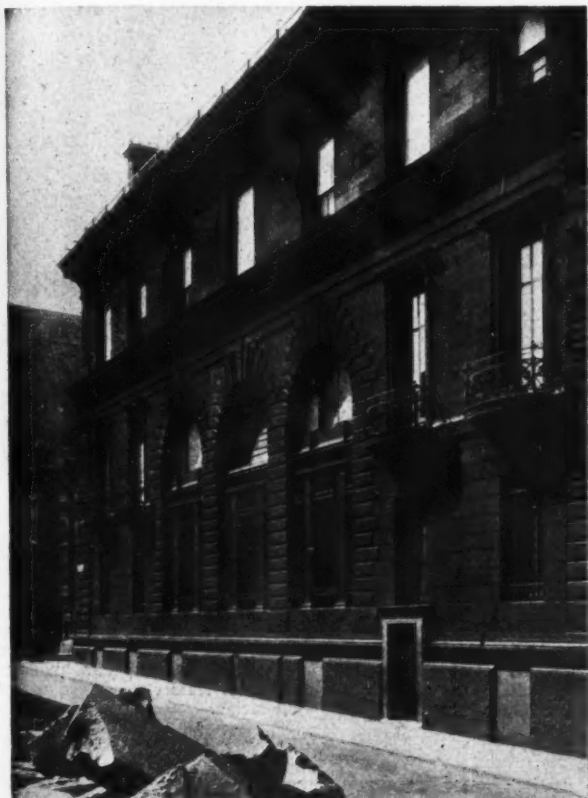
Bedford Street. This decayed street is a sad example of deterioration resulting from changed social usages. Of a later period than

Rodney
farther
general
facing
north t
south,
doorwa
the terr
iron ba

Bank
Street,
and w
Englan
is one
Greek

St. G
compe
compe
certai

Rodney Street and running parallel in a more easterly direction, farther away from the river, the size of the individual buildings is generally smaller than those in Rodney Street and the majority of the facing is, or was, stucco. There is a transition from brick at the north to stucco in the centre and back again to brick at the extreme south, which may be seen in the introduction of stucco dressings and doorways, gradually leading to a fully stuccoed façade. Certain of the terrace blocks exhibit a greater elaboration in the form of wrought iron balconies, etc., some of which are almost florid.

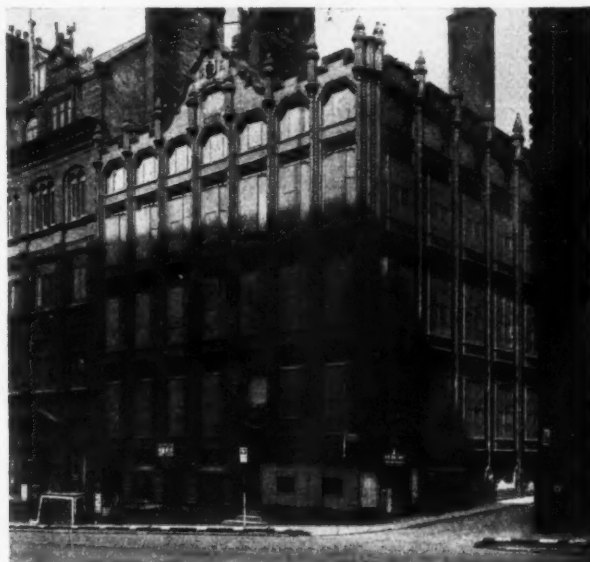


Bank of England. The Bank of England, which is situated in Castle Street, is an admirable example of Professor C. R. Cockerell's work and was built in 1845. Cockerell built many works for the Bank of England in other cities, including London. This example in Liverpool is one of his later essays based on his knowledge and feeling for Greek forms and motifs.



St. George's Hall. Here is the fortuitous result of a combination of competition and commission. The original conception consisted of a competition for a Concert Hall, the competition being promoted by certain music-loving citizens. The premium was awarded in open

competition to a brilliant young man, Harvey Lonsdale Elmes, then twenty-four years of age. Before building could be commenced, however, the Corporation found itself in the position of having to provide Assize Courts. Again in competition Elmes proved his worth. Elmes was then commissioned by the Corporation to prepare a design incorporating both these projects, and the result is one of the finest buildings of its type in the country and, some aver, in the world. Elmes did not live to see his work completed, and after his death in 1847, the completion was entrusted to Professor C. R. Cockerell. Cockerell's scholarly knowledge of Greek forms and his ability to handle magnificent scale with refinement of detail enabled him to effect a satisfactory completion in sympathy with the original conception. More illustrations are on pages 482-483.

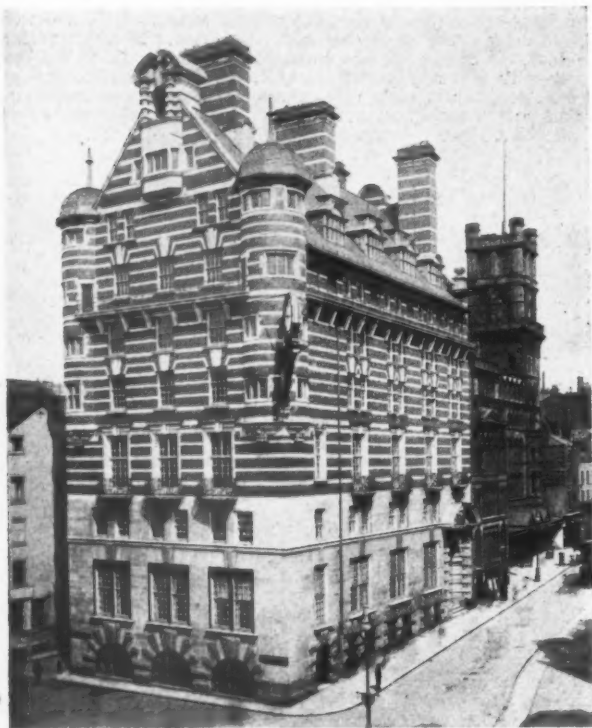


Oriol Chambers. The late Sir Charles Reilly described these Chambers as the "oddest building in Liverpool." It is a surprising architectural anomaly when analysed in relation to its immense area of plate glass in the form of repetitive oriel windows. The anomaly becomes an anachronism when it is considered that the apparent elevational skeleton frame, with all the characteristics of design appertaining to cast iron, is, in fact, stonework. The building was built in 1864, and it may be that it was influenced by Paxton's Crystal Palace of cast iron and glass. The inspiration for the oriel windows is obvious but still incomprehensible.



The Picton Reading Room. Though rather heavy and sombre in character the range of municipal buildings lining one side of William Brown Street opposite to St. George's Hall comprises one of the best municipal "façades" in the country. The buildings composing this block consist of the City Technical School, the Brown Library, the Picton Reading Room, the Walker Art Gallery, and the County Assizes house. The Picton Library was designed by Cornelius Sherlock and was opened in 1879. It is a circular structure 100 feet in diameter with a domed roof 60 feet high. While being admirably situated in shape for its position, affording a satisfactory method of turning the façade of this group of buildings to conform to the street,

the interior form leaves much to be desired in the way of acoustics, which are particularly nerve racking to the newcomer so incautious as to be trapped into making any unaccustomed noise.



White Star Line Offices. This building, now occupied by the Pacific Steam Navigation Co., is an example of Norman Shaw's work of 1900. It is situated at the foot of James Street on a corner site, and shows what one might describe as the architect's classical romantic vein. It illustrates the skilful use of harmonising materials and all the charm and effect one expects in Shaw's buildings, even with the use, to which he was so prone, of what we would now describe as "hard" materials.



Liverpool Cathedral. The Liverpool Cathedral occupies a commanding site on the Liverpool ridge, and is now to be seen in the full splendour of its completed tower. The design by Sir Giles Gilbert Scott won the open competition in 1902. Unlike most great competitions the building was begun comparatively promptly (in 1904) and though hampered by two world wars has doggedly proceeded towards its eventual completion. The internal and external facing is of the local red sandstone with wide light joints. The design, based upon a mediæval tradition but conceived by the individuality and character of the architect as an orderly whole, with well considered contrasts of rich sculpture with plain surfaces, will prove an interesting juxtaposition with the late Sir Edwin Lutyens's Metropolitan Cathedral when the two are eventually seen together on the Liverpool skyline.



Mersey Tunnel, George's Dock Ventilation Building. A new problem in architectural design was offered in the several buildings, of which this is one, constructed for the purpose the name implies; that is, to house the machinery and plant and make provision for efficient ventilation of the recently constructed engineering feat beneath the river—Queensway, the Mersey Tunnel. All these buildings have been designed by Mr. H. J. Rowse, and in their semi-skyscraper form contribute a new feature to the Merseyside skyline. Note the complete lack of fenestration in the shaft. This particular building is constructed with a concrete encased steel frame, reinforced concrete ducting and Portland stone external facing.



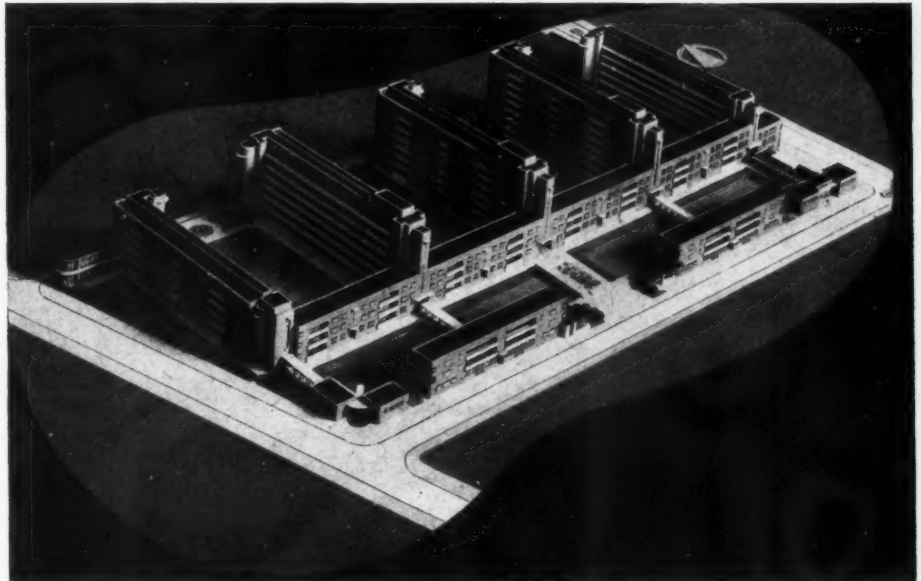
Post Great War Housing. Liverpool's housing achievement between the two wars is well known. Under Sir Lancelot Keay's direction some remarkable schemes and developments were conceived and accomplished. The problem has appeared to resolve itself into two phases: first, the establishment of homes for people whose work cannot allow them to live on the outskirts of the City; secondly, the provision of homes for those people who are not so restricted and who may, in their turn, be unable to live in the centre of the City. The first phase has resulted in the provision of many large blocks of flats offering undreamt-of facilities in place of the original slum dwellings (see frontispiece to this issue). The second phase is best typified by development at Speke (illustrated above), where the new houses, with the space readily available, have been provided in the form of both terraced layout and of small individual dwellings, to serve the needs of the new industrial estate adjoining.

CURRENT WORK IN LIVERPOOL

The following pages give a selection of the most important work now in hand or recently completed by Liverpool architects. Completed work is confined to buildings finished since the war, so a large proportion

of the work inevitably takes the form of projects still on the architects' drawing boards. All these are intended to be realized, however, as soon as circumstances allow.

Collingwood Gardens, proposed 3, 5 and 7 storey blocks of flats designed by Sir Lancelot Keay, Director of Housing. The flats have balcony access from grouped stairs and lifts at the end of each 7-storey block. Construction is in reinforced concrete with brick panels.

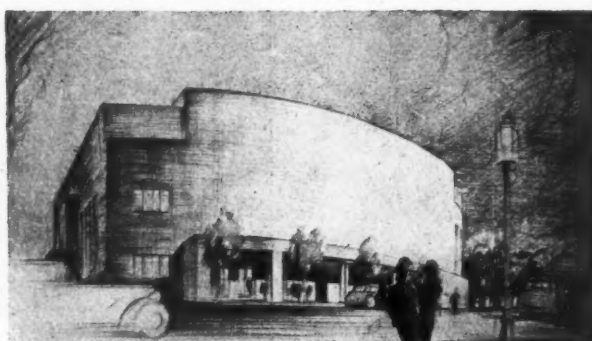
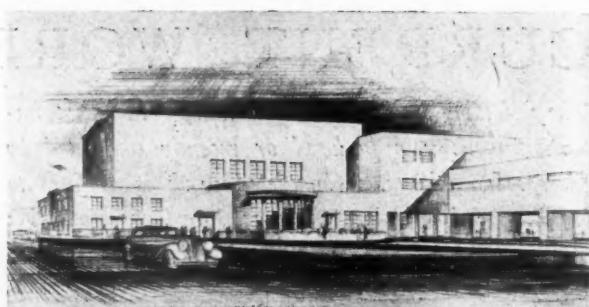
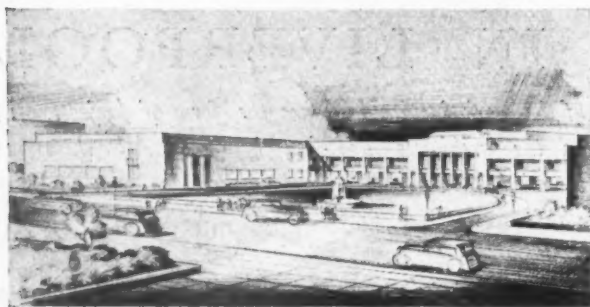


Postwar housing by the Liverpool Corporation: the village green on the Brookwood Road and Gerneth Road, Speke.



A design by Felix Holt for the new offices of Messrs. Howard Ford & Co., Ltd. This building is to provide a textile centre in Liverpool, and includes shopping facilities, restaurant and car park. Constructed in reinforced concrete, the building covers an area of 400 ft. by 110 ft. The 14-storied tower is 170 ft. high.





The new township of Speke built by the Liverpool Corporation, and begun in 1937, is now about one-third completed. 1,777 houses have been built, of which about 500 have been finished since the war. The layout of the Town Centre, of which four sketches are shown above, is about to begin. Top, the front and the rear of the proposed community centre. Second row: left, the new 3-storey houses, with a floor area of 1,200 ft. super, proposed for high density housing areas; right, one of the two cinemas that will flank the community centre.

Right, the proposed head offices for the State Assurance Co., designed by Messrs. Willink and Dod. The building faces on to Dale Street and North John Street, and is eight storeys high. The lower ground floor contains a restaurant, the ground floor consists of the Assurance Office, the first to sixth floors provide rentable office space, and the seventh floor a caretaker's flat and staff dining rooms.



C U R R E N T W O R K I N L I V E R P

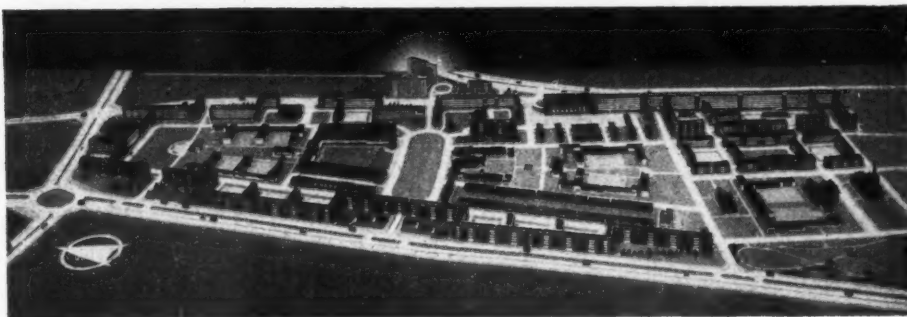
Prop
tral
by th
The
store
net p
perso

The
Kirt
desig
pora
men

Dove
terio
rein
cent
the

Grea
Seni
Mes

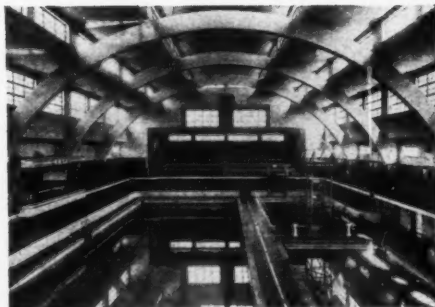
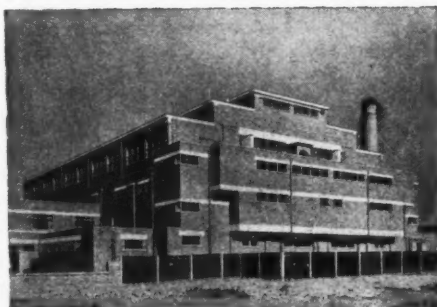
Proposed rehousing in the Central Residential Area, North, by the Liverpool Corporation. The buildings are mainly 5-storey blocks of flats, with a net population density of 184 persons to the acre.



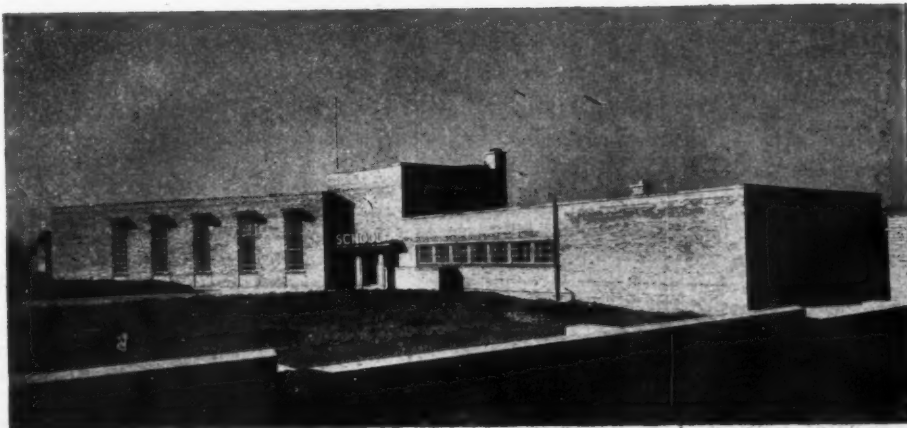
The main access route to Kirby, a proposed new town designed by the Liverpool Corporation Housing Department.

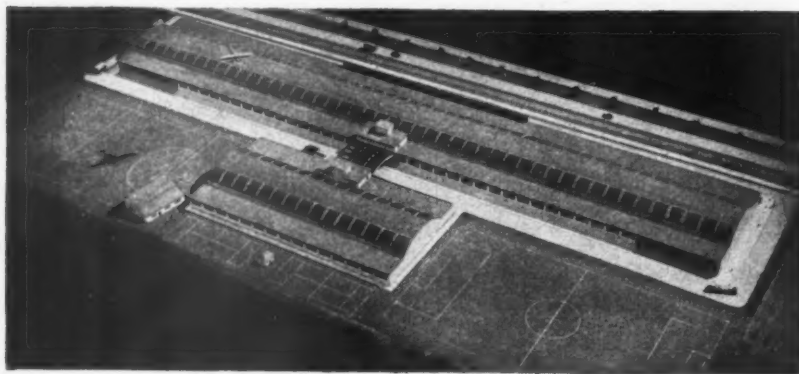


Dovecot Swimming Baths, exterior and interior, built in reinforced concrete and recently finished. Designed by the Liverpool Corporation.



Great Sankey and Penketh Senior School, designed by Messrs. Quiggin and Gee.





Above, model of a factory at Speke designed by Messrs. Ormrod and Banister, and recently completed. The construction is in reinforced concrete with brick wall panels.



A proposed welfare block for the employees of Messrs. Tate and Lyle. Designed by Brian Colquhoun and Partners.



A project for the Treatment Block of a Children's Hospital, designed by Herbert Thearle. The site is an old burial ground, so the building has been designed to cover as little of the ground as possible to avoid the cost of re-interring the bodies.



A proposed Nurses' Home for the Municipal Hospital designed by Leonard Barnish. The plan is a series of flats, four nurses to each flat, so that if the Hospital leaves its present site the Home can be turned into Corporation housing.

CURRENT WORK IN LIVERPOOL

The model village of Port Sunlight, near Liverpool, was inaugurated sixty years ago this spring. The anniversary deserves special recognition at this moment when New Towns and neighbourhood units are so much in the air. Port Sunlight can be said to be a pioneer example of both, and in this article Miss Josephine Reynolds, of the Department of Civic Design in the University of Liverpool, assesses its place in the history of English town-planning. The more recently built new communities are often difficult to appreciate just because their newness is so evident. Here is a new community that has had sixty years to mature; the JOURNAL's specially taken photographs show it in its present-day aspect.

THE MODEL VILLAGE OF PORT SUNLIGHT

By Josephine Reynolds

When, in 1887, problems arose over the extension of his soap-works at Warrington, in South Lancashire, William Hesketh Lever, then a comparatively young man, decided to move to a new site. The requirements of "cheap land, water frontage, railway facilities, and a supply of labour in the vicinity" were amply fulfilled in the site that he and his architect Owen chose at Bromborough Pool—an inlet of the Mersey on the Cheshire side of the river near Birkenhead. Fifty-two acres of land were purchased, and in 1888, just sixty years ago, the erection of the new works was started.

Besides being governed by these practical issues, Lever was influenced by his desire "to Socialize and Christianize business relations," and from this desire came the decision to institute "prosperity-sharing" and to build houses for his employees. To meet the immediate needs of his workpeople, he began by building twenty-eight houses alongside the new works; but it was not until 1892 that he really began to put his ideas into practice. Building and architecture

*"Viscount Leverhulme" by his son.

No. 1 of a Series by Semtex Limited.

A COMPREHENSIVE FLOORING SERVICE

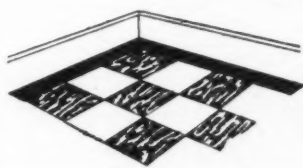
Skill and craftsmanship are as necessary to-day as ever they were to interpret the architect's requirements of high quality and sound economy.

Semtex Limited have made a close study of every aspect of flooring, from the use of traditional materials to that of modern synthetics. They have played their part in the evolution of entirely new floors, to meet the new requirements of industrial and domestic architecture in an age of shortages, restrictions and austerity, and in times when a general upgrading in living standards has disturbed the old building economy by improving the position of the operative.

Floors by Semtex Limited are laid only by skilled craftsmen, specially trained for the job to ensure both rapid installation and the correct use of materials.

The organisation of Semtex Limited is country-wide. Our contracting service and technical department are at the disposal of architects and building contractors throughout the United Kingdom and in many places overseas.

SEMASTIC DECORATIVE TILES



A type of floor tile new to this country based on synthetic-resin, available in a wide colour range and providing a highly decorative floor surface at reasonable cost.

SEMTEX LIMITED (A DUNLOP COMPANY)

Branches at: ABERDEEN · BELFAST · BIRMINGHAM · BRISTOL · CARDIFF · GLASGOW · HULL · LEEDS · LIVERPOOL · LONDON · MANCHESTER · NEWCASTLE · SOUTHAMPTON · READING, BERKS

Semtex Departments of Overseas Dunlop Companies operate in Sweden, Denmark, Holland, Belgium, France, South Africa, India and Australia; Shipping Services A/S Oslo, represent Semtex Limited in Norway.

SEMTEX LIMITED 185/187/189 FINCHLEY ROAD, LONDON, N.W.3

Telephone: Maida Vale 6070. Telegrams: Semtex, Haver, London.



LIVERPOOL ST. STATION BUFFET
Photograph by courtesy of British Railways.

In this series it is proposed to deal individually with various types of floor laid by Semtex craftsmen, to help the architect to assess their relative merits, explain manufacture and suggest their most suitable applications.

SEMTEX INLAID FLOORING

Sheet flooring such as rubber, linoleum, polyvinyl chloride sheeting, etc., laid to any pattern required. Semtex fleximer underlays ensure perfect adhesion.



SEMTEX INDUSTRIAL AND UTILITY FLOORING

Industrial and Utility fleximers, laid in situ, provide warmth and resilience with very great wearing properties.



Contracting work with Semastic Decorative Tiles is also undertaken by the following Approved Contractors:

J. A. Hewetson & Co., Ltd., HULL.

Hollis Bros. & Co., Ltd., LONDON, HULL and LEICESTER.

Horsley Smith & Co. (Hayes), Ltd., HAYES, Middx.

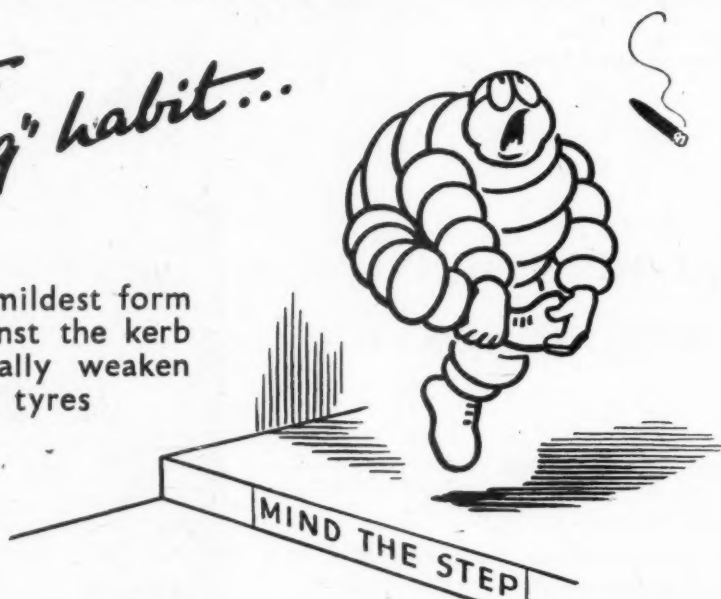
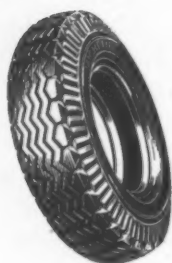
The Limmer & Trinidad Lake Asphalt Co., Ltd., LONDON, and branches throughout the U.K.

The Penmaenmawr & Trinidad Lake Asphalt Co., Ltd., LIVERPOOL.

The Western Trinidad Lake Asphalt Co., Ltd., CARDIFF.

*Curb that
"kerbing" habit...*

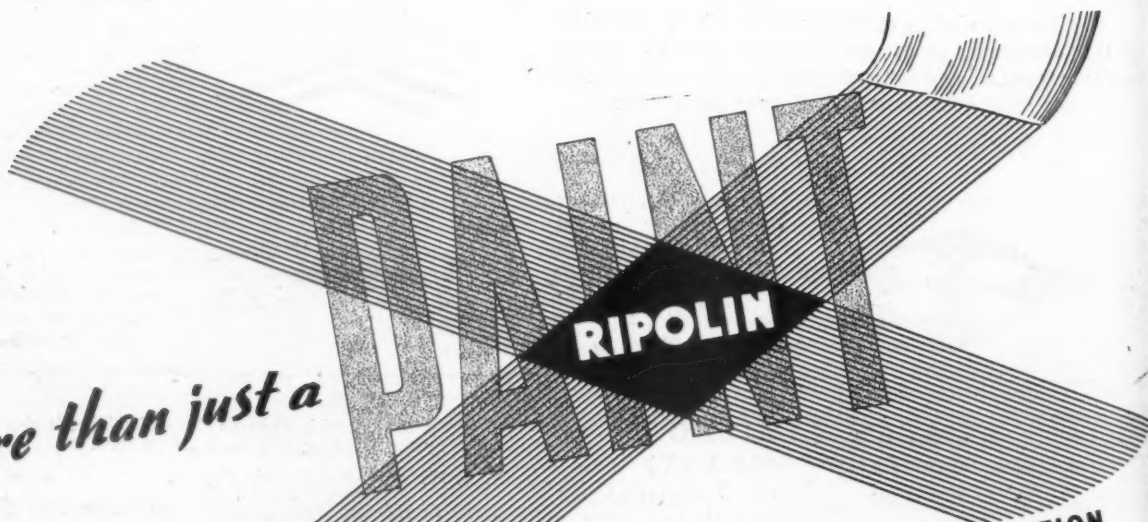
Even in its mildest form
rubbing against the kerb
will eventually weaken
the walls of tyres



MICHELIN TYRES

MICHELIN TYRE CO. LTD. STOKE - ON - TRENT

More than just a

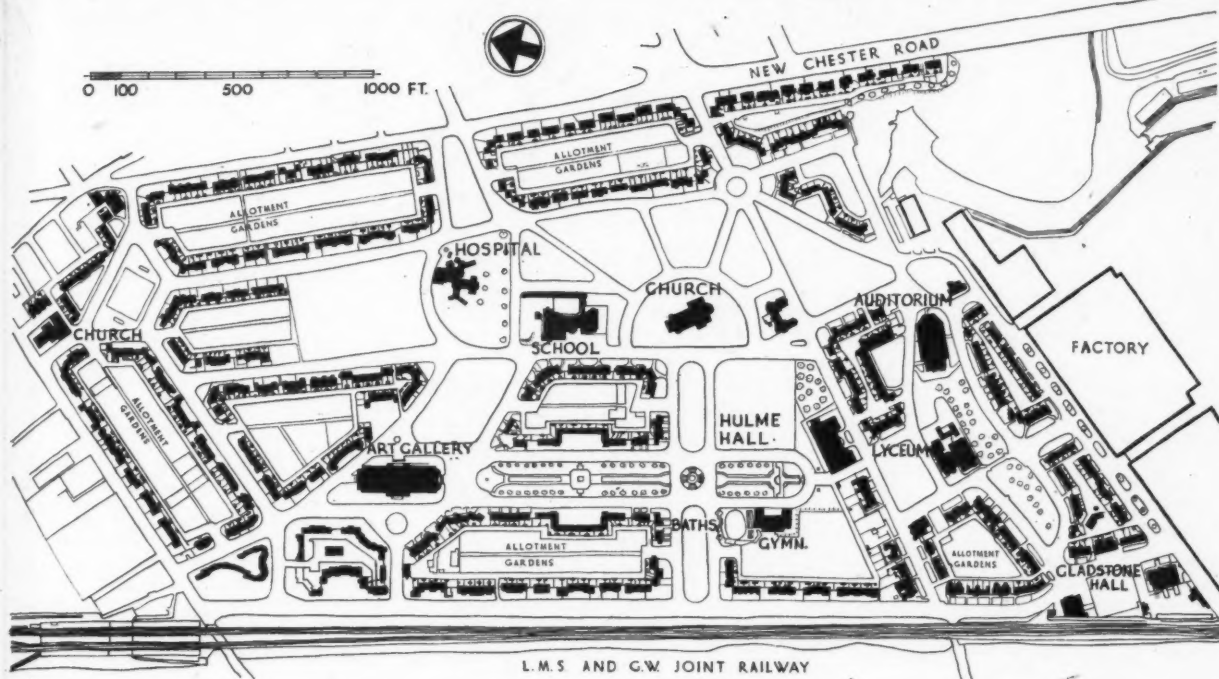


IT IS A SAFEGUARD AGAINST DEPRECIATION
Ripolin surfaces are renowned for their durability
and enhance the value of any building. Ripolin
provide a complete range of paints for interior and
exterior use. Our advisory staff is available to
architects for the preparation of specifications.

RIPOLIN LIMITED
9 DRURY LANE, LONDON W.C.2

LONDON • PARIS • AMSTERDAM • CLEVELAND • TORONTO • ZÜRICH • BILBAO

were
self d
of Por
enviro
workp
anythi
houses
out of
firm ra
in the
way L
ing of
was n
lations
he so
By 19
221 ac
to the
been b
the lay
the ma
adhere
the Vi
Village
While
gives n
between
"Plan.
ing of
aire an
believe
for the
for the
doubt
with t
Ruskin
the co
town.
The c
express
the gra
intoler
and cit
planni
the n
did no
centur
marka
well th
parati
speed



LAY-OUT PLAN OF PORT SUNLIGHT

were his lifelong hobbies and he himself drew up the plans for the Village of Port Sunlight, with the idea that the environment he was to create for his workpeople would be far superior to anything that existed at that time. The houses in the Village were to be built out of a proportion of the profits of the firm rather than having these distributed in the form of cash payments. In this way Lever hoped to encourage the feeling of permanency which he considered was necessary to the good business relations with his employees and which he so earnestly desired.

By 1907 the estate had been increased to 221 acres, of which 130 acres were devoted to the Village, and 720 houses had already been built. Except for minor alterations in the layout which were made a few years later, the main lines of the original plan have been adhered to and, while the surroundings of the Village have changed considerably, the Village is just as Lever conceived it.

While Lever, in his writings and speeches, gives no sources for his ideas, the similarity between Port Sunlight and Robert Owen's "Plan," and later experiments in the building of industrial communities such as Salt-aire and lesser-known Copley, leads one to believe that he was cognisant of such schemes for the provision of better living conditions for the factory worker. And there is no doubt at all that he was fully conversant with the idea so strongly put forward by Ruskin and his predecessors, that to live in the country was better than to live in the town.

The development of these ideas and their expression in the industrial communities and the gradual rise of public feeling against the intolerable housing conditions in the towns and cities, represents the history of the town planning movement in this country during the nineteenth century. "Town Planning" did not arrive until the beginning of this century, but its rise to prominence in a remarkably short space of time showed how well the way had been prepared. This preparation had gone forward with increasing speed and force towards the end of the cen-

tury; ten years after the commencement of Port Sunlight, Ebenezer Howard's *Town Tomorrow* was published—the Garden City Association being formed a year later. In 1900 the National Housing Reform Council was established under the leadership of W. Thompson and then, a few years later, "town planning" was introduced to this country by T. C. Horsfall, of Macclesfield, supported by Nettlefold, of the Birmingham City Council. At that time "town planning" meant, briefly, the provision of good living conditions by the extension of towns on "agreed plans," and this idea, added to the desire of the National Housing Reform Council to improve housing conditions and the more idealistic Garden City ideas, produced the powerful movement which eventually led to the passing of the Housing and Town Planning, etc., Act of 1909.

Port Sunlight's part in the history of the town planning movement might be said to take three forms. First, as a more highly developed example of an industrial village where living and working were carried on alongside each other in a pleasant environment, it anticipated Garden City. Secondly, it helped to convince the public in general of the need for better housing conditions; and thirdly, it influenced the design and layout of housing estates and the individual design of houses.

In the first of these, the sources of Ebenezer Howard's ideas could be said to be similar to those of Lever, although they covered a wider field. This is evident in the expression of these ideas in Port Sunlight and later in Letchworth, the First Garden City. Letchworth was, of course, a much wider conception, but the same idea exists



Bath Street, one of Port Sunlight's many roads with tree-planted verges.

FENNING

Craftsmen in

MARBLE

GRANITE &

TERRAZZO

FULHAM 6142-3

PALACE WHARF, RAINVILLE ROAD,
HAMMERSMITH, LONDON, W.6

G. JACKSON & SONS LTD.

FIBROUS PLASTER

INTERIOR WOODWORK

COMPOSITION & CARTON-PIERRE

MODELLING & CARVING

PAINTING & HERALDRY

SCAGLIOLA

By the old Italian process of
BELLMAN, IVEY, CARTER & CO.

RATHBONE WORKS, RAINVILLE RD., HAMMERSMITH, W.6

Phone: FULHAM 6616-7-8

Telegrams: "SYMARECTA" HAMMER LONDON

of the setting up of a new community away from the smoke and grime of the city where there is space for the provision of those amenities which had come to be considered as necessary to a happy and healthy life.

In the second place it served as a practical example with which the Housing Reformers were able to demonstrate to the public the advantages of providing good living conditions for the workpeople in contrast to the conditions that prevailed, and consequently they were able to press home the need for further and more extensive legislation in this field. In particular, they were able to show the advantage of laying out housing estates to "agreed plans" so as to allow for sufficient space about houses and to permit of the "free circulation of air" and the provision of open space in close proximity to the houses.

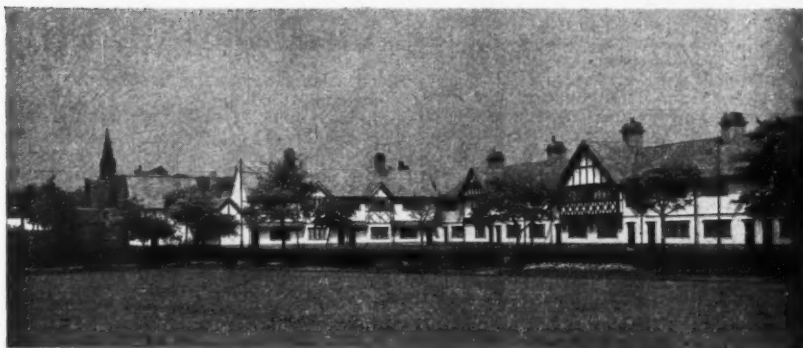
In the third place, in the design and layout of housing estates Port Sunlight presented a considerable contrast from the straight dull lines of the bylaw housing of the nineteenth century and even the more idealistic layouts of Saltaire and Copley, and although Port Sunlight contains a degree of formality, it in no way compares with either of these examples. Most important of all was the question of density. Lever himself thought that houses should not be built at more than 12 to the acre and even this comparatively low density is even lower at Port Sunlight, where the average density is 8 to the acre. This means of providing a more "open" layout and the now popular "bringing the country to the town," was seized on by the people directly concerned with the building of housing estates; from the beginning of the century onwards houses built by public and private enterprise were more often than not laid out on these lines. The maximum of 12 to the acre became the standard which it was generally agreed should not be exceeded. In the actual design of the houses there were immense improvements over the prevailing house-types; plans of the houses were more liberal in size and in the elevations of the houses variety was the key-note which was aimed at and achieved.

The Village is adjacent to the works and is a rectangular piece of land lying between the railway and the New Chester Road from Birkenhead.

The scheme of the layout is to cut the site into big blocks by the system of roads. Most of the blocks are devoted to housing, but others are left vacant as recreational space and some are used for public buildings. The housing blocks have houses round the perimeter and allotments and a service road in the middle. The public buildings are sited at different parts of the estate to give interest throughout; it is only in Church Drive that there is a collection of such buildings, but even then each is sited on its own block and does not present a unified group.

The road layout is interesting and was well in advance of its time. Access to the village from the New Chester Road is limited to three entrances, which are marked by a stepping back of the houses at the corners to form gateways and to provide good views up and down the main road. These three access roads continue for the depth of one housing block and are linked up by a road running nearly parallel with the New Chester Road, and from this road the other roads branch out into the estate. Supposedly, and on plan, the main core of the village is the wide Causeway with Christ Church at one end; but the grand planning of the Causeway is reduced by the lack of surrounding buildings of suitable scale. The Diamond—a narrow rectangular plot—contains the bandstand and is terminated by the Lady Lever Art Gallery.

The houses are designed in many styles, the predominant one being Tudor, half-timbered with brick or plaster infilling. The half-timbering is structural and there are plenty of good examples of wood and plaster



decorations. They are extremely well and carefully built, and there is no doubt that the effect of permanence which Lever wished to establish in his business relations is given expression in the housing for his workpeople.

Lever himself did not design the houses, but distributed the work amongst different architects, and these are listed in *Viscount Leverhulme* as being: William Owen, who designed the Works and negotiated the purchase of the land, and his son; the firms of Douglas and Fordham; Talbot and Wilson; Grayson and Ould; T. T. Rees; and Maurice Adams. Lever's old school friend, Jonathan Simpson, also designed some cottages, and his son did some work previous to and a good deal of the work after 1910. One group of houses showing eighteenth century influence was designed by Charles Reilly. Of all these architects it can be assumed that only William Owen and J. L. Simpson influenced Lever in the design of the Village, the other architects designing groups of houses within the framework of the main plan. The result is that there is variety in the elevation of the houses but general unity in the layout.

But as well as the housing, the gardens, trees, and parkland are delightful. The houses in many cases have open front

Above, three characteristic aspects of Port Sunlight: top to bottom, the bowling green and houses in Boundary Road, a group of houses of traditional style with unfenced front gardens, and The Diamond looking towards the Lady Lever Art Gallery. Below, Hulme Hall, a community building in Bolton Road.



gardens, and where they are enclosed, the care with which the tenants look after them gives an overall appearance and feeling of genuine attachment to the place. The community spirit in Port Sunlight flourishes. From the start communal activities were well provided for. In 1891 the Gladstone Hall with theatre accommodation was built for use by different societies, and the men's club (formerly the Co-Partners' Club) had its origins in the Pavilion in 1896. Other community buildings include Christ Church, the technical institute for evening courses, libraries, the Bridge Inn, the Cottage Hospital, and there is an open air swimming bath and gymnasium. Education is well provided for in the elementary schools that were built at the beginning of the century. Although nearly fifty years old, the buildings, being well in advance of that time, are still supplying the needs of the children.

In discussing the position that Port Sunlight occupies in present-day trends in town planning, one can compare the ideas that prompted its building with those that are put forward to-day. Economic and convenient planning, a pleasant environment, and the provision of means for enjoying one's leisure hours are fundamental requirements that have not changed. Where they have been fulfilled to a limited scale in Port Sunlight, town planning sets out to provide them for the whole of the country. The new system of Neighbourhood Planning and the building of New Towns can be related to Port Sunlight, which is in fact a small Neighbourhood unit and was, when first built, a very small New Town. As a new town it no longer exists, but as a neighbourhood unit, limited by the boundaries provided by the railway and the Chester Road, it is successful and has never been submerged in the rapid growth of the Wirral during the past twenty-five years.

Announcements

The National Physical Laboratory at Teddington is holding from 2.30 to 6 p.m. on Monday, June 21, an open day, to which representatives of industrial organizations are being invited. Accredited representatives of industrial organizations interested in the work of the Laboratory are invited to apply to the Director, National Physical Laboratory, Teddington, Middlesex, not later than Saturday, June 5.

The vestibule to the offices of Messrs. Lever Bros., Ltd., Port Sunlight, has been equipped with fluorescent lighting. The installation, planned by lighting engineers of the British Thomson-Houston Company Ltd., demonstrates that fluorescent lighting may be applied to architecture of classical style without destroying the architectural line of the interior.

The Lead Industries Development Council has made available for the use of technical schools a transportable exhibit which shows how lead sheet and pipe is used in the average small house. The exhibit includes true to scale models, one-quarter full size, which enable building and plumbing students to see clearly how the different constructional details are carried out. First seen at the Building Exhibition, Olympia, the exhibit has since been shown at various building schools for periods of two or three weeks. Any headmaster who would like the exhibit for a period at his school should communicate with the Lead Industries Development Council, Eagle House, Jermyn Street, London, S.W.1, who pay all carriage costs. The exhibit is 7 ft. 6 in. high, 5 ft. 0 in. wide, and 1 ft. 4 in. deep, travels in two parts in one special container, and is put together in a simple manner by superimposing one part on the other.

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:—

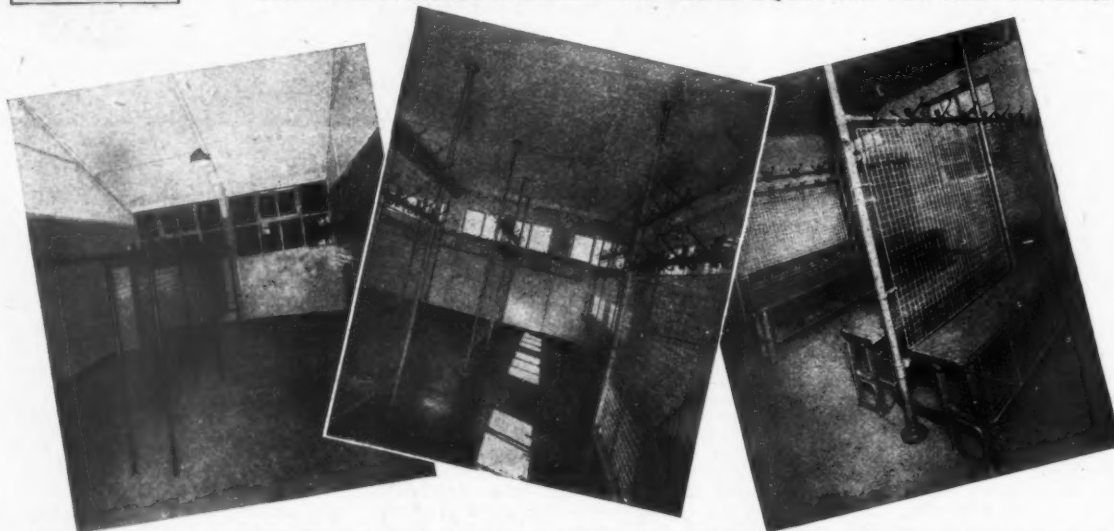
NAME.....

ADDRESS.....

A.J. 27.5.48



CLOAKROOM EQUIPMENT LIMITED IS CONCERNED SOLELY WITH THE MANUFACTURE, FABRICATION AND ERECTION OF CLOAKROOM AND CLOTHING STORAGE FACILITIES AND ALLIED EQUIPMENT FOR ALL PURPOSES.



Cloakroom Equipment Limited is unique in that it offers a specialist service fully qualified for the correct interpretation of architects' needs and anxious to explore, with them, all means of improving the standard of cloakroom fittings and clothing storage equipment generally.

CLOAKROOM EQUIPMENT LTD.
 STATION STREET, BROMSGROVE, WORCS.

known as the SILENT SECTION



Noise is reduced in this tube tunnel by the provision of Newalls Paxtiles fixed to concrete slabs and fitted continuously, below car floor level.

These asbestos acoustic tiles are used wherever a sound absorbent surface is required; and because of their fire proof and vermin proof qualities they are especially suitable for use in hospitals, offices, swimming baths and in other buildings where reverberation is excessive. Newalls Paxtiles are also widely used for acoustic correction in cinemas, churches and other auditoria.

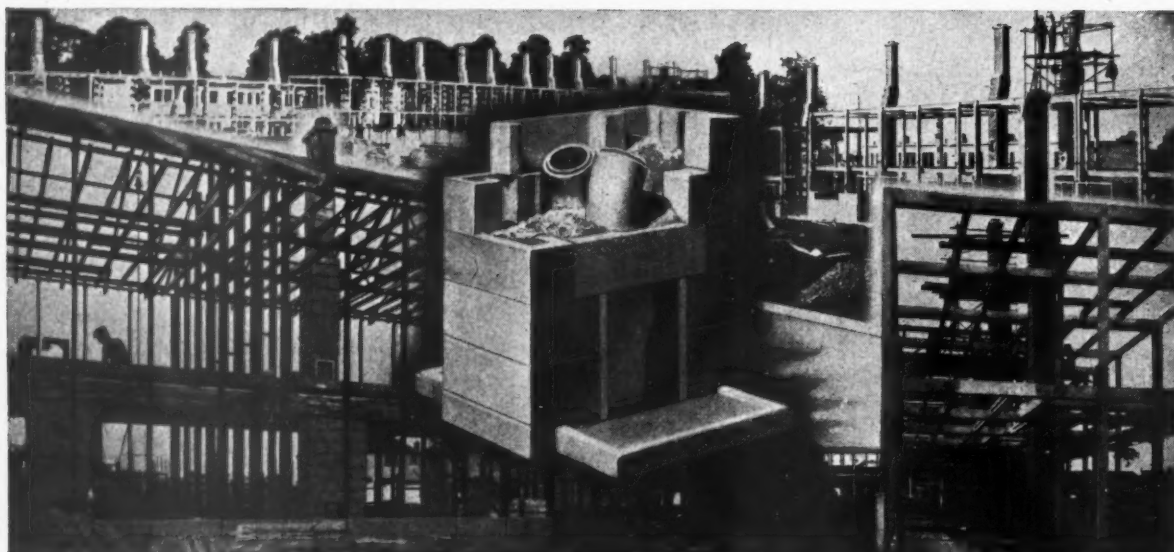
Newalls Insulation Co. Ltd. maintain staffs of experienced workmen at their depots throughout the country and can therefore, undertake the erection as well as the supply of their Paxtiles.

A 6 in. by 4 in. sample of this acoustic tile will be sent to architects on request.

NEWALLS
Insulation Co. Ltd.

(A MEMBER OF THE
TURNER & NEWALL ORGANIZATION)

HEAD OFFICE: WASHINGTON, CO. DURHAM. OFFICES AND DEPOTS AT
LONDON, GLASGOW, MANCHESTER, NEWCASTLE, BIRMINGHAM, BELFAST, BRISTOL AND CARDIFF



TRUE FLUE the speedily erected FLUE

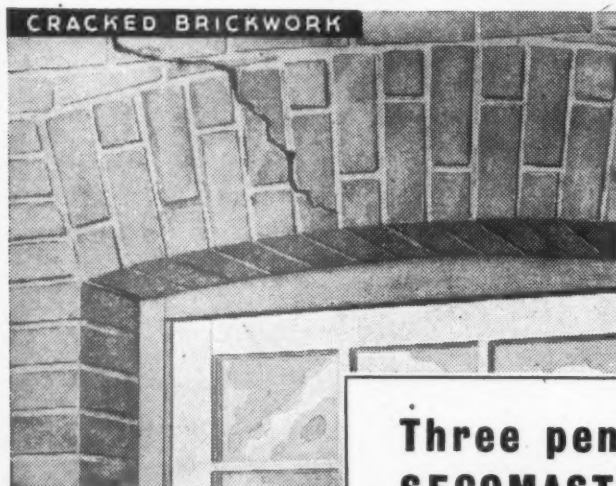
These photographs show a few of the building estates using the TRUE-FLUE system, which is a patented method of constructing domestic flues of correct design with the minimum of labour.

The chimney breasts may be constructed with the original form of concrete block which can be speedily erected independently of the remainder of the building structure; alternatively our system may be incorporated in the usual brick construction.

The Lintel and "gather-over" immediately above the fireplace are designed as one streamlined unit which eliminates the usual reinforced lintel or arch and ensures a trouble-free flue. This unit can be used with obvious advantages with any type of construction.

For full details write for our descriptive booklet

TRUE FLUE LTD., CONVECTOR HOUSE, ACACIA ROAD, ST. JOHN'S WOOD, N.W.8.
TELEPHONE: PRIMROSE 7161/2



CRACKED BRICKWORK



DAMAGED WALLS & CEILINGS

**Three pennyworth of
SECOMASTIC prevented
further deterioration**

With SECOMASTIC it takes but a few minutes to make an everlasting perfectly weatherproof seal that will take up expansion and contraction, remain flexible and never crack, crumble or fall out. There is nothing to equal SECOMASTIC for permanent repairs — seals window frames — corrugated roofs — fractured brickwork — precast concrete — renderings — rooflights — gutters — expansion joints — cracked tiles — sheds.



A Specified Material

WRITE FOR
FURTHER
PARTICULARS
TO :—
"SALES
DEPT."

SECOMASTIC LTD., 25 UPPER BROOK STREET, PARK LANE, LONDON, W.1 • Tel.: MAYfair 9080



Clean up the Skyline with the E.M.I. Single Aerial System

The new E.M.I. Radio and Television central aerial systems overcome the reasons for the chaotic collection of aerials which often mar the appearance of blocks of flats. From a single aerial sited on the roof and one co-axial cable which ends in a simple plug connection in each flat, any number of radio owners can be provided with excellent reception. The need also arises for providing the facilities for television in blocks of modern flats, and the problems then multiply. Whereas the untidy array of aerials for radio may produce practical results, Television aerials grouped together will cause mutual interference. E.M.I. scientists who made possible the existing B.B.C. Television system have designed a central Television aerial system which can be installed and operated in a manner similar to the aerial system for Radio described above.



You are invited to write for full details, or to apply for the services of technical experts, to:—



E.M.I. SALES AND SERVICE LTD., Relay Division, Hayes, Middlesex

E.67.



Time—the important factor

Materials, Labour and Experience.

The three essentials to ensure a first-class fencing job in the shortest possible time.

The Durafencing Service is at your service.

Send full details of your requirements NOW to:—

DURAFENCING LTD

MANUFACTURERS AND SPECIALIST ERECTORS OF EVERY TYPE OF FENCING

72 VICTORIA STREET LONDON SW1 TELEPHONE VICTORIA 9851 (5 LINES)



Speak to your 'Shadow'

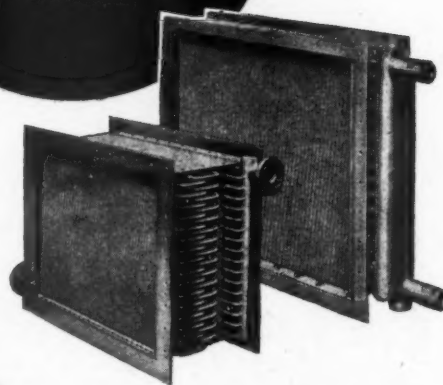
With an A.T.M. Intercom Telephone System your right hand man becomes your shadow, to be virtually by your side the instant you press a key—and the same applies to other members of your staff with whom you frequently require immediate communication.

Send today for further information and rental terms. Ask for Booklet T.101



AUTOMATIC TELEPHONE & ELECTRIC CO. LTD., Melbourne House, Aldwych, London, W.C.2. Telephone: Temple Bar 4506 Telegrams: Strowger, Estrand, London. Also at: Birmingham, Bristol, Glasgow, Leeds, Manchester, Newcastle, Sheffield. Strowger Works, Liverpool, 7

AI2173-AV14



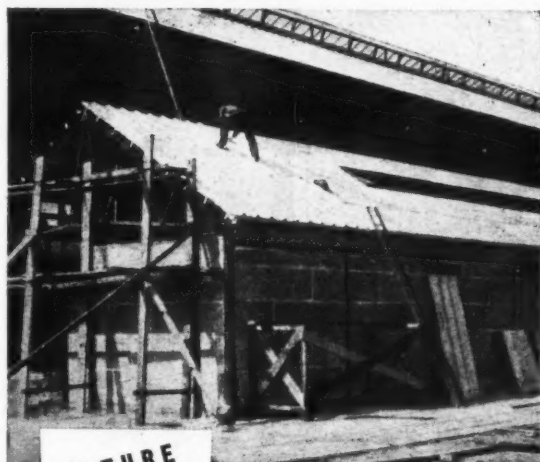
THERE are two reasons why we use the phrase "only part of the picture." One refers to the Vectair Heating and Cooling Coils shown above. They are part — an important part — of thousands of Vectair, Univectair and Projectaire Heaters and Vectair Product Coolers used throughout the world, and also the major unit in Plenum and other systems of space heating and cooling. The other part of the picture is the list — very abbreviated — of a few well known users of Vectair Coils.

BRITISH TRANE CO. LTD

VECTAIR HOUSE • 52 CLERKENWELL CLOSE • LONDON • E.C.1

Phone: Clerkenwell 6864 & 3826. Grams: Enartrane, Smith, London.

The unique advantages of WOOD WOOL BUILDING SLABS



**NATURE
AND
USES**

Wood Wool Building Slabs are a tough, resilient, light-weight building material with outstanding thermal insulating properties, made up into large yet easily-handled unit size.

They can be used for interior or exterior walls, suitably plastered or rendered, or as permanent shuttering for concrete walls and roofs, and for acoustic purposes are widely used in cinemas, theatres, churches and offices to correct hearing conditions.

Wood Wool Slabs can be cut and chased with ordinary wood-working tools, are fire-resistant, rot-proof and vermin-proof. They will take any suitable surfacing, plaster, rendering or bitumen.

Enquiries should be addressed to the members of the Wood Wool Building Slab Manufacturers' Association whose trade names and addresses are given below.

WW29

- | | |
|--------------------|--|
| GYPKLITH | .. Gyproc Products Ltd.,
Westfield, Upper Singwell Road,
Gravesend. Telephone: Gravesend 4251. |
| MARLITH. | .. The Marley Tile Co., Ltd.,
London Rd., Riverhead, Sevenoaks, Kent.
Telephone: Sevenoaks 2251. |
| THERMACOUST | Thermacoust Ltd.,
39, Victoria Street, London, S.W.1.
Telephone: Abbey 2738. |
| LITHALUN | .. Lithalun Products Ltd.,
Pontalun, Bridgend, Glam.
Telephone: Bridgend 213. |
| SUPALITH | .. Supalith Ltd.,
Alpha Works, Havelock Rd., Southall,
Middx. Telephone: Southall 2821 |

Prestex COMBINATION SINK TAPS



**There's
a pattern for every job**

Supplied in a range of patterns that meets every requirement, Prestex Combination Sink Taps have new and special features of design which ensure a mix either on equal or unequal pressures, prevent the cold water pressure forcing back the hot supply, and provide ample nozzle clearance for all purposes. These mixing taps, which are made to M.O.H. standard, are not only very efficient, but also a real economy, their cost comparing favourably with that of two pillar-type sink taps.

Approved by most of the leading water authorities including the M.W.B.

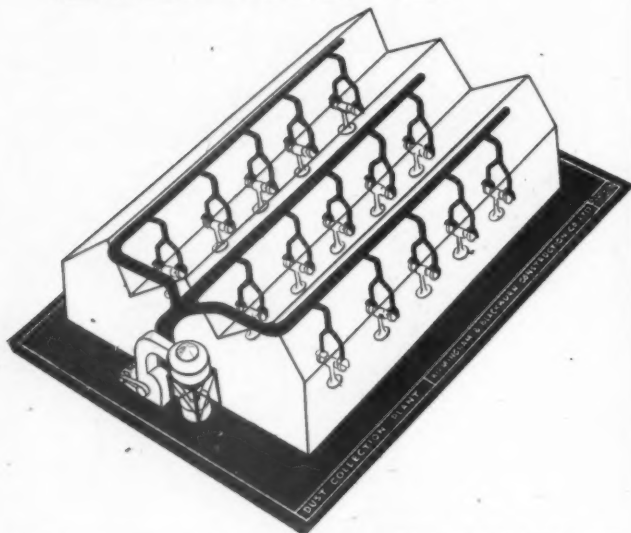
**Peglers
Limited**

**BELMONT WORKS, DONCASTER, & PRESTEX HOUSE
MARSHALSEA ROAD, LONDON, S.E.1**

It is all one to us!

Often we produce air conditioning and dust extracting plant to the Architect's design—often we produce the design as well. Whichever method you adopt, you will know that the entire job is made and installed by one firm of specialists.

Write today for Booklet No. 11. It describes what we make and the services we offer.

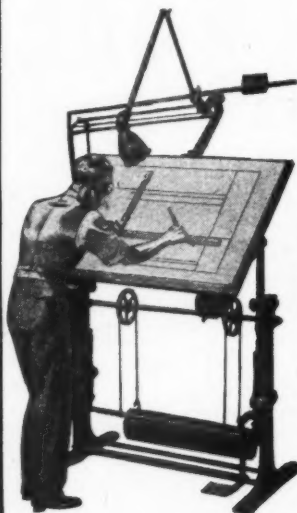


BIRMINGHAM & BLACKBURN CONSTRUCTION CO. LTD.

*Designers & Manufacturers of
Air Conditioning Equipment*

ARMOURY CLOSE, BORDESLEY GREEN, BIRMINGHAM 9
AND HARLEY STREET, BLACKBURN

The perfect drawing board



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**

what is STRAMIT?

STRAMIT is a new, light-weight, insulating, structural board, simple and economical to use, and FREE of LICENCE.

STRAMIT is straw + pressure + heat.

STRAMIT is light, rigid, tough, easily worked with ordinary carpenters' tools.

STRAMIT is suitable for all forms of partition, for wall linings, ceilings, roof and floor insulation, exhibition and window display.

STRAMIT boards are sold at a competitive price in 8 ft. x 4 ft. sheets, 2 in. thick.

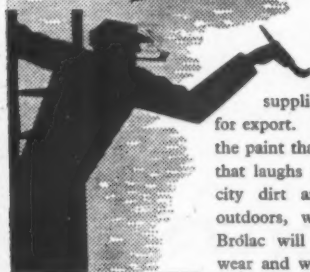
For further particulars apply to
your nearest Lloyd Board Distributor, or to

**BOWATERS BUILDING
BOARDS LIMITED**

115 PORTMAN STREET, LONDON, W.1

GENUINE PRE-WAR
Brolac
IS
BACK AGAIN!

The double protection paint with the enamel finish



The Brolac factory also makes Murac, the new type matt finish for interior walls. Ideal for hospitals, schools, hotels, etc.—you can wash it, rub it, scrub it.

The best paint-news since the war is that Brolac is back on the home market! Only in limited supplies, for the bulk of our output goes for export. But it is real 100% pre-war Brolac, the paint that made Hankol famous—the paint that laughs at sea air, scorching sun, corrosive city dirt and bathroom steam. Indoors or outdoors, wherever you need a gloss paint, Brolac will give twice the protection against wear and weather.

There won't be enough Brolac to go round, we are afraid—so get your order in early.

JOHN HALL & SONS

(Bristol & London) Ltd · Hengrove, Bristol, 4

Who also make Bristol & Brolistic

HANDLES

immediate delivery



TYPE 10A
TYPE 10AA
4" centres.

CHROMIUM
ANODISED ALUMINIUM
Fixed by two 2BA Screws



TYPE 10C
TYPE 10CA
6" centres.

CHROMIUM
ANODISED ALUMINIUM
Fixed by two 2BA Screws



TYPE 7A
4" centres.

CHROMIUM
Fixed by four 4BA Screws



TYPE 7E
8" centres.

CHROMIUM
Fixed by four 4BA Screws



TYPE 15A
4" centres.

CHROMIUM
Fixed by two 4BA Screws



TYPE 15C
6" centres.

CHROMIUM
Fixed by two 4BA Screws



TYPE 12

6" OVERALL
Fixed by two 4BA Screws. Aluminium
Anodised Silver or Colour.



TYPE 11

8 1/2" OVERALL
Fixed by four 4BA Screws. Aluminium
Anodised Silver or Colour

Here is a superb range of handles, styled in the modern manner, and ideally suited to numberless applications. These handles are easy to fit, fabricated in finest quality materials, and available for immediate delivery.

IMHOF'S

HANDLES FOR EVERY PURPOSE

ALFRED IMHOF LTD.
112-116 NEW OXFORD STREET, LONDON, W.C.1. Mus. 5944



STRUCTURAL STEELWORK

No skeleton in our cupboard and no doubt about the framework of your building when the steel is erected by Thomas Blackburn's. Our long experience in all branches of structural steelwork is your safeguard—and is at your service always.

RAILINGS, GATES, METAL WINDOWS
WELDED VESSELS, RAINWATER GOODS

THOMAS BLACKBURN & SONS
LIMITED
INCORPORATING RUSSELL EDWARDS & CO. & STEVENSONS
PRESTON-LANCS

FOR *Brighter*
PLANNING



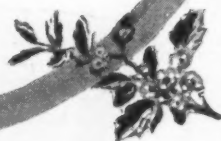
SPECIFY
NBC PAINTS

A range of products for
all decorative purposes.

NORTH BRITISH CHEMICAL Co. Ltd
Paints Division
DROYLSDEN · MANCHESTER

NEOFEX
ENAMEL FINISH

for durability and colour
retention



Advertiser 252



VULCANITE
ROOFING

for
EVERY TYPE
of **ROOF....**

Original patentees of Bituminous built up roofs

VULCANITE

TRIDENT WORKS · WIGAN *Ltd*
GLASGOW · LONDON · BELFAST



BUILDING CONSTRUCTION AND MAINTENANCE

WITH
RITO *Mastic*

RITOLASTIC
Liquid
"At the vital points"

The approved bituminous compounds for permanently jointing, sealing, damp coursing, resurfacing, waterproofing and preserving all types of ROOFS STEELWORK and CONCRETE FOUNDATIONS.

**WATER REPELLANT
ACID RESISTANT**

**ANTI-CORROSIVE
PRESERVATIVE**

(Specify:—RITOLASTIC AL Grade, the triple-purpose liquid compound with ALUMINIUM FINISH when light reflection is a consideration).

The services of Technical Representatives are available in all parts of the country without obligation. Write, requesting a call, to:— "House Construction and Maintenance Department."

A N D R E W M A X W E L L

(The Liverpool Boax Co. Limited)

6 ST. PAUL'S SQUARE, LIVERPOOL, 3. 'Phone: Central 1783-4-5. 'Grams: ALKALINE



VOLEX

AIR HEATERS ENSURE FRESH WARM AIR INDOORS

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

Telephone: TIPTON 1657/1658

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

"EVERLASTO"



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

BRITAIN'S SUPER SASH CORD

- * Weatherproofed by special process at no extra cost
- * Non Stretch
- * Rot Proof
- * Long Life
- * Durable
- * Low Cost

Everlasto
Registered Trade Mark No. 519412

Specified by Housing Directors, Architects, and Builders

Waterproof and Rot Proof

SASH CORD

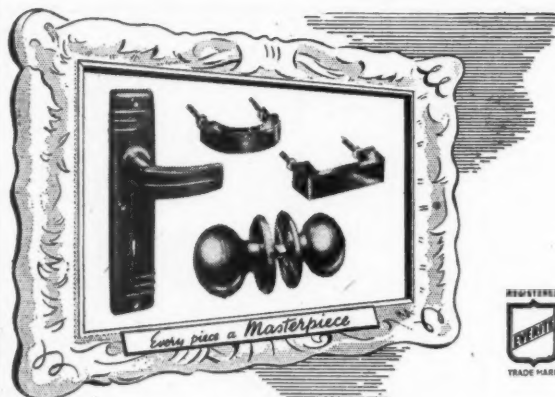


ENDLESS CORD
STRONG • DURABLE
Ask for details and prices

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

Made in all lengths
Write for details

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

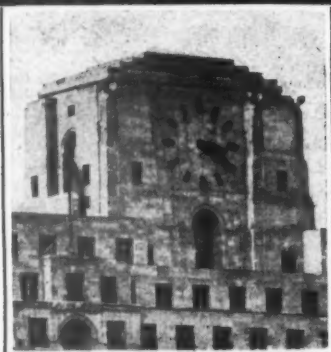


Everite (Plastics) Hardware is designed and produced by experts. No other manufacturers offer so wide a range of patterns and the quality is unsurpassed.

Everite
is **outstanding**

EVERED AND COMPANY LIMITED
SURREY WORKS, SMETHWICK, 40, STAFFS
London Office: 23, Albemarle Street, W.1.

BELLS AND TOWER CLOCKS



SHELL-MEX HOUSE, LONDON
Dia. of dials 25 ft. Messrs. C. F. Joseph, Archts.

TOWER CLOCKS

of all types, with dials from 2 ft. dia. upwards

**RINGING PEALS, CHIMES
CARILLONS, SINGLE BELLS**

Please let us have your enquiries

GILLETT & JOHNSTON LTD.

CROYDON, SURREY
Founders of Famous Bells
Tel.: Thornton Heath 3221 (5 lines)

INSULITE

the Wood-Fibre Insulating Board

More than
30 years
MANUFACTURING
EXPERIENCE
of
WOOD-FIBRE
INSULATING BOARD
and
HARDBOARD

INSULITE PRODUCTS CORPORATION LTD
10, HOBART PLACE, LONDON, S.W.1. SLOane 0428

Craftsmen in
Ornamental and Solid Plasterwork
Interior Decoration

CLARK & FENN Ltd.

16 OLD TOWN, LONDON, S.W.4

MACAULAY 2455-6-7



The equipment of
licensed premises is
a job for specialists

Gaskell & Chambers
LTD
BRITAIN'S BIGGEST BAR FITTERS

Head Office: DALE END WORKS, BIRMINGHAM, 4; and at London, Bristol, Cardiff, Leeds, Portsmouth, Newcastle-on-Tyne, Liverpool, Manchester, Preston, Hanley, Sheffield, Nottingham, Glasgow, Edinburgh.



JENKINS *Welded* STEEL BOILERS

Good delivery is offered of Jenkins welded mild steel boilers in any size and shape to suit all kinds of domestic hot water systems. Replacements are supplied promptly.

Export enquiries invited.



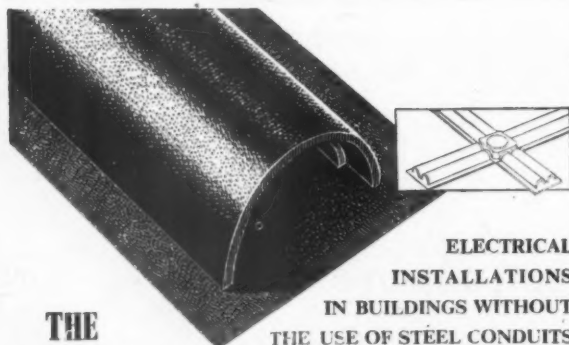
Arched Boiler

West of England Double El boiler with recessed arm

Robert Jenkins & Co Ltd.
ESTABLISHED 1855
ROTHERHAM



Telephone: Rotherham 4201-6 (6lines)



THE KEY FIBRE

UNDERFLOOR DUCT WIRING SYSTEM

Used extensively in the most modern office buildings and factory premises, Key Fibre Ducts provide for all present and future electrical requirements. Designed for maximum flexibility, Key Fibre Ducts can be tapped where and when required, at any time during the life of the building. Key Fibre is non-condensing and non-corrodible. Full details and specification will be sent on application.

★ EXPORT!

Agent's names for European, African and Middle East countries will be supplied on application.

THE KEY ENGINEERING CO. LTD.

4 QUEEN VICTORIA STREET,
LONDON, E.C.4

*Phone: City 2235-6

TRAFFORD PARK,
MANCHESTER

*Phone: Trafford Park 1903



For
high quality
Decorative Finishes
specify

GUARDIAN HARD ENAMEL GLOSS PAINT

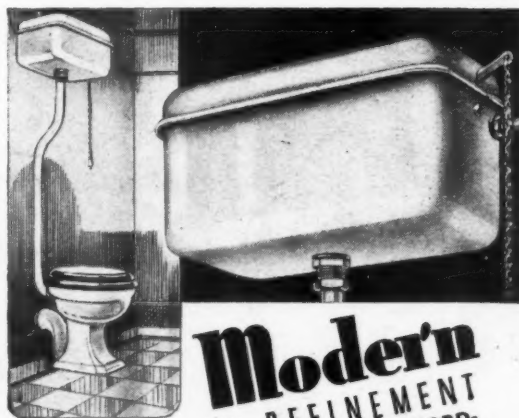
MAY-FAIR FLAT WALL ENAMEL

Manufactured by

**THE TEMPLE VARNISH
CO. LTD.**

43 ALDWYCH, LONDON, W.C.2

Tel: TEMple Bar 9935

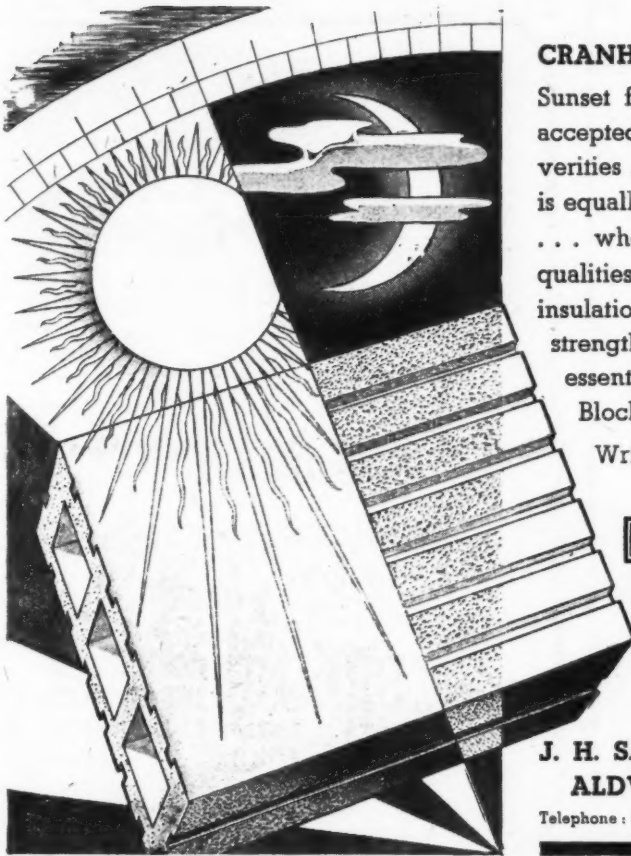


Modern SANITARY REFINEMENT

Externally, the smooth lines of the FORDHAM, with its superfine glass-enamel finish, its concealed brackets and its unobtrusive chain lever, are in accord with contemporary taste of the highest order; while internally, its hidden valves provide the quiet efficiency for which it is well known. We shall be happy to send you full details and prices on request.

The
Fordham
seamless steel
FLUSHING CISTERN

FORDHAM PRESSINGS LIMITED, DUDLEY ROAD,
WOLVERHAMPTON. Phone: Wolverhampton 23861



CRANHAM—A NEW WORD FOR DEPENDABILITY

Sunset following sunrise . . . so dependable that it is accepted as common-place . . . yet one of the eternal verities . . . and the dependability of Cranham Blocks is equally axiomatic. For post-war reconstruction jobs . . . where dependability will be a first priority . . . qualities of fire and damp resistance, of heat and sound insulation, of lightness combined with great mechanical strength, and a perfect key for plastering, will be essential . . . in a word, the qualities of Cranham Blocks!

Write today for full technical details.

SANKEY'S

CRANHAM BLOCKS

J. H. SANKEY & SON LTD.

ALDWYCH HOUSE, ALDWYCH, LONDON, W.C.2

Telephone: HOLborn 6949 (14 lines)

Telegrams: Brickwork, Estrand, London

SUNDEALA
COMPOSITE BOARD
for
RIGIDITY · INSULATION
STRENGTH · PERMANENCE

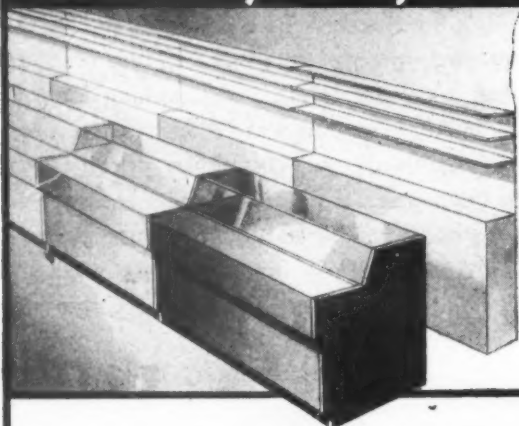
SUNDEALA BOARD CO. LTD. ALDWYCH HOUSE, LONDON, W.C.1

Tel: CHAncery 8159.

Works: Sunbury-on-Thames, Middx.

Members of Building Board Manufacturers Association.

In any length



Here is a counter which will grow with the business. This countering, the most adaptable yet devised, can be constructed or extended to any shape or length. Handmade by craftsmen, it is finished in stove enamel, (colour to match existing countering) and stainless steel. The counter top is covered with an acid resisting, heat-proof plastic. No permits are required and a delivery date can be given.

Henderson

THE HENDERSON SAFETY TANK CO. LTD.
ELSTREE WAY ELSTREE HERTS. Phone: ELSTREE 1758 (3 lines)

162-13



**STERLING
FELT**

BUILDERS!

Halve your handling charges for
Corrugated Hairfelt Insulation Sheets

BUY

"STERLING"

DOUBLE SIZE

HAIRFELT SHEETS

34" x 40" also 48" x 49"

Made only by

STERLING TEXTILE INDUSTRIES LTD

STERLING WORKS, ALEXANDRA ROAD, PONDERS END
MIDDLESEX

Phone: HOWARD 2214-5, 1733

STERTEX, ENFIELD

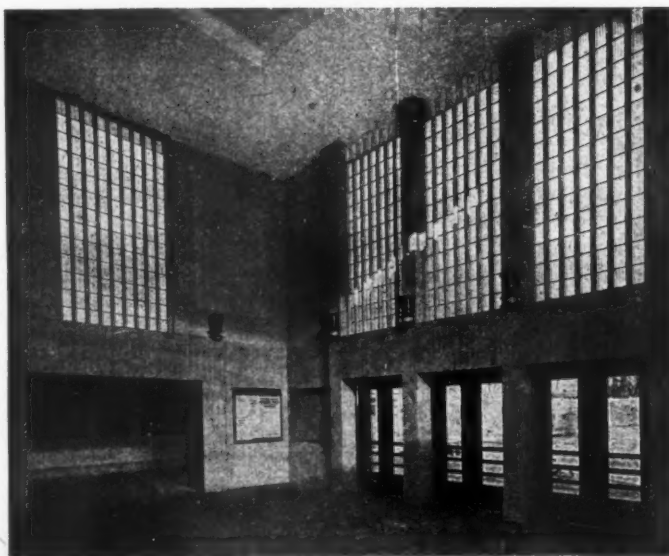
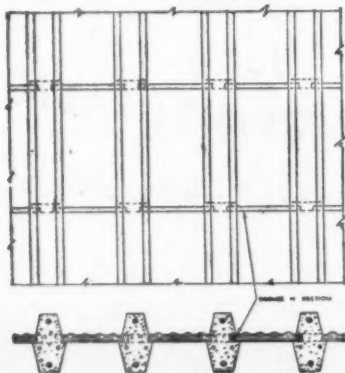
ENQUIRE FROM YOUR MERCHANT
TRADE ENQUIRIES INVITED

GLAS-CRETE WINDOWS

REINFORCED CONCRETE AND GLASS CONSTRUCTION

Patent "Cristol" Window construction, comprising vertical R.C. mullions, grooved and slotted to receive "H" bronze members, which in turn carry special high-relief glass units or sheet glass.

It is thus possible to construct windows continuously up to any desired height, as the weight of each glass is carried on the "H" members, which, in turn, transmit it to the mullions. Mullions are spaced at 9in. or 12in. centres when high relief glass units are used, but may be spaced up to 2ft. centres when glazing is carried out in sheet glass.



J. A. KING AND COMPANY LIMITED
181 QUEEN VICTORIA STREET, LONDON, E.C. 4

TELEPHONE CENTRAL 5866 (4 LINES)

TELEGRAMS KINGIQUE LENT LONDON

There's a **SANTON**
Electric Water-heater
for EVERY purpose

DOMESTIC

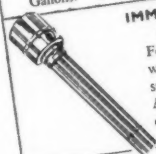
THERMAL STORAGE TYPE

Self-contained units, with Thermostat Control which maintain a constant supply of hot water. Pressure, Non-pressure, and Cistern Types. 1½ to 100 Gallons. .75 kW to 6 kW.



IMMERSION TYPE

With or without circulator tubes. For insertion into existing hot-water systems. Hand or Thermostatic Control. 1 kW to 4 kW. Also .25 kW and .5 kW single-element "anti-freezers."



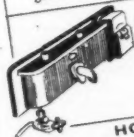
QUICK-SERVICE TYPE

Self-contained unlagged units for rapid heating of water as and when required. Single or multi-point supply. 2 to 15 gallons 1.5 kW to 4 kW.



INSTANTANEOUS GEYSERS

Provide an immediate and continuous flow of hot water. Compact, simple and efficient. 5 kW to 18 kW. Ideal for ambulance rooms.



HOUSE-SERVICE UNITS

Highly finished Iron-clad for control of main electric supply or cooker, water heater, wash boiler, kettle, etc.

OR INDUSTRIAL

WATER

Immersion heaters. Hand or Thermostatic Control. 1 kW to 6 kW. Copper element sheaths 12 inches to 42 inches long.

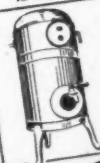
OIL

Immersion type. Temperatures up to or above 220° F. 1 kW to 4 kW. Steel Element sheaths. Hand or Thermostatic Control. 12 inches to 42 inches long.

CHEMICALS

Immersion type with all immersed parts coated suitably for protection against Acids, Alkalis or Corrosive Fluids. 1 kW to 4 kW. 12 inches to 42 inches long.

CANTEEN BOILERS AND HEATERS



Automatic or dispense types. 2 Gallon to 60 Gallon. Hand or Thermostatic Control. 1.5 kW to 16 kW. For Canteens, Restaurants, Hotels, and catering purposes.

NEWPORT
SANTON
MON (ENG)

Apply for
FREE DATA SHEETS
giving details of individual
SANTON products

TRADE MARK "SANTON"

12364

Emblem of Quality



ARMOUR BRAND

for

Protection

Durability

and Finish

Griffiths Bros. & Co

London Limited

PAINT, ENAMEL & VARNISH SPECIALISTS

MACKS ROAD, BERMONDSEY, SE16

TEL. BERMONDSEY 1151

Lightweight Concrete

Proprietors of a lightweight concrete process, fully tested in practical working and used by leading Scandinavian contractors and manufacturers, desire to get in touch with builders and manufacturers of concrete products.

The process is readily adapted both for direct casting on the site of roof and flooring insulation layers, and for commercial production of wall slabs and building blocks. It is characterized by simplicity, by small investment of capital and equipment and by good economy even in case of small-scale production.

The finished product is produced entirely from inorganic materials and can be given any wanted bulkweight. The heat insulation capacity and fire resistance are excellent, and the finished material is easy to saw, drill and nail.

Replies to "Lightweight Concrete" should be addressed to, c/o The Architects' Journal 9-13 Queen Anne's Gate, London, S.W.1.

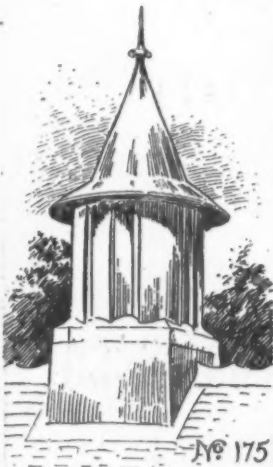
Service to Architects



ASPINALLS (PAINTS) LTD., SUPPLY
SERVICE FIRST—PRACTICAL DECORATIVE
SCHEMES AND PERSPECTIVE DRAWINGS
WITH PROFESSIONAL ADVICE.
THEIR DECORATIVE MATERIALS ARE
OF COURSE, OF WORLD WIDE RENOWN

ASPINALLS (PAINTS) LIMITED
CARLETON, SKIPTON, YORKS. PHONES SKIPTON 548/9

BOYLE'S LATEST PATENT "AIR PUMP" VENTILATOR



"Of all the systems of ventilation, that employed by Messrs. R. Boyle & Son is the best."—
Professor Sir Leonard Hill,
M.B., L.I.D., F.R.S.

OVER 2,000,000 IN USE

Awarded £50 Prize with Diploma
(only prize offered) International
Ventilator Tests, London; Highest
Award International Ventilator
Tests, Paris; Two Gold
Medals with Diploma.

PIONEERS OF THE
VENTILATING BUSINESS

ESTABLISHED 1864

ROBERT BOYLE & SON

VENTILATING ENGINEERS

98, HERRIES STREET, KILBURN LANE,
NORTH KENSINGTON, W.10.

Telephone:
Ladbroke 2879.

Telegrams:
"Hypostile, Phone, London."

Books by Le Corbusier

CONCERNING
TOWN PLANNING
Price 10s. 6d. Post 4d.

THE CITY OF TOMORROW
Price 15s. Post 6d.


TOWARDS A NEW
ARCHITECTURE
Price 15s. Post 6d.

THE ARCHITECTURAL PRESS
9 Queen Anne's Gate · Westminster · S.W.1



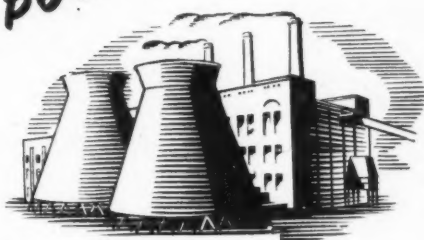
BIG JOB OR LITTLE

LET NEGUS DO IT

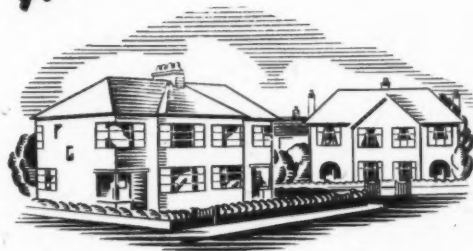


W. & M. NEGUS LTD
Station Works,
KING JAMES ST., S.E.1.
Waterloo 5474.

FOR POWER STATIONS



... AND HOMES ...



TIMBER PLYWOOD & BUILDING MATERIALS

"BULLDOG" TIMBER CONNECTORS
for Timber Economy

INSULATING BOARDS
for Fuel Economy
FROM

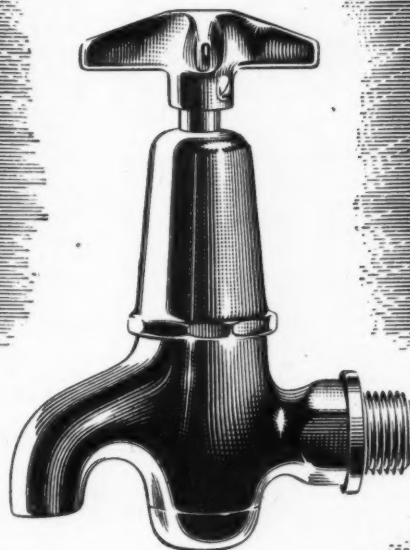


TIMBER IMPORTERS AND BUILDERS' MERCHANTS
ASTOR HOUSE, ALDWYCH, LONDON, W.C.2

Telephone: HOLborn 6071-2-3

HEAD OFFICE: NORTHAMPTON

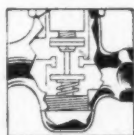
Branches at Cambridge, Chatteris, Cromer, Eastleigh, Lymington, Newbury, Northampton, Peterborough, Rugby, Southampton, Sutton Bridge (Linca.)



DISTINCTIVE

in principle and appearance

The Shaff Tap



In the Shaff Tap a great advance in design has been achieved. Graceful clean-cut lines, which give pleasure to the eye, enclose technical features that get rid of the bugbear of the dripping tap. Anyone can change the washer, which is a standard one, with ease and speed. There is no need to search for the stopcock, for the Shaff Tap incorporates a secondary valve which cuts off the water automatically. The washer, which is held merely by a friction pin, comes away with the head. Modified in certain parts to accommodate these invaluable features, the Shaff Tap in the matter of material, tolerances and workmanship is manufactured to British Standard 1010. It is accepted by leading Water Boards, including the M.W.B. Export enquiries are welcomed.



BIB, INCLINED BIB, PILLAR AND MIXER TYPES

An anti-splash device is now a standard fitting on all Shaff Bib Taps

Fully descriptive literature on request



JAMES SHAFFER LTD
120-132 Cricklewood Lane, N.W.2

Telephone: Gladstone 3311/9 Telegrams: Shaff, Crickle, London

ALSO AT SOUTH SHIELDS

CLASSIFIED ADVERTISEMENTS

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

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

None of the vacancies in these columns relate to a man between the age of 18 and 50, inclusive or a woman between the age of 18 and 40, inclusive, unless he or she is excepted from the provisions of the Control of Employment Order, 1947, or the vacancy is for employment excepted from the provisions of that Order.

Public and Official Announcements

6 lines or under, 10s.; each additional line, 1s. 6d. 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: 75, Batson Place, London, S.W.1. Tel. Sloane 5615. 991

LONDON COUNTY COUNCIL. HOUSING AND VALUATION DEPARTMENT. ARCHITECTURAL ASSISTANTS. Applications are invited for positions of Architectural Assistant, at salaries of up to £580 a year. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the Department on the occurrence of vacancies. Engagement will involve Superannuation contributions at the rate of 6 per cent. of salary.

Successful candidates will be required to undertake the design, layout, and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's division. Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required). Canvassing disqualifies. (870) 1032

LONDON COUNTY COUNCIL. VACANCIES FOR PLANNING STAFF IN THE ARCHITECT'S DEPARTMENT.

Applications are invited for a number of temporary positions in the following grades:—

PLANNING OFFICER. Grade II. £700 to £840 a year.
PLANNING OFFICER. Grade III. £550 to £700 a year.
TECHNICAL ASSISTANT. 55s. per week to £580 a year.

Commencing rate of pay, except for Grade II, according to qualifications and experience. Opportunities for competing, on merit, for permanent appointment and higher grades on the occurrence of vacancies. Successful candidates will be superannuable.

The planning work involved includes research assistance in preparation of the Development Plan and Reconstruction Areas, and work on interim development applications.

Knowledge of current town planning legislation is desirable, and candidates for Grade II and Grade III positions should possess Architectural, Surveying or Town Planning qualifications.

Application forms from Architect to the Council (P), County Hall, Westminster, S.E.1 (enclosing stamped addressed foolscap envelope). Canvassing disqualifies. (1322) 887

WEST SUFFOLK COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments in the above Department at Bury St. Edmunds:—

(a) **ASSISTANT PLANNING OFFICER.** A.P. & T., Grade VI (£295-£260). This Officer will be required to take charge of the West Suffolk Office under the direction of the County Planning Officer for the purposes of development control and survey work. He should have had wide experience in all aspects of Town and Country Planning, Development Control, and the preparation of factual surveys.

(b) **SENIOR PLANNING ASSISTANT.** A.P. & T., Grade V (£520-£570).

(c) **PLANNING ASSISTANT.** A.P. & T., Grade II (£420-£465).

Applicants for appointments (a) and (b) should be either Members or Associate Members of the Town Planning Institute. Preference will be given to those possessing qualifications in either engineering, surveying or architecture. They will be required to provide a motor car, for which they will be paid a travelling allowance in accordance with the County Scale.

Commencing point in salary scales will be fixed in each case according to qualifications and experience. Appointments will be subject to the provisions of the Local Government Superannuation Act, 1937. Successful candidates will be required to pass a medical examination.

Applications in own handwriting, stating age, education, war service (if any), experience, present position and salary, together with the names of two referees, should be submitted as soon as possible.

L. G. H. MUNSEY,

Clerk of the County Council.
Shire Hall, Bury St. Edmunds. 914

WARWICKSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments:—

(a) **DEPUTY COUNTY PLANNING OFFICER.** Salary £880, rising by three annual increments of £55 to £1,030 (consolidated).

(b) **SENIOR PLANNING ASSISTANT.** A.P.T., Grade VA/VI (£550-£660 per annum, consolidated).

(c) **FIVE PLANNING ASSISTANTS.** A.P.T., Grade V (£530-£570 per annum, consolidated).

(d) **THREE PLANNING ASSISTANTS.** A.P.T., Grade IV (£480-£525 per annum, consolidated).

Applicants for post (d) must be Corporate Members of the Town Planning Institute, and have had considerable experience in the preparation and administration of planning schemes. Preference will be given to persons who also possess a recognized qualification in architecture, civil engineering, or surveying. Experience in the control of staff is essential.

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

Applicants for post (b) must be Corporate Members of the Town Planning Institute, and must have had good experience in the preparation of planning schemes. The person appointed will be in charge of the work connected with one section of the County Development Plan.

Applicants for posts (c) must have had good general planning experience, and those appointed will be mainly engaged on development control. For one of these posts an architectural qualification will be an advantage.

Applicants for posts (d) should have had experience in a Planning Office, and those appointed will be required to assist in the preparation of the Development Plan.

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

Forms of application and any further particulars required may be obtained from J. J. Brooks, M.T.P.I., M.I.Mun.B., County Planning Officer, Shire Hall, Warwick, to whom applications, with copies of not more than three testimonials, should be sent not later than the 7th June, 1948.

Canvassing, directly or indirectly, will be a disqualification.

L. EDGAR STEPHENS, C.B.E.,

Clerk of the County Council.
Shire Hall, Warwick. 875

BAST SUFFOLK COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

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

(a) **ONE QUANTITY SURVEYOR.** A.P.T., Grade VII. Consolidated salary, £635-£710.

(b) **GRADE A ASSISTANT ARCHITECTS.** A.P.T., Grades V and VI. Consolidated salary, £280-£360.

(c) **GRADE B ASSISTANT ARCHITECTS.** A.P.T., Grade III and IV. Consolidated salary, £450-£525.

The commencing salary in the grades will be fixed according to the qualifications and experience of the candidate.

Applicants for appointment (a) should be qualified and thoroughly experienced, and preference will be given to those who are Associates of the R.I.O.S. (Quantities Division). They should be capable of undertaking all stages of the work for the preparation of Bills of Quantities, including estimating, site measurements, and preparation of interim certificates and the preparation and settlement of final accounts. If satisfactory the successful applicant will take charge of the Quantity Surveyor's section when it is formed in the near future.

Applicants for appointment (b) must be Registered Architects, and preferably Associates of the R.I.B.A. The work to be dealt with is that normally carried out by a Local Authority. Candidates must be quick and accurate draughtsmen, capable of carrying a job through in all its stages and with a sound knowledge of design, building construction, and specifications.

Applicants for appointments (c) must be Registered Architects, and preferably members of the R.I.B.A. They must be quick and accurate draughtsmen, fully conversant with a 1 in. scale, half inch and full size details for all types of buildings normally dealt with by a Local Authority, and have a good knowledge of design, construction and specifications.

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 applicant will be required to pass a medical examination.

Applications, stating age, qualifications and full details of previous experience, accompanied by copies of three recent testimonials, should be sent to E. J. Symcox, F.R.I.B.A., County Architect, County Hall, Ipswich, not later than 7th June, 1948.

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

G. C. LIGHTFOOT,

Clerk of the Council.
County Hall, Ipswich. 893

BOROUGH OF STOCKTON-ON-TEES. APPOINTMENT OF DEPUTY BOROUGH ARCHITECT.

Applications are invited for the appointment of Deputy Borough Architect, at a salary at the maximum of Grade V, A.P.T. Division, etc., £570 per annum.

Applicants must be Associate Members of the Royal Institute of British Architects, have had experience in the office of a Municipal Architect, and possess a knowledge of all types of buildings carried out by a local authority, including the design of schools.

The appointment is subject to the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service. The successful applicant will be required to pass a medical examination, and the appointment will be subject to one month's notice in writing on either side.

Consideration will be given, if necessary, to the provision of housing accommodation for the successful applicant.

Applications, endorsed "Deputy Borough Architect," stating age, qualifications, present appointment and salary, and previous experience, accompanied by copy of one recent testimonial, together with the names and addresses of two persons to whom reference may be made, must reach the undersigned not later than Monday, 21st June, 1948.

FRANK HILL,

Town Clerk.
Barclays Bank Chambers, Stockton-on-Tees. 918

CITY OF NOTTINGHAM EDUCATION COMMITTEE.

COLLEGE OF ART AND CRAFTS.

Principal: ALFRED H. ROWDAY, A.R.C.A.

Applications are invited from Men and Women for the post of STUDIO INSTRUCTOR, in the School of Architecture of the College, which is recognized for exemption from the R.I.B.A. Intermediate and Final Examinations, and in the Department of Town and Country Planning from the Final Examination of the Town Planning Institute. Duties to commence as soon as possible.

Candidates should hold recognized qualifications in architecture, preferably the degree or diploma of a recognized school. The Nottingham College of Art and Crafts is recognized by the Ministry of Education as a Central College. Subject to the conditions governing full-time teaching service, the person appointed will be given such opportunities as may be practicable to maintain his/her professional practice.

Salary: Burnham Scales, 1948, with additional allowances, where appropriate, for (i) training; (ii) graduation; (iii) full-time professional experience after age 21; (iv) previous recognized teaching service; and (v) service in H.M. Forces or the recognized equivalent. A qualification in Town and Country Planning will be regarded as an additional recommendation, and will qualify under certain conditions for additional salary. Application forms can be obtained from the Principal, College of Art and Crafts, Waverley Street, Nottingham, to whom they should be returned, with copies of two testimonials, within fourteen days of the publication of this advertisement.

F. STEPHENSON,

Director of Education.
Education Office, South Parade, Nottingham. 912

LONDON COUNTY COUNCIL—ARCHITECT'S DEPARTMENT.

Persons qualified under Section 77 of the London Building Acts (Amendment) Act, 1939, to hold the office of District Surveyor, are invited to apply for permanent appointment as ASSISTANT DISTRICT SURVEYOR, for service in the administrative County of London. Salary £840 a year, rising by annual increments of £40 to £960 a year. Eligible for promotion to District Surveyor (maximum salaries from £1,200 to £1,900 a year). Appointment subject to the Council's Superannuation and Provident Fund Scheme, and to the standing orders, regulations and rules in force from time to time.

Application form (to be returned by 12th June) or particulars of the qualifying examination, obtainable on request to the Architect to the Council, London County Council, The County Hall, Westminster Bridge, S.E.1. (1259) 911

SCOTTISH SPECIAL HOUSING ASSOCIATION, LIMITED.

invite applications for the appointment of QUANTITY SURVEYOR AND ESTIMATOR, at a salary of £1,000-£230-£1,200 per annum. No bonus will be payable in addition.

Candidates must (1) be not less than 35 years of age; (2) be a Member of Royal Institution of Chartered Surveyors; (3) have extensive experience in the control and direction of staff, and be capable of undertaking all stages of work in connection with housing schemes developed by Direct Labour or Contract, including preparation of estimates of cost of building work; (4) possess administrative and organizing ability, and be familiar with Local Authority administration. The Association have adopted Part I of the Local Government Superannuation (Scotland) Act, 1937, and the successful applicant will be required to pass a medical examination. Forms of application may be obtained from the Secretary of the Association, 15/21, Palmerston Place, Edinburgh, and all applications must be in the hands of the Secretary within 14 days from the appearance of this advertisement. Canvassing will be a disqualification. 879

CUMBERLAND COUNTY COUNCIL.
APPOINTMENT OF PLANNING ASSISTANT.
 Applications are invited for the position of Planning Assistant, on a salary scale from £396 to £560 per annum, rising by two annual increments of £20 and one of £25. This salary includes the cost-of-living bonus, which has now been consolidated.

A car allowance will be paid in accordance with the Council's scale, subject to variation from time to time, but at present a standing charge of £80 per annum, plus a mileage allowance, and subsistence according to the National Charter scales.

The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will require to undergo a medical examination.

The appointment will be terminable by one month's notice in writing on either side.

Applicants must be Members or Associate Members of the Town Planning Institute, and a qualification in Architecture or in Engineering will be an advantage.

The commencing salary on the grade will be determined according to the successful candidate's previous experience.

Applicants must be fully conversant with the Town and Country Planning Acts and Orders made thereunder, and be fully competent to carry out field work, plotting and preparation of plans, and have had experience with a Planning Authority.

Applications, stating age, qualifications, experience and previous appointments held, accompanied by copies of three recent testimonials, and endorsed "Planning Assistant," should be sent to the County Planning Officer, Citadel Chambers, Carlisle, not later than Saturday, the 13th June, 1948.

G. N. C. SWIFT,
 Clerk of the County Council.

11th May, 1948. 882

MOUNTAIN ASH URBAN DISTRICT COUNCIL.
APPOINTMENT OF ASSISTANT ARCHITECT.
 Applications are invited for the Temporary Appointment of Assistant Architect, in the Architect's Department, at an inclusive salary of £450 p.a.

Applicants must have passed the Intermediate examination of the Royal Institute of British Architects, and should have good housing and general architectural experience, and a knowledge of Building Quantities.

Applications, endorsed "Assistant Architect," stating age, qualifications, experience, and accompanied by two recent testimonials, must reach the undersigned not later than the 15th June, 1948.

BERNARD M. MURPHY,
 Clerk of the Council.

Town Hall, Mountain Ash.
 19th May, 1948. 939

COUNTY BOROUGH OF STOCKPORT.
 Applications are invited for the positions of:—
TOWN PLANNING ASSISTANT. A.P.T., Grade V, £520-£570 per annum. Must hold qualification A.M.T.P.I.

TOWN PLANNING ASSISTANT. A.P.T., Grade III, £450-£495 per annum.

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

Candidates must disclose in their applications whether to their knowledge they are related to any member of the Council or any Senior Official of the Corporation.

Applications, stating age, qualifications and experience, together with copies of two recent testimonials, must be delivered to the undersigned not later than Wednesday, 9th June, 1948.

Canvassing, directly or indirectly, will be a disqualification.

WM. F. GARDNER, M.I.C.E.,
 Borough Surveyor.

Town Hall, Stockport. 907

SOMERSET COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for (a) **THREE SENIOR PLANNING ASSISTANTS.** Salary grade, A.P.T., V, £520, rising to £570 per annum.

(b) **TWO PLANNING ASSISTANTS.** Salary will be according to qualifications and experience; either Grade A.P.T., III, £450, rising to £495, or Grade A.P.T., IV, £480, rising to £525.

(c) **ONE JUNIOR PLANNING ASSISTANT.** Grade A.P.T., I, £390, rising to £435.

All appointments are subject to the Local Government Superannuation Act, 1937. Applicants for appointments (a) must be Members or Associate Members of the Town Planning Institute, and have had experience in a planning department for an area including both town and countryside.

Applicants for appointments (b) must have had experience in a planning department, and should have a recognized professional qualification. Applicant for appointment (c) should have been trained in an office of an Architect, Engineer or Surveyor, and have been accepted for a studentship of a recognized professional institute.

Applications are to be made on forms obtainable from the undersigned, and must be submitted on or before 25th June, 1948.

R. W. DALE,
 County Planning Officer, Somerset

County Council.

41, Upper High Street, Taunton. 895

NORTH-WEST SURREY JOINT PLANNING COMMITTEE.

ASSISTANT AREA PLANNING OFFICER.
 Applications are invited for the appointment of Assistant Area Planning Officer, at a salary within Grade V (£520-£570) of the National Joint Council's scale, together with a travelling allowance.

The commencing salary within the grade will be determined according to the qualifications and experience of the candidate appointed.

Applicants must have had previous experience in a Planning Office, the preparation of Planning Schemes, and of the control of interim development.

Candidates must have passed the final examination of the Town Planning Institute, and preference will be given to those possessing an additional qualification in Engineering or Architecture.

The successful candidate will be required to pass a medical examination and to work in the Area Office in Woking in the employment of the Surrey County Council.

Forms of application may be obtained from the undersigned, to whom they should be delivered in envelopes endorsed "Assistant Planning Officer," not later than 14th June, 1948. Canvassing, either directly or indirectly, will disqualify.

F. H. SMITH,

Hon. Secretary to the Committee.

Council Offices, Woking, Surrey. 935

METROPOLITAN BOROUGH OF HOLBORN.
SENIOR ASSISTANT ARCHITECT.

Applications are invited for the following appointment, on the established staff in the Housing and Planning Department:—

SENIOR ASSISTANT ARCHITECT (Grade A.P.T., VI). Salary £595 (consolidated), rising by two annual increments of £20 and one of £25 to a maximum of £660 per annum, plus London weighting (at present £20 per annum).

Candidates must be qualified Architects, and are required to have experience in preparation of schemes for conversion of houses into flats, schemes for new flats and houses, together with the preparation of specifications, estimates, and supervision of works in progress. Planning experience would be an advantage.

Applications, stating age, qualifications and experience, and accompanied by copies of not more than three recent testimonials, or the names of three persons from whom references may be obtained, should be sent to S. A. G. Cook, A.R.I.B.A., Borough Architect, Town Hall, High Holborn, W.C.1, not later than 4th June, 1948.

C. F. S. CHAPPEL,

Town Clerk.

927

VIEWSLEY AND WEST DRAYTON U.D.C.
 Applications are invited for the appointment of an **ARCHITECTURAL ASSISTANT (Permanent)**, at a salary in accordance with A.P.T., Grade II (£420-£465, plus £20 London weighting).

Candidates must either hold R.I.B.A. qualifications or be registered Architects, with housing and general Municipal experience.

Applications, stating age, qualifications and experience, and giving the names of two referees, should be endorsed "Architectural Assistant," and forwarded to the Engineer and Surveyor, not later than Monday, 7th June, 1948.

A. C. KENNEDY,

Clerk of the Council.

Council Offices, Viewsley, Middlessex. 909

BOROUGH OF SOUTHGATE.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, on the Established staff of the Borough Engineer and Surveyor.

The salary will be in accordance with Grade V of the A.P.T. Division of the National Joint Council Scales, namely £520-£570 per annum, plus the appropriate London "weighting" allowance.

Applicants should be Associate Members of the Royal Institute of British Architects, or hold an equivalent qualification.

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

Candidates who to their knowledge are related to a member or senior officer of the Council must disclose the relationship in their application. Failure to do so will disqualify or render the candidate appointed liable to dismissal without notice.

Canvassing, either directly or indirectly, will be a disqualification.

Applications, stating (1) name and address; (2) age; (3) qualifications by examinations; (4) present position, salary and date appointed; (5) previous positions, with dates and salaries; (6) particulars of experience, accompanied by copies of three recent testimonials, should be sent to Mr. J. T. W. Peat, F.R.I.B.A., Borough Engineer and Surveyor, Southgate Town Hall, Palmers Green, London, N.13, in an envelope endorsed "Architectural Assistant," so as to reach him not later than 9 a.m. on Monday, 31st May, 1948.

GORDON H. TAYLOR,

Town Clerk.

Southgate Town Hall, Palmers Green, 901

London, N.13.

COUNTY BOROUGH OF EAST HAM.

Appointments of:—

(1) **ENGINEERING ASSISTANT,**
 (2) **SENIOR ASSISTANT PLANNING OFFICER.**

in the Borough Engineer's Department.
 Applications are invited for the following permanent appointments, in the Borough Engineer's Department.

(1) **ENGINEERING ASSISTANT (Grade V).**
 Candidates must be Associate Members of the Institution of Civil Engineers or of the Institution of Municipal Engineers, or hold an equivalent qualification, and be experienced in general Municipal engineering.

(2) **SENIOR ASSISTANT PLANNING OFFICER (Grade V).**

Candidates should preferably be Associate Members of the Town Planning Institute or hold an equivalent qualification, and have had a general experience of planning work; experience in a County Borough would be an advantage.

Salary in each case £520 by two increments of £15 and one of £20 to £570 per annum, plus London allowance.

The Council have in course of preparation a large and varied programme of interesting works, which it is anticipated will not be affected by the proposed reductions in capital expenditure.

Housing accommodation is not provided, but the Council will be prepared to consider applications for subsistence allowances if the persons appointed are unable to obtain suitable accommodation.

Particulars of the terms and conditions of appointment and form of application (which must be returned by Monday, the 14th June, 1948) may be obtained from the undersigned.

Canvassing in any form will disqualify.

H. A. EDWARDS,

Town Clerk.

Town Hall, East Ham, E.6. 908

May, 1948.

CITY OF MANCHESTER.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

PERMANENT STAFF.
 (a) **STRUCTURAL ENGINEERING ASSISTANT.** Salary, A.P.T., III, £450-£495 per annum.

(b) **ELECTRICAL ENGINEERING ASSISTANT.** Salary, A.P.T., III, £450-£495 per annum.

TEMPORARY STAFF.
 (c) **TWO ASSISTANT QUANTITY SURVEYORS.** Salary, A.P.T., V, £520-£570 per annum.

Candidates for appointment (a) should possess adequate technical knowledge and practical experience in the design of structures in steelwork and reinforced concrete.

Candidates for appointment (b) should possess adequate technical knowledge and practical experience in the design of installations, including preparation of plans and specifications, and the supervision of contracts in connection with electric lighting, heating, and power plants in Municipal buildings, including schools and institutions.

Candidates for appointment (c) should have had considerable experience in the preparation of bills of quantities, estimates, valuations, and the settlement of accounts.

The successful candidates for the permanent positions will be required to pass a medical examination before the appointments are confirmed, and to contribute to the Corporation's Superannuation Fund, and to execute the Corporation's Deed of Service.

Applications, on the official form, obtainable at the City Architect's Office, must be returned, together with not more than three recent testimonials, to Leonard C. Howitt, B.Arch., Dip.T.P., D.P.A., F.R.I.B.A., A.M.T.P.I., City Architect, Town Hall, Manchester, by Saturday, 12th June, 1948, endorsed for the appropriate appointment. Canvassing in any form, oral or written, direct or indirect, is prohibited, and will be regarded as a disqualification.

PHILIP B. DINGLE,

Town Clerk.

Town Hall, Manchester. 906

May, 1948.

LONDON COUNTY COUNCIL.
QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR.

Formal notice is hereby given that the next examination of persons desirous of obtaining a Certificate of Proficiency to perform the duties of the office of District Surveyor will be conducted in London in week commencing 18th October, 1948, by the Board established by the London County Council in accordance with Section 77 of the London Building Acts (Amendment) Act, 1939. The minimum age limit for candidates is 25.

Possession of this certificate carries eligibility to compete for appointment to vacant positions as District Surveyor, at maximum salaries ranging from £1,200 to £1,800 a year (inclusive), or as Assistant District Surveyor (salary scale, £840 by £40 to £960 a year).

It is intended to hold subsequent examinations annually.

For regulations governing candidature, the syllabus, and application forms for the examination, or for any further information, apply to the Architect to the Council, County Hall, Westminster Bridge, S.E.1. Persons who have already asked for forms of application need not re-apply. (1027)

737

BUCKS COUNTY COUNCIL.

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

ASSISTANT QUANTITY SURVEYOR. Grade VII. (£585-£760 p.a.).
Travelling and subsistence allowances will be paid on the County Council's scale for the time being in force. The appointment is superannuable and subject to medical examination.

Further particulars and form of application may be obtained from the County Architect, County Offices, Aylesbury, to whom applications must be delivered by 7th June, 1948.

GUY R. CROUCH,

Clerk of the Bucks County Council.

County Hall, Aylesbury.

May, 1948.

904

COUNTY BOROUGH OF WOLVERHAMPTON. APPOINTMENT OF PRINCIPAL PLANNING ASSISTANT.

Applications are invited for the appointment of Principal Planning Assistant, on the permanent staff of the Borough Engineer, at a salary in accordance with A.P.T. VI. of the National Scale (£295-£660, consolidated).

Applicants should hold a recognized Town Planning qualification by examination, and should have had good Town Planning experience.

It is anticipated that a modern house can be made available for the successful candidate.

The appointment will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Officers' Superannuation Act, 1937, for which the successful candidate will be required to pass a medical examination.

The Conditions of Service will be those of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

Applications, together with copies of recent testimonials, should be addressed to the undersigned not later than Wednesday, the 2nd June, 1948, in a plain sealed envelope suitably endorsed.

Canvassing, directly or indirectly, will be a disqualification.

J. BROCK ALLON,

Town Clerk.

Town Hall, Wolverhampton.

May, 1948.

941

BOROUGH OF WHITEHAVEN. ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, in the Borough Surveyor's Department.

Applicants must be Members of the Royal Institute of British Architects, and should have had experience in housing and general building works as carried out by a local authority. Experience in taking off and billing quantities will be an advantage.

The salary will be in accordance with A.P.T. Grade IV. of the National Scales (£480 to £525 per annum).

Applications, stating age, qualifications and experience, together with copies of two recent testimonials, should be addressed to the undersigned not later than Monday, 7th June, 1948.

A house will be available for the successful applicant.

A. D. VICKERMAN,

Town Clerk.

Town Hall, Whitehaven.

18th May, 1948.

933

CITY OF ST. ALBANS. CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited from suitable persons for the following positions in the City Engineer and Surveyor's Department:—

(a) **TEMPORARY JUNIOR ARCHITECTURAL ASSISTANT.** at a salary of £420 per annum, rising by annual increments of £15 to £465 per annum.

(b) **TEMPORARY ASSISTANT BUILDING INSPECTOR.** at a salary of £375 per annum, rising by annual increments of £15 to £420 per annum.

(c) **TWO TEMPORARY CLERKS OF WORKS.** at salaries of £375, rising by annual increments of £15 to £420 per annum.

Candidates for post (a) should have had some experience in Architectural work, preferably with a local authority.

Candidates for posts (b) and (c) should have had practical experience in the supervision and inspection of building, road and sewer works.

The appointments, which will be terminated by one month's notice on either side, are subject to the schemes and conditions of service of the National Joint Council of Local Authorities' Administrative, Professional, Technical and Clerical Services and to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, experience, etc., and accompanied by two recent testimonials, in envelopes appropriately endorsed, should reach the undersigned not later than Friday, 11th June, 1948.

It is anticipated that the duration of all the above appointments will be approximately three years, and there is a possibility that one of the Clerks of Works posts will be made permanent.

W. B. MURGATROYD,

Town Clerk.

38, St. Peter's Street, St. Albans.

May, 1948.

936

BOROUGH OF FINCHLEY. HOUSING AND TOWN PLANNING DEPARTMENT.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited from suitably qualified persons for the appointment of Clerk of Works on the temporary staff for the supervision of certain Housing Scheme Contracts.

Candidates should have a practical knowledge of all branches of the building trade, be able to read plans, work from Bills of Quantities, and have experience in the supervision of the erection of buildings.

Salary will be within Grade A.P.T. IV. of the National Scales (£480-£525 per annum), plus £30 London weighting.

Applications, stating age, qualifications, experience, appointments held and salary, together with copies of two testimonials (of which at least one should be recent), or the names of two referees, should be sent to I. Fooks, F.A.I., Housing and Town Planning Officer, Housing and Town Planning Department, The Avenue, Finchley, N.3. not later than Monday, the 7th June, 1948.

R. M. FRANKLIN,

Town Clerk.

900

METROPOLITAN BOROUGH OF LAMBETH. PROPOSED NEW HOUSING ESTATE. LEIGHAM COURT ROAD ARCHITECTURAL COMPETITION.

Architects resident in the United Kingdom (of whose nationality) are invited to submit designs in open competition for the layout and design of dwellings on a site of eight acres net at Leigham Court Road, Streatham Common North. The Council has nominated Mr. C. H. James, R.A., F.R.I.B.A., to act as Assessor, and his award will be final and binding on all parties. The premiums offered are £500, £200 and £100 for the designs placed first, second and third respectively.

Applications for conditions, accompanied by a deposit of two guineas (repayable on receipt of bona fide design or on return of the conditions of competition not later than the 31st November, 1948, in the case of competitors who do not intend to proceed with the competition), should be made to the undersigned as soon as possible and not later than 1st July, 1948. Designs are to be submitted to the Council on or before 31st December, 1948; designs received after this date will not be considered. The last day for questions will be 1st September, 1948. It is the intention of the Promoters to employ the successful competitor to carry out the work, and the fees will be in accordance with the R.I.B.A. scale fee for State-aided Housing Schemes and for Multi-Storey Flats. The first premium will merge in the fees paid.

O. L. ROBERTS,

Town Clerk.

Lambeth Town Hall, Brixton Hill, S.W.2.

1948.

919

CITY OF WAKEFIELD. CITY ENGINEER'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANT (GRADE IV).

Applications are invited for the appointment of Architectural Assistant, in the City Engineer's Department, at a salary in accordance with Grade IV (£460-£525), and commencing at £510 per annum.

Preference will be given to candidates who are Associates of the Royal Institute of British Architects and who have had experience in school design and construction.

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

Applications, endorsed "Architectural Assistant," stating age, qualifications, present and previous appointments and experience, and accompanied by copies of two recent testimonials, should reach the undersigned not later than Saturday, the 5th June, 1948.

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

W. S. DES FORGES,

Town Clerk.

Town Hall, Wakefield.

12th May, 1948.

903

By permission of the Ministry of Labour and National Service, under the Control of Engage- ment Order, 1947.

BOROUGH OF KEIGHLEY. BOROUGH ARCHITECT'S AND HOUSING DEPARTMENT.

Applications are invited for the position of ARCHITECTURAL ASSISTANT, Grade A.P.T. I, £390 to £435 per annum.

Applications, stating age, education, training, qualifications, experience, past and present employment, and accompanied by two testimonials and one professional reference, to be forwarded to the undersigned not later than first post Monday, 14th June, 1948.

The appointment is subject to the Conditions of Service of the Corporation, and it is not possible to provide housing accommodation for the successful applicant. Canvassing will be disqualify.

E. G. FELGATE, A.R.I.B.A.,

Borough Architect.

Borough Architect's and Housing Depart-

ment, College Street, Keighley.

899

CITY AND COUNTY OF KINGSTON-UPON- HULL.

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

(a) **ASSISTANT ARCHITECT.** A.P.T., Grade III (£450 to £495 per annum).

(b) **ARCHITECTURAL ASSISTANT.** A.P.T., Grade I (£390 to £435 per annum), for work in the Hospitals Section of the Department.

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, obtainable from the undersigned, should be returned complete on or before 7th June, 1948.

ANDREW BANKINE, A.R.I.B.A.,

City Architect.

Guildhall, Kingston-upon-Hull.

931

MIDDLESEX COUNTY COUNCIL EDUCATION COMMITTEE. WILLESDEN TECHNICAL COLLEGE, DENZIL ROAD, WILLESDEN, N.W.19. BUILDING DEPARTMENT.

Applications are invited for the following new appointments:—

(a) Full-time Lecturer in THEORY and DESIGN OF STRUCTURES.

(b) Full-time Lecturer in BUILDING ORGANIZATION, MANAGEMENT and ADMINISTRATION, including Builders' Estimating and Pricing.

Applicants should hold appropriate academic qualifications, and preferable have had teaching experience. Industrial experience is essential. The appointments are made necessary by the growth of the National Diploma Course in Building, but they may involve some teaching in the Secondary Technical School and part-time day courses. Duties to commence on 1st September, 1948.

Salary in accordance with the Burnham Technical Report (London area), with the addition of £100 per annum in the case of post (a), which will be regarded as a special post.

Forms of application may be obtained by sending a stamped addressed foolscap envelope to the Principal, to whom completed forms should be returned not later than two weeks after the appearance of this advertisement.

T. B. WHEELER,

Chief Education Officer.

929

NORTHAMPTONSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Chief Architectural Assistant (Grade A.P.T. VIII, salary scale £585-£760).

Candidates must have had professional and administrative experience in Local Government Service. They must be Associates of the R.I.B.A., and should be capable of controlling technical and administrative staff. Training at one of the recognized schools of architecture would be an asset.

The appointment will be determinable by three months' notice on either side, and will be subject to the provisions of the Local Government Superannuation Acts, and the selected candidate will be required to pass a medical examination before the appointment is confirmed.

Forms of application embodying further particulars of the appointment may be obtained from the County Architect, County Hall, Northampton, to whom applications, endorsed "Chief Architectural Assistant," accompanied by a copy of one recent testimonial, must be delivered not later than 25th June, 1948.

J. ALAN TURNER,

Clerk of the County Council.

County Hall, Northampton.

20th May, 1948.

920

CORNWALL COUNTY COUNCIL. APPOINTMENT OF COUNTY ARCHITECT.

Applications are invited from Registered Architects for the whole-time appointment of County Architect, at a salary of £1,560 a year, rising by one increment of £75 and another of £100 to a maximum of £1,735 a year. Travelling and subsistence allowances will be payable in accordance with the regulations of the Council.

The person appointed will be responsible for all the Council's architectural work, including education, police, fire and health services, together with the upkeep and maintenance of County-owned properties, and must be experienced in the administration of an Architect's Department.

The appointment will be terminable by three months' notice in writing on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937. The selected candidate will be required to pass a medical examination.

Forms of application, together with further particulars of the appointment, may be obtained from the undersigned, by whom applications must be received not later than Friday, 18th June, 1948.

E. T. VERGER,

Clerk of the Council.

County Hall, Truro.

3rd May, 1948.

894

ESSEX EDUCATION COMMITTEE. SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART, FOREST ROAD, WALTHAMSTOW, E.17.

The Governors invite applications from suitably qualified persons for the following posts:—
(a) Permanent full-time post of **STUDIO MASTER AND LECTURER IN ARCHITECTURAL DESIGN.** Ability to take classes in Colour and Technique of Presentation generally will be an advantage. The post is one of Special Responsibility for full-time courses of study for the Intermediate and Final Examinations of the Royal Institute of British Architects, for which examinations the College is approved as an R.I.B.A. Listed School for full-time preparation. The new salary scale, applicable from the 1st April, 1948, is £300-£15-£555, with the addition of a London allowance of £36 or £48, according to age, and allowance for full-time training up to £45 and an increase for graduate qualifications of £30. In fixing the basic salary up to twelve increments may be allowed for suitable professional experience. This post will also carry a special responsibility allowance of £50-£150 per annum.

(b) Part-time day **STUDIO MASTERS** IN ARCHITECTURAL DESIGN, in the Department of Architecture and Building of the College. The Department has a number of vacancies for part-time day teaching, half days to suit individual applicants, for studio instruction in Architectural Design for students preparing for the Intermediate and Final Examinations of the Royal Institute of British Architects. Any further information regarding these posts may be obtained from the Clerk to the Governors at the College.

Applications (no forms), giving full particulars of training, qualifications and experience, should be submitted to the Clerk to the Governors, at the College, within two weeks of the appearance of this advertisement.

B. E. LAWRENCE,

Chief Education Officer.

County Offices, Chelmsford. 953

BOROUGH OF LEYTON. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of an **ARCHITECTURAL ASSISTANT**, in the Department of the Borough Engineer and Surveyor. The salary will be £450 per annum, rising by annual increments of £15, to a maximum of £495 per annum (Grade III of the National Joint Council's Scheme of Conditions of Service for Local Authorities' Administrative, Professional, Technical and Clerical Services), plus London weighting.

Candidates should be members of the Royal Institute of British Architects, or hold other suitable qualifications. They must be good draughtsmen and possess a practical knowledge of building construction in connection with the maintenance of, and design and construction of, schools, and be able to prepare working and detail drawings. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the successful candidate satisfying the Medical Officer of Health as to his fitness, to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and to the general conditions laid down from time to time by the Council, including membership of a trade union.

Canvassing, directly or indirectly, will be a disqualification, and candidates must disclose in their application whether they are related to any member or senior officer of the Council. Applications, stating age, details of qualifications and experience, together with copies of three recent testimonials, are to be delivered to the Borough Engineer and Surveyor not later than Monday, 7th June, 1948, in a sealed envelope, and endorsed "Architectural Assistant."

D. J. OSBORNE,

Town Clerk.

Town Hall, Leyton, E.10. 916

CITY AND COUNTY OF KINGSTON-UPON- HULL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the Quantity Surveyor's Section:—

- (A) ASSISTANT QUANTITY SURVEYOR. A.P.T. Grade V (£520 to £570 per annum).
- (B) ASSISTANT QUANTITY SURVEYOR. A.P.T. Grade III (£450 to £495 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).

Candidates should have had considerable experience in a Quantity Surveyor's Office, and be efficient in "taking off" quantities for all trades, measuring up and preparing final accounts.

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, obtainable from the undersigned, should be returned complete on or before 7th June, 1948.

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

City Architect.

Guildhall, Kingston-upon-Hull. 930

CITY OF OXFORD.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned posts on the Temporary Staff of the City Architect's Department:—

- TWO ASSISTANT ARCHITECTS. Grade VA. A.P.T. Division. Salary, £550-£20-£610 per annum.

Experience in either Housing or Education work is required.

Applicants should be members of the R.I.B.A. Housing accommodation, if required, will be made available by the Council for successful applicants.

The appointments will be subject to one month's notice on either side, 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 E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect, Town Hall, Oxford.

Application forms must be returned to the City Architect, Town Hall, Oxford, not later than first post Friday, 4th June, 1948.

HARRY PLOWMAN,

Town Clerk.

Town Hall, Oxford. 915

COUNTY BOROUGH OF BURTON-UPON- TRENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above-mentioned appointment, in the Borough Surveyor's Department, at a salary of £480 per annum, in accordance with Grade IV, A.P.T. Division, and subject to the National Scheme of Conditions of Service relating to Local Government Officers.

A flat, with garden, will be made available to the selected candidate.

Persons studying for the R.I.B.A. Final Examination will be considered.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to determination by one month's written notice on either side. The successful candidate will be required to pass a medical examination by the Medical Officer of Health. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, must be delivered to me not later than 12th June, 1948.

H. BAILEY CHAPMAN,

Town Clerk.

Town Hall, Burton-upon-Trent. 950

CITY OF HEREFORD.

APPOINTMENT OF CHIEF ARCHITECTURAL AND PLANNING ASSISTANT.

Applications are invited for the above superannuable appointment, on the permanent staff of the City Surveyor. The appointment is subject to the Conditions of Service prescribed by the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, the salary being in accordance with Grade V thereof.

Applicants should hold recognized Architectural and Planning qualifications as prescribed in Appendix B to the Conditions of Service mentioned above.

Arrangements can be made for a Council House to be made available to the successful candidate at an economic rent.

Forms of application and particulars may be obtained from Mr. F. Margerison, A.M.I.C.E., City Surveyor, Town Hall, Hereford, to whom completed applications must be returned, in suitably endorsed envelopes, not later than Monday, the 21st June, 1948.

Canvassing disqualifies.

T. B. FELTHAM,

Town Clerk.

Town Hall, Hereford. 949

BOROUGH OF OLDBURY.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above permanent appointment, in the Borough Engineer and Surveyor's Department. Salary, Grade A.P.T., IV, National Consolidated Scale, £480-£525 per annum.

Candidates should have good architectural training and experience in Housing and other Municipal Building Works, and hold the recognized professional qualifications. The appointment will be subject to:—

- (1) To the conditions of the service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.
- (2) To the Local Government Superannuation Act, 1937.
- (3) To the successful candidate passing a medical examination.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, and disclosing whether, to their knowledge, they are related to any member of the Council or the holder of any senior office under the Council, should be delivered to the undersigned not later than the 12th June, 1948.

A. CULWICK,

Town Clerk.

Municipal Buildings, Oldbury. 947

FIFE COUNTY COUNCIL.

PLANNING DEPARTMENT.

PLANNING ASSISTANTS required. Salary £430, by increments of £20 to £530, plus war increase, at present £60 per annum. Preference will be given to candidates possessing any of the following qualifications:—
University Degree in Civil Engineering or Architecture.

A.M.I.C.E.

A.M.I.Mun.E.

P.A.S.I.

A.R.I.B.A.

A.M.T.P.I.

The appointments are on the permanent staff of the council, and will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937. Applications, with copies of recent testimonials, stating age and experience, should be lodged with the undersigned not later than 16th June, 1948. Canvassing will be a disqualification.

J. M. MITCHELL,

County Clerk.

County Buildings, Cupar-Fife.

18th May, 1948.

924

BURGH OF FALKIRK.

APPOINTMENT OF ARCHITECT.

Applications are invited from duly qualified Architects, not exceeding 45 years of age, having in addition a town planning qualification, for appointment as Architect of the local authority. Applicants should have had some years of experience after qualifying, and be conversant with current regulations and town planning provisions.

The salary will be at the rate of £700 annually, rising on satisfactory service by annual increments of £20 to £800, with additional cost-of-living bonus, at present £60 annually. The appointment will be subject to the Town Council's Superannuation Scheme and Conditions of Service, and the successful applicant will require to pass satisfactorily a medical examination.

Applications, stating age, qualifications, experience, past and present employment, and giving the names of three persons to whom reference may be made, should be lodged with the subscriber on or before 5th June.

ROBERT LYLE,

Town Clerk.

Town Clerk's Office, Falkirk.

19th May, 1948.

934

COUNTY BOROUGH OF DARLINGTON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

- (a) ASSISTANT ARCHITECT. Salary, Grade VI (£595-£660).
- (b) ASSISTANT ARCHITECT. Salary, Grade V (£520-£570).
- (c) ASSISTANT ARCHITECT. Salary, Grade IV (£480-£525).

These appointments offer scope for good experience on all types of Municipal work, including Housing and Education, and preference will be given to candidates with such experience and with recognized qualifications.

Applicants should state clearly which post they are applying for, and whether, in the event of their original application not being successful, they would consider accepting a post on a lower grade.

Applications, stating age, qualifications, present appointment and salary, and previous experience, accompanied by copies of three recent testimonials, should be delivered to E. A. Tornbohm, A.R.I.B.A., A.M.T.P.I., Borough Architect, Central Buildings, Darlington, not later than the 14th June, 1948.

954

Architectural Appointments Vacant

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

ASSISTANT required; capable draughtsman, working drawings, details, specifications, schedules and surveys. Apply Clark, 44, Great Russell Street, W.C.1. Phone: MUS. 4400 & 0500. 787

ARCHITECTURAL DETAILERS required for large power station buildings. Write, stating previous experience and salary required, to L. G. Mouchel & Partners, Ltd., 38, Victoria Street, Westminster, S.W.1. 815

ARCHITECTURAL ASSISTANT required; experience in Factory Work, Domestic Buildings, etc. Reply, with full particulars, to E. William Palmer & Partners, Chartered Architects, 8, The Town, Enfield, Middx. 831

ARCHITECTURAL ASSISTANT required to firm of Building Contractors in Sutton (Surrey) area, for preparation of Joinery details and general work. Write Box 245, c/o George Murray (Advertising), Ltd., 184, Strand, London, W.C.2. 867

ARCHITECTURAL ASSISTANT required by large Multiple Shop Company, London, W.C.; age between 25/30; R.I.B.A.; Intermediate standard or higher; knowledge of steel design essential and shop-fitting experience an advantage; must be good draughtsman, and able to work up designs and drawings from sketches, and to carry out surveys; permanent appointment; superannuation scheme. Write, in confidence, stating age, details of positions held, and salary required, Personnel Manager, Box 922.

ARCHITECTURAL ASSISTANT required in Westminster area; sound knowledge of design for working on large Industrial Projects desirable; salary will be based on successful applicant's ability and experience; the post has good prospects, and after a short period carries entry to staff pensions. Please state age, experience and qualifications to Box 932.

ARCHITECT, arriving in England 25th May, wishes to engage ASSISTANTS for his office in S. Rhodesia; applicants must be thoroughly experienced in design and construction. Write full particulars, Box 928.

WANTED, for Railway Civil Engineer's office in Glasgow. Temporary **ARCHITECTURAL ASSISTANT**; capable of preparing working drawings from rough sketches, estimating and supervising works in progress; salary according to qualifications and experience. Apply Box 926.

ARCHITECTURAL ASSISTANT required; fully qualified. Apply for appointment, enclosing full particulars, Wood & Kendrick & Reynolds, 57, Colmore Row, Birmingham, 3. 925

CHARTERED ARCHITECT, aged about 30 to 35, required as **SENIOR ASSISTANT** in private practice; able to work on own initiative and take responsibility; mainly ecclesiastical and agricultural buildings; good salary and prospects. Write, stating age, experience, and salary required, to Box 921.

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS required, preferably qualified. Apply Ernest Tew & Oliver, 7, Northumberland Buildings, Bath. 896

JUNIOR ARCHITECTURAL ASSISTANT or DRAUGHTSMAN required; some knowledge of quantities an advantage; salary £250-£300, according to age and experience. Write, giving full particulars, to G. Gerald G. Saunders, L.B.I.B.A., 51, Queen Street, Exeter. 897

STAFF Architect to London Transport company requires **ASSISTANT**; quick draughtsman, specifications, surveys; industrial experience preferred; salary £500. Box 905.

REQUIRED at London Head Office of a large Industrial Firm a fully qualified **ARCHITECT**, to take charge of their Construction Department, handling new building and maintenance work at their Factories; must be well experienced in structural steel and reinforced concrete design, and fully familiar with official regulations and licensing procedure; age 35-45; commencing salary £1,000 to £1,250, depending upon age, qualifications and experience. Box 913.

LONDON Architect requires **ARCHITECTURAL ASSISTANT**, with all-round experience, willing to take responsibility. Reply, stating age, training, experience, and salary required, to Frederick Cubitt, 430, Strand, London, W.C.2. 910

SENIOR ASSISTANT required in Architect's City office; interesting varied practice, primarily housing, licensed premises and laboratories; applicants to be A.R.I.B.A. by examination, with several years' good pre-war general office and practical experience, preferably in London; able to take responsibility; preference given to ex-Serviceman if otherwise suitable; 5-day working week; salary offered £500-£600, with profit-sharing bonus scheme. Stewart & Hendry, F./A.A.R.I.B.A., A.M.T.P.I., 90, Fenchurch Street, London, E.C.3. 917

ARCHITECTURAL ASSISTANT required; a competent draughtsman, working drawings, details and surveys. Apply Hiscock & Duncan Scott, High Street, Guildford. 942

ARCHITECTS' ASSISTANT required in Liverpool; capable of handling war damage reinstatement, settlement of accounts, surveys of properties, working drawings, specifications, on own initiative. Reply, stating age, qualifications, experience and salary required, to Box 943.

ARCHITECT required; experienced rural work, including Farm Buildings, Cottages, small Country Houses; office, North Herts; pension scheme. Box 944.

ASSISTANT ARCHITECT required, East London office; good draughtsman, with experience of industrial buildings; salary, £350-£400, according to ability. Box 945.

DRAUGHTSMAN required, with knowledge of general factory layout, and conversant with steam, water and electricity distribution, also foundation work; salary at A.S.E.D. rates; West End office; hours, 8.30 to 5; five-day week; occasional Saturdays. Box 946.

ARCHITECTURAL ASSISTANT required for Architect's Department of Estate Developers; must have experience in surveys, working drawings, industrial building and housing. Apply E. O'Sullivan, Ltd., St. Mary Cray, Orpington. 3737. 948

REQUIRED immediately by old-established Firm of Industrial Architects **TWO SENIOR ASSISTANTS** at £600 p.a. and **TWO JUNIOR ASSISTANTS** at £400 p.a. Box 952.

ARCHITECTURAL ASSISTANT required; salary, approximately £6 per week. Apply Frederick Gibberd, 35, Gordon Square, W.C.1. 951

Architectural Appointments Wanted

ARCHITECTURAL ASSISTANT (30), graduated at Liverpool, requires a job; pref. in London. Box 104.

QUALIFIED school-trained **ARCHITECTURAL DRAUGHTSMAN** requires post in Provincial office; good experience, especially domestic work; 8 years' experience, all working drawings, sketch plans, surveys, etc.; available immediately. Box 105.

ARCHITECT'S ASSISTANT and SECRETARY (Woman); Central London preferred. Box 107.

CHARTERED ARCHITECT (38), experienced in all classes of work, seeks responsible permanent post in charge of office; South-West or South England; salary required, £700 per annum. Box 108.

ARCHITECT'S ASSISTANT (24), single, good experience of plans, layouts, surveys and sketch designs for general work, 2 years R.E. surveyor, interested in interior fitting and decoration, desires post, at home or overseas. Box 110.

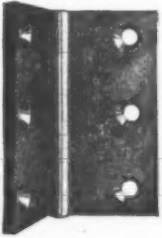
STUDENT (28), sitting Finals June, seeks employment in private practice; not in London; 2 years' office experience; 3 years University; references forwarded. Box 109.

Other Appointments Vacant

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

WANTED, immediately, **SENIOR ASSISTANT EDITOR**, for architectural journal; qualifications required; organizing ability, knowledge of architecture and the architectural profession, journalistic experience, and knowledge of magazine production. Box 90.

SHORTHAND-TYPIST required by London Firm of Architects and Consulting Engineers; progressive post. Write, stating age, experience, and salary required. Box 957.



EASY DOES IT

FIX BALDWIN'S

Cast iron butt hinges

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

STEEL FRAMED BUILDINGS
AND ALL TYPES OF
RIVETED & WELDED
STRUCTURAL WORK



BONE, CONNELL & CO. LTD.
NETHERTON WORKS, WISHAW, LANARKSHIRE.
TELEPHONE WISHAW 543-4. TELEGRAMS: "STRUCTURAL WISHAW."

Glasgow Office: 219, St. Vincent St., Glasgow, C2. Phone: Central 8111.
London Office: 529, Grand Buildings, Trafalgar Square, London.
Phone: Whitehall 4272.

... for all electrical installations

F. H. Wheeler
& CO., LTD.

Head Office: 39 Victoria Street, London, S.W.1. Tel: ABBey 8080 (18 Lines)

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

ESTIMATOR required, with experience of large Building and Public Works Contracts, to assist chief estimator to firm of Contractors in Sutton (Surrey) area. Write Box 244, c/o George Murray (Advertising), Ltd., 184, Strand, London, W.C.2. 865

ASSISTANT required to firm of Building Contractors in Sutton (Surrey) area, to deal with enquiries in connection with tendering; must be a capable typist and have a knowledge of the trade. Write Box 245, c/o George Murray (Advertising), Ltd., 184, Strand, London, W.C.2. 866

THE Bath and Wells Diocesan Dilapidations Board require immediately full-time SURVEYOR, for appointment under the Ecclesiastical Dilapidations Measure; applicants must be prepared to reside near Wells, must possess a car, and be a communicant member of the Church of England; commencing salary £700 per annum, and car allowance; office accommodation and staff provided. Full details to be sent to the Secretary, Diocesan Office, The Deanery, Wells, Somerset. 937

RICHARD COSTAIN, LTD. require the services of a CHIEF ESTIMATOR, for service in West Africa. Wide experience of all types of Building essential. Railway experience of decided value. Only applicants who have been employed with large Companies of repute need apply. Contracts are likely to spread over a large area. Post is permanent. Good salary payable, according to experience. Free passage out and return. Free furnished accommodation and medical attention. Kit allowance. Reply in writing to Personnel Manager, Richard Costain, Ltd., Dolphin Square, London, S.W.1. 902

Services Offered

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

GENTLEMAN, with extensive experience in the Building Industry, and very large personal connection with Architects, Surveyors and Local Authorities, seeks appointment with progressive company desiring experienced representation. Box 54.

QUALIFIED and experienced Architect can undertake salaried post or (preferably) part-time work in own office for period July-September; London or South-East. Box 805.

COMPANY MANAGER, specialist all branches spraying, cement, plaster, industrial and decorative work, desires change; capable estimator, interim and final accounts; extensive contacts in architectural profession and building and decorative trade. Box 106.

SECRETARY—Experienced in Architects' accounting, costing, fee accounts, etc.; good shorthand and typing speeds; capable of taking full responsibility for business side of an Architect's practice. Box 923.

ARCHITECTURAL ASSISTANT requires part-time work; tracings, working drawings, surveys, levelling, etc.; quick, neat draughtsman. 14, Lewis Buildings, Fulham, S.W.6. 898

Property for Investment

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

RAVENS COURT PARK, W.6.—Twelve excellent self-contained Flats, close Tube Station and off King Street; built in two detached blocks on three floors; each Flat affords 3/4 rooms, bathroom and kitchenette; nett yield approx. £700 p.a.; price £9,000, freehold; inspection recommended. Richard Powell & Partners, 23, Coleman Street, E.C.2. Tele.: MONARCH 5975. 940

For Sale

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

RED Sable Water Colour Brushes, Nos. 0-6; 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. 726

FOR SALE—Photostat Copying Machine; model 2, type P, No. B.166; complete with camera-back projector, rear illumination cabinet, one 40 in. by 30 in. easel and set of rails, 10 ft. 6 in.—S. P. HAMILL, LTD., 7/8, Lansdown Place, Cheltenham (Phone 4040). 965

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 2061.

NEWER HEAT DISPLAY, Building Centre, Conduit Street, W.1. New solid-fuel appliances. New heating methods. New standard of home comfort. Open 10-5. Organised by the Coal Utilisation Joint Council. 730

SOUTH AFRICA—The Builder's paradise, liner and rail, £100; no waiting. Write O.P.S.A. Club, Vervan, Cornwall, stating desired date. 1060

BRICK Panels and Concrete Posts, suitable for boundary walls, buildings, etc., are now available; manufactured to advanced pre-fabricated design; enquiries are welcomed from municipalities, public works, building contractors, and industrial manufacturers. Write Box 938.

WHERE the Atlantic murmurs... Holiday this year at Newquay's famous Hotel Marina (licensed). Surf bathing, sun lounge, ballroom. Good food, friendly service, reasonable charges. Telephone Newquay 3012 to-day for booking. Box 872.

CENTRAL HEATING OIL BURNERS—Insist on the British-made Parwinc—no stoking, clean, trouble free; no waiting for coal or coke deliveries; no embargo now. Write at once to Parker, Winder & Achurch, Ltd., Makers, 80, Broad Street, Birmingham, 1.

ISOMETRIC, Logarithmic and Graph Sheets. Write for a "Chartwell" List. W. Heffer & Sons, Ltd., Dept. S.H., Cambridge.

Educational Announcements

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

R.I.B.A. AND T.P.I. EXAMINATIONS—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. 212, Euston Road, N.W.1. Tel.: EUSTON 7760.

R.I.B.A. INTER, FINAL & SPECIAL FINAL.

Postal Courses in all subjects of the examination syllabus (including Professional Practice) are conducted by THE ELLIS SCHOOLS OF BUILDING
Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.
10, ALBANY HOUSE, WORCESTER.

MODELS

ESTAB.
1883.
BY

John B. THORP

FOR 98 GRAY'S INN ROAD, W.C.1
TOWN PLANNING PUBLIC BUILDINGS
ESTATES and INTERIORS
TELEPHONE: HOLBORN 1011

FOR SATISFACTION—



**SAND
FACED
BRICKS**

Manufactured by

THE HAMMILL BRICK CO. LTD
EASTRY · SANDWICH · KENT

Telephone: EASTRY 247 FOR SAMPLES

LIFTS

by **MORRIS**

Herbert Morris Ltd

Loughborough

Engineering branches in London, Glasgow, Manchester, Birmingham, Leeds, Sheffield, Newcastle, Cardiff, Bristol, Dundee, Liverpool, Nottingham, Bury St. Edmunds, Belfast

lxix

Pressed Steel Tanks by

**BRAITHWAITE
& CO ENGINEERS LTD**

KINGS HOUSE, HAYMARKET, S.W.1
Telephone: WHITBELL 3993 Telegrams: Bromkirk-Phone

STEELWORK BY

R.W. SHARMAN LTD.

SWAN WORKS, HANWORTH, MIDDX

Phones: Feltham 3007. Sunbury 3210. Grams: "Sharmar," Feltham

Phone: PERIVALE 7251

for reliable and prompt
Electrical Installations

Specifications and complete
schemes gladly submitted

SERVICE ELECTRIC CO. LTD
WATER ROAD, ALPERTON, MIDDLESEX



SIGNS

★Built and erected to
Architects' drawings

H. L. HINCKS The Largest Signmakers
in the Midlands.

175 Bromsgrove Street, Birmingham, 5.
Phone: MID. 2037

INFORMATION SHEET

29.G1

**MAXHEAT
TUBULAR
HEATERS**

Wardle

CATALOGUES ALSO
AVAILABLE.

Obtainable from
The Wardle Engineering Co., Ltd., Old Trafford, Manchester 16
din. WA.8

GEORGE ELLISON

LIMITED

PERRY BARR BIRMINGHAM 22B

Makers of reliable electric switchgear for
mains supply and electric motor control

**MUMFORD BAILEY
& PRESTON LTD**

AIR CONDITIONING & HEATING

HOT & COLD WATER SERVICES

SANITARY ENGINEERING ETC.

NEWCASTLE HOUSE · CLERKENWELL CLOSE · LONDON · E.C.1

Phone: CLERKENWELL 0344 Branches at Southampton & Dublin

PAGE	
xlvii	
xxxi	
liv	
ii	
li	
xxxvii	
xxix	
xliii	
xvi	
vii	
xliv	
vi	
lv	
vii, lix	
lxi	
xlviii	
xliii	
lxix	
lxiii	
lxix	
li	
lx	
lix	
xxv	
lviii	
xxx	
li	
lxix	
lxiii	
xxxviii	
xlviii	
ix	
xii	
liv	
lxix	
lxviii	
x	
xxvii	
li	

The finished article...

*speaks for the craftsmen
behind it...*

lxx

OR
vii
xi
liv
ii
li
cvi
cix
ciii
vii
vii
liv
vi
lv
lix
lxi
—
riii
liiii
cix
ciii
cix
—
ii
lx
lix
cvi
riii
xx
ii
cix
ciii
riii
riii
ix
xii
liv
lix
riii
x
vii
ii

specify



ORIGINAL JOINTLESS FLOORING

for

HOUSES • HOSPITALS • OFFICES
AND FACTORIES

Warm • Hygienic • Dustless
Fire and Vermin Proof

Send for Samples and Prices

THE BRITISH DOLOMENT CO. (1938) LTD.
FLOOR SPECIALISTS

VIC. 2677 and 2734
147, VICTORIA STREET,
LONDON, S.W.1

Edgbaston 1178
238/239 Monument Rd., Edgbaston,
BIRMINGHAM



20%

increase in house space by installing a LOFT LADDER

Every new building, every repaired or converted building should be utilised to its fullest extent and all space made available for use. Don't let the loft space be wasted.

Our information sheets show in detail how this space may be made available, both in new work and conversions.

Write for full particulars of construction, balancing units, finish, erection and prices of the various types.



LOFT LADDERS LTD

BROADWAY WORKS • BROMLEY • KENT
RAVENSBORNE 2624

INFORMATION SHEETS
free on request



COOLING TOWERS

RIGHT
ON THE JOB

MILLS SCAFFOLD CO. LTD., Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W. 6. Tel.: RIVerside 5026, 9

