

ARTS DEPT.

No. 200 Volume 116

The Architects' JOURNAL for October 30, 1952

THE ARCHITECTS' JOURNAL

THE RECONSTRUCTION OF PORTSMOUTH

PUBLIC LIBRARY

NOV 15 1952

DETROIT



STEEL



STRENGTH
SECURITY

B.C.S.A.

*The steelwork for the
Royal Sailors' Home Club,
Portsmouth*

Architects: A. E. Cogswell & Son

BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION, ARTILLERY HOUSE, WESTMINSTER, S.W.1

Price 1s. 0d. Registered as a Newspaper.

Permanent ventilation with locked window security!



THE GREENWOOD-AIRVAC "PERMAVENT"

HORIZONTAL WINDOW VENTILATOR OFFERS THESE UNIQUE FEATURES

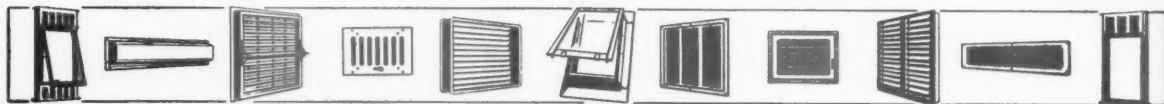
- * COMPLETELY WEATHERPROOF
- * SUPERSEDES UNSIGHTLY AIRBRICKS
- * MADE TO FIT ANY SIZE OR TYPE OF WINDOW
- * CAN BE FITTED TO WOOD OR METAL FRAMES
- * SUITABLE FOR INTERNAL OR EXTERNAL GLAZING

EXTENSIVELY APPROVED AND SPECIFIED BY ARCHITECTS
AND ENGINEERS FOR USE IN SCHOOLS, HOSPITALS,
FACORIES AND HOUSING SCHEMES

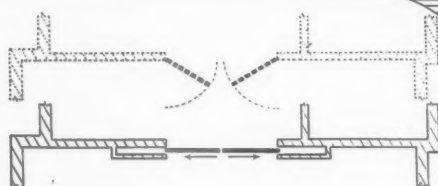


Specialists in the design of
ventilation equipment for
buildings, vehicles and vessels

GREENWOOD'S AND AIRVAC
Ventilating Company Limited
BEACON HOUSE CHANCERY BUILDINGS KING'S WAY LONDON W.C.2



"ASIDE" PANTHER THREE
READ THE SLIDING DOOR. Ed. 25 Page 108



True Plans of a Conversion from two
swing doors to a pair of bi-parting
sliding doors gliding into cavity walls.
Full constructional details will be
found in "The Sliding Door" edition
25 Section 4 Pages 98/108.

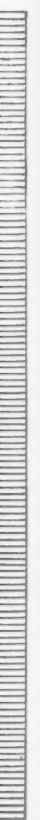
"HILLALDAM" SLIDING DOOR GEAR

E. HILL ALDAM & COMPANY LIMITED
BRITANNIC WORKS, LONDON, S.W. 18



C

8-2

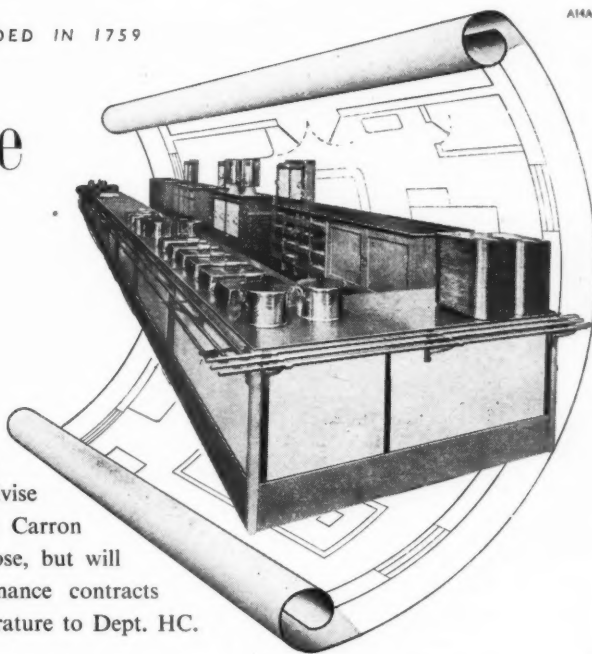


CARRON

THE ROYAL CHARTER COMPANY FOUNDED IN 1759

Carron will plan the complete kitchen layout for you

Carron heavy duty cooking equipment is produced to run on any type of solid fuel, steam, gas, oil or electricity. Carron experts are in a position to advise on the most suitable installation. Not only will Carron supply the best cooking equipment for your purpose, but will plan the complete installation. Regular maintenance contracts can be arranged. Write for further details and literature to Dept. HC.

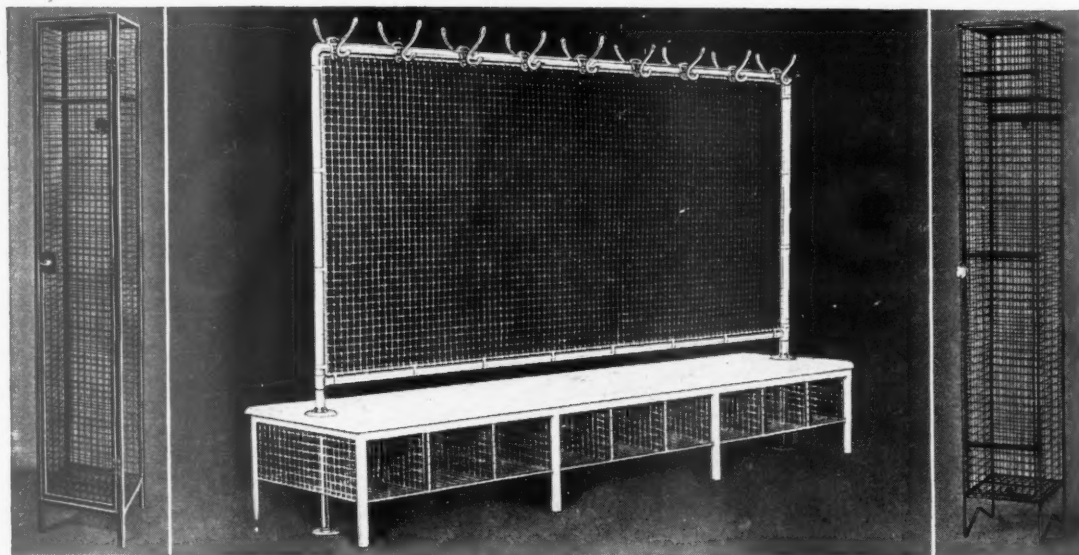


Carron

HEAVY DUTY COOKING EQUIPMENT Coal · Coke · Steam · Oil · Gas · Electricity

CARRON COMPANY · CARRON · FALKIRK · STIRLINGSHIRE and London · Manchester · Liverpool · Newcastle · Glasgow

CLOAKROOM FITTINGS AND WIREWORK LOCKERS



Harvey Wirework Clothes Lockers are strong and durable, and economise space. Available in single units or nests of 2, 3, 4, or 5 Lockers.

Harvey Cloakroom Fittings have been designed to meet the requirements of all modern cloakrooms. The double-sided island stack illustrated above is approx. 5' 6" high and is constructed of tubular framework enclosing a wirework panel. The wooden seat is supported by an angle frame and tee bar legs, incorporating boot and shoe compartments approximately 12" wide x 9" high x 12" from front to back.

Send for List A.J. 830

Sizes: 72" high x 12" wide x 12" deep, 72" high x 10" wide x 18" deep. Other types of Lockers to suit special requirements can be made to order.

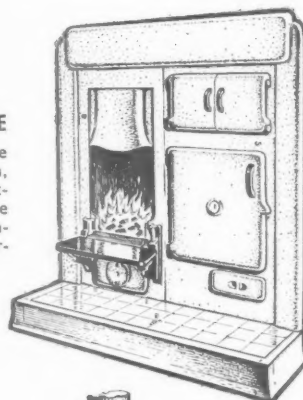
G. A. Harvey & Co. (London) Ltd. Harvey Woolwich Road, London S.E.7

THE ECONOMICAL

FOUR

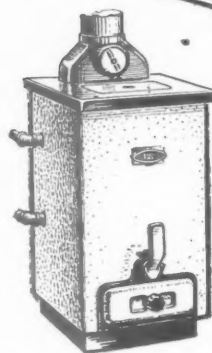
DERWENT COMBINATION GRATE

Efficient and economical fire provides heat for a large oven, fast-boiling hotplate with extension hob; hot closet. Ample domestic hot water and controlled room warmth. Over-night burning.



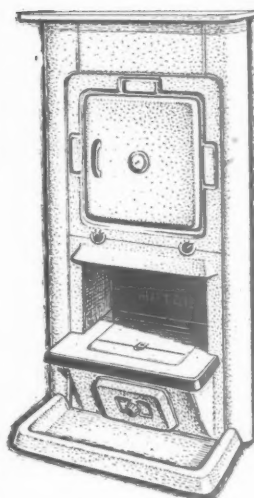
BOILERS B33 and B22

Waterway encircles fire and gives high output per square foot of heating surface. Bright, clean finish, minimum cleaning. B33 has steel water jacket, B.22 cast-iron.



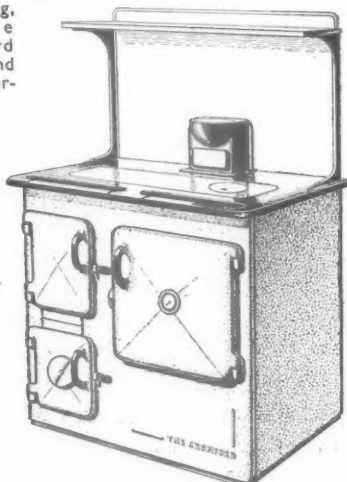
MILFORD oven-over Fire COMBINATION GRATE

At last, the perfect oven-over-fire grate. For space heating, water heating, cooking. Has withstood every test. Boiling space for five saucepans. Flue cleaning without removing ovens.



CROMFORD COOKER

The perfect all-purpose stove — Cooking, Water heating, Space heating. The economical Cromford burns any solid fuel and can be regulated for over-night slow burning.



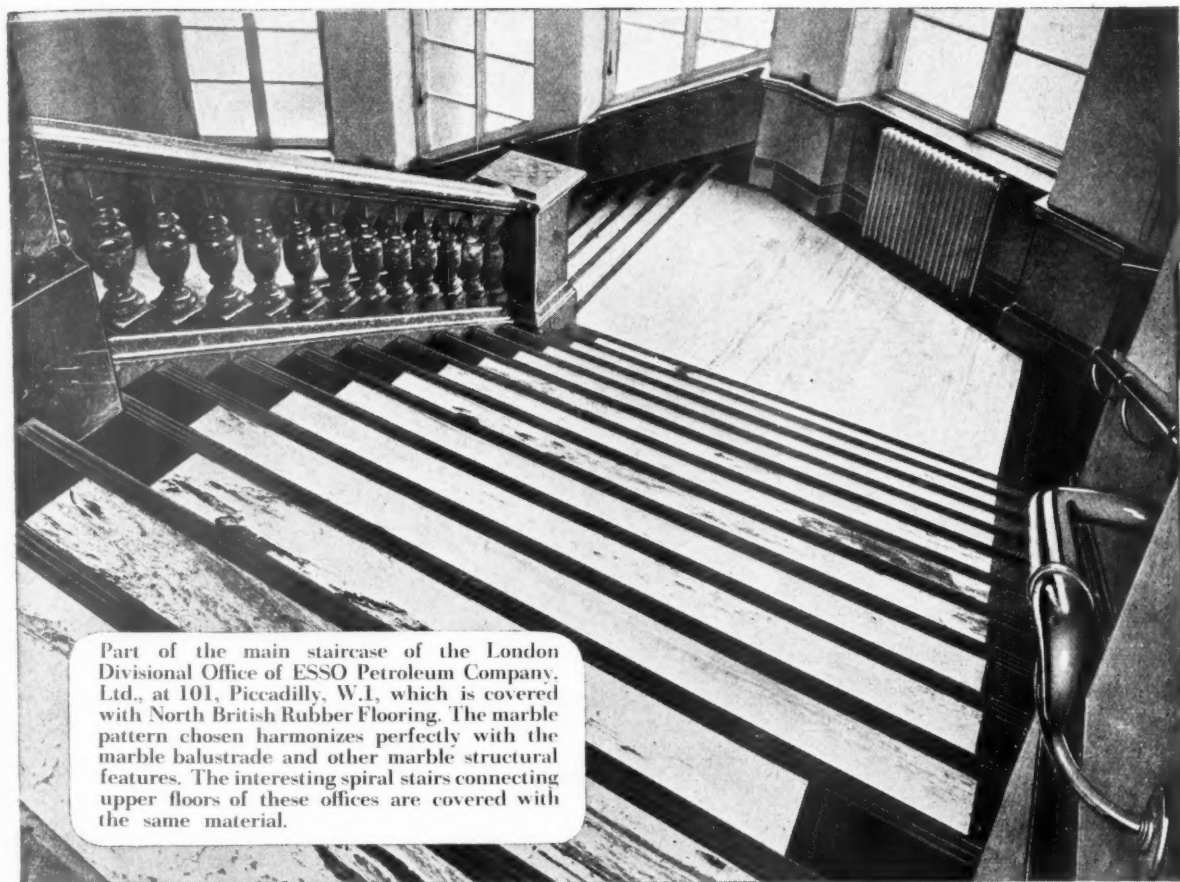
EACH MODEL APPROVED BY
MINISTRY OF FUEL AND POWER

GLOW-WORM

GLOW-WORM BOILERS LTD • DERWENT FOUNDRY • MILFORD • CROMFORD

London Showrooms: 22-24 Buckingham Palace Road, London, W.1

★ *The stairs had to be non-slip and safe . . .*



Part of the main staircase of the London Divisional Office of ESSO Petroleum Company, Ltd., at 101, Piccadilly, W.1, which is covered with North British Rubber Flooring. The marble pattern chosen harmonizes perfectly with the marble balustrade and other marble structural features. The interesting spiral stairs connecting upper floors of these offices are covered with the same material.

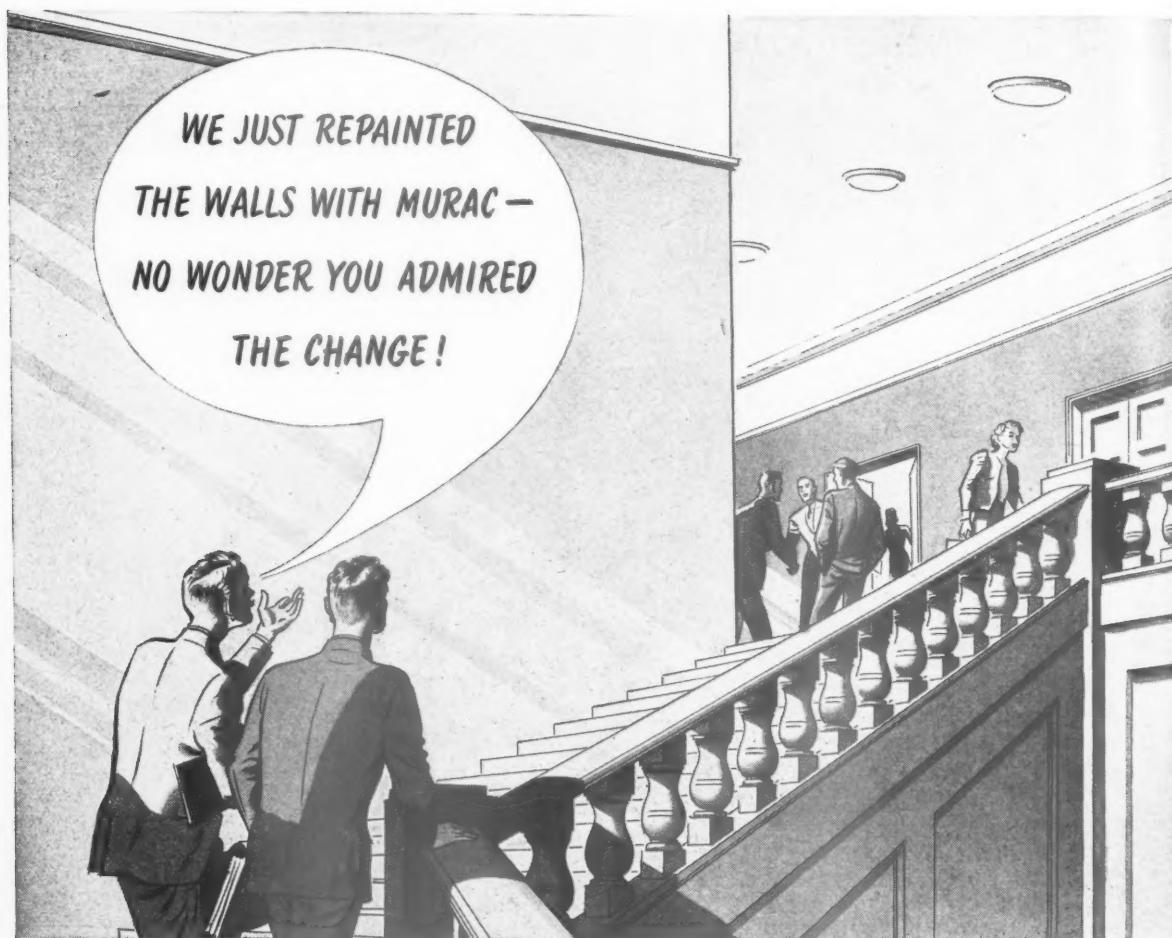
. . . and to harmonize with handsome marble structural features

SO

NORTH BRITISH RUBBER FLOORING *was specified*

In thousands of Britain's largest buildings, our rubber flooring has
been laid. We undertake the laying, if desired.

THE NORTH BRITISH RUBBER COMPANY LIMITED — EDINBURGH AND LONDON



IN hotels, flats, private homes and offices; in hospitals, schools, public and factory buildings, MURAC gives a finish to walls that is quickly and economically applied, beautiful to see, easy to clean and *long lasting*!

MURAC SUPERSEDES DISTEMPER & WATER PAINT

Here's a matt oil paint as easy to put on as distemper, using a 6" flat wall brush. What a saving in labour costs alone! MURAC dries with a beautiful dull sheen, and its surface is so hard that not only can it be rubbed and scrubbed again and again, but it is also hygienic and impenetrable to dirt. MURAC is long-lasting, won't powder or flake, and comes in eighteen basic colours, easily blended to any shade you could want. It is made in the Brolac works by John Hall & Sons Ltd., who will gladly send you a **free colour scheme booklet** if you will write to them at the address below.

**YOU CAN
WASH IT, RUB IT, SCRUB IT!**

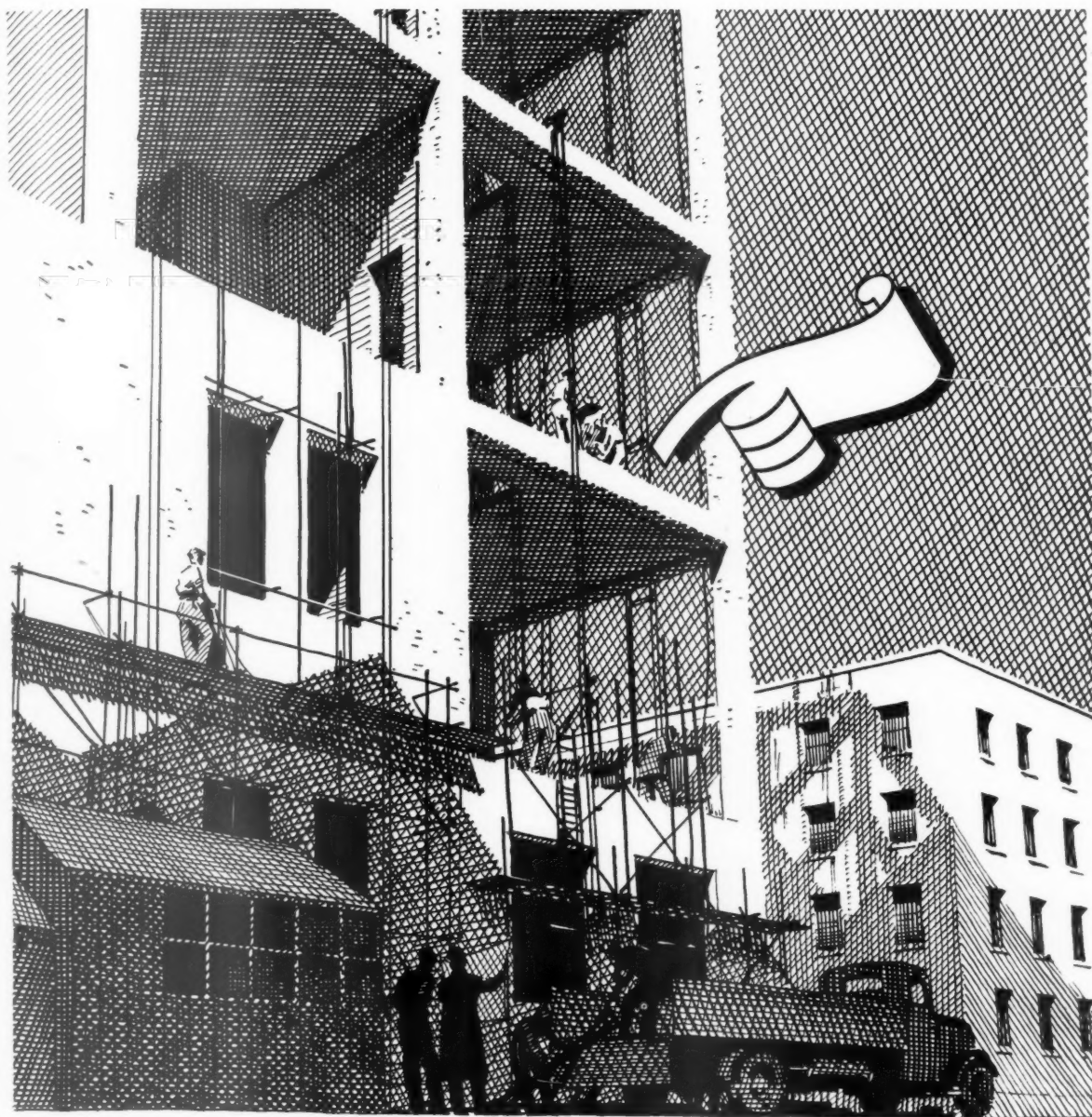


MURAC

MATT OIL FINISH FOR WALLS

JOHN HALL & SONS (BRISTOL & LONDON) LIMITED, HENGROVE, BRISTOL, 4





Wherever from cleared site rise the bones of new building, small or great, there are uses in plenty ahead for IBECO. In foundations, floors, walls, roof, IBECO's tough impermeable texture has a score of applications in controlling the penetration of moisture, draught and sound . . . The times demand economy; IBECO is inexpensive. Work today must go fast; IBECO handles easily, neatly, time-savingly. Imported materials are scarce; IBECO is made in Britain . . . Modern building has no better friend.

IBECO



COMPLETELY WATERPROOF BUILDING PAPER

MADE BY C. DAVIDSON & SONS LTD • MUGIEMOSS • ABERDEENSHIRE



HOLLIS *floorings*

A TRADITION OF SERVICE . . .

Despite the difficulties of this post-war era, HOLLIS BROS LTD., in their capacity as direct importers, manufacturers, and contractors, are fully maintaining their traditional service in the installation of wood floors in numerous important buildings under prominent Architects.

HOLLIS BROS LTD.

HULL, CRAVEN HALL : LONDON, 150 HOLBORN E.C.1
and LEICESTER, ULVERSCROFT RD. : BIRMINGHAM, CAMBRIDGE ST., 1

CANTEEN & FIRST-AID UNIT

MESSRS. MANDER BROS. LTD.
WOLVERHAMPTON



THE ARCHITECT :
S. N. Cooke, F.R.I.B.A. & Partners

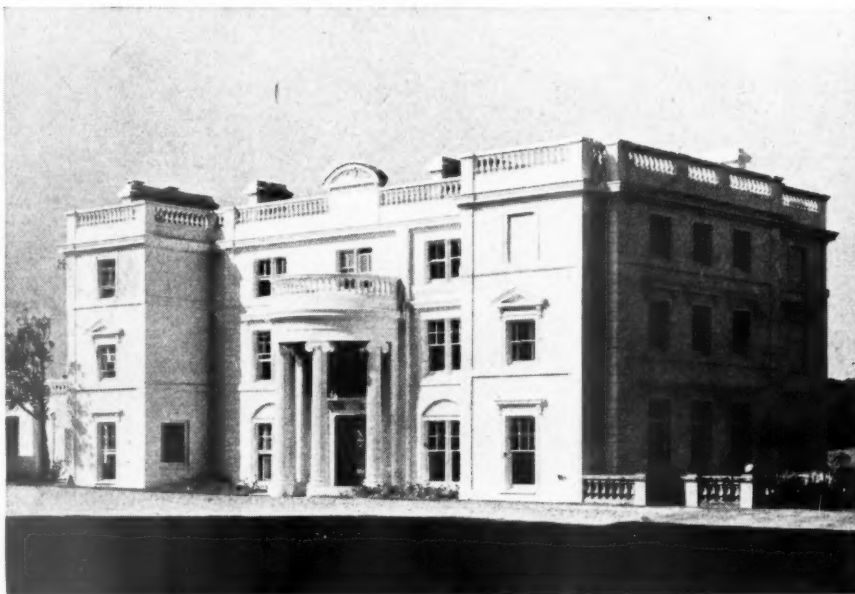
THE BUILDER :
A. F. R. Godfrey Ltd., Birmingham

THE SPECIFICATION :
1" nom. East African Missanda
Wood Block Flooring

WOOD BLOCK, HARDWOOD STRIP AND PARQUET FLOORING

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

THE SNOWCEM CASE BOOK



FULMER HALL, BUCKS

The building depicted above is Fulmer Hall, one of the research laboratories of Monsanto Chemicals, Ltd.

The surface of the building is a previously decorated cement rendering. After being made good it was given a priming coat of Cemprover No. 1 mixed with equal parts of water.

Two coats of Snowcem/Cemprover No. 1 were brush applied. To obtain the colour desired, equal parts of White and Cream Snowcem were mixed together.

The Architects were Waterhouse & Ripley, London, W.C.1.

The Decorators were T. & H. Kenyon & Son Ltd., London, W.1.

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

CEMPROVER No. 1 is a liquid for use in conjunction with Snowcem, enabling it to be applied, under certain conditions, to some surfaces which would not otherwise be suitable for the application of Snowcem. Our Technical and Advisory Department is at your service.

SNOWCEM WATERPROOF CEMENT PAINT
DECORATES and PROTECTS at low cost



THE CEMENT MARKETING COMPANY LIMITED

Portland House, Tothill Street, London, S.W.1

or G. & T. EARLE LTD., Cement Manufacturers, Hull

THE SOUTH WALES PORTLAND CEMENT & LIME CO. LTD., Penarth, Glam.

T3552R



THREE "GYPROC" PLASTERS

were used in this building

ST. BRIDGET'S HOUSE, BRIDEWELL PLACE, E.C.4

Architects: Trehearne and Norman, Preston and Partners, F/A.R.I.B.A.

General Contractors and Building Owners: Trollope and Colls Ltd.

Plastering Contractors: Eaton Contractors Ltd.

The three "GYPROC" Plasters used were :—

"PARISTONE" Metal Lathing Plaster.

"PARISTONE" Wall Finishing Plaster.

"CRETESTONE" Concrete Bonding Plaster.

All these plasters are retarded hemihydrate gypsum plasters conforming to B.S. 1191; 1944

Makers of PARISTONE Browning Plaster (Haird, Unhaird and Metal Lathing Grades), PARISTONE Wall Finishing Plaster, CRESTSTONE Concrete Bonding Plaster, GYPTONE Board Finishing Plaster, ZONAPLAX Vermiculite Insulating Plaster (Undercoat and Finishing Grades).

GYPROC PRODUCTS LIMITED

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

CP3

MONOCHROME



...the NEW *Accotile** pattern

Accotile, the thermoplastic tile-flooring made by Armstrong Cork Company Limited, is now available in a new pattern—MONOCHROME—and the six British Colour Council shades, shown here: CORAL BEIGE (A), HARVEST GOLD (B), GEORGIAN GREEN (C), CARNELIAN RED (D), FRENCH TURQUOISE (E) and SAGE GREY (F).

Differing in colour and pattern from both plain and marbled Accotile, each Monochrome tile is a blend of various shades of a given colour. With this addition to the Accotile range an almost countless variety of attractive floor designs is possible for buildings of every description. MONOCHROME tiles can be combined with the standard range.

Like all Accotile, the new MONOCHROME pattern tiles are easily cleaned by washing with water and can be polished if required. The new tiles are available in the standard sizes 12" x 12" and 9" x 9" and in two thicknesses $\frac{1}{8}$ " and $\frac{3}{16}$ ". Write for Publication 300B, which gives further information on MONOCHROME.

ARMSTRONG CORK COMPANY LIMITED

London: Flooring Dept., Bush House, Aldwych, W.C.2. Tel: Chancery 6281.

Manchester: Royal Exchange Building, Market Street. Tel: Deansgate 7311-2.

Birmingham: Westminster Chambers, 93a Corporation Street. Tel: Central 1271.

Glasgow: 5 Oswald Street, C.1. Tel: Central 5703.

Dublin: 54 Middle Abbey Street. Tel: 54901.

* British Registered Trade Mark 663096. Armstrong Cork Company Ltd., Registered Users

Designed for Harmony with Safety

Ferodo Stairtreads are as safe as science can make them. Gleaming aluminium nosing outlines each step . . . inlaid Ferodo material provides a firm, non-slip grip for every type of footwear. But the superiority of these hard-wearing Stairtreads doesn't end there! Ferodo designers have carefully chosen a range of colours that will harmonise with any flooring scheme.

This ensures that Ferodo Stairtreads will merge tastefully into your overall colour plan, giving lasting safety without disturbing the elegance of your design.

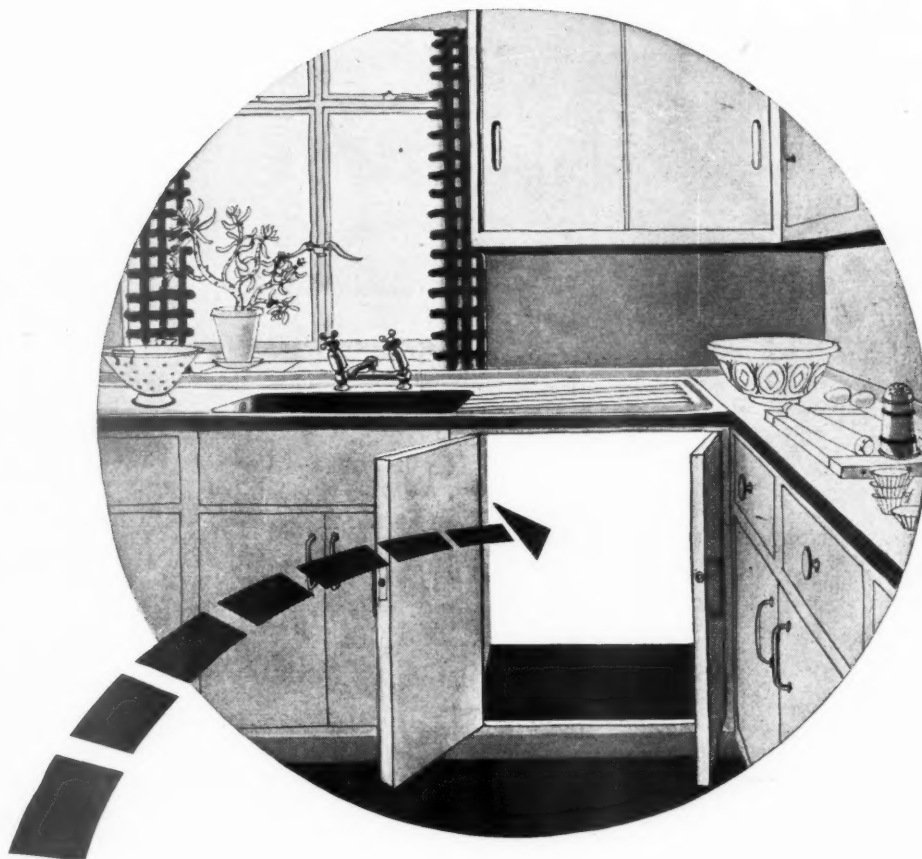
Send for Publication 732 containing full information.



Ferodo Stairtreads SM 50 (TRI) fitted to granolithic stairs at Messrs. N. Corah & Sons, Ltd., works at Leicester. Architects: Symington, Prince & Pike, Leicester. Contractors: W. Blackburn & Sons Ltd., Leicester.

FERODO STAIRTREADS

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



The water heater designed to go under the draining board

for kitchens where every foot of space must serve a purpose

THIRTEEN YEARS AGO, Sadia made a great contribution to the planning of small kitchens. They designed a compact electric water heater 33" high x 20" diameter to fit *under the draining board*. This position, because it is low and inconvenient for storing, had hitherto been wasted in most kitchens. With a Sadia type UDB electric water heater tucked away in the space, all kitchen walls are left free for cupboards and shelves.

The modern Sadia type UDB incorporates many refinements. It is economical to run and conserves electricity. A 500 watt thermostatically controlled unit constantly supplies small quantities of hot water. When larger quantities are required an additional unit of 2500 watts is easily switched on. Heat wastage is kept at an absolute minimum—while the nearness of the kitchen sink prevents pipe losses.

The original design of the Sadia type UDB is now accepted practice. After 29 years of progressive leadership in electric water heating, Sadia still leads the field in modern design, quality and performance.

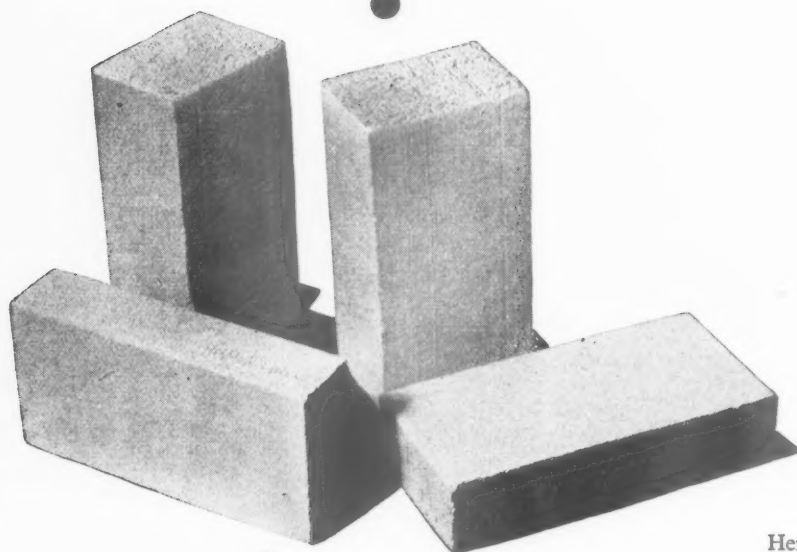
The Sadia type UDB has

- ★ Two thermostatically-controlled heating elements. ★ A copper tank, twice tested to a pressure of 100 lbs. per sq. inch.
- ★ Cork insulation—all heat remains in the water. ★ Thermostatic control at 175°.

Sadia Works, Rowdell Road, Northolt, Middlesex. Scottish Agents: W. Brown & Co. (Engineers) Ltd., 89, Douglas St., Glasgow, C.2. Manufactured in South Africa by Sadia Water Heaters (Pty.) Ltd., 3-5 Newton St., Village Main, Johannesburg

SADIA
HOT WATER BY
ELECTRICITY

The efficient, economical flue lining



Here is the new Kimolo technique
that has made firebrick-and-cavity construction
obsolete. Kimolo Insulating Bricks and Slabs can be safely built in
with the structural brickwork, saving in construction and,
at the same time, improving insulation, saving heat,
saving fuel and saving money.

Kimolo

(M O L E R)

INSULATING BRICKS & SLABS

*Let us send you
our Kimolo
Technical Brochure
with full data
on this improved
technique.*

CELLACTITE & BRITISH URALITE LTD.

Cellactite House, Whitehall Place, Gravesend, Kent

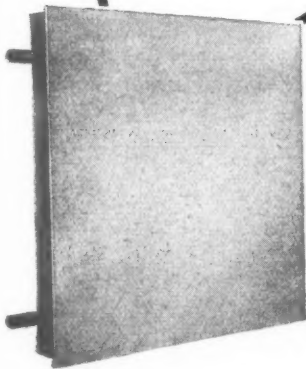
Telephone: Gravesend 4911 (6 lines)

Telegrams: Cellactite, Gravesend.

Works: HIGHAM, KENT

CELLACTITE BUILDING PRODUCTS

TAS/CL.424



Sulzer Radiant Panel Heating in the
Casting Dressing Shops of
Messrs. Vickers Armstrong Limited, Naval
Construction Works, Barrow-in-Furness.

SULZER

HIGH TEMPERATURE WATER

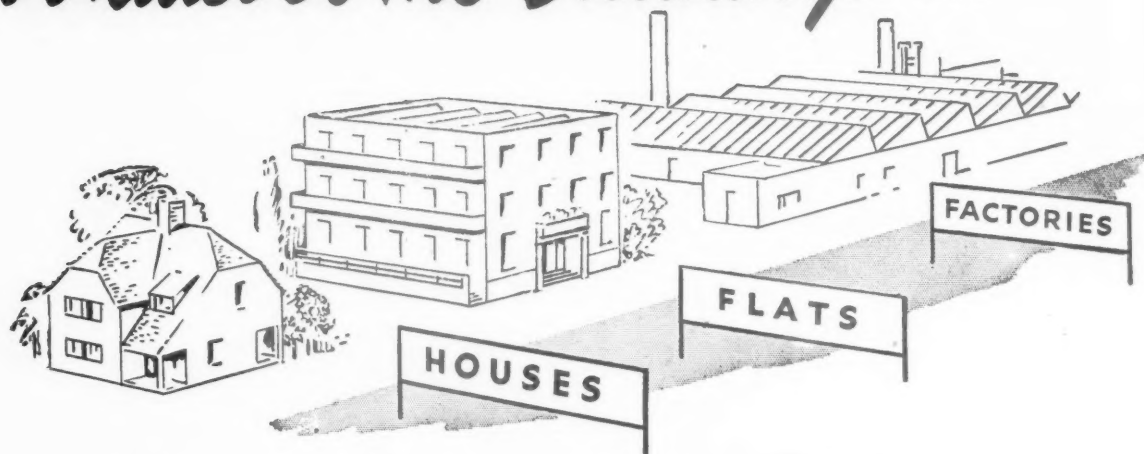
RADIANT PANEL HEATING

INDUSTRIAL HEATING OF ALL DESCRIPTIONS

SULZER BROS (LONDON) LTD, 31, BEDFORD SQUARE, LONDON, W.C.1

SULZER BROTHERS LIMITED HAVE OFFICES AT:— WINTERTHUR — PARIS — NEW YORK — MADRID — CAIRO — RIO DE JANEIRO — BUENOS AIRES — SHANGHAI — KOBE.
Agencies at:— BRUSSELS — MILAN — AMSTERDAM — LISBON — COPENHAGEN — OSLO — STOCKHOLM — HELSINKI — ATHENS — ISTANBUL — ALGIERS — JOHANNESBURG — HAIFA — BOMBAY
KARACHI — COLOMBO — SINGAPORE — BANGKOK — MANILA — MONTREAL — MEXICO CITY — BOGOTA — CARACAS — SANTIAGO (CHILE) — LIMA — LA PAZ — SYDNEY — MELBOURNE — WELLINGTON

Whatever the Buildings ...



Its a Specialists Job

- ★ WATERPROOFING
- ★ HARDENING
- ★ DUSTPROOFING
- ★ OIL PROOFING
- ★ COLOURING

Cement and Concrete

“SEALOCRETE”

“SEALANTONE”

“SEALANTEX”

ARE “SPECIALITY” PRODUCTS SOLELY MANUFACTURED FOR CEMENT AND CONCRETE WORK

FOR ADVICE AND SERVICE WITH SALES, WRITE

SEALOCRETE PRODUCTS LTD

Atlantic Works · Hythe Road · London, N.W.10 · Tel. LADbroke 0015-6-7 · Grams. “Exploiture,” Wesphone, London



Houses in Merton Village, Ford, Lancs. Architect: Felix Holt, A.R.I.B.A.

**A
BRICK
EXTERIOR**
takes care
of itself



Houses at Bury St. Edmunds. Architects: Messrs. Mitchell & Weston, F.F.R.I.B.A.

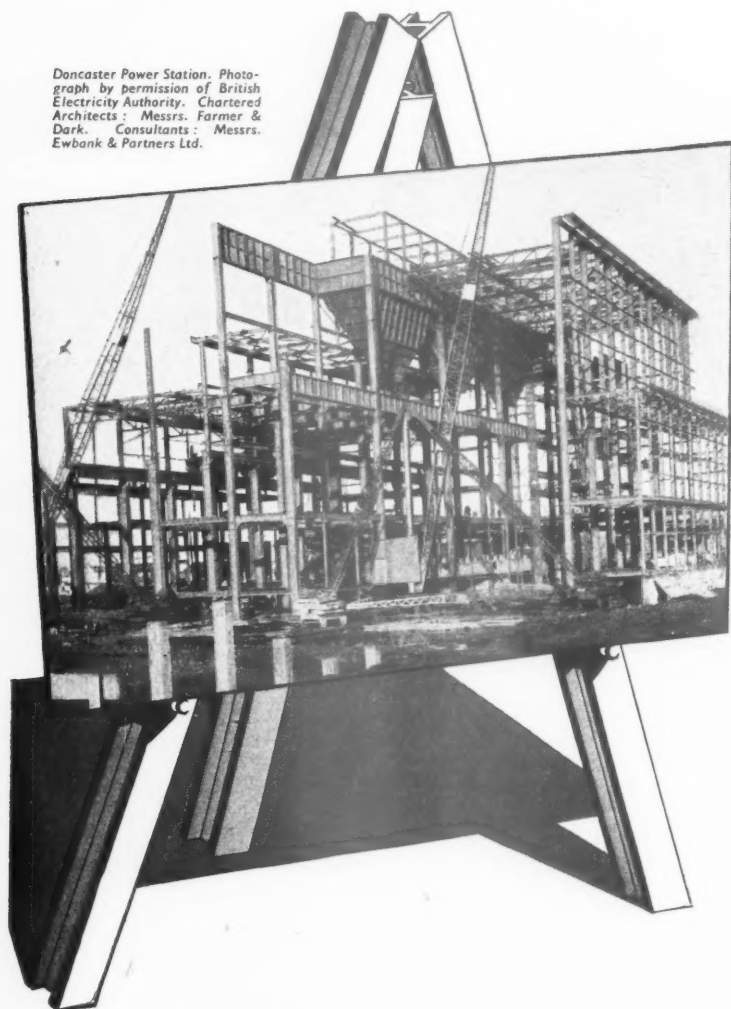


Houses at Leeds. City Architect: R. A. H. Livett, O.B.E., A.R.I.B.A.

BRICK
keeps upkeep
down

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

Danaster Power Station. Photograph by permission of British Electricity Authority. Chartered Architects: Messrs. Farmer & Dark. Consultants: Messrs. Ewbank & Partners Ltd.



**May we
show you
our work?**

(Series No. 1)

Wright Anderson's 'Service in Steel' covers the whole project from design to erection.

We have a highly skilled team of specially trained design and detail draughtsmen.

Our spacious fabricating shops and erection departments are fully equipped with the most modern plant and machinery.

Facilities—such as these—place us in the enviable position to produce all that is best in steel construction with 'Speed and Reliability'.

Good reasons, you'll agree, why some of the largest and most important contracts in the country are entrusted to us.

When it's 'Building in Steel'—get Wright Anderson on the job.

Wright Anderson & Co. Ltd

**CONSTRUCTIONAL ENGINEERS & BRIDGE BUILDERS
GATESHEAD 8. CO. DURHAM**

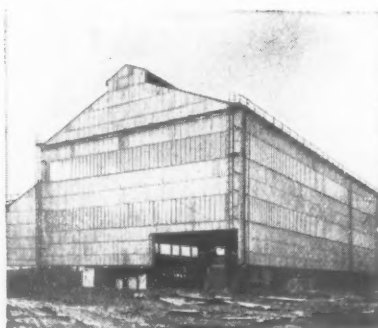
Telephone: Gateshead 72246 (3 lines) 'Grams: "Construct Gateshead"

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

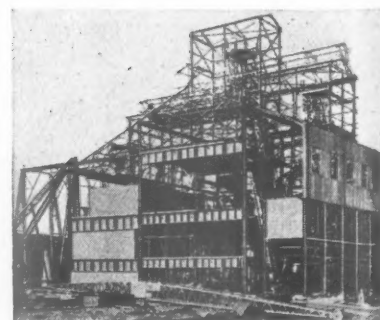
CONTRACTORS TO GOVERNMENT DEPTS., N.C.B., BRITISH RAILWAYS, N.G.B., AND CROWN AGENTS FOR THE COLONIES.



Pipe line installation.

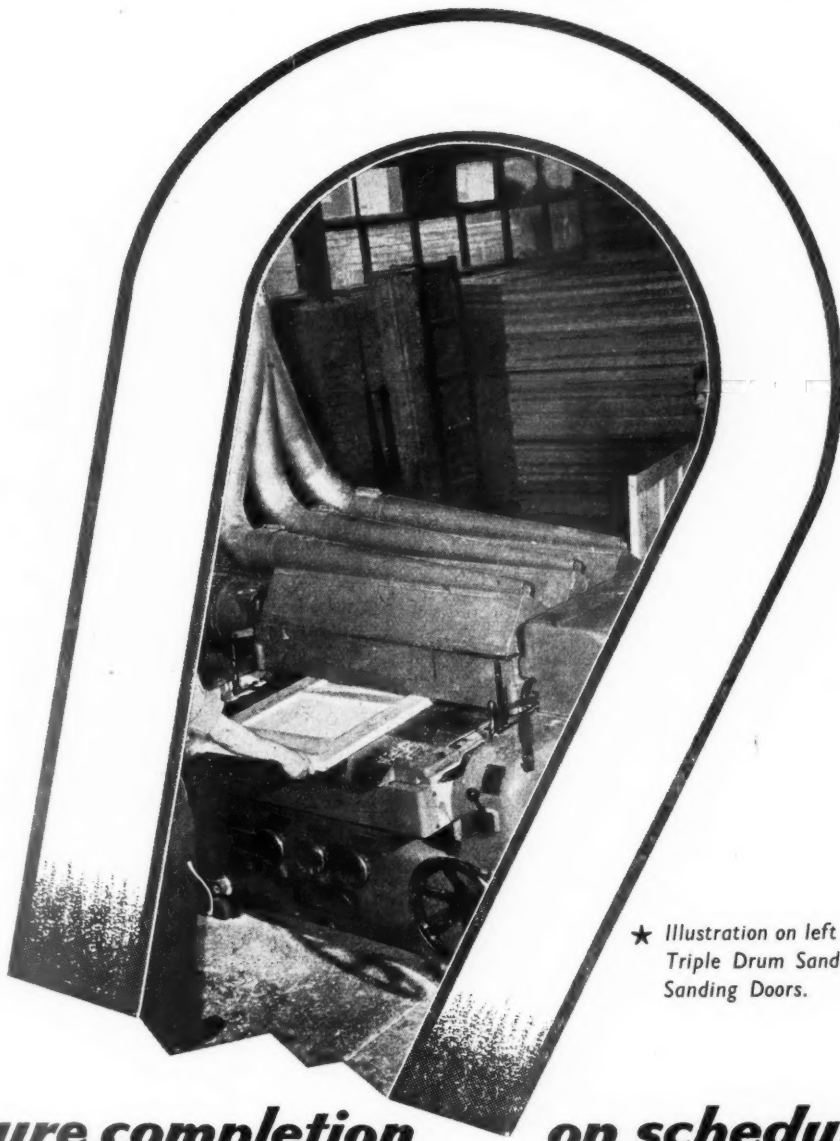


Soaking Pit Building.



Furnace Plant.

Photos by courtesy of Consett Iron Co.



★ Illustration on left shows a Triple Drum Sander, Sanding Doors.

To ensure completion on schedule . . . **USE MAGNET SERVICE**

There are sound reasons why important Housing Schemes all over Britain employ Magnet Service for Standard Joinery, Doors, Windows, Cupboards, etc. Magnet Service saves valuable time, cuts out delays, reduces costs, and helps to ensure completion on schedule.

The Magnet *countrywide* organisation holds ample supplies of kilned and air conditioned timber. Stocks are sufficient for instant delivery, to cope with any emergency. Our highly skilled staff, working in three up-to-date factories, are waiting to meet *your* demands.

Write for free literature to . . .

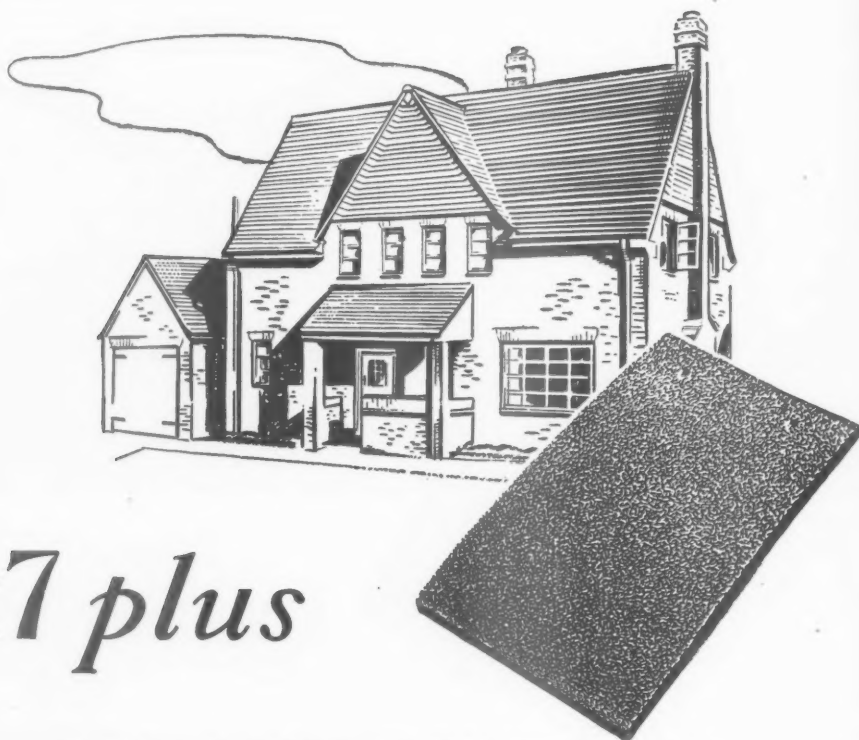
WHITLEY STREET, BINGLEY, YORKS Phone: Bingley 3547 (5 lines)

LOVE LANE, ASTON, BIRMINGHAM Phone: Aston Cross 3291

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

MAGNET
JOINERY LIMITED

*This fine example of modern architecture
is roofed with Dignus 11"×7" Dark
Red Sandstorm roofing tiles*



11×7 plus

The high standard of Dignus 11"×7" Sandstorm roofing tiles is only achieved by the use of first class materials and expert attention to detail at every stage of manufacture.

The illustration below shows one of our Fittings Makers who, with the use of moulds and templates, is cutting the hip or valley bats to shape before applying sand. If you would like fuller details of our processes we suggest that you send for a copy of the Dignus Brochure, without obligation, of course.



DIGNUS
Siles
SANDSTORM

Best Quality Tiles are
Guaranteed for Fifty Years

DIGNUS LIMITED, KEELE, NEWCASTLE, STAFFS

"Thistle" Acoustic Plaster, in preventing the one, ensures the other. By acoustic correction, excessive reverberation can be eliminated so that mental fatigue is minimised. Reduction of noise by absorption permits speech to be kept at conversational level and also improves audibility.

Acoustical Surveys are carried out without obligation and Architects are invited to avail themselves of this service.

By virtue of its Gypsum base, "Thistle" Acoustic Plaster is remarkably fire-resisting.



Frayed Nerves or Quiet Efficiency?

It can be applied by any skilled plasterer, or if required, the manufacturers provide, without charge, the services of skilled technicians to supervise the work.



"Thistle" Acoustic Plaster is a product of THE BRITISH PLASTER BOARD LTD. Other B.P.B. products include:—"Thistle" Plaster Base Board; "Thistle" Plaster Lath; "Thistle" Gypsum Board Finish Plaster; "Paramount" Fire Resisting Plaster Wall Board; "Paramount" Fire Resisting Insulating Board; "Paramount" Wood Grain Finish Plaster Wall Board; "Paramount" 1/2" Partition Standard; "Paramount" 2" Solid Partition; "Paramount" Coved Moulding; "Parastrip" Plaster Board Furring; "Paraclip" System of Roof and Wall Insulation; "Pharaoh" Gypsum Browning and Finish Plasters.

Full details covering any of these renowned Building products can be obtained from the Sales Offices (addresses below)

"Thistle"

REGD. TRADE MARK

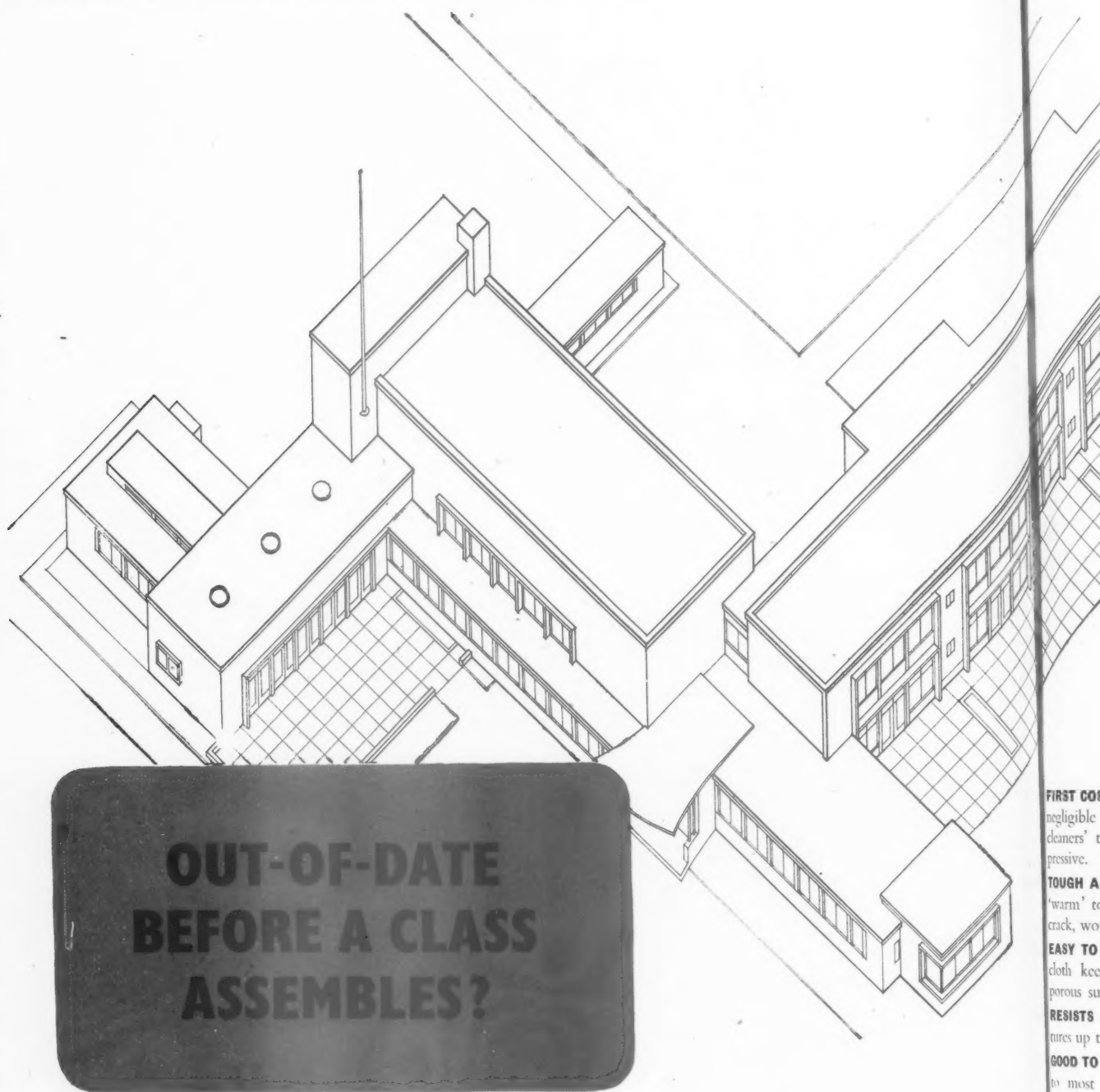
ACOUSTIC PLASTER

THE BRITISH PLASTER BOARD LIMITED

SOUTHERN SALES OFFICE
MORRIS HOUSE,
1-5 JERMYN STREET, LONDON, S.W.1.
Telephone: Whitehall 9821



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



**OUT-OF-DATE
BEFORE A CLASS
ASSEMBLES?**

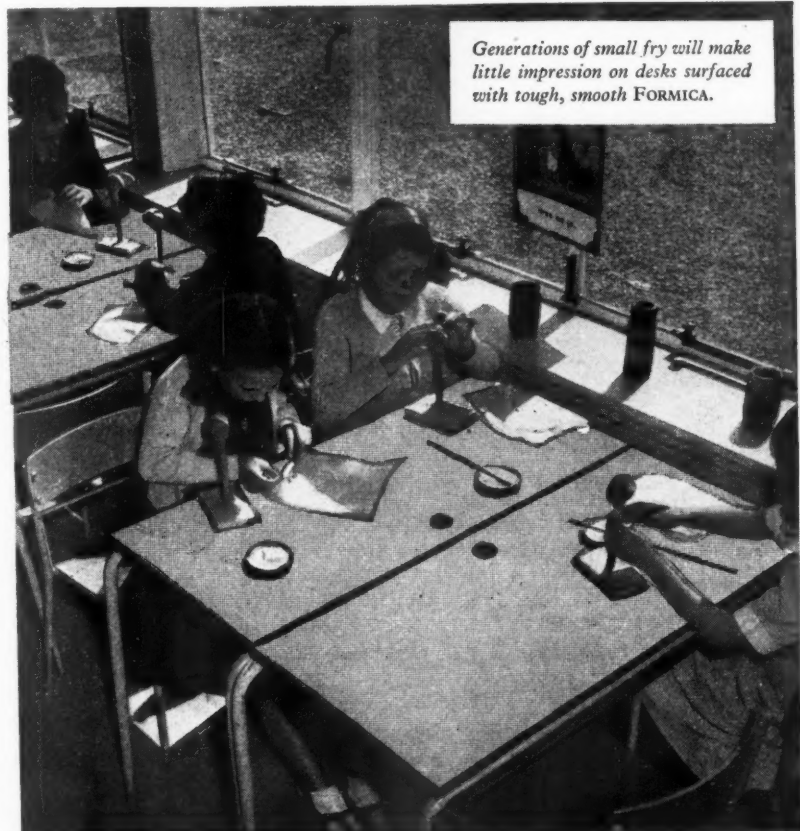
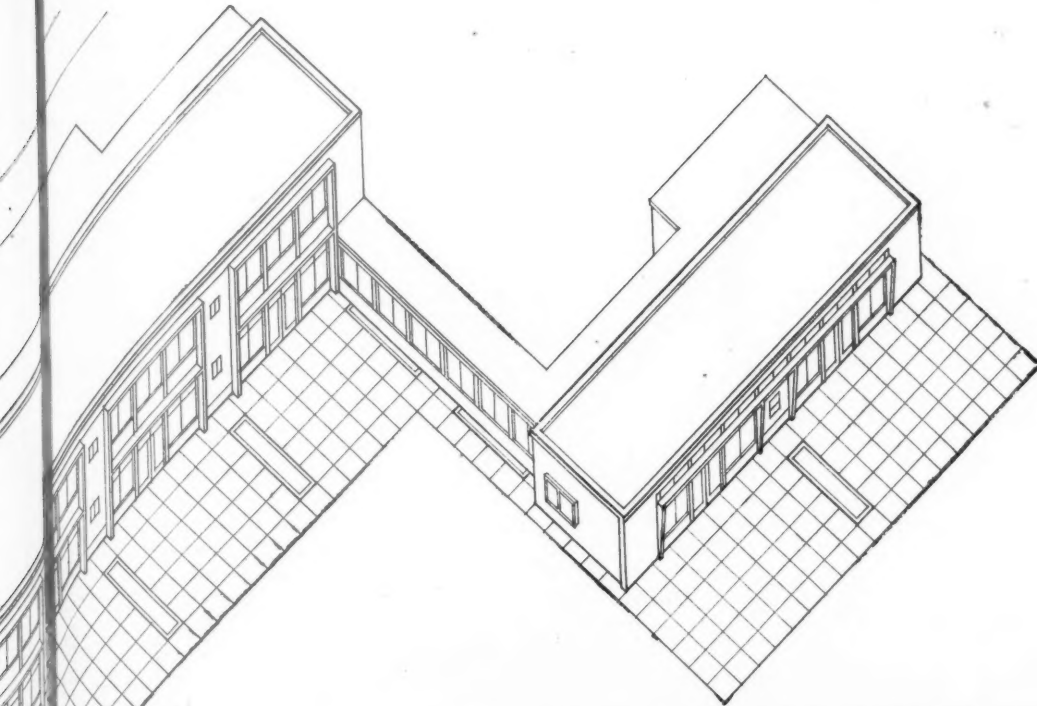
A SINGLE CHANGE in the fitting out of this new school could put it years ahead. Without that change maintenance and cleaning costs of much-used surfaces—desks, tables, laboratory benches, facings of corridors and staircases—will be higher than they need be. Renovation and renewal will loom up far too soon. In fact the building will, by truly modern standards, be out-of-date before it opens. The surface of tomorrow combines the advantages of traditional materials without their limitations. That surface is tough, smooth FORMICA laminated plastic. It brings cleanliness, colour and brightness; saves work, saves money and never wears out.

FIRST COSE
negligible
cleaners' t
pressive.
TOUGH AS
'warm' to
crack, wor
EASY TO
cloth kee
porous su
RESISTS
tures up to
GOOD TO
to most
drinks and
of cheerfu
Does not

regi

IN

informa



Generations of small fry will make little impression on desks surfaced with tough, smooth FORMICA.

FIRST COST IS LAST COST—No renewals, negligible maintenance. The saving in cleaners' time and materials alone is impressive.

TOUGH AS STEEL and hard as glass, but 'warm' to the touch. Won't chip, won't crack, won't craze.

EASY TO CLEAN—A wipe with a damp cloth keeps it gleaming. Its hard, non-porous surface cannot hold dirt or germs.

RESISTS HEAT—Unaffected by temperatures up to 130°C (266°F).

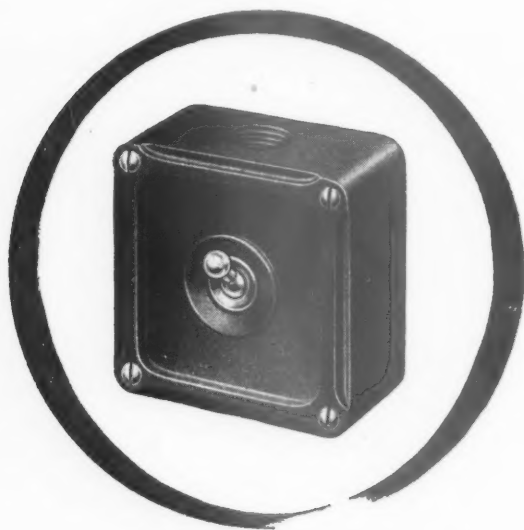
GOOD TO LOOK AT ALWAYS—Impervious to most acids and alkalis, alcohol, oils, drinks and foods of all kinds. Wide range of cheerful, permanent colours and textures. Does not encourage condensation.

DE LA RUE are the sole registered users in Great Britain of the trade mark 'FORMICA'



PUTS YOU YEARS AHEAD

For information about FORMICA please write to THOMAS DE LA RUE & CO. LTD., Plastics Group, IMPERIAL HOUSE, 84-86 REGENT STREET, LONDON, W.1



The standing of any product in its class depends on many things, but on *none* so important as those instantly reflected in the article itself . . . appearance, workmanship and efficiency. These qualities are immediately evident in all Britmac components and establish *their position at the head of their class.*

the points in favour . . .



ILLUSTRATIONS: 5 amp., Ironclad switch units, Industrial type. Finished black enamelled with nickel plated dollies, bridges and lid fixing screws. Catalogue Numbers P.1540 (Flat lid) and P.1552 (fully protected lid). Available in 5 amp. up to 25 way; 15 amp. up to 12 way; with shallow or deep type boxes.

. . . at every point — "BRITMAC"

BRITMAC ELECTRICAL CO. LTD

SALES ORGANISATION OF C. H. PARSONS LTD

HEAD OFFICE • BRITANNIA WORKS • WHARF DALE ROAD • TYSELEY • BIRMINGHAM • 11

Telephone: ACOCKS GREEN 1191 (3 lines) • Telegrams: "BRITMAC, BIRMINGHAM"

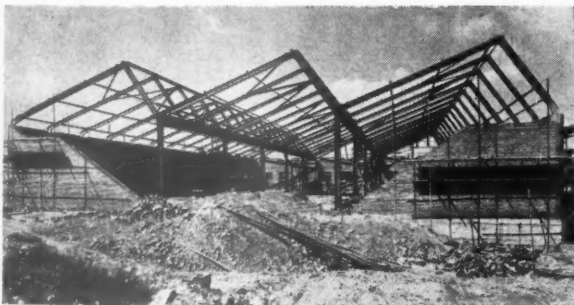
London Office:
121, VICTORIA ST., S.W.1
Telephone: VICTORIA 9778/9

Glasgow Office:
247a, ST. VINCENT ST., &
93, DOUGLAS ST., C.2
Telegrams: CENTRAL 3445/6

SM/BE. 313s



Welding in Progress.



Canteen at Barnsley for Brook Motors Ltd.



New Factory at Barnsley for Brook Motors Ltd.

Architect: Noel Heppenstall, L.R.I.B.A., Milnesbridge, Nr. Huddersfield

specialists in the design
fabrication and erection of steelwork



Established 1850

James Austin & Sons Ltd (DEWSBURY)

THORNHILL IRON & STEEL WORKS · DEWSBURY

Telephone: 1750 (8 lines)

Telegrams: "Austins," Dewsbury

Private Sidings: British Railways, Thornhill

Associated Companies: ASTLEY BROOK & CO. LTD., ST. GEORGE'S WORKS, HUDDERSFIELD, MANUFACTURERS OF "A.B.C. GARAGES AND GREENHOUSES,"
A. J. RILEY & SON LTD., VICTORIA WORKS, BATLEY, BOILER MAKERS, WELDING ENGINEERS.

PANS • RECEIVERS • BOSHES • CHIMNEYS • CISTERNS • STEEL TANKS • CREOSOTING CYLINDERS

CAUSTIC POTS • CYLINDRICAL TANKS

BOILERS • ACID EC

PRESSURE GAUGES

CHEMICAL PLANT

STEEL FABRICATION

BOILING PANS • VAL

MARINE BOILERS • STEEL CRYSTALLISERS

VICTAULIC PIPING AND FITTINGS • EVAPORATORS

VACUUM PANS • DIGESTERS • JACKETED PANS

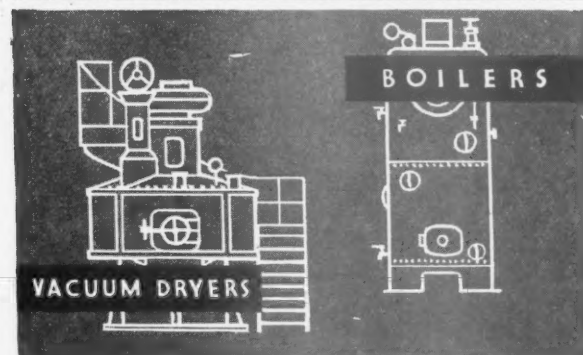
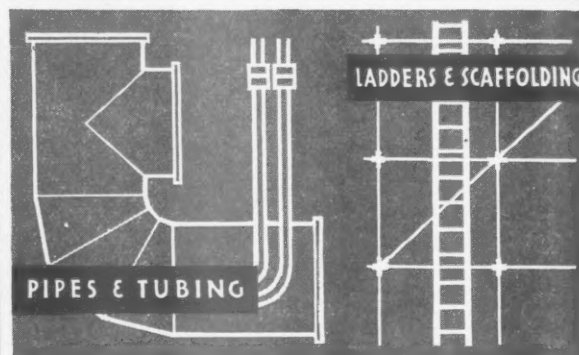
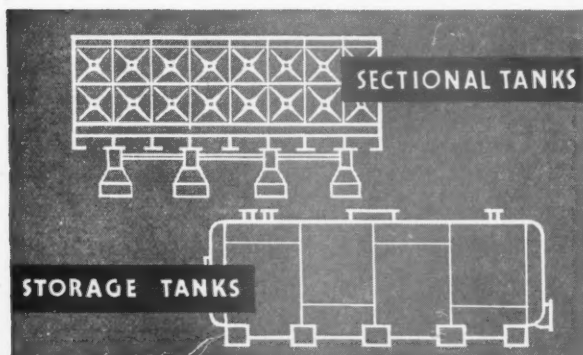
DRYERS • ACID RECEIVERS

• RECTANGULAR TANKS

STILLS • CONDENSERS

HIGH PRESSURE VESSELS

When you want...
**INDUSTRIAL
PLANT**
WARDS might have it!



A comprehensive service for the supply of static plant and equipment for industrial usage which, even in the difficult conditions which prevail today, seldom fails to meet demands.

Buyers of Industrial Plant save time and money when they come to Wards.

THOS W. WARD LTD

ALBION WORKS • SHEFFIELD

TELEPHONE: 26311 (22 LINES) • TELEGRAMS: 'FORWARD, SHEFFIELD'

LONDON OFFICE: BRETTENHAM HOUSE • LANCASTER PLACE • STRAND W.C.2

THE RESOURCES OF INDUSTRY BEHIND THE BUILDING PROGRAMME

ERECTED BY HAND

Hawksley, Factory Made, Single Storey Buildings make no call on traditional building labour. Erection is by hand, by unskilled labour without special equipment. Constructed of light alloy on the panel system, they may be supplied in lengths up to 152ft. without internal partitions.

PROVED AT HOME & OVERSEAS

Over 25,000 have been supplied, many for overseas markets, including four, fifteen-room schools for Australia. They pack economically into crates for road, rail or sea transport. Ceiling heights are 8ft., 9ft., 11ft. and 12ft. 6in. Wall panel modules are 4ft., 8ft. and 12ft.

BACKED BY THE RESOURCES OF INDUSTRY

Made by one of Britain's largest industrial organisations they can be supplied singly or in large quantities for use as schools, hospitals, dwellings, institutions, light industry factories, halls, canteens, offices, etc. Illustrated leaflets giving full specifications are available. Copies will be sent on request.

Housing needs at home are also being met by Hawksley S.G.S. houses. Specifications, drawings and photographs will be forwarded on request.



HAWKSLEY

Single Storey

FACTORY MADE BUILDINGS

over 25,000 have been delivered

HAWKSLEY CONSTRUCTIONS (Member of the Hawker Siddley Group) GLOUCESTER. 'Phone 21531



By
HICKMAN
Storefitters

NORTH CIRCULAR ROAD LONDON N.W.2. TEL: GLA 6262

E. C. & J. KEAY LTD.

STEELWORK CONTRACTORS FOR THE REBUILDING OF SHOPS
AT

ARUNDEL STREET, PORTSMOUTH.

Architects: Messrs. E. J. Thomas, Jolly & Grant.

SPECIALISTS IN DESIGN, FABRICATION & ERECTION OF ALL TYPES OF STRUCTURAL STEELWORK

INCLUDING POWER STATIONS, FACTORY & OFFICE BUILDINGS, BRIDGES
AND GAS PLANTS ETC.

ALSO MANUFACTURERS OF GREY IRON CASTINGS

Works
JAMES BRIDGE
DARLASTON
STAFFS

Head Office
RUNNYMEDE
HENLEY-in-ARDEN
Near BIRMINGHAM

BRANCH OFFICES LONDON & SOUTHAMPTON.

KIRK & KIRK

LIMITED

BUILDING AND CIVIL
ENGINEERING CONTRACTORS
FOR OVER HALF A CENTURY

*Contractors for many notable
buildings and Civil Engineering
works including the
Portsmouth Municipal College*




ATLAS WORKS
PUTNEY · S.W. 15

*Telephone : PUTney 7244 (10 lines)
Telegrams : Fourkays, Wesphone, London*

THE BOWSTRING LAMINATED TIMBER ROOF

Delivery 3 to 6 weeks



Wood

THE ULTIMATE DEVELOPMENT OF THE BELFAST TRUSS

... is coming into its own again. Increased supplies, and scientific methods of application have maintained its traditional supremacy as a building material. Lamination, allied to the modern practice of pre-fabrication, now produces a new and better form of roof construction, which is steadily growing in popularity. Immensely strong, it is immune from rust or atmospheric corrosion. It comes to you, pre-built to specification, ready to erect at a moment's notice, and its economy in timber makes it an attractive proposition to licensing officers.

Architects may be sure of full co-operation from the manufacturers.

Write for illustrated brochure to :—

William Kay

(BOLTON) LIMITED
BARK STREET
BOLTON

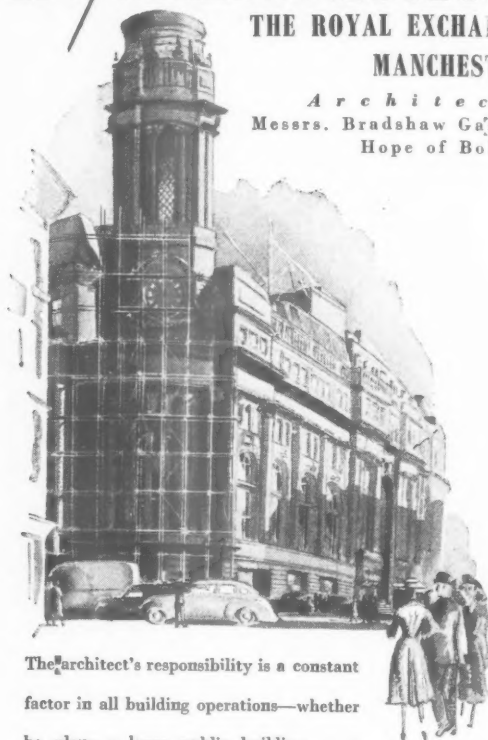
Phone
BOLTON 3925/6/7

Grams
KAY. BOLTON 3925

Planning for Re/construction

THE ROYAL EXCHANGE
MANCHESTER

Architect
Messrs. Bradshaw Goss &
Hope of Bolton

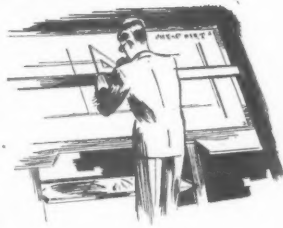


The architect's responsibility is a constant factor in all building operations—whether he plans a large public building or a private residence, his materials must be chosen impartially for their quality and durability.

The reconstructed Manchester Royal Exchange is glazed throughout with WAREING'S METAL WINDOW PUTTY—the finest in the world.

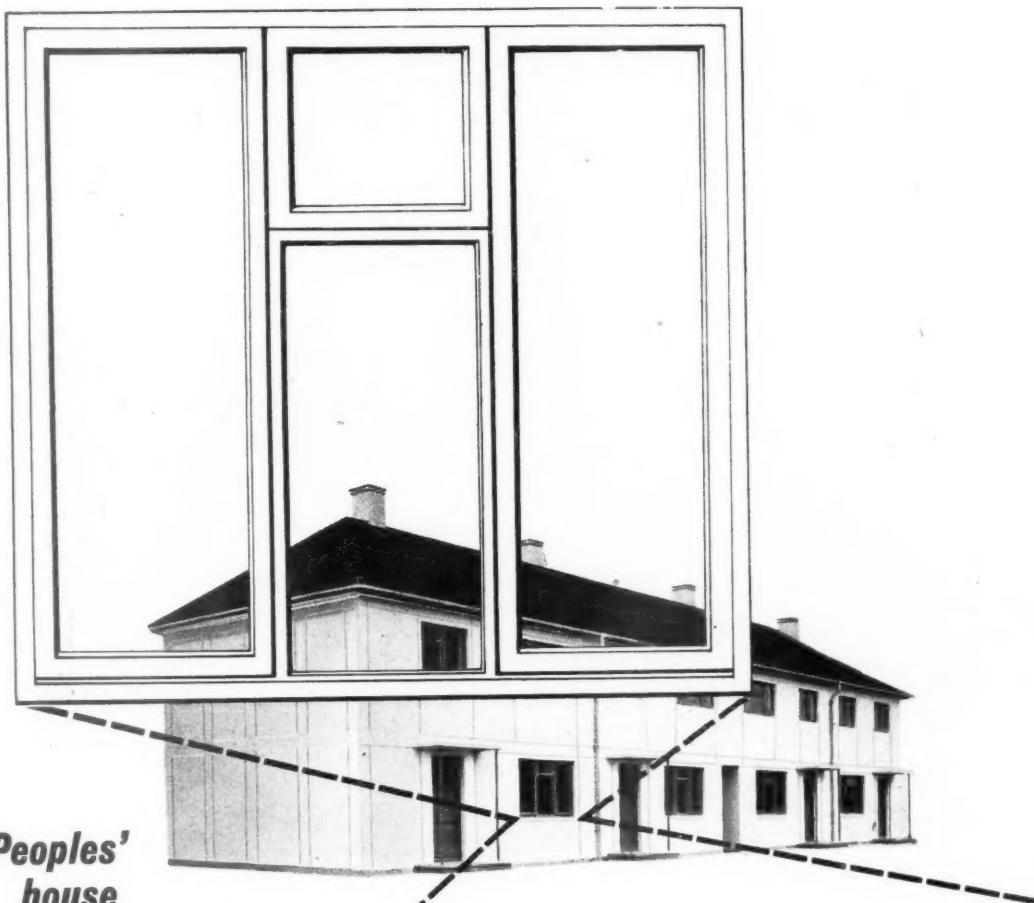
3 Ply-Cord The perfect Metal Window Putty.

3 PLY-CORD will not crack, run, or wrinkle under extremes of temperature. Definitely waterproof and weatherproof, it can be painted within a few days of glazing.



WAREING BROTHERS

and Company Limited
Carlton Street Works, Bolton.
Established 1905
Bolton 1566 (2 lines) & 227



**Peoples'
house
by
Wates
LIMITED**

Windows

In a design of classical simplicity, appearance can be made or marred by the joinery. In the present instance, quantity produced windows by Austins are satisfying to the eye and in the best traditional style. There is absolutely no need for house building to be held up awaiting supply of windows. Specify Austin-Hall windows for immediate delivery.

doors • windows • stairs • interior woodwork

supplied by **Austins** of East Ham

The Biggest Name in Joinery

AUSTINS OF EAST HAM LTD. LONDON E.6 GRANGEWOOD 3444/9

The Parent Company of THE AUSTIN-HALL GROUP OF COMPANIES



214-48

R e m p l o y

engineering

in

wood

Our Barking Factory
specialises in the
production of laminated
stacking chairs

●

REMPLOY LTD.

Telephone VICTORIA 6621

These Laminated stacking chairs which are light, attractive in design and strong were selected by the Council of Industrial Design for display in the Festival Exhibition. Other examples of Remploy engineering in wood are to be found in the wide range of domestic, hospital and school furniture now in production at our other factories. You are invited to write for further details.



25-28, BUCKINGHAM GATE, LONDON, S.W.1

Heating & Ventilation

at Messrs. F. W. WOOLWORTH & Co. Ltd.'s
NEW STORE, PORTSMOUTH

H. W. DUTTON & Co. Ltd.
25, Victoria Street, Westminster, S.W.1

.... and now



Matt and Eggshell EMULSION PAINT

For years, the name of DOCKERS has been in the forefront of good paints. Syntholux . . . Muroleum . . . Hermator . . . Hermasheen—all are established favourites in the decorating world. And now—VYDOK Emulsion Paint is introduced after thorough experiment and research. VYDOK has all the advantages . . . plus the name of DOCKERS behind it. As you want the best results, you cannot do better than use VYDOK !

Note these features of VYDOK : No primer needed

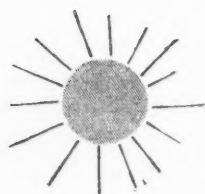
★ Can be second-coated within two hours ★ Can be washed and scrubbed ★ Matt or Eggshell finish.

DOCKER BROTHERS

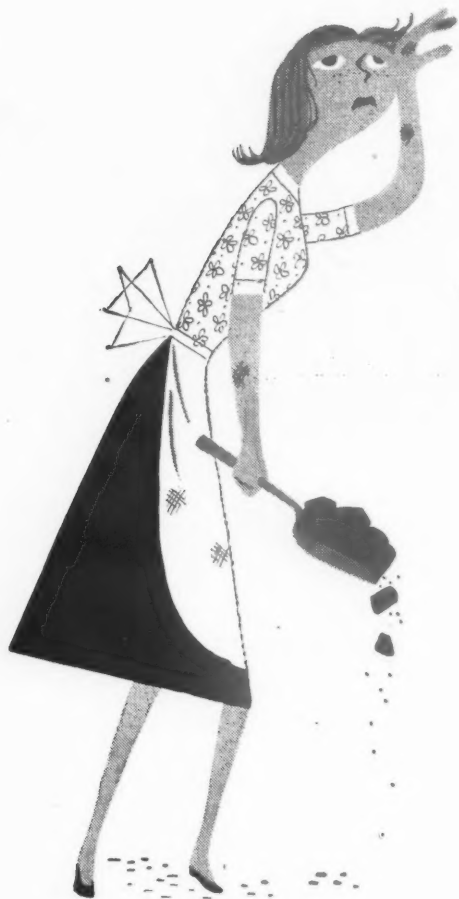
Makers of Paints, Lacquers and Varnishes for every purpose

LADYWOOD · BIRMINGHAM 16





Have *you* ever tried this?



Ever worked, or even sat, in a room on a hot summer's day with a fire alight behind you? Ever stoked a fire—on a boiling August afternoon, just so that the family can have hot water, or because there are clothes to be washed? If you haven't, you can well imagine!

*

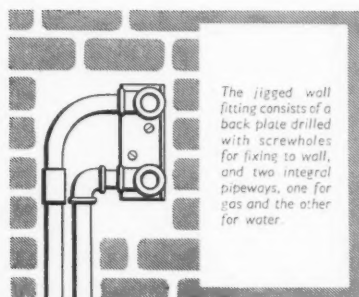
And how about your tenants! Have *they* an alternative to the solid fuel heating system—or do they stoke all year round, and so waste solid fuel? Well, there *is* an alternative. Once again Ascot take the lead to make it possible, with the jiggged wall fitting.

*

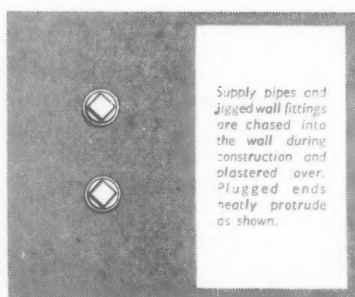
The Ascot jiggged wall fitting is chased in *during the erection of houses or flats* leaving only neat plugged ends exposed. Cost is negligible. An Ascot heater can then be fitted, at any time, in about 20 minutes, with no disturbance to the decoration.

*

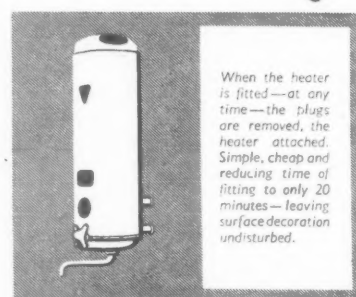
The Ascot jiggged wall fitting cuts the cost of installing gas water heaters to a matter of a few shillings per house. 44 housing authorities have already adopted it. Over 20,000 have been installed. The jiggged wall plate will take the Ascot 503 range and the Ascot RS52/1 boiling water heater. A leaflet is available, and full details will gladly be supplied.



The jiggged wall fitting consists of a back plate drilled with screwholes for fixing to wall, and two integral pipeways, one for gas and the other for water.

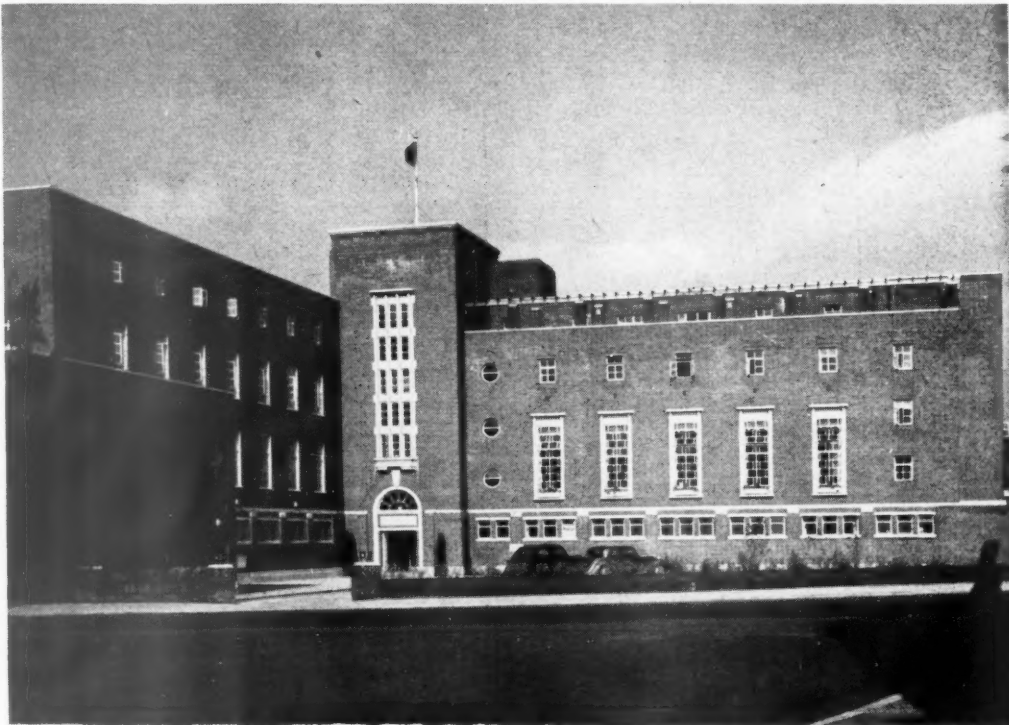


Supply pipes and jiggged wall fittings are chased into the wall during construction and plastered over. Plugged ends neatly protrude as shown.



When the heater is fitted—at any time—the plugs are removed, the heater attached. Simple, cheap and reducing time of fitting to only 20 minutes—leaving surface decoration undisturbed.

ASCOT GAS WATER HEATERS LIMITED • 43 PARK STREET • LONDON W1



UNITED SERVICES OFFICERS' Club, Portsmouth.

Architect: E. Berry Webber, F.R.I.B.A.

Recent Contracts specified by leading Architects and Engineers.

BIGSPAN Constructional Floors

Timothy Whites & Taylors, Ltd., Portsmouth
117/119, Commercial Road, Portsmouth
Royal Assurance New Building, Plymouth
East Cleveland School, Redcar
Dingles New Stores, Plymouth
Marks & Spencer, Ltd., Swansea, Plymouth and Exeter
The Gaunts House, Bristol
The University of Glasgow
Pearl Assurance, New Building, Plymouth
University College, Birmingham
Atlantic House, Holborn
Foster & Sons' Factory, Brentford
New Barracks, Deal

B. A. Savage, A.R.I.B.A. (Staff Architect)
Hillier Parker May & Rowden : Architects
Alec F. French & Partners, F.R.I.B.A.
Leathart Son & Tingay, F/A.R.I.B.A.
Sir John Burnet Tait & Partners, F.R.I.B.A.
Lewis & Hickey, F/A.R.I.B.A.
Alec F. French & Partners, F.R.I.B.A.
Basil Spence & Partners, F.R.I.B.A.
Alec F. French & Partners, F.R.I.B.A.
H. V. Ashley & Winton Newman, F.R.I.B.A.
Sir T. P. Bennett & Son, F.R.I.B.A.
James & Bywaters, R.A., F.R.I.B.A.
Leathart Son & Tingay, F/A.R.I.B.A.

TERRAZZO

United Services Officers' Club, Portsmouth
Naffi New Club, Plymouth
Dingles New Stores, Plymouth
The University, Birmingham
Time and Life Building, New Bond Street, London
The Gaunts House, Bristol
London House, Bloomsbury
St. Bartholomew's Hospital
Bank of England
Concert Hall, South Bank
Berkeley Square, Offices

E. Berry Webber, F.R.I.B.A.
Messrs. Joseph, F.R.I.B.A.
Sir John Burnet Tait & Partners, F.R.I.B.A.
Verner O. Rees, F.R.I.B.A.
Michael Rosenauer, F.R.I.B.A.
Alec F. French & Partners, F.R.I.B.A.
Sir Herbert Baker & Scott, R.A., F.R.I.B.A.
Easton & Robertson, F.R.I.B.A.
Victor Heal, F.R.I.B.A.
L.C.C. Chief Architect
Howard Souster & Partners, F.R.I.B.A.

DIESPEKER

DIESPEKER & CO., LTD. CLIFTON HOUSE, EUSTON ROAD, N.W.1
EUSTON 4801 - - - BRANCHES COVER GREAT BRITAIN

Comfort with maximum fuel economy and simplicity

There are two ranges of JANITOR AUTOMATIC BOILERS, designed for Coke and Anthracite respectively. Each model is suitable for combined space heating and domestic hot water, for space heating only or for domestic hot water only.

Features

Water temperature controlled by thermostat.

No motor or fan. No firebars or firebricks.

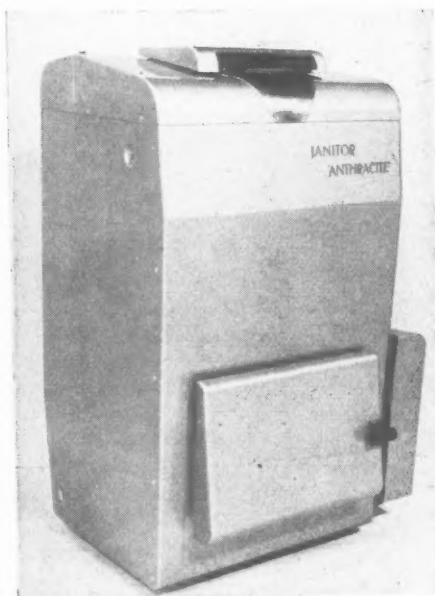
Minimum attention. Maximum economy.

Many thousands of people are enjoying the comfort provided by a Janitor Boiler, and we shall be very pleased to make a free assessment of Your requirements.

JANITOR BOILERS LTD.

VALE ROAD, CAMBERLEY, SURREY.

Tel.: Camberley 516/7.



BUSINESS PREMISES, 67, OSBORNE RD., SOUTHSEA

Architects: Clayton & Black & Partners

Illustrated in this Issue

HOLLOW CONCRETE FLOORS

DESIGNED AND CONSTRUCTED BY

BROADMEAD PRODUCTS LTD

231, STRAND, LONDON, W.C.2

ALSO AT MAIDSTONE AND GRAVESEND



Photo: "Portsmouth Evening" News

Technical College, Portsmouth

DESIGNED BY THE PORTSMOUTH CITY ARCHITECTS DEPT.
MAIN CONTRACTORS: KIRK & KIRK, LTD.

In the midst of a modern woodworking factory where great mass-production projects are carried through for standard joinery and the like, we maintain the original purpose-built joinery section. Our craftsmen make up special units and individual pieces to Architects' specifications and designs. In the new Technical College at Portsmouth, Bailey & Whites have supplied both machine and hand made fittings in wood.

Highest quality . . . reasonable prices . . . reliable service

BAILEY & WHITES LTD.
PORTSMOUTH . . . Telephone 2107 . . . Telegrams Baileys



WHEN IT'S A QUESTION OF TIME . . .

Portsmouth Municipal College . . .

In the interest of time efficiency and for speedy communication within the building, T.R. Service Time Control and Internal Telephone Systems have been installed in the new Portsmouth Municipal College.



SERVICE
speeds production

Internal Telephones, Time Control and Internal Broadcasting Equipment, installed and maintained under guarantee by Telephone Rentals Limited — that's T.R. Service.

AN ENTERPRISE OF TELEPHONE RENTALS LTD., HEAD OFFICE
KENT HOUSE, RUTLAND GARDENS, LONDON, S.W.7
H-F595



McILROYS NEW STORE

PORTSMOUTH

Architect: E.C.P. ALLEN, A.R.I.B.A.

ALL **ELECTRICAL**
SERVICES BY

G. W. _____
FRANKLIN
_____**& SON LTD.**

29 FITZROY SQ.,
LONDON, W.1. EUSTON
3122/3

PURPOSE-MADE OR STANDARD

• METAL • WINDOWS

FOR ANY CLASS OF BUILDING

— BY —

BRUNSWICK

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

LONDON OFFICE:
VICTORIA HOUSE, SOUTHAMPTON ROW, W.C.1

— 40 YEARS' EXPERIENCE —

ARCHITECTS ARE INVITED TO UTILISE
THE SERVICES OF OUR TECHNICAL STAFF

Phone:
BRISTOL 57714

Phone:
HOLBORN 1303

Builders of

**NUFFIELD UNITED SERVICES
OFFICERS CLUB**
PORTSMOUTH

SHOPS—Arundel Street
SHOWROOM for Messrs. Wendovers
Ltd., Palmerston Road

R. J. WINNICOTT LTD.
Copnor Road, Portsmouth
and Rowlands Castle, Hants

TELEPHONES:
PORTSMOUTH 73470 ROWLANDS CASTLE 332



Shopfront.



Counters & display fittings.

*Typical examples of work carried
out at F. W. Woolworth & Co., Ltd.
Commercial Road, Portsmouth.
Architect: H. Winbourne F.R.I.B.A.*

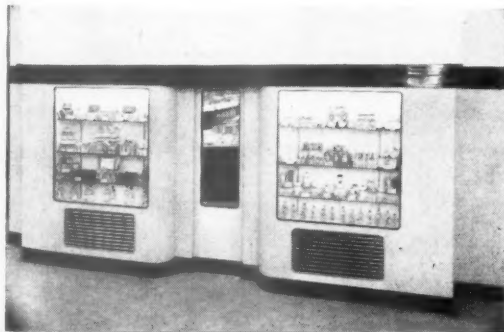
BY

A. E. LINDSEY & SON LTD.

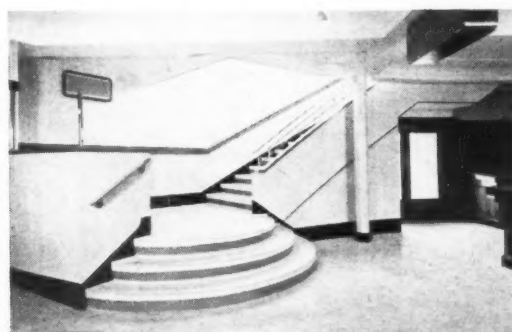
**LINDSEY WHARF, ANGEL ROAD,
EDMONTON, N.18.**

TEL: TOT. 3711-2-3

**SPECIALISTS IN
SHOPFRONT INSTALLATION
INTERIOR FITTINGS
COUNTERS
FORMICA PANELLING AND
HIGH CLASS JOINERY**



Shopfront enclosure with
Formica Showcases.



Staircase to Cafeteria panelled
in Formica.

SAVE MAINTENANCE COSTS BY SPECIFYING

SUPATAPS

THE GREATEST ADVANCE IN TAPS SINCE THE ROMAN ERA

NOW MUCH REDUCED IN PRICE

Hitherto Supataps have, not unnaturally, been more expensive than the usual domestic taps. The latest price adjustment makes them almost equivalent and from an economical point of view, essential. Many water Departments estimate the cost of changing a washer to be 5s. at least. That is why the SUPATAP with its simple method of washer changing is preferred by maintenance staff. The use of Supataps also virtually eliminates the need for so many Stopcocks.

SUPATAP FEATURES

- ★ Washer changing in seconds without emptying tanks, or turning off the supply.
- ★ Built-in anti-splash.
- ★ Finger-light operation.
- ★ Conservation of water.
- ★ Models for every domestic purpose fully guaranteed.



PUBLIC WORKS AND MUNICIPAL SERVICES EXHIBITION

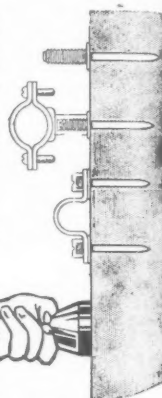
Visit
our
Stand **243** Grand
Hall Gallery
OLYMPIA — NOV. 3rd-8th

INCREASE PRODUCTIVITY BY USING THE

SEMI-AUTOMATIC SUPA DYNAMIC

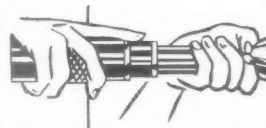
POWER DRIVING TOOL ASTOUNDING DEVICE WHICH SETS OVER FOUR POWER PINS A MINUTE

See demonstrations of this ingenious labour-saving tool. Work which formerly took hours now takes minutes at a fraction of the cost. The SUPA - Dynamic — the World's fastest power driving tool fires Power Pins of all kinds into Iron, Steel, Wood, R.S.J., Brick and certain types of concrete, with the speed of a bullet and as firm as a rock.



THE BRITISH-MADE SUPA-DYNAMIC

- Reduces Man Hours.
- Operates $\frac{3}{8}$ " , $\frac{1}{2}$ " and $\frac{5}{8}$ " Whitworth Power Pins.
- Cuts Overheads.
- Fool-proof to handle.



F. H. BOURNER & CO., (ENGRS.) LTD. (Dept., C22), MANOR ROYAL, CRAWLEY, SUSSEX.

Phone: CRAWLEY 1312-3-4 P.B.X. Grams: Supataps, Crawley

Erected, to eaves level, in only 2 DAYS!

Is the essence of the contract speed of erection? Attractive appearance? Weathertightness? Permanency? Economy both of cost and of labour?

Or the need to dismantle at a later date and re-erect elsewhere?

All these advantages are secured by the use of STAFFORD Unit Buildings with the new patent Pre-cast Components.



IMPORTANT NEW SINGLE-STOREY PREFABRICATED CONSTRUCTION

Assembly of the Stafford Patent Unit Building is so simple that it can be done by any sub-contractor using semi-skilled labour. An added advantage of the system is that alterations such as extra windows or the re-positioning of doors can be made during erection. Buildings up to 28 ft. span and 100 ft. length in 4 ft. increments are possible with Stafford Units. The School Annex shown above — 60 ft. by 24 ft. — was ready for roofing in two days.

ECONOMICAL • PLEASING APPEARANCE WEATHERTIGHT

Ideally suitable for Schools, Village Halls, Garages, Stores, Pavilions, Bungalows, Annexes, Hospital Wards, Factories, etc.

Full particulars should certainly be in your hands and will gladly be sent from:

West Midlands:
Stafford Concrete Buildings Ltd.,
Rickerscote Road, Stafford.
Stafford 1195.

East Midlands, North and East England:
John Ellis & Sons, Ltd.,
21 New Walk, Leicester.
Leicester 56682.

London and South East England:
The Atlas Stone Co. Ltd.,
Artillery House, Artillery Row, London, S.W.1.
Abbey 3081.

See the new
'ALFRAME'
CLASSROOM

on

Stand No 230
(GALLERY)

PUBLIC WORKS EXHIBITION

OLYMPIA NOV. 3-8



STRUCTURAL & MECHANICAL DEVELOPMENT ENGINEERS LTD

2 BUCKINGHAM AVENUE · SLOUGH · BUCKS · TELEPHONE: SLOUGH 23212

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

Lindoco

FIRE-CHECK DOORS

COMPLETE WITH FRAMES

"ONE HOUR TYPE"

This door consists of a 2" STRAMIT slab, surrounded by 2"×2" timber framing, all of which is faced with 18 gauge Aluminium sheets applied under pressure.

SOFTWOOD FRAMES

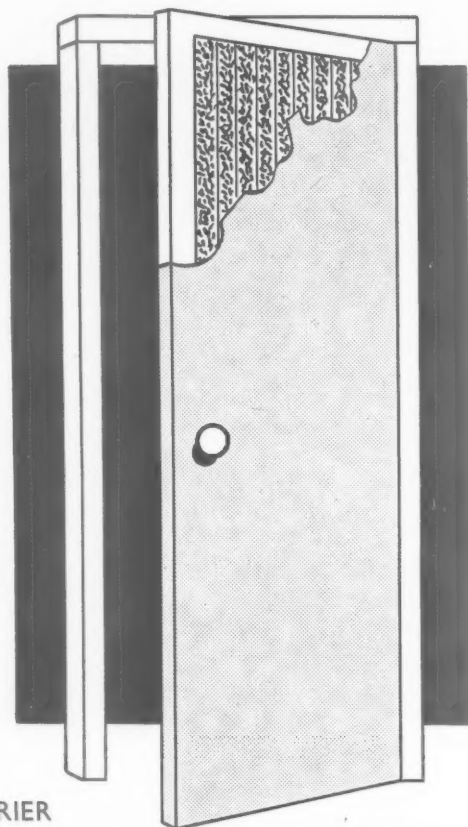
3½"×2½" nominal softwood framing to the design shown below, which makes possible a good fitting—without the usual one inch door stop—resulting in good thermal and acoustic qualities.

A FACTORY HUNG DOORWAY WHICH IS AN EFFECTIVE FIRE BARRIER

Fulfills all Fire Check requirements as laid down by BSS 476—1932 and BSS 459, Part III, 1946. Tests by the Department of Scientific and Industrial Research and Fire Officers Committee Joint Research Organization indicate that the "half-hour type" door also passed for the GRADE E fire resistance. Details on application.

Remember...

Through the Lindoco Service you also have immediately available, Standard Patterns and sizes in Panel Doors, Casement and Garage Doors—External Mortised and Tenoned Doors in 1939 Patterns, Batten Doors, as well as Doors in odd sizes to Architects' designs and specifications.



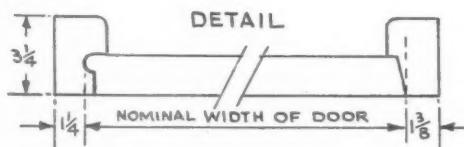
"HALF HOUR TYPE"

This door has a Solid Core built up of STRAMIT Strips 1½" thick by 2" wide, and timber styles top, middle and bottom rails 1½"×2"—all of which is faced with 5 m.m. Plywood applied under pressure. 4"×2" Lock Blocks placed above and below middle rail on both sides of door.

SOFTWOOD FRAMES

3½"×2½" nominal softwood framing to the design shown below, which makes possible a good fitting—without the usual one inch door stop—resulting in good thermal and acoustic qualities.

PATENT APPLIED FOR

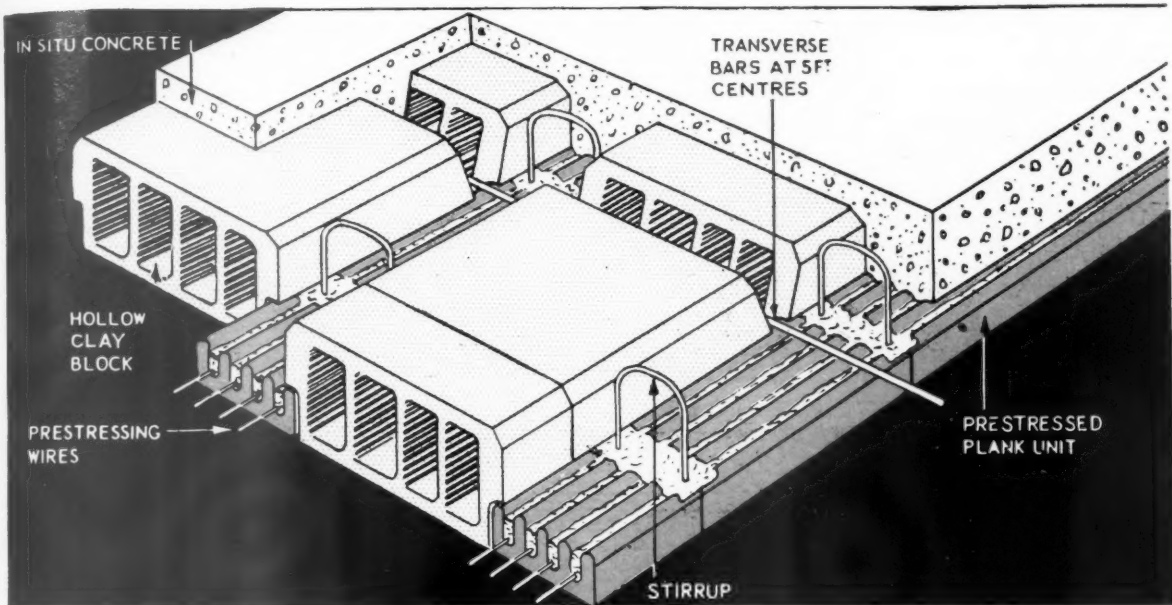


SEND FOR ILLUSTRATED BROCHURE

LINDEN DOORS LIMITED

PACKET BOAT DOCK, COWLEY PEACHEY
Near UXBRIDGE, MIDDLESEX

TELEPHONE: WEST DRAYTON 3021 (4 lines)
TELEGRAMS: "LINDOCO, UXBRIDGE"



Stahlton

STAHLTON prestressed clay block floors and roofs embody the combined advantages of prestressing, light weight, fire resistance, adaptability and ease of erection. The principal component is a factory made prestressed Plank containing high tensile steel wires embedded in vibrated mortar in grooves in the upper surface of clay blocks laid end to end. Hollow clay filler blocks are placed between the Planks giving a uniform clay block soffit which is ideal for the application of plastered finishes. The floor is completed by placing in situ concrete of the required thickness. Tests show that Stahlton has a very high degree of fire resistance and in this respect it is superior to other types of flooring.

With the range of standard hollow blocks Stahlton is suitable for all classes of buildings, from lightly loaded roofs to factory floors. No shuttering is required and there are no heavy units to be transported or handled on the site.

Details of Sections and Units available upon request to:—

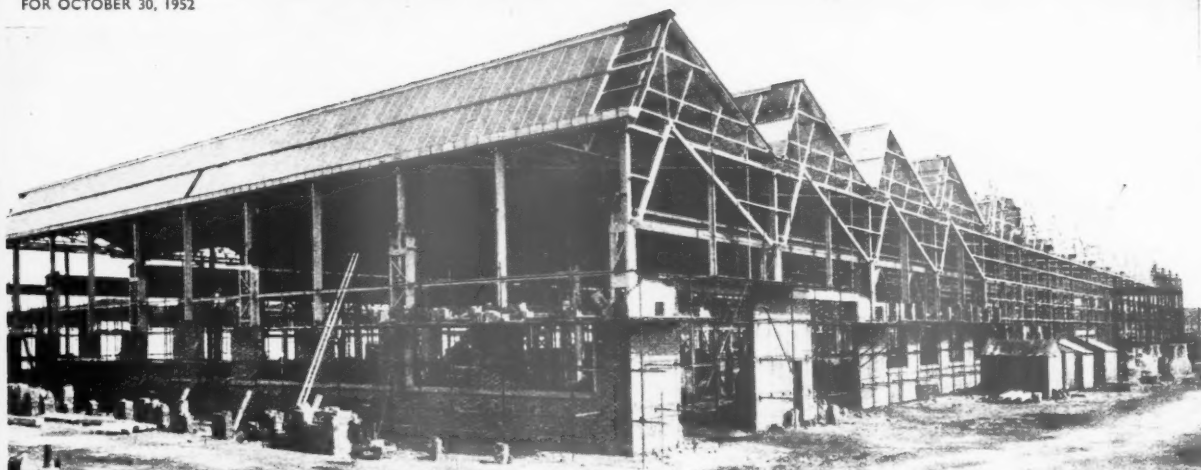
LICENSEES:—

COSTAIN CONCRETE CO. LTD.
STAHLTON LANE, SOUTHEND ARTERIAL ROAD,
CHILDERDITCH, Nr. BRENTWOOD, ESSEX
Telephone: HERONGATE 317

COSTAIN CONCRETE CO. LTD.
COWBRIDGE ROAD, BRIDGEND, GLAMORGAN
Telephone: BRIDGEND 961

COSTAIN CONCRETE CO. LTD.
COLTNESS FACTORY, NEWMAINS, LANARKSHIRE
Telephone: WISHAW 880

R. COSTAIN & SONS (LIVERPOOL) LTD.
BARLOWS LANE, LIVERPOOL, 9
Telephone: LIVERPOOL, AINTREE 4141



These photographs show the structural steelwork in one of the
buildings for a factory under construction in Lancashire.

Architects: Harry S. Fairhurst & Son, Manchester. General Contractors: A. Monk & Co. Ltd., Warrington.

STEELWORK BY REDPATH BROWN

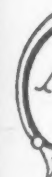
MANCHESTER

LONDON OFFICE: 3 DUNCANNON STREET, LONDON, W.C.2



THE

No. 30



EXTR

So
a fu
thou
fort
sum
Chri
awa
in t
like
ousl
it so
indu
trad
fort

TH
crea
will
two



THE ARCHITECTS' JOURNAL

EDITORIAL BOARD: (1) *Consulting Editor*, F. R. Yerbury, O.B.E., Hon. A.R.I.B.A. (2) *Town Planning Editor*, Dr. Thomas Sharp, L.R.I.B.A., P.P.T.P.I. (3) *House Editor*, J. M. Richards, A.R.I.B.A. (4) *Technical Editor*, R. Fitzmaurice, B.Sc., M.I.C.E., Hon. A.R.I.B.A. (5) *Editor Information Sheets*, Cotterell Butler, A.R.I.B.A. (6) *Editorial Director*, H. de C. Hastings.

GUEST EDITORS: (7) Robert Gardner-Medwin, F.R.I.B.A., M.T.P.I.; Donald Gibson, C.B.E., M.A., A.R.I.B.A., M.T.P.I.; S. A. W. Johnson-Marshall, A.R.I.B.A.; Robert H. Matthew, C.B.E., A.R.I.B.A.

SPECIALIST EDITORS*: (8) Planning (9) Practice (10) Surveying and Specification (11) Materials (12) General Construction (13) Structural Engineering (14) Sound Insulation and Acoustics (15) Heating and Ventilation (16) Lighting (17) Sanitation (18) Legal.

ASSISTANT EDITORS: (19) *Chief Assistant Editor*, D. A. C. A. Boyne, (20) *Assistant Editor*, K. J. Robinson, (21) *Assistant Editor (Buildings)*, L. F. R. Jones, (22) *Assistant Editor (Information Sheets)*, H. N. Hoskings, A.R.I.B.A., (23) *Assistant Technical Editor*, M. Jay, (24) *Photographic Department*, E. R. H. Read, H. de Burgh Galwey, (25) *Editorial Secretary*, Rachael Tower

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

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

No. 3009 October 30, 1952 VOL 116

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



EXTRA WEEK

So the building operatives are to get a further week's holiday with pay, though they may have to take their fortnight in two bites, one in the summer and the other round about Christmas—to avoid too many being away during the good building months in the summer. The cost, something like seven millions a year, will obviously add to the cost of building, but it seems reasonable that the building industry should be in line with other trades, most of whom now provide a fortnight's holiday for employees.

There are likely to be other cost increases, for all building trade workers will probably get another twopence or twopence-halfpenny an hour under the

sliding-scale agreement, and there is also the usual claim for another sixpence all round. The last claim, even if the employers turn it down, may perhaps lead to an arbitration award of twopence or threepence—and also, presumably, to slightly increased fees for architects, for it is fairly certain that productivity won't improve to any marked extent. But it is safe to assume that any increase in the architect's fees will be too small to provide him with much of a paid holiday.

ARCHITECTURE CLUB

The Architecture Club is one of the most pleasant of our many organizations and societies. With Godfrey Samuel as an admirable and meticulous MC it brings together, from time to time, not only laymen and architects, but—more important still—a mixed bag of architects who would otherwise never meet. The club's good dinners are usually followed by a "debate" or other entertainment, but one of the refreshing things about the club is that it hasn't got a "purpose." The "debate" is not taken too seriously, there is no vote on the motion, and Lord Eshers sends everyone home to bed in good time.

The debate last week was on the motion that "Modern architecture has more in common with that of the Middle Ages than that of the Renaissance." Basil Spence—who revealed his apprenticeship to Lutyens—was the "Gothic Man" and John Summerson, who revealed his apprenticeship to Giles Scott, was the "Classic Man." Both speakers were witty, and Summerson was also learned; thereafter the discussion got into a rare muddle and was thoroughly enjoyable.

"V AND A" EXHIBITION

To mark the "V and A" centenary, Peter Floud has organized a representative exhibition of "Victorian and Edwardian Decorative Arts." In view of all the Victoriana with which we have been sated in recent years the emphasis has been put upon Edwardian or, at any rate, upon the "pioneers." Of the very early work shown, only the gold and silver ware of Pugin comes up to scratch. Indeed, it is better than most other things in the show.

The whole exhibition left me with a quite unexpected feeling of melancholy. At some time or another we have all had our excitement over this era; and now here it is . . . a few superb things and a lot of disappointments. One or two of the big men—Mackintosh and Voysey in particular—were, after all, architects, and not to show their buildings as well as their furniture does them less than justice.

One thing that is wrong almost all through this exhibition is colour. There are wardrobes, tables, and so on, that one has seen in photographs a dozen times; but again and again the stain or varnish makes them momentarily unrecognizable. For this reason the hero of the exhibition is Morris. The trouble he took with his dyes gives the whole Morris section an overall tone that makes the rest of the exhibition—*art nouveau*, especially rather tawdry.

But what a courageous, virile, earnest and—occasionally—absurd world it was! For the elderly visitors to the Private View it was a thoroughly nostalgic hour. "My dear! don't you remember the breakfast-room curtains? . . ."



MONTGOMERY HOUSE: Manchester Y.M.C.A. War Memorial
Harry S. Fairhurst & Son, F./A.R.I.B.A., Architects

HOPE'S WINDOWS

HENRY HOPE & SONS LTD

SMETHWICK, BIRMINGHAM AND 17 BERNERS STREET, LONDON, W.1
MANCHESTER: 123/4 ROYAL EXCHANGE

HIGH PADDINGTON

Architects spend much of their time (through no fault of their own) ploughing along in the mud and worrying themselves silly over the little obstacles—recalcitrant committees, non-delivery of steel, official red tape—that stand in the way of their achieving even the routine solution to a problem. It does us all good, then, to raise our heads from the mud occasionally, to think big and to show the world (and each other) that architects are still men with ideas.

*

This observation is inspired by a beautifully produced pamphlet which the *Architect and Building News* has just published, called "High Padding-

ton." It illustrates a project, got out by Sergei Kadleigh—with the assistance of Patrick Horsbrugh—for building a whole new town for 8,000 people over the railway sidings and goods yards outside Paddington station. (See photos below.) It has often been noticed how much space is taken up by railway lines in some of the most congested areas of London, and a strong case can be made for building over them. Kadleigh and Horsbrugh, supported by the local MP, not only state the case but design the buildings to prove it in considerable detail.

*

I'm afraid everyone's reaction to so ambitious a project is going to be to

look for the snags: what about vibration?; can the railway sidings really operate by artificial light? (Chicago plans to do it); is there any chance of converting local housing authorities, accustomed to planning in terms of permissible capital expenditure and the allocation of block licences, to so unorthodox a venture? Everyone, nevertheless, would like to see such a brave scheme attempted, and will agree that even if it proves too bold for these unadventurous days, it will have been well worth putting forward. ASTRAGAL doffs his hat to all concerned, and gives notice that he does not wish to become involved in arguments for or against Vertical Living.

ASTRAGAL

PADDINGTON PROJECT

Below and right: this project, "High Paddington," which has been planned in detail by Sergei Kadleigh, with the help of Patrick Horsbrugh, is described and illustrated in a pamphlet produced by the "Architect and Building News." The scheme is the subject of a note by ASTRAGAL on this page.

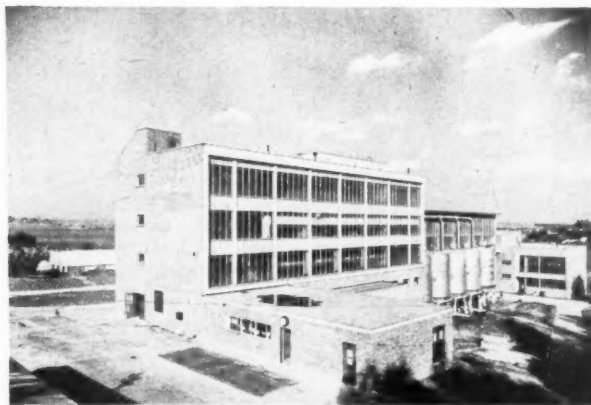


LCC SCHOOL OPENING TODAY

Above: the Langbourne Primary School, Kingswood Drive, London, is being officially opened today. It was designed by Robert H. Matthew, architect to the LCC. The school will be more fully illustrated in a later issue.

FACTORY IN ESSEX

Below: the Standard Yeast Company's factory at Dovercourt Bay, Essex, designed by Ove Arup and Partners, consulting engineers. The consulting architect was David du R. Aberdeen. The building will be illustrated more fully in a later issue.





Beside the Sea

There are two kinds of seaside: the open, promenade type, where holiday-makers bustle along before a spanking south-west wind in a cloud of spume and seagulls; and the enclosed, docks, boats, tides and taverns type, a glimpse of which is shown above. Portsmouth, the subject of the fifth of the JOURNAL's series of articles on the rebuilding of the blitzed cities, is extremely fortunate in having both kinds; the latter type, to a limited extent, around the old town and the harbour, and the former, for more than three windswept miles, in Southsea, the euphemistic name for the southern edge of the town. This name is retained on travel posters, no doubt to reassure the nervous that they

need have no fears of the possibility of holiday-making in a naval dockyard amongst salacious sailors. But where one neighbourhood begins, and the other ends, cannot be readily detected by even the most timid visitor. The plan for Portsmouth, whilst giving details for extending the sea front—the promenade portion—gives little or no indication of the City's proposals for the more intimate, and just as attractive corners, as exemplified above. It is the spirit behind this type of seascape which the authors of this week's article (see pages 516-523, and our leading article, opposite) would like to see recaptured in any extensions proposed to the Southsea Prom.

N
M
H
A

Son
pla
tect
bo
rec
hov
Go
tect
nor
F.
(Ea
(No
A.
(sou
wes
ber
(no
east

H

Ha
Loc
con
and
ties
pres
catic
not
on
com
the
Wh
tura
able
than
Mr.

Vic
Exhi
ton,
to 6

The
land,
land

Son
velo
Colv
(Spor
p.m.

Pub
gress
to 6

Pres
Robe
A. C

Res
Sir
Stre

Neig
Exhi
(Spor

NEWS

MOHLG

Housing Production Boards: Architects Appointed

Some time ago the JOURNAL's editors complained about the curious omission of architects from the regional housing production boards set up throughout the country on the recommendation of the MOHLG. Recently, however, the Minister of Housing and Local Government appointed the following architects as advisers to the boards. They were nominated by the RIBA's president.

F. A. Child (northern), Norval R. Paxton (East and West Ridings), T. N. Cartwright (North Midland), Peter Bicknell (eastern), A. W. Kenyon (London), E. Stewart Smith (southern), Lieut.-Col. Eric Cole (south western), Dr. T. Alwyn Lloyd (Wales), Herbert Jackson (Midland), W. Cecil Young (north western), Peter F. Sheppard (south eastern).

House Improvement Grants

Harold Macmillan, Minister of Housing and Local Government, has altered some of the conditions on which house owners in England and Wales may get grants from local authorities to help them to improve their houses. At present local authorities may consider applications for a grant if the estimated work is not less than £100 and not more than £600 on a dwelling. The new regulations, which come into force on November 1, will increase the limits to £150 and £800 respectively.

When a building is of historical or architectural interest, local authorities will still be able to accept proposals which involve more than the maximum amount—provided that Mr. Macmillan approves.

DIARY

Victoria and Edwardian Decorative Arts Exhibition. At V and A Museum, Kensington. 10 a.m. to 6 p.m. Sundays: 2.30 p.m. to 6 p.m.

UNTIL JANUARY 18

The Face of Warsaw Today. G. Shankland. At Polish Cultural Institute, 81, Portland Place, W.1. 7.45 p.m.

OCTOBER 31

Some Current Projects in Landscape Development and their Problems. Brenda Colvin. At 28, King Street, W.C.2. (Sponsor: Student Planning Group.) 6.30 p.m.

OCTOBER 30

Public Works and Municipal Services Congress and Exhibition. At Olympia. 10 a.m. to 6 p.m.

NOVEMBER 3 TO 8

President's Inaugural Address. Howard M. Robertson. Also unveiling of portrait of A. Graham Henderson. 6 p.m.

NOVEMBER 4

Residential Neighbourhood Development. Sir Thomas P. Bennett. At 13, Suffolk Street, S.W.1. (Sponsor: HC.) 1.15 p.m.

NOVEMBER 4

Neighbourhood Layouts in New Town Exhibition. At 13, Suffolk Street, S.W.1. (Sponsor: HC.)

UNTIL NOVEMBER 28



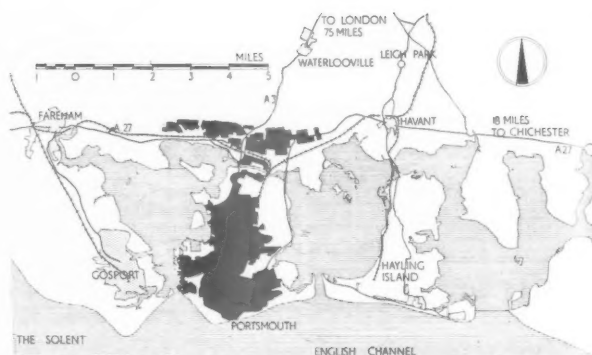
The Editors

RIVAL INTERESTS

THE view above (of the south-east corner of Portsmouth) is nothing to write home about, and it can be seen from no hotel bedroom, as yet. It looks a bleak and desolate place, but it is only half as far, or even less, from here to the town centre as the new housing estates which have been built on the mainland behind the town. The extra cost of building on such poor, waterlogged, soil might, therefore, well be compensated for by the saving in transport costs. However, this site, measuring about one mile by a quarter of a mile, cannot be built on because it belongs to the Royal Navy.

Portsmouth is dominated by the Service Departments—both the Admiralty and the War Department control considerable portions of the north, west and south-east sectors of the city. The Services and the civilian populations are mutually dependent on each other and the degree of dominance of one over the other depends largely on whether the nation is at war or peace. But, on the whole, the services have the whiphand. Certainly, as far as planning is concerned, the Services are largely a law unto themselves. Whatever the demands of the city planning authorities, such demands cannot be enforced. Planning problems can only be solved by negotiation, but the Services have the advantage of having national issues at stake to strengthen their argument. Yet Portsmouth, crowded within the confines of Portsea Island and particularly densely built-up on its western side, needs an eastward expansion with intensive development to counterbalance the overloading of interests on the west. The city's development plan refers to a scheme for such eastward development, linking Southsea with the sandy beaches of Hayling Island, to the east, by means of a road and bridge. Such a road, together with more shops, hotels and houses, could make this south coast stretch "one of the finest holiday resorts in the country," to quote their own words. How far the city could already have gone towards attaining such a goal if closer collaboration between the Admiralty and the city authority had been obtained from the start will never be known, but it is quite obvious, as a glance at the survey of the plan published in this week's JOURNAL will show, that the first opportunity to take such a step has already been missed.

The City of Portsmouth is the fifth city in the JOURNAL's series of articles on the post-war reconstruction and planning of our blitzed cities. The following twelve pages illustrate briefly the major work achieved in developing housing and industrial estates, and in building schools and shops. Then follows a more detailed description of the most notable building in the city, a technical annexe for the Portsmouth Municipal College, followed by illustrations of some of the work by private architects which does not come into the categories listed above. The City Architect is Frank Mellor (deputy: T. V. Quarmby; chief assistant E. Wilkinson) and the City Development Officer is G. F. Heath. The regional plan, above, shows in solid black the built-up area of the city, both on the island itself and on the mainland to the north, and also indicates, by means of a light tint, the major built-up areas which cause the whole district to become an ungainly conurbation.



PORTSMOUTH

A SURVEY BY D. RIGBY CHILDS AND D.A.C.A. BOYNE

PORTSMOUTH from the sea presents that undistinguished and undistinguishable medley of cranes, roofs and towers typical of most harbour towns. Portsmouth from the mainland, however, presents a dramatic sight. It can be seen best from the high road which runs along the seaward edge of the downs to the north of the city. From there the island can be seen low-lying in its mainly inland sea. To the west are ships of the Royal Navy—broken-outlined grey shapes lying in rows along the waterways of Portsmouth Harbour. Beyond the town, on the skyline, is the lovely Isle of Wight. Near at hand, however, the view is not so encouraging. The photograph on page 518 shows what lies at the foot of the hill—a not very inspiring layout of houses at the edge of what should be the town's natural park at Portsdown. The view behind the sightseer, of the top of the hill, is rather worse. We would gladly show a photograph of the coarse and heavy structures which the War Department is erecting on the skyline, but our photographer's efforts were forestalled by military police who marched him away for intensive questioning before ordering him off that stretch of road.

The way into the town, through the monotony of never ending rows of pre-war suburban houses, is only succeeded by the monotony of a belt of nineteenth-century bye-law houses which, although maintained surprisingly well, form an even more depressing entry to this town.

In the heart of the City, as the illustrations on pages 524 to 528 show, very fair progress has been made in rebuilding the shops. But the bulk of this work has been done, as is usual in the blitzed towns, not by local architects, but by the staff architects of the chain stores concerned.

the architects

Portsmouth is not a wealthy town—towns which depend so largely on Government establishments very rarely are. So there are not a great many architectural firms—only about fourteen, in a town of over 200,000 inhabitants—and none of the firms is very large. The two major firms are, perhaps, those of R. A. Thomas and of A. E. Cogswell

& Sons. Work by both these architects is illustrated in this article. The former architect is one of the few practising in the Old Town—he has the seventeenth-century house—now carefully restored—of the murdered Duke of Buckingham, in the heavily war-damaged High Street.

Of the younger generation of architects, A. G. Goodair has established a reputation as a designer of small contemporary houses—an item for which Portsmouth is not conspicuous. A native of the town, his hobby, like so many architects (and not only those in Portsmouth) is sailing—his craft, the racing Hornet.

There is little social activity amongst the architects in the town. Such as there is centres round Masonic and Rotary Club meetings, or, and this is more to be expected, round the architectural school, whose principal, A. C. Townsend, is now chairman of the local chapter of the Hants and Isle of Wight Architectural Association. Mr. Townsend is one of those rare people with endless enthusiasm. A tireless talker, he has a wealth of anecdote and architectural reminiscences as befits a pupil of Sir Charles Reilly. His school—with one hundred full-time students whose work compares well with that of any school of similar standing—produces on an average from fifteen to twenty architects a year. The majority of these students are local, that is to say, county, inhabitants, though comparatively few are from Portsmouth itself. Which, bearing in mind the innate conservatism and poverty of the town, is just as well.

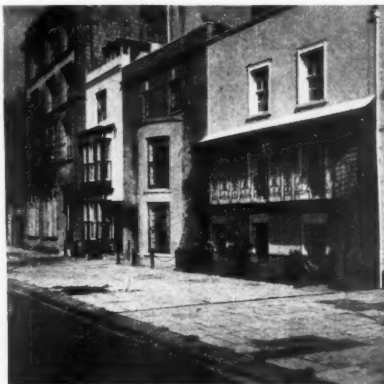
portsmouth plan

Of all the towns and cities which have been, and are to be covered in this series of articles, Portsmouth is pre-eminently the seaside town whose existence owes everything to the sea and whose very shape has been almost entirely governed by the action of the sea upon the coast.

The Navy dominates Portsmouth. The City's growth has radiated from the Royal Dockyards (see map, page 518) established for centuries just beyond the landlocked entrance to Portsmouth harbour. Today in the dockyards alone there



Above, the City of Portsmouth's Development Plan and Survey. Below, left, the Cathedral now finally and irrevocably dwarfed by the extension to the power station, seen beyond. Close to the Cathedral, and despite the bombing, are still a number of attractive houses (centre) in the old town—conspicuous, like even the dreary byelaw houses of the remainder of the town, for the careful maintenance which the owners bestow on them. Right, the blitzed Guildhall, a Victorian architectural wedding cake which will one day be restored by E. Berry Webber to provide assembly hall and civic rooms.



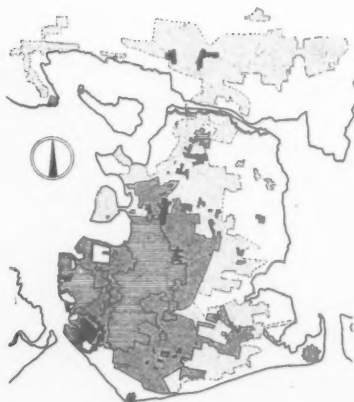


HOUSING : PAULSGROVE ESTATE

On this and the opposite page are views of Portsmouth's largest housing estate. Known as the Paulsgrove estate, it houses over 12,000 people. The view above shows the estate from the Portsdown hills, looking south-west towards Portchester. All the houses, flats and schools on this estate have been designed by the City Architect's Department.

DEVELOPMENT UP TO 1600
 FROM 1600 TO 1830
 FROM 1830 TO 1910
 FROM 1910 TO 1939

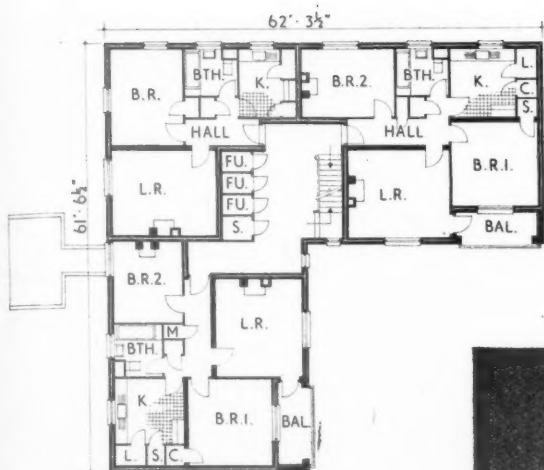
0 1 2 MILES



A plan showing the growth of the town over the centuries and indicating how development has been confined by being restricted to one corner of the island.

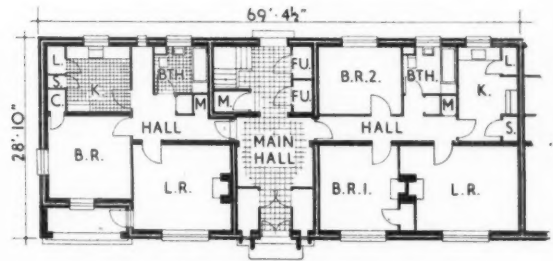
are employed about 22,000 civilian workers, mostly labourers, known locally as "mateys," earning on the average little over £5 a week. This is apart from the naval establishments ashore and afloat in the harbour. The Navy provides more than the basic means of living, it is also the City's pride as an attraction for the holiday-maker. The City has a pleasant natural front to the sea, but for the holiday-maker and visitor the prime attraction is to watch the ships coming and going into the harbour, or to watch the merchant ships passing up the Solent to Southampton. The finest vantage point, however, is the Old Town, where there is a natural grandstand for watching the Navy, the Island ferries and the bridge ferry to Gosport. A very modest expenditure would go far in improving this natural asset.

An appreciation of Portsmouth may begin by peering into the quaint streets and passages of the old harbour town and by pausing to catch a glimpse of a panorama

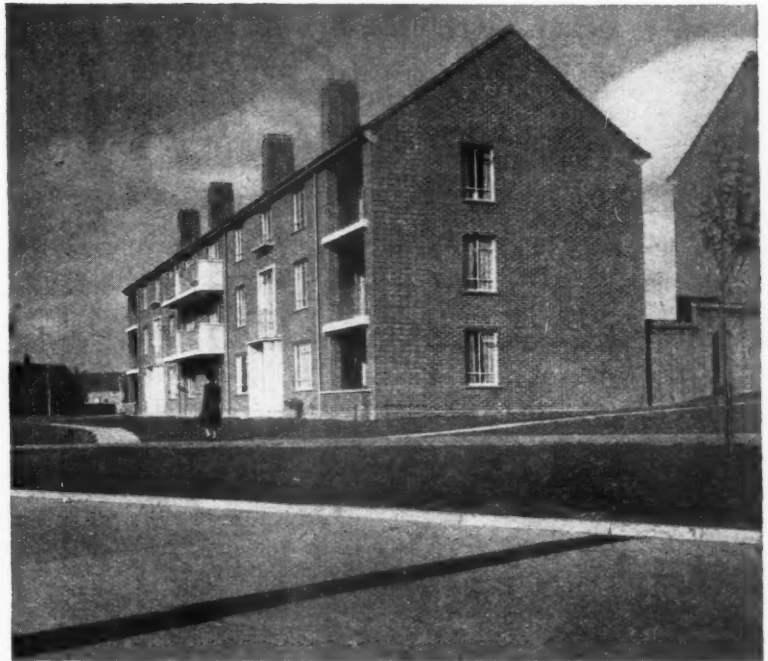


Typical floor plan

Below and right, two views of the three-storey blocks of flats on Allaway Avenue, Paulsgrove, of which the plans are shown above.

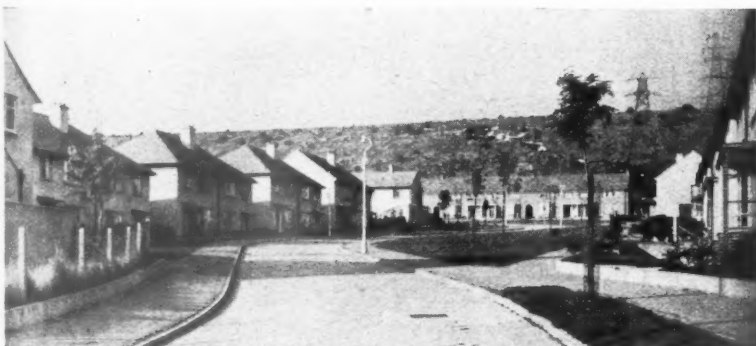


Ground floor plan [Scale: $\frac{3}{8}$ " = 1' 0"]



HOUSING : PAULSGROVE ESTATE

Left, a typical street of semi-detached houses on the Paulsgrove estate with the Portsdown hills beyond. Below left, Allaway Avenue, the most southerly road on the east-west axis of this estate. In the centre are old people's houses. Below, Howard houses at the east end of the estate.





HOUSING

Above, two views of the houses and flats on the Leigh Park estate by the City Architect's Department. Below, flats in Lion Terrace, by the City Architect's Department. Bottom, flats under construction in Arundel Street, for the Council, designed by R. A. Thomas.



of masts and hulls, but to tell the story properly the perspective must be increased to take in the wider scene embracing Portsmouth's neighbours.

Portsmouth until modern times lay confined in Portsea Island, a little over 3 miles across at its widest point, and about 4 miles long. Admittedly, however, the gap between Portsea and the mainland is very narrow; in fact, during the war, after the collapse of a bridge, the passage for the waters became a mere conduit 3 feet wide. On the mainland immediately to the north stand Cosham and Portsdown, the heights of which are occupied by the War Department, and across the foot has spread a rash of pre- and post-war housing. Further west is Portchester and the site of the Roman harbour, the town of Fareham and then, facing Old Portsmouth, is Gosport. While eastwards is Havant, with more suburbia at Waterlooville. Finally, separated from Portsea by the broad expanse of Langstone Harbour, is Hayling Island.

Because it is a County Borough the planning of Portsmouth is controlled by the City Council. In reality, Portsmouth, Gosport, Fareham and Havant are a closely knit group of communities forming a single area as far as planning should be concerned.

recent developments

Obviously taking a cue from Downing Street the City Council some months ago gave its planning committee a new name: it is now called "the City Development and Estates Committee," and its principal technical officer, G. F. Heath, is the Development Officer. Is the change of name indicative of a change of mind? Or is the change an attempt to camouflage "planning," an expression, which, as elsewhere, local citizens apparently attach to all kinds of council activity, and which is very far from being a popular expression locally. Why is this?

Is it that too many promises or too many gestures were made after the war and their fulfillment has been so negligently? Or is it that the business of planning is too complicated? It is very likely for both reasons.

The background to planning in Portsmouth is a confused one. During the war, though the City unhappily took its share of bombing, the council realized that one of the most pressing post-war problems would be to find land for housing. Bomb-damaged areas were too scattered and too small to be able to absorb more than a fraction of the number of the people on the housing lists. The City Council reckoned that it would have to cater for an eventual total overspill of about 40,000 people. In 1943 the City Council obtained the Minister of Town and Country Planning's sanction for their proposal to establish a satellite town, or garden city, at Leigh Park, and in 1949 negotiations were completed for the acquisition of about 1,675 acres. Subsequently, however, the City Council and the County Council, it seems, became at loggerheads on how the development should be done—Leigh Park is under the planning control of the County Council. After endless discussions and negotiations, including the preparation of an independent report on the whole question of the overspill problem by Max Lock, whose findings, incidentally, did not coincide with the views of the City Council, it was eventually settled that Leigh Park and the adjoining town of Havant should be developed for an additional population of about 35,000. After something like eight to nine years of negotiations building began in the spring of last year.

We will return to the subject of Leigh Park. We have said so much in order to give a picture of how, to the outside observers, it is patent that planning in Portsmouth has tottered along on a path roughened by the rivalries between City and County.

To complete this cameo sketch of the background a word must be said about the average citizen of Portsmouth.

Essentially, Portsmouth is a conservatively minded City. As would be expected, many naval ratings and warrant



INDUSTRIAL ESTATE (1) : FARLING- TON MARSH

There are twelve industries established on this estate, which lies north-east of Portsmouth. The total size of the estate will eventually be 141 acres. The widely varying quality of the designs can be observed in the photographs. Left, Mantle factory for C.W.S. Ltd., designed by W. J. Reed, chief architect, C.W.S. Ltd. Below, Twilfit factory, designed by Messrs. A. E. Cogswell and Son. Below left, factories for Sparshatts and



D. A. Daniels & Co., Ltd, designed by R. Lewis Reynish and Clayton & Black & Partners respectively—both Portsmouth firms of architects. Below, left to right, Arthur Coomer, Ltd. architect : A. E. Tuttle & Son. H. E. Collins, Ltd., architect : R. A. Thomas. Payne Bros., architect : C. A. Jolliffe.



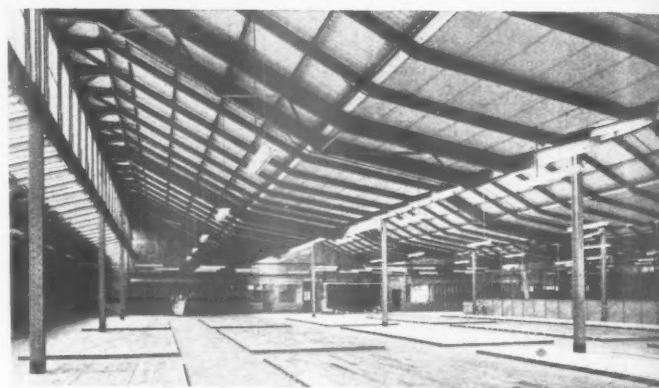
INDUSTRIAL ESTATE (2) : FRATTON

This site of 23 acres was once part of the grounds of the neighbouring St. Mary's Hospital. Below, left, factory for Remploy; architect : R. J. Sneller of the MOW. Below right, factories for Brobat and for Mills, architect : C. A. Jolliffe.



INDUSTRIAL ESTATE (2) : FRATTON

This supply depot for the NAAFI at Fratton, Portsmouth, was designed by Messrs. Joseph. It comprises warehouse, sausage and meat factory, bakery, garage, canteen and flats for the managers. Warehouse: floor area, 35,000 square feet with 12 stanchions at 45 ft. centres supporting Vierendeel girders of 180 ft. span. Suspended from the girders is a catenary-type roof construction covered with corrugated asbestos-cement sheeting. Factory and bakery: construction similar to warehouse but the ceiling is plastered on expanded metal behind which electric light conduits and pipes are concealed. Flats: four flats in a two-storey block, each flat consists of living room, dining room, kitchen, three bedrooms, bathroom and separate w.c. A laundry with washing machine is provided at roof level. Above right, the warehouse with the canteen on the left. Right, the interior of the warehouse.



KEY:

Offices :

1. Inspectors' Room
2. Command N.C.S.
3. Secretary

4. Sports Shop
5. Waiting Room
6. L.P. General Office
7. Warehouse General Office

8. Chief Cleaner.
9. Flour Store
10. Rest Room
11. Women's Changing
12. Women's Cloaks

Warehouse :

13. Kitchen
14. Sausage Factory
15. Baking Ovens
16. Preparation

17. Machines
18. Meat Factory and Bakery
19. Cold Room
20. Weighing Room
21. Store
22. Tin Wash
23. Cooling
24. Finishing
25. Packing
26. Despatch (Basement under)
27. Tray Wash
28. Broken Bulk
29. Refrig. Plant
30. Bakery Empties
31. Motor Boat and Soda Fountain Store and Workshop in basement under
32. Equipment and Services Articles in basement under
33. Warehouse
34. Furnishing
35. Empties
36. Fresh Produce
37. Despatch

38. Receipts
39. M.I. Room
40. Factory Office
41. Manager
42. Gate Keeper
43. Transfer
44. Men's Cloaks
45. Receipts
46. Garage
47. Workshop
48. Petrol Pump
49. Oil
50. Tyres
51. Drivers

Canteen and Flats :

52. Recreation Room
53. Canteen
54. Tavern
55. Servery
56. Wash up
57. Cloaks
58. Gardens
59. Living Rooms
60. Dust Bins
61. Bedrooms
62. Hall
63. Bath

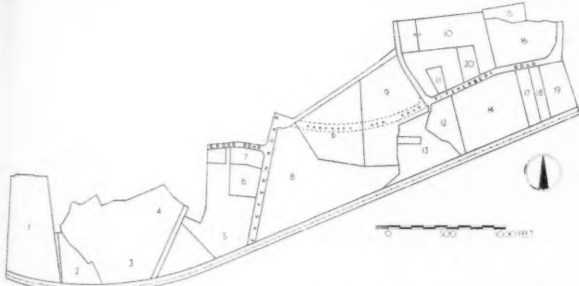


Ground floor plan

officers on their retirement spend their gratuity on buying a small house or shop. A very large number of properties is owner-occupied. The City Council is therefore keenly conscious of its duties to ratepayers, both as regards not imposing a high rateable burden and not inflicting harsh compensation terms. This fact, together with the recognition that Portsmouth, compared with some towns, is financially poor, goes to the heart of the planning problem.

achievements

The principal post-war achievement is the establishment of several new industries in the City. This is a subject on which local people feel strongly. Too long has the Navy dominated the labour market. The total of 22,000 engaged in the dockyards represents almost a quarter of the total insured population. During the years of depression employment in the yards fell to about 9,000. Moreover, people are conscious that naval estimates are on a year-to-year basis. The City Council has sought to find a stable alternative means of employment for men and also an industrial outlet for women. The way the Council has gone about this self-allotted programme has been to persuade the Board of Trade to allow new industries to enter the City and then for itself to provide the sites and the basic services.



Factories in the Farlington estate: (1) Southern Electricity Board. (2) Limmer and Trinidad Lake Asphalt Co. Ltd. (3) and (4) Portsea Island Mutual Co-operative Society bakery and garage. (5) Messrs. Leethams (Twinkl) Ltd. (6) Messrs. A. Coomer Ltd. (6) Messrs. H. E. Collins Ltd. (8) Coldair Ltd. (9) Chapman's Laundry. (10) Messrs. Jno. Goad Ltd. (11) Winney's bottling store. (12) C. J. C. Developments (Portsmouth) Ltd. (13) Site for small industries. (14) Messrs. R. G. Winnicott Ltd. (15) Laundry. (16) C.W.S. mantle factory. (17) Messrs. D. A. Daniells and Son. (18) Messrs. Payne Bros. (19) Messrs. G. H. Sparshatt & Sons. (20) Messrs. G. C. Nichols & Son.

The sites have been leased to private firms to build on. As can be seen from the plan above, the division of the sites has followed a straightforward "lease-what-you-need" policy. The Council has not attempted to build standardized factories for letting to small industries or to provide any communal welfare facilities, although a day nursery may ultimately be built.

The 91 acre Farlington estate—a further 50 acres south of the railway has been zoned to allow extensions—is the principal industrial area. Its development has little to offer, visually, to improve the scene. Its location is moderately convenient to people living in Portsea and those expected to live in Leigh Park. A secondary area is developing on the 23 acres of the Fratton Industrial Estate. A large factory has also been built at Paulsgrove, the site of the large post-war Council housing estate.

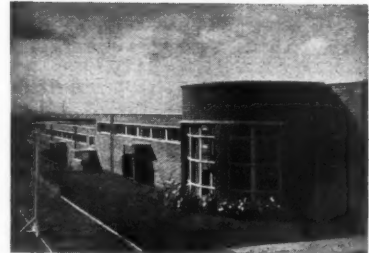
expansion outwards

By 1951, 10,756 people were living in Paulsgrove, the new estate to the north of the town, compared with 876 in 1939. This is a measure of the scale of post-war building activity by the City Council which has been responsible for practically the whole of the building and is now engaged in rounding it off. Apart from houses the estate possesses only two small local-shop groups. As to the layout, the estate is a conventional hotch-potch of prefabs, temporary and permanent, and traditional houses. We suspect that no one locally claims that the estate has any conspicuous merits.



SCHOOLS

Above, the Paulsgrove Primary School and right, the Hillside Primary School, both on the Paulsgrove estate and both designed by the City Architect's Department.



HOMES FOR THE AGED

Left and below, two views of the Old People's Houses in Landport Street, Portsmouth. Designed by the City Architect's Department.





SHOPPING CENTRE (1)

Above, and opposite page, new shops in Palmerstone Road, Southsea. From left to right, above: store for F. W. Woolworth & Co., Ltd., designed by H. Winbourn, staff architect. Shop for Timothy Whites and Taylors, staff architect. Shop for W. H. Smith & Son, architects: H. F. Bailey and J. W. Courtenay. Shop for Boots Pure Drug Co. Ltd., staff architect.

although a marked attempt to obtain cohesion to the whole has been tried by the careful siting of the three-storey flats shown on page 519.

Paulsgrove completes the trend begun pre-war for development to spread on to the mainland. The limit for expansion within the City has now been reached. In passing, it is worth noting that the focus of this mainland development is the old village of Cosham, now a major shopping centre, whose traders benefited from the blitzing of the City's leading shops in Commercial Road. The increase in the turnover of the Cosham shops has added to their value, and, doubtless to the annoyance of the traders, the City Council has sharply increased their rate assessments. Thus the City Council takes its share of rise in profits to help to pay for the rebuilding.

Since further housing land in quantity is now virtually non-existent within the City boundary, the City Council, in looking for building land, must now look outwards or turn

inwards. It has chosen in the first place to look outwards.

According to the present plan, Leigh Park is to be developed as a major extension to Havant to form one town of about 35,000 people. On the Leigh Park Estate itself about 6,500 dwellings can be built. Up to June, 1952, about 1,250 houses had been erected on the estate, 1,000 by the City Council and 250 by the Havant and Waterlooville Urban District Council. Owing to surface draining difficulties it is not possible to start industrial development; nor is school building started.

We do not propose to dilate on the reasons for and against the concentration of the overspill population mainly in one area in contrast to a wider spread, but we do wish to emphasize that in following this course the City Council is obviously building up a strong case for eventually seeking a boundary extension. It is much to be regretted that the activities of the local government boundary commission have been wound up. If this boundary commission had been

SHO

Shop
Road
Site
front
is un
and
str
third
concr
non-h
skin
Floor
condu
concr
above
and
Fini
plast
dado
tiles
All i
equip
tenan
to m
Elec
Dra
and
inspe
Price
four

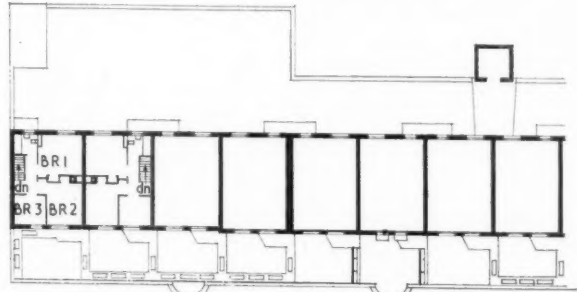
N
WAIT

SHOPPING CENTRE (1)

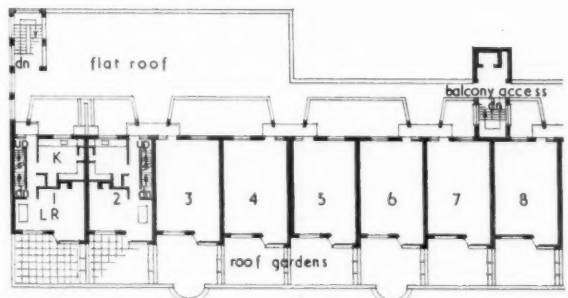
Shops and maisonettes (below, plans right) in Palmerston Road, by the City Architect's Department are let on lease. Site: approximately 430 ft. by 95 ft., with main shopping frontage facing east to Palmerston Road; a new service road is under construction to the west, a residential area to the north and a narrow pedestrian passage to the south. Construction: structural frame of reinforced concrete tee-beams to third floor level, stanchions carried down to reinforced concrete bases. Walls: external and internal, are cavity brick, non-load bearing in the case of shop and showrooms. Outer skin facing to shopping frontage: 4-in. artificial stone. Floors: integral with the RC frame, 1½-in. screed covering conduits and gas services. Roof: pitched Mendip-pattern concrete tile. Elevations: large segmental metal bay windows above canopy; 4-in. artificial stone, unpolished, above canopy and polished below to the top of pilasters between shop fronts. Finishes and fittings: internal walls, ceilings, distempered on plaster; central access passage, 2-ft. high stone plinth; stair dados, hard-glazed finish. Floors: thermoplastic tiles, cork tiles and terrazzo, and granolithic finish to service stairs. All internal shop fittings are installed by tenants. Services and equipment: gas and electricity installed under general contract, tenants to supply own appliances and light fittings. Hot water to maisonettes supplied by boiler serving radiators in bedrooms. Electric goods lift adjacent to stairs of rear service road. Drainage: one pipe system from maisonette through showroom and shop, cased in hardboard on timber framing, with removable inspection panels, each pipe system serving two shop units. Price: contract No. 1, two large shops and showrooms, four maisonettes, £33,860. Contract No. 2, four shops

and showrooms, five maisonettes and central access passage, £42,473. Contract No. 3, eleven shops, showrooms and eleven maisonettes, tender figure, £108,545. General contractor: Frank J. Privett Ltd. For sub-contractors see page 539.

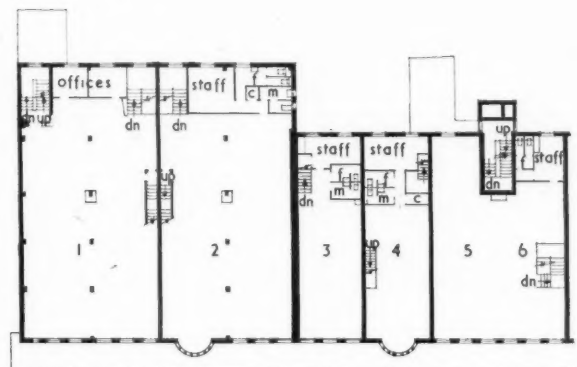
Below left, the street front. Bottom, the rear.



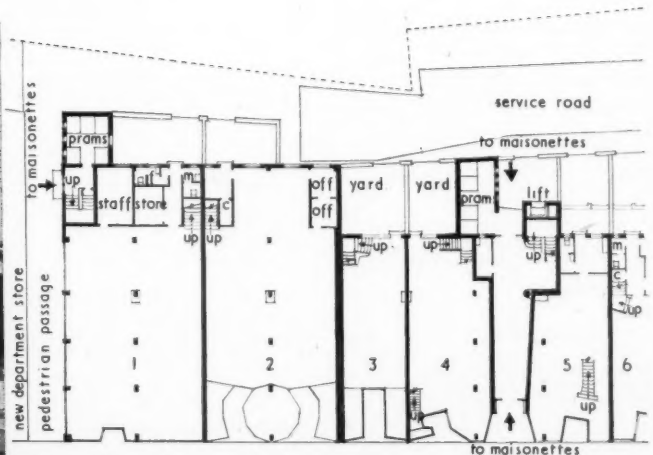
Third floor plan



Second floor plan



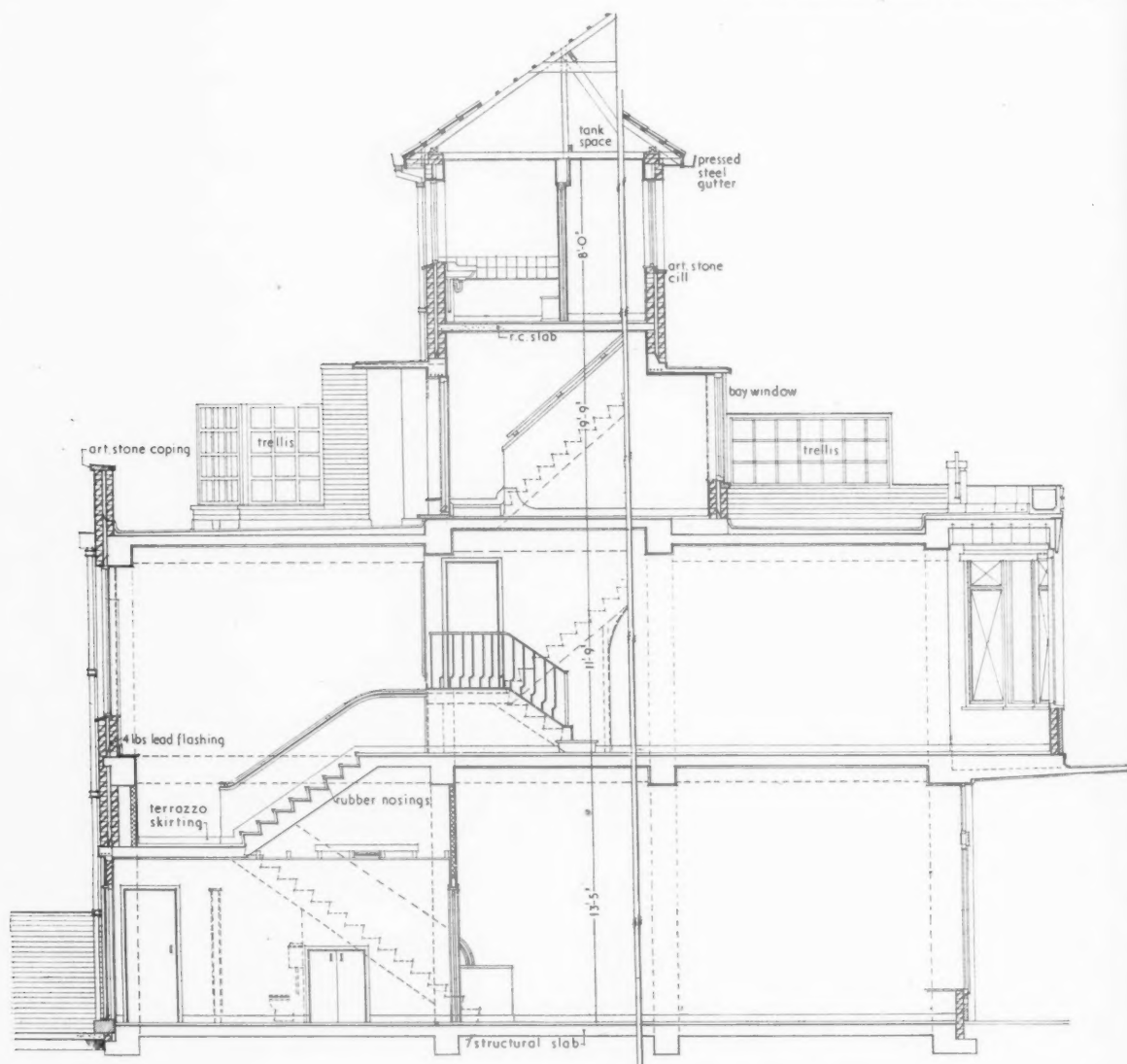
First floor plan



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



Front elevation of shops in Palmerston Road

Section of shops in Palmerston Road [Scale: $\frac{1}{8}'' = 1'-0''$]

able to give its attention to the Portsmouth conurbation, the course of planning in this area might have been much smoother.

rebuilding the centre

Rebuilding the centre of Portsmouth began in 1949. The major bomb damaged areas lay around the periphery of the Royal dockyards. The most advanced example of rebuilding is Commercial Street shopping centre. The shops are all architect designed, careful attention has been given to the design of façades and selection of facing materials, but in layout and spirit it is the old stuff gone back again. But it is probably what the average Portsmouthian, born and bred in houses almost universally laid out on the grid-iron pattern, likes.

The City Planning—or rather the *Development*—Officer estimates that rebuilding after war damage may well take another 15 years at the present rate. In the meantime, the

city lacks any large meeting or concert hall; the Guildhall should serve these functions, but it stands as a gutted shell. Socially, the lack of such a hall is probably the worst effect of bomb damage among civic buildings. Economically the city suffers as a result of valuable sites in the central area lying idle for years. Long term planning may also be affected. For instance, a new civic centre is badly wanted. The Council is trying to establish a large site, but recently an inroad has been made into this by the Council being obliged to let an adjoining meat store expand on to the vacant site. While there is no civic centre, the Council has to house its offices in a row of former boarding houses in a prominent part of the holiday area of Southsea.

reclamation of land and open spaces

One of the positive steps the City Council is taking to increase its assets is to reclaim mudlands for use as public open spaces. The method is to build a road to form a sea

d

1

7

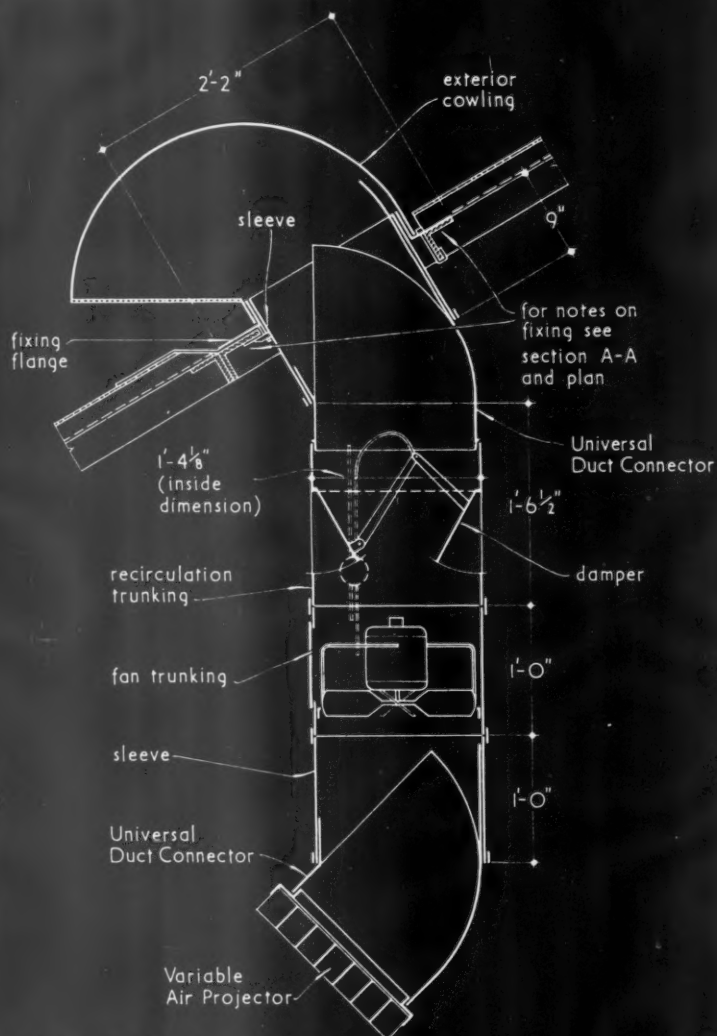
dhall
shell.
effect
y the
area
o be
nted.
ently
being
o the
l has
in a

o in-
public
a sea

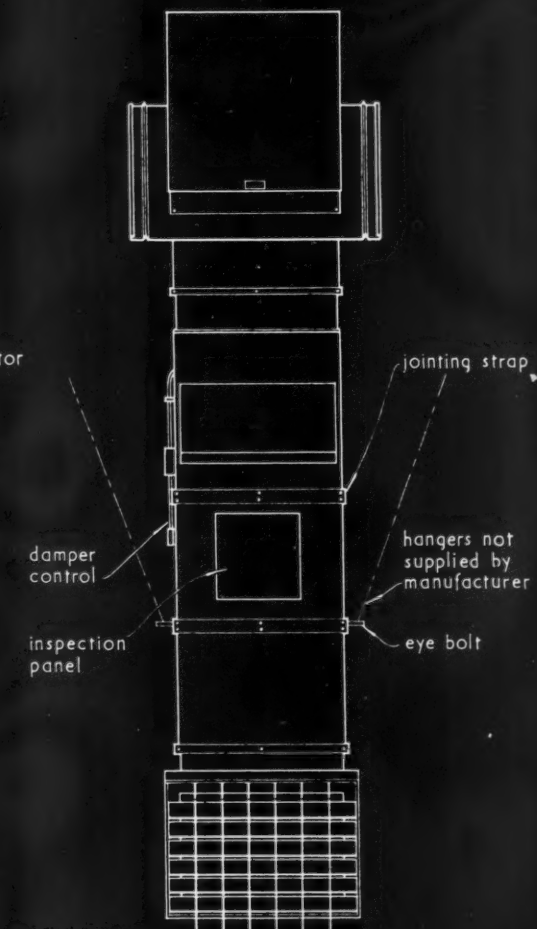
VENTILATION | UNITS

30.EI

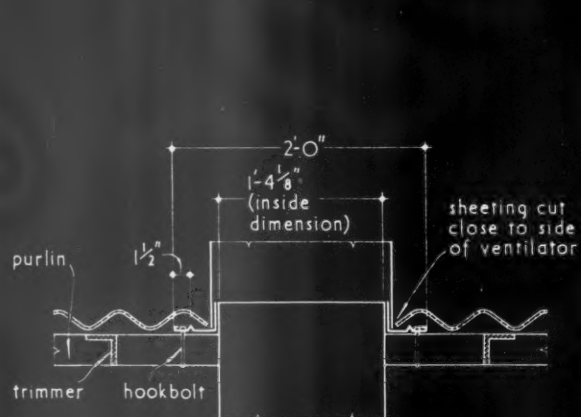
The Architects' Journal Library of Information Sheets 387. Editor: Cotterell Butler, A.R.B.A.



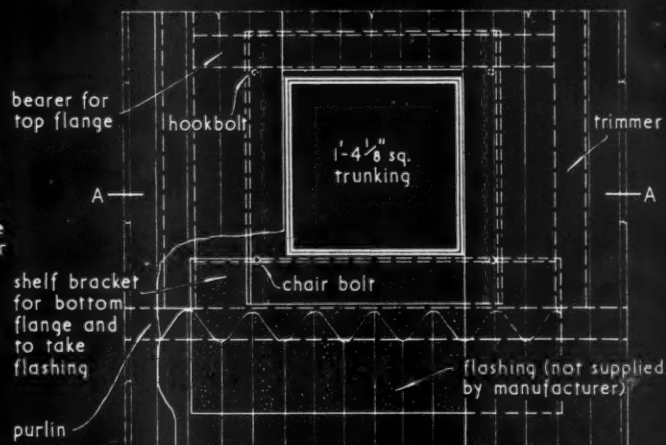
VERTICAL SECTION THRO' VENTILATOR.
(showing fixing in steel roof with corrugated sheeting)



FRONT ELEVATION.



SECTION A-A.



PLAN AT ROOF. (exterior cowling removed)

30.E1 COLT ROOF INFLOW VENTILATING UNIT

This Sheet one of a series dealing with Colt ventilators, describes the roof Inflow Unit. The ventilator can be fixed in any type of roofing (including glazing); the drawings on the face of the Sheet give a section and elevation of the unit, together with details of fixing.

General

This powered ventilator is primarily used to introduce fresh air into a building, but it may also be set to function in the following ways: as an extract ventilator; as a partial inflow unit, mixing fresh air with recirculated warmed air from inside the building; as a recirculator of warmed air within the building.

Size

The main dimensions of the ventilator are given on the face of the Sheet.

Material

The material used is anti-corrosive hardened aluminium alloy.

Components

Exterior cowlings: This fits over the collar of the fixing flange: its mouth is provided with a removable screen of $\frac{1}{2}$ -in. galvanised woven-wire mesh.

Fixing flange: The upper and lower parts of the flange rest on bearers to which they are fixed. At each side a small corrugation acts as a weather bar and the edge of the metal is turned up to form an additional safeguard.

Sleeve: The upper part of the sleeve fits into the fixing flange above and the lower end fits over the Universal Duct Connector. This component is also used to connect the vertical trunking to the Universal Duct Connector at the lower end of the ventilator.

Universal Duct Connector: This provides a smooth bend in the duct of up to 90 deg. in any one of four directions and makes it possible to hang the ventilator vertically in roofs of any pitch. A similar component is used at the lower end of the vertical trunking to receive the Variable Air Projector described later.

Recirculation trunking: This component is fitted with two dampers controlled by Teleflex gearing.

Fan trunking: This contains a reversible propeller fan together with an enclosed motor (operated by a switch placed at any convenient point in the building). It is rated at 2,100 cubic feet of air per minute in either direction. At the bottom of this section are eyebolts to receive the hangers which suspend the unit from the purlins or other roof structure.

Variable Air Projector: This is an adjustable louvre, fitting into the end of the trunking. It has horizontal and vertical sets of interlocking deflector blades to

form a grid; they may be arranged by hand to give a concentrated or diffused air flow in one or more directions.

Fixing

The Inflow Unit may be fitted easily to different types of roofing such as tiling, glazing and corrugated sheeting. The details on the face show how it should be fixed in a roof with steel trusses and corrugated sheeting. Provision must be made for a bearer at the top and a shelf bracket below to seat the unit and provide support for the flashings. With a glazed roof the fixing flange may rest on the glazing bars as the weight of the ventilating unit is taken by the hangers attached to the purlins. In a flat roof the unit is fixed to a curb and the upper Universal Duct Connector is omitted.

Application

The main purpose of these units is to enable fresh air to be brought into a building at any desired position, even at the centre of large floor areas which could not be reached by wall ventilators. They are also used for cooling "hot spots" or creating air movement to mitigate the effects of process heat.

Accessories

Various accessories are available: air-tempering units and heater batteries for warming or heating incoming air, and filter units for filtering incoming air can be supplied.

Fixing Service

A service is provided for fixing Colt ventilators in any part of the country.

Further Information

The manufacturers maintain a technical department and testing laboratory, together with an outside technical staff, resident in all the main centres throughout the country, who are available to answer questions and advise on technical problems and carry out site surveys.

The manufacturers also supply a comprehensive manual giving full technical details and containing nomograms from which the requisite number of ventilators can be calculated for any particular problem.

Compiled from information supplied by:

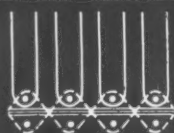
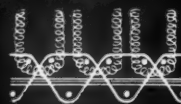
Colt Ventilation, Limited.

Address: Surbiton, Surrey.
Telephone: Elmbridge 6511-5.
Telegrams: Coltile, Phone, London.

FURNISHINGS | CARPETS

45.A1

The Architects' Journal Library of Information Sheets 388. Editor: Cotterell Butler, A.R.I.B.A.

normal pile yarn
with 2-shot weavecrush-resisting pile yarn
with 3-shot weave

TYPICAL STRUCTURE OF PLAIN BODY CARPETS.

broadloom	grade	tufts per sq. in.	backing	size	colours
CONSULATE	supreme	108	light or heavy	2'3" to 33'0" wide by any length	ranges A and B and special colours
	super	60			
CURLSAX	supreme	94			range A and special colours
	super	55			
	standard	44			

broadloom: wide seamless carpet woven in one piece

body	grade	width	colours
CRUSADER	I	27" wide (special widths of 36", 45" and 54")	ranges A and B and special colours
	II		
	III		
	IV		
CURLSAX	3-shot popular		
VITASAX	I		range A and special colours
	II		
	III		
	IV		
ROYALIST	deep-pile Wilton	27", 36", 45" and 54"	various colours and designs to order

• range A: blue mist, cherry, garnet, harvest fawn, oasis green, rust, Siamese pink, and silver grey
 range B: blueberry, forest green, French lilac, gun-metal and mustard
 special colours: in broadloom, for 10 square yards or more: in body, for 25 linear yards or more

body: strips for sewing up to form carpet

TYPES OF CARPET.

situation	smooth pile		crush-resisting pile		curly pile
	broadloom (2'3" to 33'0" wide)	body (27" wide)	broadloom (2'3" to 33'0" wide)	body (27" wide)	body (27" wide)
bedroom dressing-room	CONSULATE	CRUSADER	CURLSAX	CURLSAX	VITASAX
	super	grade IV	standard or super	popular or 3-shot	grade IV
living-room	super or supreme	grade IV, III, II or I	super or supreme	3-shot	grade IV, III, II or I
hall stairs landing	supreme (heavy back)	grade III, II or I	supreme (heavy back)	3-shot	grade III, II or I
cinemas hotels offices ships showrooms theatres	super or supreme	grade IV, III, II or I according to use	standard, super or supreme according to use	3-shot	grade IV, III, II or I according to use

CHOICE OF PLAIN CARPET.

the grades shown satisfy normal requirements: better grades may always be substituted

CARPETS AND CARPETING.

Compiled from information supplied by S.J. Stockwell and Co. (Carpet) Ltd.

45.A1 CARPETS AND CARPETING

This Sheet gives general data on carpets and carpeting and gives details of Stockwell all-woollen pile carpets of various types.

General Considerations

Floor surface: If the floor on which the carpet is to be laid is worn or slightly uneven it should first be levelled up or smoothed. On old wood floors that have open joints between the boards there is a danger that dust may be drawn up by a vacuum cleaner, causing unsightly lines on the carpet. This may be prevented by laying a building paper on the boards to isolate the carpet from the floor.

In any situation the use of an underfelt or a sponge-rubber underlay will provide more resilience, absorb the greater thickness at seams, if any, and prolong the life of the carpet, as the backing is not subjected to rubbing on the hard floor surface.

Clearance under doors: Allowance for thickness should be made and is preferably gauged on the site with sample strips of carpet and underfelt fixed at the threshold before the door is hung.

Fixing: It may be necessary to secure a carpet square to the floor to prevent movement unless there is heavy furniture to keep it in position. Fitted carpets should always be fixed.

The usual method of fixing is to drive tacks through the carpet. Where ease of lifting is required, flat metal rings may be sewn on the back of the carpet near the edge; these are then hooked over the heads of nails left slightly projecting from the floor.

Where carpets are to be used on a hard flooring material that cannot be nailed, provision should be made for fixing fillets or plugs to be set in the floor.

Fitted carpets: Owing to their unbroken surface from wall to wall fitted carpets create an effect of greater spaciousness in a room. Cleaning is simplified as only one process is employed and draughts from under the floor or skirting are prevented.

Carpet squares: These, although costing less, require a surround, the cost of which must be taken into account. Extra labour is involved in the separate cleaning of the surround and the edges of the carpet may become marked by contact with floor polish.

Marking and wear: When it is liable to heavy or concentrated wear a figured carpet is generally less likely to show footmarks than a plain one. Where a plain carpet is preferred, the Stockwell Curlsax carpet may be used, as the special pile resists foot impressions and other crush marks. It is advantageous to turn a carpet round from time to time, distributing the wear; this is difficult to do with a close-fitted carpet but is possible with a carpet square. Rigorous independent tests have been carried out on Stockwell carpets that show their high resistance to wear and they carry the seal of Guarantee of the British Good-Housekeeping Institute.

Structure of Carpets

Grades: In general, carpets are graded according to the following three factors: the quality of the yarn used; the depth of pile; the closeness of weave.

Weaves: Many weaves are used in carpet construction; the better known are Axminster and Wilton. Generally there is little difference, if any, in the wearing quality of these two types if the original cost of each is the same.

The illustrations on the face of the Sheet show plain body carpet using a straight yarn with the normal 2-shot construction, and the Curlsax special yarn woven with a 3-shot construction by which the pile is more tightly secured.

Backing: Broadloom carpets with a light back (usually jute) are suitable for rooms where an underfelt is to be used. Carpets with heavy backs may be laid direct on any even-surfaced floor where it may be necessary on occasions to roll back the carpet for dancing.

Types of Carpet

General information is given below on the various Stockwell carpets. Further particulars appear in the tables on the face of the Sheet.

Texture: The third table on the face of the Sheet sets out types of carpet that are suitable for various uses. It is divided into three groups having different textures dependent on the nature of the pile. Carpets in the first group have a smooth velvety texture, those in the second have a crush-resisting pile and the third group a curly pile, the last two having a rough texture.

Consulate: This is a plain broadloom carpet with a smooth pile.

Crusader: This is a plain body carpet with a smooth pile.

Curlsax: This is made as a plain broadloom and a plain body carpet, both having a rough-textured, crush-resisting pile. The depth of pile is intentionally reduced by the use of a yarn specially twisted like a coiled spring to give the carpet its high resistance to crushing.

Vitasax: This is a body carpet with a rough-textured, curly pile.

Royalist: This is a figured Wilton body carpet with a deep pile for heavy-duty contract work. For contract quantities sketches of contemporary designs by Ronald Grierson, M.S.I.A. are available or may be specially produced to clients' wishes.

Mothproofing

All Stockwell carpets are permanently proofed with Mitin against moths, carpet beetles, woolly bears and all wool-digesting insects. This mothproofing is unaffected by washing or dry-cleaning and acts as a strong resistant to mildew and other similar growths.

Colour

The woollen yarns used for these carpets are dyed prior to weaving and particular attention is given to the evenness of colour. All colours are fade-resisting (not claimed to be fadeless), the dyes being the most permanent available.

Compiled from information supplied by:

S. J. Stockwell & Co. (Carpets), Ltd.,
Address: 16, Grafton Street, London, W.1.
Telephone: Grosvenor 5734.



SHOPPING CENTRE (2)

Above, four shops in Commercial Road. From left to right. Shop for True-Form Ltd., staff architect. Department store for F. W. Woolworth & Co., Ltd., H. Winbourne, staff architect. Littlewoods Ltd., staff architect. C & A Modes, architects: North and Partners. Below, department store for Messrs. McLroys, Ltd., architect: E. C. P. Allen.

wall and to fill in the land behind with refuse. In this way the Council hopes to gain about 250 acres within the next twenty years.

One of the misfortunes of Portsmouth is that the bulk of its open spaces for civilian use lie on the eastern side of the city—the Services playing fields are relatively far more accessible to *their* users. Within the urban area of Portsea the largest private spaces are two cemeteries. It is a curious anomaly that while the dead have to be carried on their journey only a short way, once, the young living are obliged to travel a long distance before they can play.

The present policy of the Council is to build houses on cleared sites. Local open spaces and school sites can be found when they start the slum clearance programmes. Let us hope they will be. In any event, this will not happen for at least another eight years, by when the peripheral housing schemes will be sufficiently far advanced, the Development Officer estimates, to allow slum clearance to start.





SHOPPING CENTRE (2)

Above left, Dolcis Ltd., one of four shops with a common elevation. Co-ordinating architect: Ellis E. Somake, in conjunction with:—Clayton & Black & Partners for Picketts & Pursers; Hillier, Parker, May & Rowden for Salisbury's; L. Lewis Reynish (staff architect) for Brents. Left, C & A Modes, architects: North and Partners; and H. Samuel, architects: W. H. Watkins and Partners. Top, shops in Commercial Road, and above, in Arundel Street, designed by Ernest J. Thomas, Jolly & Grant. The last two properties are built on land owned by the City Corporation and leased to the respective owners for ninety-nine years. Construction: load-bearing brick walls, steel beams and patent concrete floors.

There is a programme for the removal of 7,000 dwellings by 1971. It is surprising that clearance can be postponed for so long. The answer, we gather, is due partly to the local custom for houses to be owner-occupied. Quite naturally such occupiers have been willing to maintain their properties in a way which no landlord receiving five bob a week could probably do.

the sea front

We began this article by observing how the growth of Portsmouth has been governed by maritime influences and we end by discussing Portsmouth's finest natural feature, the sea-front.

From the old harbour the front reaches about 2½ miles around to the Marine Barracks beyond South Parade Pier. How magnificent it would be if the front could be extended to its natural limit of at least six miles, past the Marine Barracks to Cumberland Fort and then over the water to Hayling. It is the City Council's long term hope to bridge

over the water. Access to Hayling Island at present is either by ferry or by road, via a detour of fifteen miles. The beach at Southsea is shingly and narrow, and ready access to the fine sands at Hayling Island would be a great boon. For full advantage to be made of the six mile long front it would be desirable for the marines to give some of their land for town use. The Corporation itself would do well to have some thoughts on improving the front at Southsea. The presence of such a wide open space—it is about ¼ mile wide—is a relief after the mass of building, but it is possibly a little too open and bleak. Given judicious setting and design, the layout of some new buildings to be used mainly by the holiday trade could give some shape and interest to the openness of the front. Such buildings would have to be sited at right angles to the main axis of the front to avoid cutting off the view of the sea from the inland Parades. Must, too, the War Office keep the parade ground at Southsea Castle? A touch of boldness is wanted in the treatment of the sea front.

TECHNICAL COLLEGE

at ANGLESEA ROAD, PORTSMOUTH

designed by : CITY ARCHITECT, FRANK MELLOR

senior architect, schools, G. C. P. GOUGH

assistant architects, N. G. KELSEY and J. WILSON

The new buildings for the Portsmouth Municipal College were planned to meet the increasing needs of local technical education. As the smallness of the site of the old college prevented an extension it was decided to erect this self-contained unit on the only available land within a reasonable distance : a site of $2\frac{1}{2}$ acres in Anglesea Road. This building, being the largest and perhaps the most interesting contemporary building in Portsmouth, is published in some detail on the following four pages.

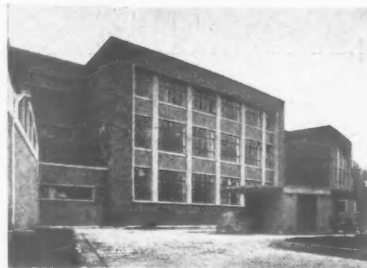
The main block from the north-east.



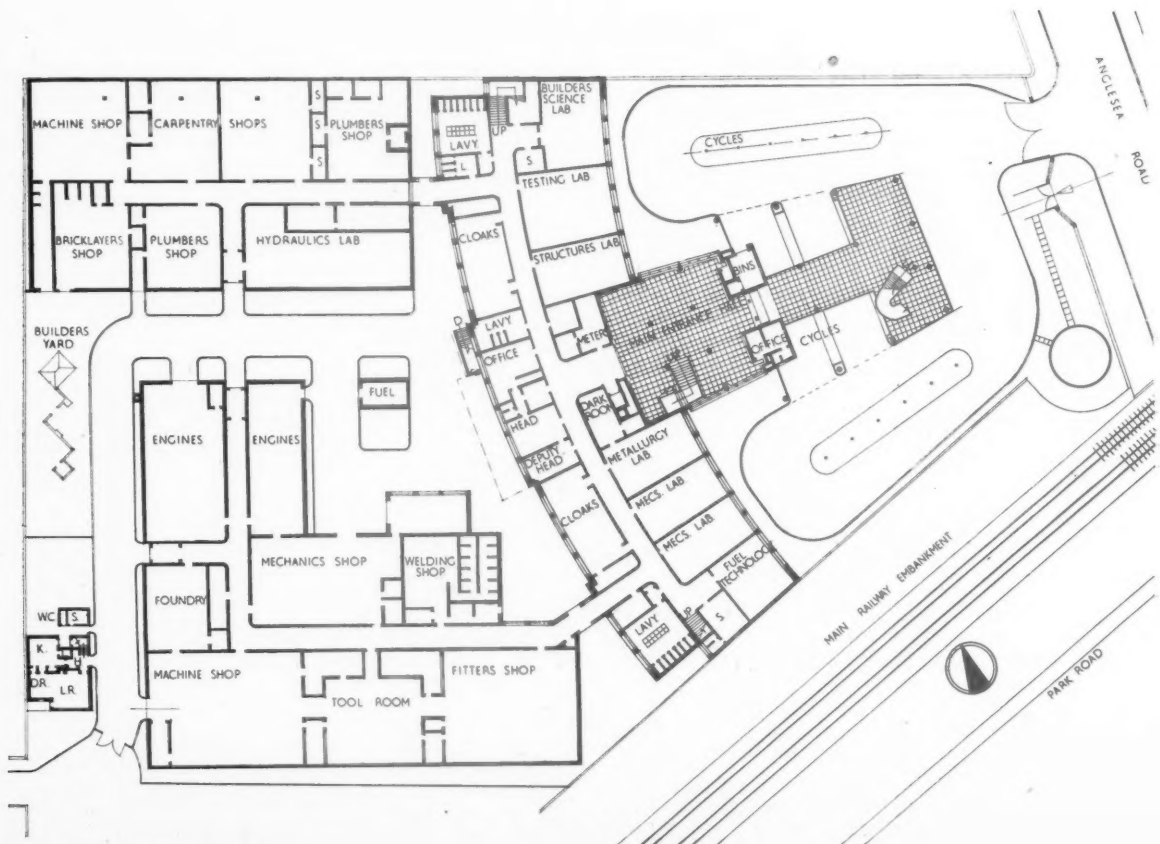
GENERAL.—Accommodation required: engineering and building workshops, classrooms, laboratories, drawing offices, domestic science rooms, a lecture room, public restaurant and students' cafeteria. The last two items are for training a department of the hotel and catering industry.

SITE.—Triangular, with truncated apex on the east boundary to Anglesea Road. Alternative service access from the west. Sub-soil is water-logged at 5-6 ft. depth. Piles had to be sunk to a depth of 35-40 ft.

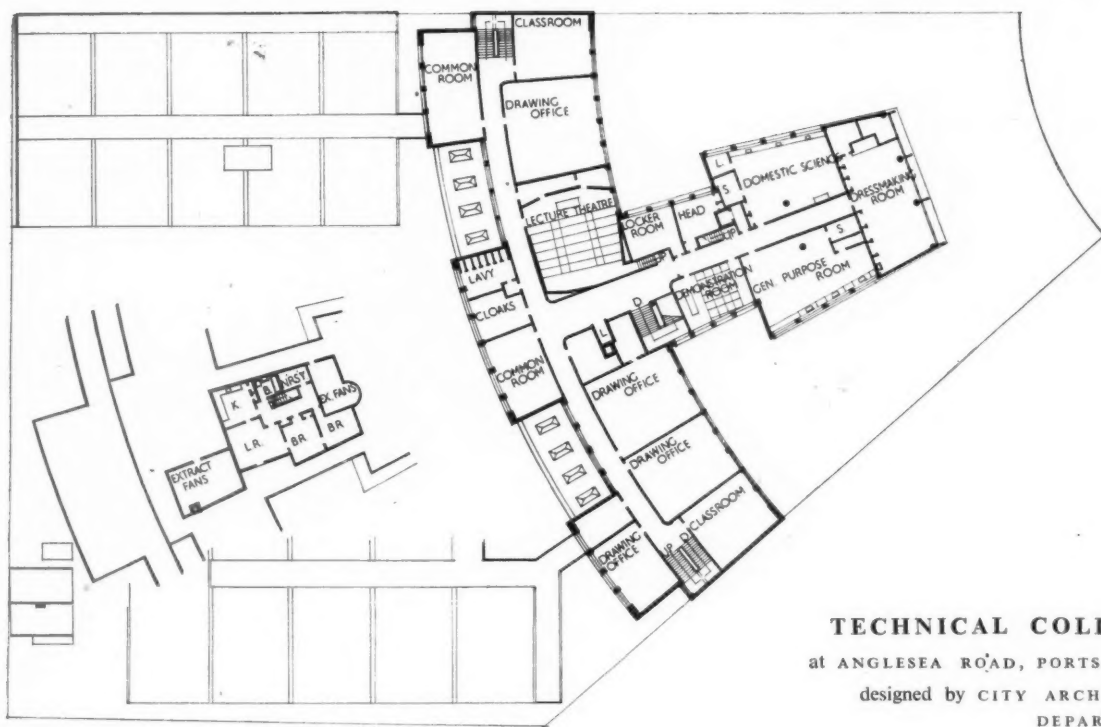
CONSTRUCTION.—*In-situ* reinforced concrete frame on 350 reinforced concrete piles, which also support the foundation beams to the walls. Basement boiler house: floor and walls, reinforced concrete, tanked with asphalt. To minimise dead-load, floors and roof slabs are of *in-situ* hollow beam construction, and internal partitions of lightweight



Above right: The main block, showing the sculpture by R. Matthews on the wall flanking the dress-making room and the public restaurant. At ground floor level can be seen the suspended staircase. Right, the rear of the main block from the west. Extreme right, students' cafeteria.



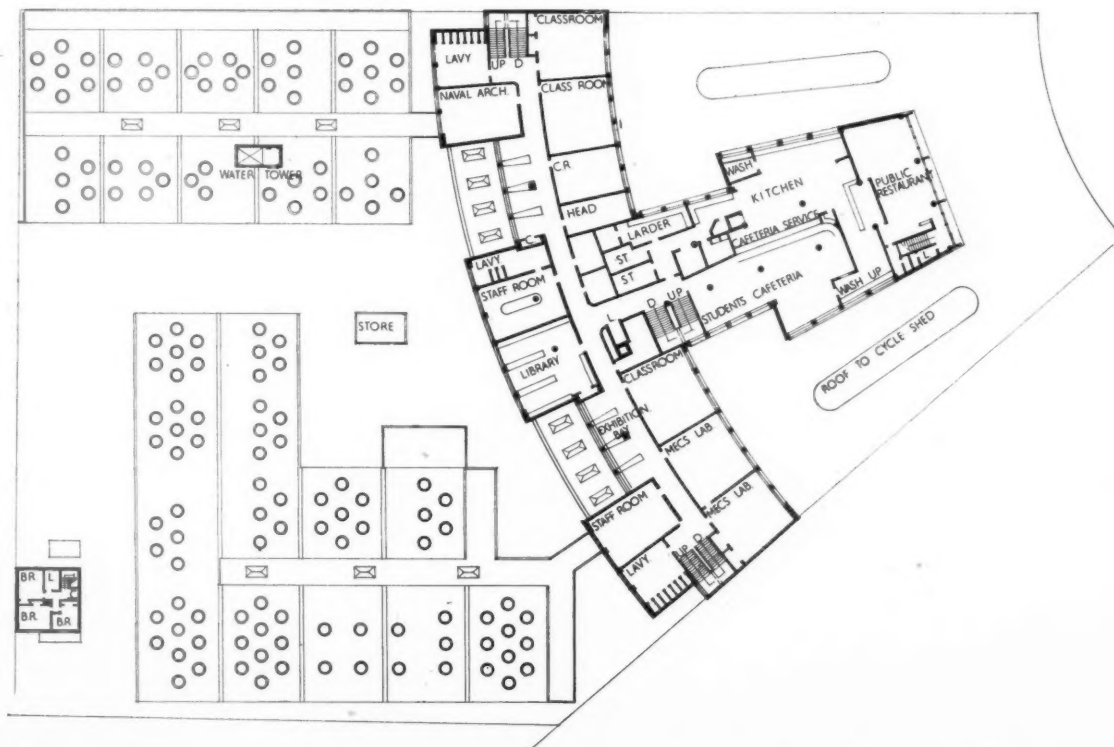
Ground floor plan [Scale: 1/4" = 1' 0"]



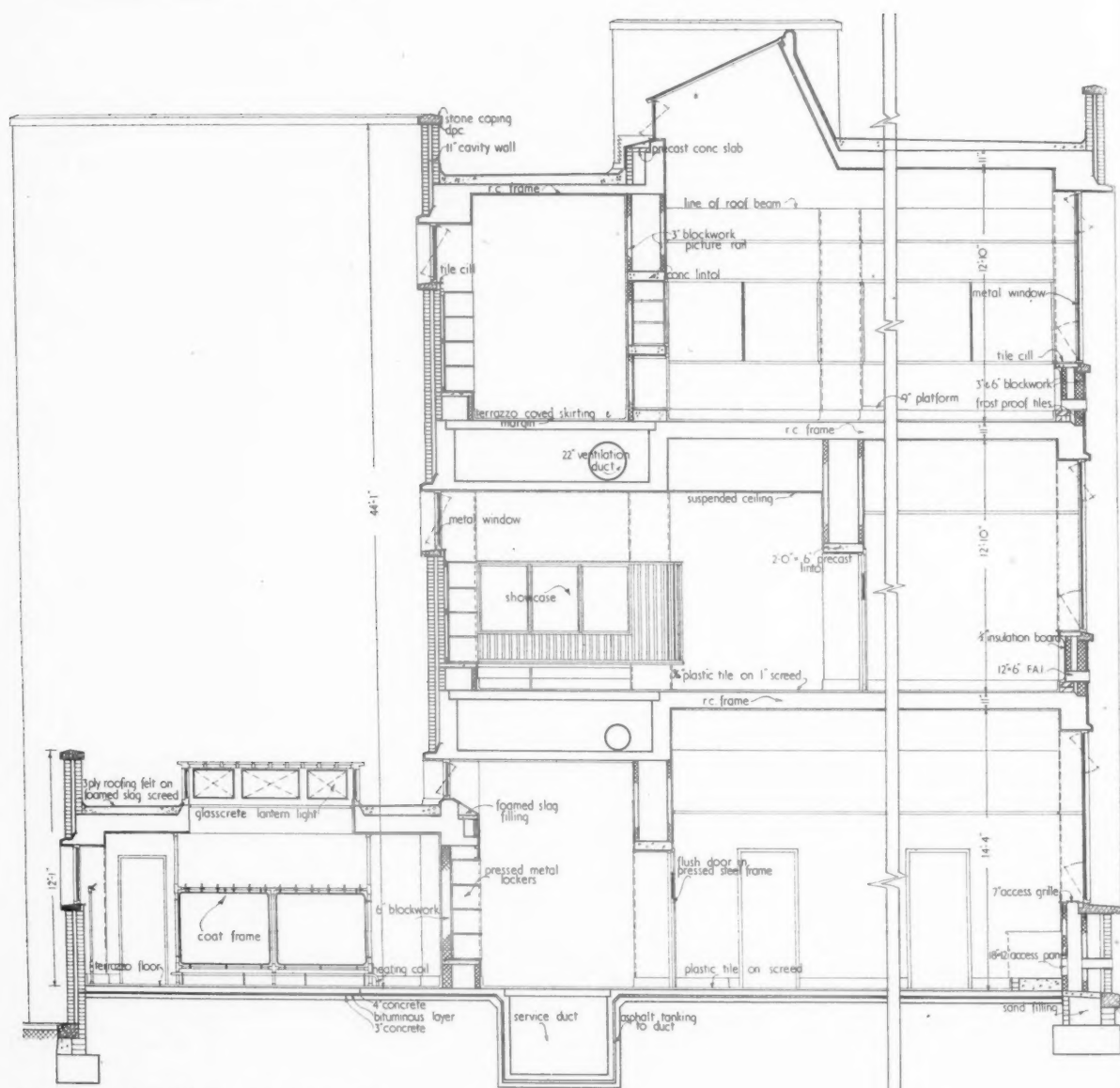
Second floor plan and domestic science flat on third floor



South elevation and part section through main block



First floor plan

Section through main block [Scale: $\frac{1}{4}" = 1' 0"$]**TECHNICAL COLLEGE**at ANGLESEA ROAD,
PORTSMOUTHdesigned by CITY ARCHI-
TECT'S DEPARTMENT

concrete hollow blocks. Workshop roofs: barrel vault, shell concrete, with fibreboard soffit. Free standing staircase to public restaurant: reinforced concrete, suspended by steel rods in the oak mullions of the enclosing glazed screen and hanging from the floor above. External walls: workshops, 11-in. brick; main building, brick and clinker block with cavity. Internal partitions: two skins clinker block flush with faces of columns and with cavity utilised for service runs and ventilating ducts. Roofs: flat, three layers of bituminous felt on foamed slag insulating screed; barrel vault, bituminous felt.

EXTERNAL FINISHES.—Exposed concrete: stone plaster render, textured finish. Plinth:

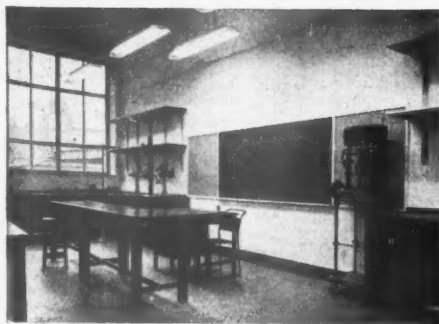
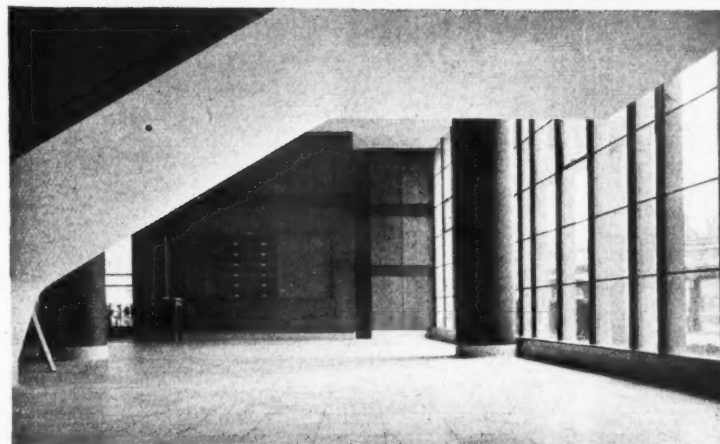
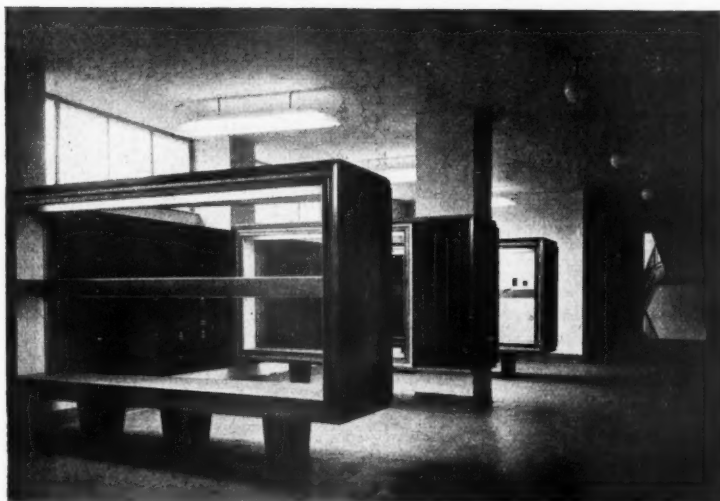
artificial stone. Cladding: 2-in. brick with stone coping and blue faience tiles. Glazed screens at entrance in Hopton Wood stone reveals.

INTERNAL FINISHES.—*Walls:* entrance hall: flush panelled in oak with sunk margins painted blue. Kitchen: white tiles with eggshell glaze. Workshops: fair-faced cream flint bricks. Main building, plastered with stippled glaze finish in restaurant, cafeteria, cloakrooms, and to dado height in domestic science practical rooms. *Floors:* main building, thermoplastic tiles; entrance hall and cloakrooms, terrazzo; kitchen, quarry tiles; restaurant, cork tiles; workshops, industrial-type granolithic with oak wood blocks in carpenter's shop.

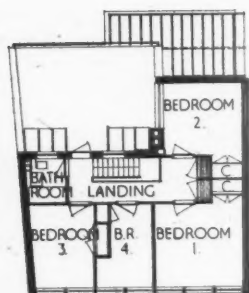
SERVICES.—Heating, main block: accelerated low pressure hot water from automatic solid fuel boilers, thermostatically controlled, serving copper pipe coils embedded in plaster ceilings and radiators under windows. Hot water, by separate boiler. Workshops: industrial-type overhead electric heating units. Lighting: generally fluorescent, stroboscopically corrected in workshops where high-speed machinery is installed. Ventilation: an extract system ensures cross ventilation in classrooms and removes fumes in kitchens and workshops. Service mains are in a continuous duct under the ground floor corridors with access by manhole covers. Branch services are in ducts in cavity partitions and above suspended ceilings. Drainage is by pipes cast in the reinforced concrete columns during construction or in hollow non-structural columns.

COST.—Contract price: piling, £9,817; workshops and caretaker's house, £73,898; main building, £216,400. Cost per foot cube: workshops, 2s. 8d.; main building, 4s. 8d.

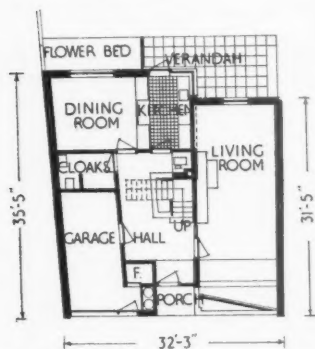
General contractors: Hawkins Bros. (Gosport) Ltd. (stage I); Kirk & Kirk, Ltd. (stage II). Sub-contractors: see page 539.



Right, reading from top to bottom: the show cases in one exhibition bay on the first floor; the main entrance hall from beneath the main staircase; another view of the main entrance hall. Above, two views of typical laboratories, showing built-in furniture.

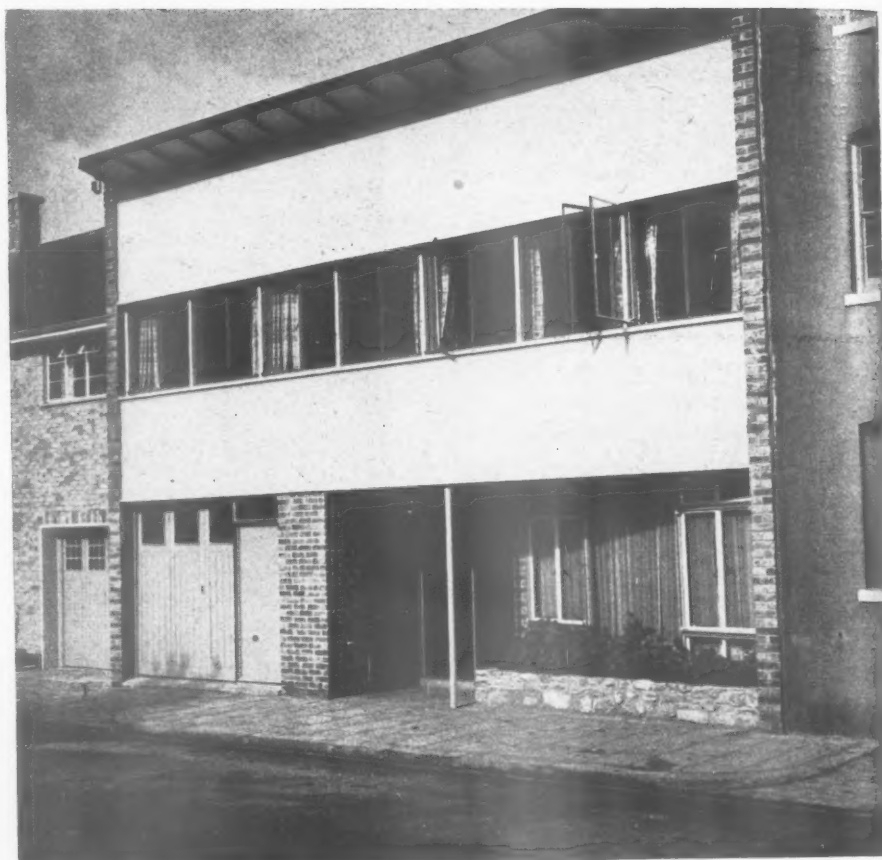


First floor plan



Ground floor plan [Scale: $\frac{1}{8}$ " = 1' 0"]

Above right, street elevation. Right, living room; extreme right, the hall.



HOUSE

in PENNY STREET,
PORTSMOUTH

designed by A. G. GOODAIR

SITE.—On the north west side of Penny Street, in the old town.

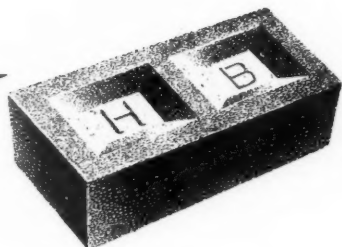
PLAN.—The clients required a four-bedroom house of 1,500 ft. super. As the only access to the site is from the front, the garage and secondary access is alongside the front door.

CONSTRUCTION.—External and party walls: cavity construction; when load bearing, all brick; otherwise, hollow clay block. Roof: single pitch with asbestos cement tiles on roofing felt, and insulation board on timber purlins carried on

light timber trusses. First floor: timber joists and t. and g. boards.

INTERNAL FINISHES.—*Walls:* hall and part of living room: facing brickwork; elsewhere, plaster, distempered or papered. *Floors:* hall and part living room: York stone flags; remainder of living room, oak strip. Kitchen and cloakroom, quarry tiles; elsewhere, deal boarding. *Services:* heating, invisible panel warming by hot water ceiling panels, thermostatically controlled. The solid fuel boiler also provides hot water.

COST.—Contract price was £2,500. General contractors: V. J. & C. A. Holland. Sub-contractors: see page 540.



THE
HAMMILL BRICK
COMPANY LTD.

*Have been privileged
to help in the
re-building of the new
Portsmouth*

HAMMILL BRICK CO., LTD.
EASTRY SANDWICH KENT.
PHONE : EASTRY 231/2

At last

AN ENTIRELY NEW PAINT
WITH EVERY ADVANTAGE

Lansdowne Emulsion Paint



***Sealer, Undercoat and
Top Coat all in one Tin***

Whether you've used Emulsion Paints before or not, we invite you to try Lansdowne Emulsion Paint on any clean surface you like—even pitch, creosote or new plaster. The excellent result will speak for itself. Lansdowne Emulsion Paint dries in under three hours and can be brushed on or sprayed. It has extra covering power and forms a tough, elastic film which resists scratches and does not pick up dirt. Lansdowne Emulsion Paint is available in a complete range of colours and in two finishes—matt and eggshell—for general application. Write or 'phone for a sample tin, Shade Card and Prices.

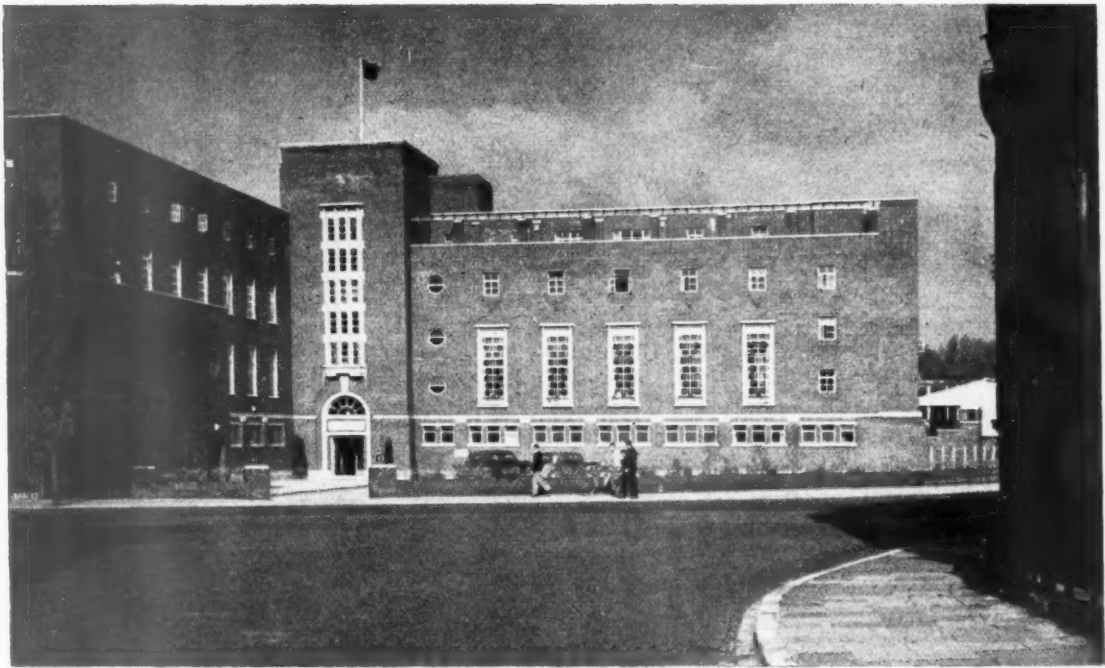
OTHER LANSDOWNE PRODUCTS

High Gloss Paints	Red Oxide Paints	Implement Paints
Undercoatings	Priming Paints	Anti-Corrosion Paints
Wall Finishes	Bituminous Paints	Metallic Paints
Fine Enamels	Varnishes	Stoving Enamels
Washable Distempers	Tractor Paints	Industrial Finishes
Aluminium Paints		

Lansdowne

... a good name
for service in paint

LANSDOWNE PAINTS, LANSDOWNE WORKS, BARNET, HERTS. (BARNET 3640 AND 2418)



CLUB HOUSE

for UNITED SERVICES OFFICERS'

CLUB, PORTSMOUTH

designed by E. BERRY WEBBER

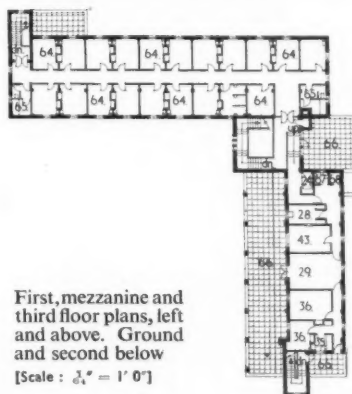
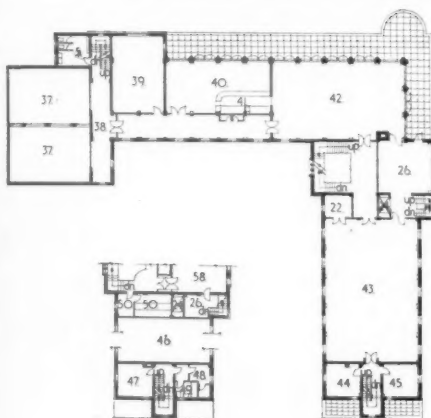
GENERAL.—The building consists of four storeys, comprising changing rooms, cloakrooms, lavatories, kitchen and staff quarters, and a playroom for children on the ground floor, club rooms on the first floor, and bedroom accommodation on second and third floor levels.

CONSTRUCTION.—Brick, with natural stone dressings, on steel frame.

FINISHES.—*Floors:* main club rooms, wood block; bedrooms, cork tiles; entrance hall and main stairs, terrazzo.

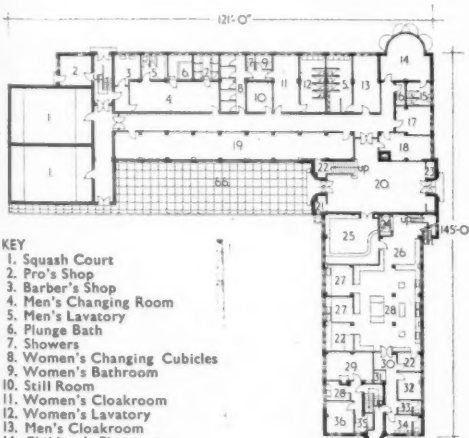
SERVICES.—*Heating:* low pressure hot water, with wall radiators, and convectors in main club rooms behind terrazzo or metal-faced plywood dado. Extract ventilation is provided from kitchen and snack bar on ground floor.

General contractors: R. J. Winnicott Ltd. Sub-contractors: see page 540.



First, mezzanine and third floor plans, left and above. Ground and second below

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



- KEY**
1. Squash Court
 2. Pro's Shop
 3. Barber's Shop
 4. Men's Changing Room
 5. Men's Lavatory
 6. Plunge Bath
 7. Showers
 8. Women's Changing Cubicles
 9. Women's Bathroom
 10. Still Room
 11. Women's Cloakroom
 12. Women's Lavatory
 13. Men's Cloakroom
 14. Children's Playroom
 15. Children's Lavatory
 16. Toy Store
 17. Baggage Room
 18. Telephone Exchange and Enquiries
 19. Bowling Alley
 20. Entrance Hall
 21. Porter
 22. Store
 23. Telephone
 24. Service Lift
 25. Snack Bar
 26. Servery
 27. Preparation
 28. Kitchen
 29. Living Room
 30. Staff Cloaks
 31. Switch Gear
 32. Staff Room
 33. Female Staff Lavatory
 34. Male Staff Lavatory
 35. Bathroom
 36. Bedroom
 37. Upper Part of Squash Court
 38. Gallery
 39. Billiard Room
 40. Men's Bar
 41. Service
 42. Lounge
 43. Dining Room
 44. House Keeper
 45. Female Staff Dormitory
 46. Upper Part of Dining Room
 47. Male Staff Dormitory
 48. Workroom and Linen Store
 49. Staff Bathroom
 50. Musicians' Dressing Room and Gallery
 51. Resident Secretary
 52. Ground Secretary
 53. General Office
 54. Assistant Secretary
 55. Members' Reading and Writing Room
 56. Card Room
 57. Women's Reading and Writing Room
 58. Private Dining Room
 59. Service Stair
 60. Double Bedroom
 61. Men's W.C. and Bathroom
 62. Women's W.C. and Bathroom
 63. Dispenser
 64. Single Bedrooms
 65. Bathroom and W.C.
 66. Terrace
 67. Lavatory
 68. Larder



USING this system of Guttering shows a tremendous saving in cost, material and maintenance charges. Finlock Gutters are made with a fine waterproof concrete—simple in design, easy

Finlock forms the eaves and gutters (says Mr. Fin)

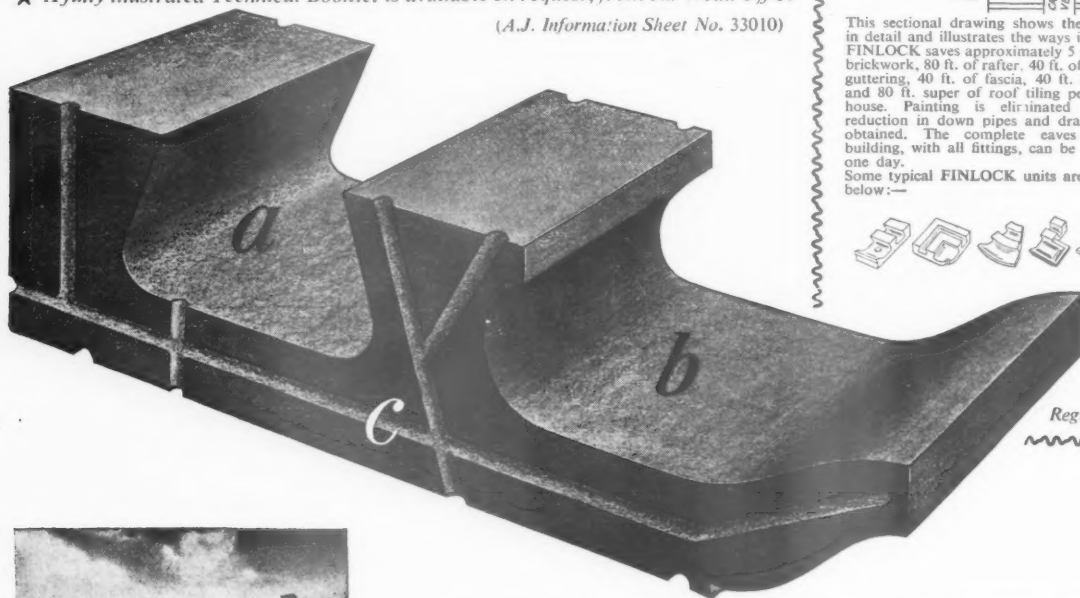
... and saves £15 per house! (says Mr. Lock)



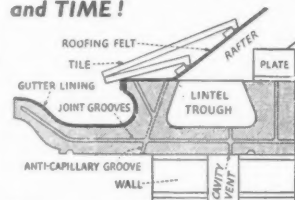
shows the large sectioned gutter channel which permits laying without fall. Strong enough to walk in and to withstand all building stresses. Completed by a bituminous lining after laying. "c" indicates the jointing grooves.

★ A fully illustrated Technical Booklet is available on request, from our Head Office

(A.J. Information Sheet No. 33010)



HOW FINLOCK SAVES MONEY and TIME!



This sectional drawing shows the system in detail and illustrates the ways in which FINLOCK saves approximately 5 yards of brickwork, 80 ft. of rafter, 40 ft. of normal guttering, 40 ft. of fascia, 40 ft. of soffit and 80 ft. super of roof tiling per single house. Painting is eliminated and a reduction in down pipes and drainage is obtained. The complete eaves for a building, with all fittings, can be fixed in one day. Some typical FINLOCK units are shown below:—



Regd. Pat.



Finlock Gutters are being used by the following County Councils: CAMBRIDGESHIRE, DERBYSHIRE, EAST SUSSEX, GLAMORGANSHIRE, GLOUCESTERSHIRE, KENT, LONDON, MIDDLESEX, NORFOLK, SURREY, STAFFORDSHIRE, WARWICKSHIRE, WORCESTERSHIRE.

Over 200 local authorities are now using Finlock.

* The buildings shown are in accordance with the winning design in the £1,000 low cost housing competition organised by "THE BUILDER". By courtesy of J. L. Womersley, Esq., A.R.I.B.A., A.M.T.P.I., Borough Architect for Northampton.

FINLOCK

GUTTERS LIMITED

20 ST. JOHNS RD., TUNBRIDGE WELLS, KENT

Telephone: Tunbridge Wells 20396/7/8

7 WORKS FOR SPEEDY DELIVERIES TO ANY PART OF GT. BRITAIN • BARNSTAPLE, DEVONSHIRE • LEEDS, YORKSHIRE • EDINBURGH, SCOTLAND • CWMBRAN, SOUTH WALES • ROYSTON, HERTS • TUNBRIDGE WELLS, KENT • BELFAST, NORTHERN IRELAND

DHB



GENERAL.—This building is still under construction. It is planned to provide bedroom accommodation for 500. Ground floor: entrance hall, two lounges, inner hall, bar, dining room, cafeteria, barber's shop, kitchens, and staff rooms. First and upper floors: bedrooms.

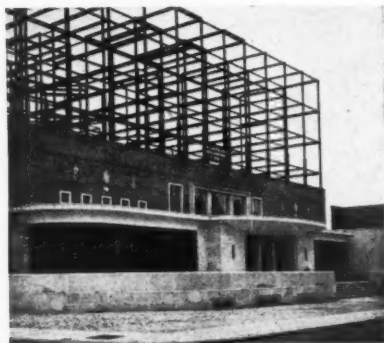
CONSTRUCTION: Basements, water-proofed reinforced concrete. Superstructure,

steel frame; floors, precast concrete; walls, brick.

SERVICES.—Plumbing: one pipe system. Heating: recessed convector units with plenum system ventilating and heating ground floor and basement. Separate fresh-air extraction system serves basement locker room. The photographs above show: left, the hall; right, top to bottom: the exterior, a lounge, and the entrance hall.

CLUB HOUSE

for the ROYAL SAILORS' HOME CLUB,
PORTSMOUTH
designed by A. E. COGSWELL AND SONS
in conjunction with DAVID NYE AND
PARTNERS



SHOP AND OFFICES

at PORTSMOUTH
designed by CLAYTON AND
BLACK AND PARTNERS

Extreme left, a shop and showroom in Osborne Road. Centre, premises for Westminster Bank, Ltd. The first, second and third floors have been let to separate tenants. Left, offices for Port of Portsmouth Chamber of Commerce.

TUCKER'S 'Armourply'

**DOORS • COUNTERS
AND TABLE TOPS
CUBICLE UNITS
REFRIGERATORS**

*Metal
Faced
Plywood*

**INSULATING PANELS
ESCALATOR PANELS
ROOF PANELS
VEHICLE BODIES**

Combines light weight with strength in a wide range of decorative and utility surfaces

Manufactured by

WILLIAM MALLINSON & SONS LTD

130-150 HACKNEY ROAD, LONDON, E.2

Telephone: SHOREDITCH 7654 (10 lines)

Telegrams: ALMONER, LONDON

CORK, THE FLOOR THAT'S HALF AIR

is not only *QUIET, WARM, LUXURIOUS*
but *TOUGH, LONG-LASTING, ECONOMICAL*

CORK, most luxurious of floors, with the air-cellular structure that kills noise, has long been the architect's first choice where silence is essential, or comfort more important than cost.

But this resilient material, more than half air, is also exceedingly *tough*. It stands years of heavy foot traffic in busy shops, offices, hospitals, schools, restaurants, even in buses, with scarcely perceptible wear. In domestic use, it may well last a lifetime.

So cork is truly *economical*—far more so, when you count the years, than 'cheaper' floors that can never give the same satisfaction. Even first cost is competitive, normally lower than for wood blocks. And with this warm, quiet surface there is far less need for carpeting.

PURE CORK IN TILE FORM

Armstrong's Cork Tiles, famous since 1896, are made of nothing but pure, resilient Spanish cork, bonded under heat by its own resins—no dust or gritty granules, no adulterant. A special feature of Armstrong's Cork Tiles is that they are supplied not only straight-edged but also tongued and grooved, which obviates sanding after laying and prevents lipping and curling. You are invited to write for further particulars.

ARMSTRONG'S CORK TILE FLOORING

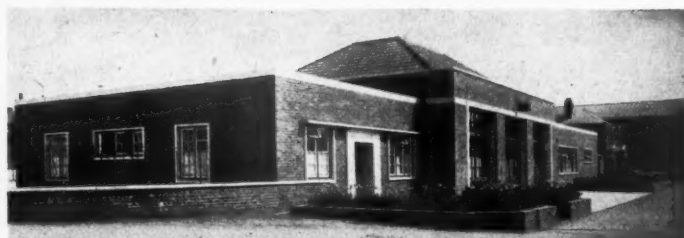
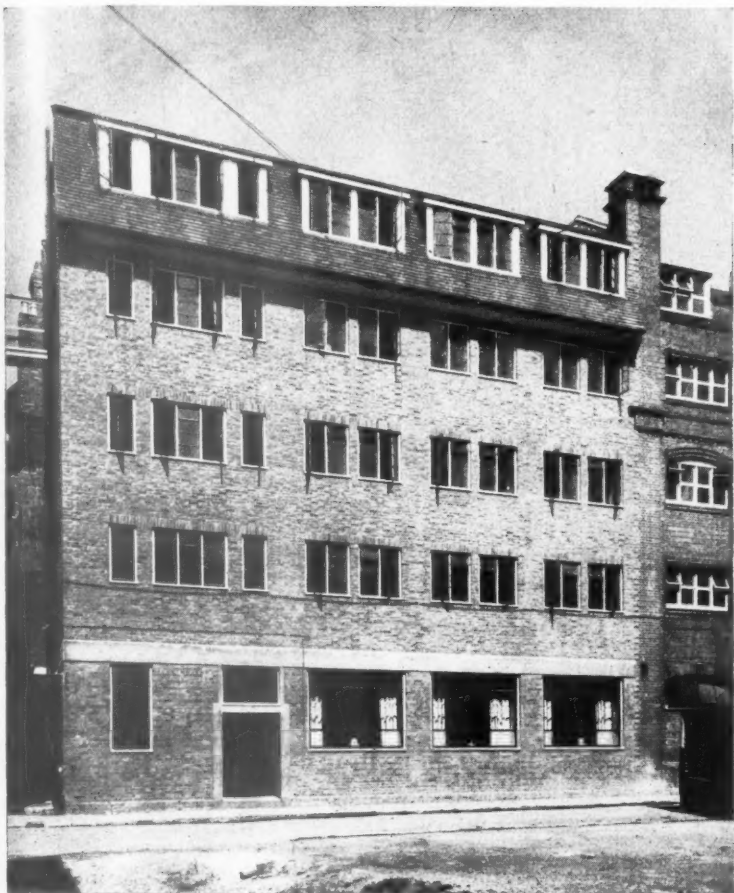
ARMSTRONG CORK COMPANY LTD. London Office: Bush House, Aldwych, W.C.2. CHAncery 6281. Glasgow Office: 5 Oswald Street, C.I. Central 5703. Birmingham Office: Westminster Chambers, 93a Corporation Street. Central 1271. Manchester Office: Royal Exchange Bldg., Market St. Deansgate 7311-2. Dublin Office: 54 Middle Abbey St. Dublin 54901.



CLUB HOUSE, FLATS, POLICE AND FIRE STATION

in PORTSMOUTH
designed_by R. A. THOMAS

Left, premises for the Church of England Soldiers', Sailors' and Airmen's Institute. Below, centre left, and right, two views of the new Divisional Police Headquarters at Cosham. Office accommodation is provided for CID and Special Constables. There is a centre courtyard for drill purposes, parade room, canteen and recreation and quiet room. There are also four cells, an exercise yard and garages. Cost : £50,000. General contractor : J. H. Day. Bottom left, five-storey block of fifteen flats at Clarence Parade, Southsea, each flat having three rooms overlooking Spithead. Cost : £30,000. Bottom right, Fire Station, Cosham. This building houses three fire engines, and includes a watch room and station officers' accommodation, a dormitory, canteen and kitchen. Cost : £19,000. General contractor : V. H. Dye.





THE NEW PRUDENTIAL BUILDING CARDIFF

PURPOSE MADE WINDOWS
IN METAL

by



LUXFER LIMITED

WAXLOW ROAD • HARLES DEN • LONDON • N.W.10
Telephone: ELGAR 7292-5 Telegrams. LUXFER, HARLES, LONDON.

Bu

Flats
(Page
(City
Marsh
M. M.
Barrett
Hawkins
suspend
tiling.
Bagusa
installa
supplie
Burles
metal
artifici
ironwor
surround

Factor
Marsh.
Thomas

Mantle
Road,
Archite
C.W.S.
A.M.I.M.
contra
enginee
ing &
Twiste
Dorma
Trusse
situ flo
crete
Brick
& Son
ing
Challe
Ventil
vaults
to loo
floorin
& Co
sanitari
& let
extern
to int
cloak
concre
Ltd.;
teleph
Dicta

N.A.A.
Port
Josep
Cons
electr
surve
Gene
Sub-c
heati
Mum
F. H
pater
Roof
Ltd.
sanit
Colbi
crete
wood
Port
taki
fenc
rein
open
deco
The

Sh
29
Arch
Con
Son
Sub
conc
wor
aspl
mac
Aen
eng
Em

Sh
Pal
tect
Gen
con
Co.
Ltd
Con
lan
gla
wor
Nier
Co.
Par
don

Sh
Ro
Fra
Go
Sp
Ge
Qu
sul

Buildings Illustrated

Flats, Allaway Avenue, Paulsgrove, Portsmouth. (Page 519.) Architects: Frank Mellor, F.R.I.B.A. (City Architect), R. G. Knight, L.R.I.B.A., J. Marsh, L.R.I.B.A., P. G. Beasley, Clerk of Works; M. Millican. Quantity surveyors: Thomas Barrett, Sons & Partners. General contractors: Hawkins Bros. (Gosport) Ltd. Sub-contractors: suspended floors, Broadmead Products Ltd.; roof tiling, The Marley Tile Co.; asphalt floors, The Ragusa Asphalt Co.; electric lighting and power installation, W. P. Robertson. Nominated suppliers: bricks and facings, London Brick Co.; Barleson Sand Storm Facing Wire Cuts; standard metal windows, Ideal Casement (Reading) Ltd.; artificial stone, Blokrete Co. Ltd.; wrought ironwork, Smith & Jewell Ltd.; tiled fireplace surrounds, W. P. Winter & Son Ltd.

Factory for H. E. Collins Ltd., at Farlington Marsh, Portsmouth. (Page 521.) Architect: R. A. Thomas, L.R.I.B.A. Sub-contractor: Haynes Roofing.

Manile Factory for C.W.S. Ltd., Fitzherbert Road, Farlington, Portsmouth. (Page 521.) Architect: W. J. Reed, F.R.I.B.A., Chief Architect, C.W.S. Ltd., Engineer A. E. Westlake, L.R.I.B.A., Chief Engineer, C.W.S. Ltd., General contractor: C.W.S. Ltd. Sub-contractors: engineering services, heating & ventilating, lighting & power, C.W.S. Ltd.; R.C. barrel vault, Trussed Concrete Engineering Co. Ltd.; R.C. in situ floors and casings, Johnsons Reinforced Concrete Eng. Co.; brick facings, Uxbridge Flint Brick Co. Ltd.; felt roof coverings, D. Anderson & Son Ltd.; metal windows, Crittall Manufacturing Co. Ltd.; patent roof glazing, British Challenge Glazing Co.; roof ventilators, Colt Ventilators Ltd.; asbestos spray lining to barrel vaults, Turners Asbestos Cement Co. Ltd.; doors to loading bays, Potter Rax Ltd.; wood block flooring, Hollis Bros.; floor & wall tiling, Cope & Co. Ltd.; sprinklers, Mather & Platt Ltd.; sanitary fittings, Adamse Ltd.; door furniture & lettering, Stedall & Co. Ltd.; painting to external concrete, Silexine Paints Ltd.; painting to internal concrete, Cement Marketing Co. Ltd.; cloakroom fittings, Clark Hunt & Co. Ltd.; precast concrete cycle sheds, Stenton (Industrial Floors) Ltd.; paints and distempers, C.W.S. Ltd.; internal telephones, clocks & loudspeaker system, Dictagraph Telephones Ltd.

N.A.A.F.I. Compound, Fratton Industrial Estate, Portsmouth. (Page 522.) Architects: Messrs. Joseph, Consulting engineer: D. Laird Hair, Consulting engineer for heating, ventilation & electrical work: Hoare, Lea & Partners. Quantity surveyors: A. E. Thornton Firkin & Partners. General contractors: Lavender McMillan Ltd. Sub-contractors: steelwork, Dawsons Ltd.; heating, hot water, cold water, plumbing, Mumford Bailey & Preston; electrical contractors, F. H. Wheeler & Co.; bricks, London Brick Co.; patent roofing, Frazzi Ltd.; roofing, The Boddy Roofing Co. Ltd.; lifts, Hammond & Champness Ltd.; tiling, Carter & Sons (London) Ltd.; sanitary fittings, Shanks & Co.; fireplaces, Bratt Colbran Ltd.; glass and ferro concrete, Lenscrete Ltd.; metal glazing screens, Clement Bros.; wood block flooring, Stevens & Adams; gas supply, Portsmouth, Gosport & Bognor Regis Gas Undertaking; ironmongery, Nettlefolds & Moser; fencing, The Penfold Fencing Co.; pre-cast reinforced concrete floors, Fabricrete Ltd.; window opening gear, Guildford Glass & Metal Co.; decorations, Decorative Specialists Ltd.; paint, The Fleetwood Paint Co.; gardens, E. H. Read.

Shop for W. H. Smith & Son, Ltd., at 28, Palmerston Road, Southsea. (Page 524.) Architects: H. F. Bailey, L.R.I.B.A., J. W. Courtenay, Estate Department, W. H. Smith & Son, Ltd. General contractors: Roy Corke Ltd. Sub-contractors: shopfitting, Elliotts; reinforced concrete, Trussed Concrete Steel Co. Ltd.; steel work, Dawsons Ltd.; roof lights, Haywards Ltd.; asphaltting, Improved Asphalt Co. Ltd.; purpose made windows, Haskins; wood block flooring, Acme Flooring & Paving Co. Ltd.; heating engineers, Norris Warming Co. Ltd.; electrical engineers, W. P. Robertson; artificial stone work, Empire Stone Co. Ltd.

Shop for Boots Pure Drug Co. Ltd., in Palmerston Road, Southsea. (Page 524.) Architects: Staff Architects, Boots Pure Drug Co. Ltd. General contractors: Frank J. Privett Ltd. Sub-contractors: reconstructed stone, Empire Stone Co. Ltd.; asphalt, Val de Travers Paving Co. Ltd.; reinforced concrete canopy, The Trussed Concrete Steel Co. Ltd.; metal windows and lanterns, Williams & Williams; iron staircase and glass lens in canopy, Haywards Ltd.; steelwork, Redpath Brown & Co. Ltd.; precast floors, Segwart Floor Co. Ltd.; tiles, The Marley Tile Co. Ltd.; metal fascias to canopy, Eusebe & Partners Ltd.; ironmongery, Lewis & Grundy; domes, T. & W. Ide Ltd.

Shops, Showrooms and Maisonnets, Palmerston Road, Southsea. (Pages 525-526.) Architects: Frank Mellor, F.R.I.B.A. (City Architect), G. C. P. Gough, L.R.I.B.A., L. Chandler, L.R.I.B.A., and E. A. Sparkes, proprietor, Portsmouth Corporation. General contractor: Frank J. Privett Ltd. Quantity surveyor: Henry J. Dyer & Sons, Consultants: J. Parkin, O.B.E., M.I.C.E., City Engineer.

Sub-contractors: asphalt, Ragusa Asphalt Paving Co. Ltd.; bricks, Walkers (Hove) Ltd.; artificial stone, Warnings (Contractors) Ltd.; tiles, The Marley Tile Co. Ltd.; special roofings, Frazzi Ltd.; glass, Way & Sons Ltd.; patent flooring, The Neuchatel Asphalt Co. Ltd.; The Marley Tile Co. Ltd.; The Marbolith Flooring Co. Ltd.; Marchetti Ltd.; grates, Ideal Boilers & Radiators Ltd.; gas fittings, Southern Gas Board; electric light fixtures and wiring, Shields & Marshall; ventilation, Supervents Ltd.; Vent Axia Ltd.; casements, Williams & Williams Ltd.; Henry Hope & Son Ltd.; folding gates, Potter Rax Ltd.; decorative plaster, Robbs Cement-Enamel Finishes Ltd.; metal work, Potter Rax Ltd.; Gardiner, Sons & Co. Ltd.; Albion Iron & Wire Co. Ltd.; mantels, Portsmouth Hardware Co., Reeves (Builders Supplies) Ltd.; shop fittings, A. E. Hadley & Co. Ltd., E. Pollard & Co. Ltd., Hickman Ltd.; lifts, Evans Lifts Ltd.; signs, Major Equipment Co. Ltd.

Store for F. W. Woolworth & Co. Ltd., 121/127, Commercial Road, Portsmouth. (Page 527.) Architect: H. Winbourne, F.R.I.B.A., Staff Architect. General contractors: F. W. Woolworth & Co. Ltd. Sub-contractors: structural steelwork, Banister, Walton & Co. Ltd.; hollow clay blocks, London Brick Co. Ltd.; plastering, Clark & Fenn Ltd.; suspended ceilings, Anderson Construction Co. Ltd.; shop entrance lobby tiles, Carter & Co. (London) Ltd.; bricks (common), London Brick Co. Ltd.; bricks (facings), Hammill Brick Co. Ltd.; electric power and lighting installation, Clark & Bridge Ltd.; metal windows and lantern lights, James Gibbons Ltd.; pre-cast concrete floor and roof units, Truscon Floors Ltd.; Portland cement, G. A. Day Ltd.; Portland stone to elevations and copings, Bath & Portland Stone Firms Ltd.; asphalt tanking and roofing, Ragusa Asphalt Co. Ltd.; goods and service lifts, Marryat & Scott Ltd.; shutter gates, Bolton Gate Co. Ltd.; drainage and plumbing, E. Pookes & Son Ltd.; pre-cast concrete stairs, Stuarts Granolithic Co. Ltd.; pre-cast terrazzo stair treads, Camden Tile & Mosaic Co. Ltd.; heating and ventilating, H. W. Dutton & Co. Ltd.; shopfront and canopy, A. E. Lindsey & Son Ltd.; oil burning equipment, Combustions Ltd.; café flooring, Semtex Ltd.; wall and floor tiling, Carter & Co. (London) Ltd.; blinds, J. Dean (Blinds) Ltd.; glass shopfront, pelmet, The London Sand Blast Decorative (Glassworks) Ltd.; glass fascia to shopfront, J. M. Newton & Sons Ltd.; fluorescent lighting fittings, C.W.C. Equipment Ltd.; handrailing and balustrading, Morris Singer Co. Ltd.; aluminium handrailing, J. Starkie Gardner Ltd.; general joinery work, A. E. Lindsey & Son Ltd.; woodblock flooring, Vigers Bros. Ltd.; Perspex fascia letters, Splinter Safety Glass Ltd.; terrazzo flooring, Standard Pavements Ltd.; vitrolite, J. M. Newton & Sons Ltd.; café bar and equipment, Gardiner & Gulland Ltd.; cold store, York Shipley Ltd.

Store for Littlewoods, in Commercial Road, Portsmouth. (Page 527.) Architects: Staff Architect. Littlewoods. General contractors: R. H. Lynn & Co. Ltd. Sub-contractors: Steelwork, Banister, Walton & Co. Ltd.; heating and ventilating, Brightside Foundry & Engineering Co. Ltd.; electrical installation, Kashiagh Phipps & Co. Ltd.; shopfitting and shopfront, Hickman Ltd.; electric goods lift, Evans Lifts Ltd.; Terrazzo floor, Quilligotti & Co. Ltd.; floor and roof slabs, Concrete Ltd.; asphalt, General Asphalt Co. Ltd.; metal windows and lantern lights, Williams & Williams.

Shop for C. & A. Modes Ltd., Commercial Road, Portsmouth. (Pages 527-8.) Architects: North & Partners. General contractors: R. H. Lynn & Co. Ltd. Sub-contractors: steelwork, Banister, Walton & Co. Ltd.; metal windows, Senlac Metal Casements Ltd.; lifts, Waywood Otis Ltd.; asphaltting, General Asphalt Co. Ltd.; waterproofing, Quickset Water Sealers Ltd.; stonework, Bath & Portland Stone Firms Ltd.; electrical installation, D. Aldridge (Southampton); heating and ventilating, Saunders & Taylor Ltd.; woodblock floors, Vigers Bros. Ltd.; sanitary work, W. N. Froy & Sons Ltd.; shopfronts, Samuel Elliott & Sons (Reading) Ltd.; concrete floors, Concrete Ltd.

Store for McLroys Ltd., London Road, Portsmouth. (Page 527.) Architect: E. C. P. Allen, L.R.I.B.A., General contractors: J. Croad Ltd. Sub-contractors: asphalt, The Neuchatel Asphalt Co. Ltd.; asphalt floor polish, General Asphalt Co. Ltd.; electrical installation and fittings, G. W. Franklin & Son Ltd.; heating ventilation and hot water services, Gusterson Heating Co. Ltd.; hollow tile floors, Helical Bar & Engineering Co. Ltd.; internal shop fittings, D. Drake & Son Ltd.; J. Croad Ltd.; ironmongery, Yarned & Co. Ltd.; lifts (passenger and goods), J. & E. Hall Ltd.; lightning conductors, J. W. Gray & Son Ltd.; floor finishes, Chittenden & Simmons Ltd.; metal windows and rooflights, Mellowes & Co. Ltd.; "Neon" sign and projecting sign, Nash & Hull Ltd.; plumbing, J. Croad Ltd.; roller shutters, Milners Safe Co. Ltd.; sanitary fittings, W. N. Froy & Son Ltd.; floor finish, Semtex Ltd.; shop window, metalwork to canopy and name letters, D. Drake & Son Ltd.; steelwork and reinforced concrete, T. C. Jones & Co. Ltd.; suspended ceilings, Plaster Decorations Ltd.; terra-cotta faience, Shaws Glazed Brick Co. Ltd.; Terrazzo Marchetti Ltd.; wall tiling, Hooper & Ashby Ltd.; wrought ironwork and staircase balustrade, Kaleyards Ltd.

Shop for H. Samuel Ltd., at 147, Commercial Road, Portsmouth. (Page 528.) Architects:

W. H. Watkins, F.R.I.B.A. & Partners. Quantity surveyors: Faithful & Gould. General contractors: Frank J. Privett Ltd. Sub-contractors: reinforced concrete, Trussed Concrete Steel Co. Ltd.; Portland stone, Bath & Portland Stone Firms Ltd.; metal windows, Brunswick Metal Casement & Engineering Co. Ltd.; heating and ventilation, G. N. Haden & Sons Ltd.; shop front, E. Pollard & Co. Ltd.; interior shopfitting, A. Edmonds & Co. Ltd.; electrical installation, Electra Ltd.

Shops for Messrs. Montague Burton, Saxe, Lyons, Oliver's, & Prices at Commercial Road, Portsmouth. (Page 528.) Architects: E. J. Thomas, Jolly & Grant and H. G. Sumner, L.R.I.B.A. Architect for Montague Burton's shopfront & fittings, N. Martin, L.R.I.B.A.; architect for Saxe's shopfront & fittings, W. Dootson, L.R.I.B.A., and M. Morgan, L.R.I.B.A.; architect for Lyons' shopfront & fittings, H. Sumner, L.R.I.B.A.; architect for Prices' shopfront & fittings, E. Morgan, F.R.I.B.A. General contractor: John Hunt Ltd. Sub-contractors: steelwork, H. Young & Co.; concrete floors, Concrete Ltd.; metal windows, door frames and skylights, Crittall Manufacturing Co.; roofing, P. Anderson & Son Ltd.; stone facings, dressings and granite, Bath & Portland Stone Firms Ltd.; canopy facing and soffit blind box, O. Peterson Ltd.; terrazzo staircases and door surround, Marchetti Ltd.; concrete rooflights, Luxfer Ltd.; wood block flooring, Marchetti Ltd.; asphalt tanking, roofing, red mastic flooring and thermoplastic flooring, Neuchatel Asphalt Co. Ltd.; steel staircases, gates, railings, etc., Gardiner, Sons & Co. Ltd.; sanitary fittings, Adamse Ltd.; partition blocks, Lignacite Ltd.; reinforcing fabric, British Reinforced Concrete Engineering Co.; bricks, concrete bricks & tile works and Sussex & Dorking United Brick Co. Ltd.; ironmongery, Parker, Winder & Achurch Ltd.; gas installation, Portsmouth, Gosport & Bognor Regis Gas Undertaking; electrical installation, G. Hamilton Cole, Thomas & Beauchamp, D.C. Engineering Co. Ltd.; Montague Burton's Ltd.; blinds, etc., G. Hall & Co.

Shops for Messrs. Wyndhams, Worley (Properties) Ltd., G. Hoare, Murrays and Reynolds, Arundel Street, Portsmouth. (Page 528.) Architects: E. J. Thomas, Jolly & Grant. General contractor: John Hunt Ltd. Sub-contractors: steelwork, E. C. & J. Keay Ltd.; concrete floors, Concrete Ltd.; metal window and door frames and skylights, Crittall Manufacturing Co.; roofing, etc., Neuchatel Asphalt Co. Ltd.; terrazzo facings, staircases, toilet dado, cills and copings, Marchetti Ltd.; canopy facings and soffits, blind boxes, O. Peterson Ltd.; collapsible gates, grilles, balustrade, Gardiner, Sons & Co. Ltd.; carved stone plaque, John Matthews; gas-fitting and waterheaters, Portsmouth, Gosport & Bognor Regis Gas Undertaking; plumbing, Sothcott & Sothcott; blinds, etc., G. Hall & Co.; sanitary fittings, Adamse Ltd.; bricks, Sussex & Dorking United Brick Co. Ltd.; Marston Valley Brick Co. Ltd.; ironmongery, Parker, Winder & Achurch, electrical wiring, Marshalsea Hatch Ltd., J. Hammond & Co.

Portsmouth Municipal College, New Building, Anglesea Road, Portsmouth. (Pages 529-533.) Architects: Frank Mellor, F.R.I.B.A. (City Architect), G. C. P. Gough, L.R.I.B.A., N. G. Kelsey, L.R.I.B.A., and J. Wilson. Quantity surveyors: S. E. Moth, A.R.C.E., Chief Q.S., City Architect's Dept., (Stage I); Thomas Barrett, Sons & Partners, (Stage II); Consultants: J. Parkin, O.B.E., M.I.C.E., H. A. Sandford, M.A., Sculptor: R. Matthews, A.R.C.A. General contractors: Haskins Bros. (Gosport) Ltd., (Stage I); Kirk & Kirk Ltd., (Stage II). Sub-contractors: dampcourses, Ruberoid Co. Ltd.; asphalt, General Asphalt Co. Ltd.; reinforced concrete, Barrel Vault Roofs (Design) Ltd., (Stage I); Indented Bar & Concrete Engineering Co. Ltd., (Stage II); bricks, Uxbridge Brick Co. Ltd., (Stage I); Hammill Brick Co. Ltd., (Stage II); artificial stone, The Concrete Co. Ltd., (Stage I); Tarmac, (Stage II); special roofings, Broderick Insulated Structures Ltd.; roofing felt, F. McNeill & Co. Ltd., (Stage I); General Asphalt Co. Ltd., (Stage II); glass, Aygee Ltd., Pilkington Bros. Ltd., (Stage II); patent glazing, Haywards Ltd., (Stage I); James Couper & Co. Ltd., (Stage II); woodblock flooring, Marchetti Ltd., (Stage I); patent flooring, Produrite Ltd., (Stage I); The Neuchatel Asphalt Co. Ltd., (Stage II); The Marble Mosaic Co. Ltd., (Stage II); waterproofing materials, Quickset Water Sealers Ltd.; central heating, Brightside Foundry & Engineering Co. Ltd., (Stage I); cooking equipment, Benham & Sons Ltd.; gasfiring, Southern Gas Board; boilers, Ideal Boilers & Radiators Ltd., (Stage II); electric wiring, Edward Wolf & Son Ltd., (Stage II); electric light fixtures, Hailwood & Ackroyd Ltd., Courtney Pope Ltd., Merchant Adventurers; cold room, Dicks Ltd., (Stage II); ventilation, Brightside Foundry & Co. Ltd., (Stage II); plumbing, R. J. Andrey & Co. Ltd., (Stage II); sanitary fittings, Leeds Fireclay; door furniture, Parker, Winder & Achurch Ltd., (Stage I); Comyn Ching & Co. (London) Ltd., (Stage II); casements, Williams & Williams Ltd.; telephones, Telephone Rentals Ltd.; plaster, Alan Milne Ltd., (Stage II); The British Plasterboard Ltd.; decorative plaster, Modern Surfaces Ltd., (Stage II); Produrite Ltd., (Stage II); metalwork, M.A.C. Engineering (Bristol), (Stage II); joinery, Bailey & Whites Ltd., (Stage II); tiling, Camden Tile & Mosaic Co. Ltd., (external), H. R. Johnson Ltd., (internal); shrubs and trees, Parks Department, Portsmouth Corporation; school fittings,

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

ENQUIRY FORM

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

Please ask manufacturers to send further particulars to:—

NAME

PROFESSION or TRADE

ADDRESS

30.10.52

J. R. Basford, (Stage II); lifts, Evans Lifts Ltd., (Stage II); clocks, Telephone Rentals Ltd.

House in Penny Street, Portsmouth. (Page 534.) Architect: A. G. Goodair. A.R.I.B.A. General contractors: V. J. & C. A. Holland. Sub-contractors: heating, Norris Warming Co. Ltd.; boiler, Janitor Boilers Ltd.; asphalt, E. Bradshaw & Son; glass, Way & Son (Southsea) Ltd.; ironmongery, William Dibben & Sons Ltd.; paint, Imperial Chemical Industries Ltd.

United Services Officers' Club, Portsmouth. (Page 535.) Architects: E. Berry Webber, F.R.I.B.A. General contractor: R. J. Winnicott Ltd. Sub-contractors: steelwork, Dawnay Ltd.; asphalt, Limmer & Trinidad Lake Asphalt Co. Ltd.; heating, plumbing and ventilating engineers, Ellis (Kensington) Ltd.; metal windows, Luxfer Ltd.; lightning conductors, J. W. Gray & Son Ltd.; metal guard rails, Wm. Dibben & Sons Ltd.; sanitary fittings, John Bolding & Sons Ltd.; flooring, National Flooring Co.; ironmongery, James Gibbons Ltd.; terrazzo, Diespeker & Co. Ltd.; tiling, Carter & Co. (London) Ltd.; fibrous plaster, G. Jackson & Sons Ltd.; flush doors, R. J. Winnicott Ltd.; goods lift, Hammond & Champness Ltd.; ornamental metalwork, C. Harvey & Co.; lighting fittings, Wholesale Fittings Co. Ltd., Harvey & Co.; bar fittings, Gaskell & Chambers Ltd.; hose reels, Pyrene Company Ltd.; fire extinguishers, Nu-Swift Ltd.; internal communications, Dictograph Telephones Ltd.; furniture, Queen Anne's Hotel Supply Co. Ltd., Maple & Co. Ltd.; horticultural work, Carlisle (Southsea) Ltd.; sculpture work on keystone, foundation stone and plaque, Barry Hart.

Shop in Osborne Road, Portsmouth. (Page 536.) Architects: Clayton & Black & Partners. General contractors: Howe & Bishop Ltd. Sub-contractors: reinforced concrete floors, Broadmead Products Ltd.; steelwork, Rubery Owen & Co. Ltd.; metal windows, Mellows & Co. Ltd.; external staircase, W. Dibben & Sons Ltd.; sanitary fittings, W. P. Winter & Son; electrical installation, G. Hamilton Cole; asphalt tanking and roofing, Neuchatel Asphalt Co. Ltd.; reconstructed stonework, Waringstone Ltd.; wood block flooring, Philip Flooring Co. Ltd.; facing bricks, The Hammill Brick Co. Ltd.

Port of Portsmouth Incorporated Chamber of Commerce, 46, Commercial Road, Portsmouth. (Page 536.) Architects: Clayton & Black & Partners. General contractor: Howe & Bishop Ltd. Sub-contractors: reinforced concrete structure, The Indented Bar & Concrete Engineering Co.; asphalt tanking and roof, Southern Asphalt

Ltd.; metal windows, The Standard Metal Window Co.; reconstructed stonework, Marchetti, Ltd.; granolithic paving, Stuarts Granolithic Co. Ltd.; wood block flooring, Bailey & Whites Ltd.; heating installation, G. N. Haden & Sons Ltd.; escape staircase, F. A. Norris & Co. Ltd.; electrical installation, Haslemere Radio & Electric Co. Ltd.; wrought iron railings and balustrades, Smith & Jewell Ltd.; sanitary fittings, W. P. Winter & Son; facing bricks, Hammill Brick Co. Ltd.; light fittings, The British Thomson-Houston Co. Ltd.; tar macadam, E. Bradshaw & Son.

Reconstructed premises for Westminster Bank Ltd., Commercial Road, Portsmouth. (Page 536.) Architects: Clayton & Black & Partners. General contractor: Howe & Bishop Ltd. Sub-contractors: structural steelwork, T. C. Jones & Co. Ltd.; terrazzo pavings, Marchetti Ltd.; structural floors, Jno. Croad Ltd., Broadmead Products Ltd.; asphalt tanking, roofs and flooring, Southern Asphalt Ltd.; passenger lift, J. & E. Hall Ltd.; metal windows and laylights, Mellows & Co. Ltd.; reconstructed stonework, Marchetti Ltd.; granolithic pavings, Stuarts Granolithic Co. Ltd.; bullion lifts, Penrose Lifts Ltd.; wood block flooring, Bailey & Whites Ltd.; heating installation and sump pumps, Norris Warming Co. Ltd.; escape staircase, F. A. Norris & Co. Ltd.; electrical installation, F. H. Wheeler (Southern) Ltd.; travertine flooring, J. Whitehead & Sons Ltd.; wrought iron grilles, J. White & Sons; sanitary fittings, W. P. Winter & Son; bank fitting and counters, F. J. Privett Ltd.; lantern lights, Portsmouth Glass Works Ltd.; facing bricks, The Hammill Brick Co. Ltd.

Announcements

The Council of the RIBA has decided that the minimum age limit for the Special Final Examination shall be raised from 30 to 35 with effect from January 1, 1958.

Correction

In the JOURNAL for October 9 (p. 427) we published a letter from A. P. Mason, B.Sc., M.I.C.E., M.I.STRUCT.E., M.A.S.C.E., Technical Director of the British Reinforced Concrete Engineering Co. Ltd. We regret that the word "British" was inadvertently omitted from the firm's name.

THE RE-BUILDING OF PORTSMOUTH

Semtex Limited has made substantial contributions to the reconstruction programmes of many towns throughout the country. Notable amongst the work carried out in Portsmouth are the installations in Timothy Whites & Taylors Ltd., F. W. Woolworth & Co. Ltd., and the Royal Sailors' Home Club.

SEMTEX LTD

A DUNLOP COMPANY

COMPREHENSIVE FLOORING SERVICE

Area Office: 3 Queen Square, Brighton
Telephone: Brighton 24171

Branch Office: 194 Above Bar, Southampton
Telephone: Southampton 4597

Head Office:

185-187-189 Finchley Road, London, N.W.3
Telephone: Maida Vale 6070
Telegrams: Semtex, Haver, London



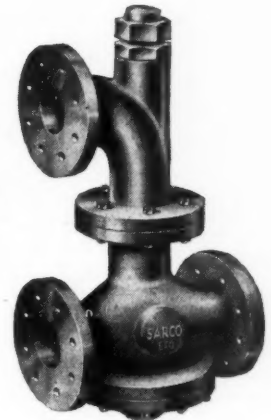
Focus on Floors

ADVANCE CONTROL

OF TEMPERATURE

ON H.W. HEATING SYSTEMS

SARCO 'E.T.O.'
CONTROLLER
(NON-ELECTRIC)



The Sarco E.T.O. Controller anticipates the effect indoors of any external temperature change.

It is a self-contained fully-automatic control for accelerated hot-water heating systems, providing equable indoor temperature under conditions of changing outdoor temperature.

It controls heat supply at the minimum required to balance heat losses whatever the outside temperature conditions, giving maximum fuel economy.

It can be designed to suit heat emission curves appropriate to the type of heating surface installed.

It can, after installation, be corrected to allow for any variations between design and site conditions.

When a boiler is the heat source it is subjected to less strain and corrosion troubles are avoided, because it can be operated at a constant water temperature.

The E.T.O. is non-electric, entirely self-operating and direct acting. It has packless glands which eliminate the trouble so commonly experienced with ordinary glands.

It is reasonable in cost; easy to install; easy on maintenance.

For more information, please send request slip to—

SARCO THERMOSTATS, LTD., CHELTENHAM, GLOS.

REQUEST SLIP FOR ADDITIONAL INFORMATION

NAME:

ADDRESS:

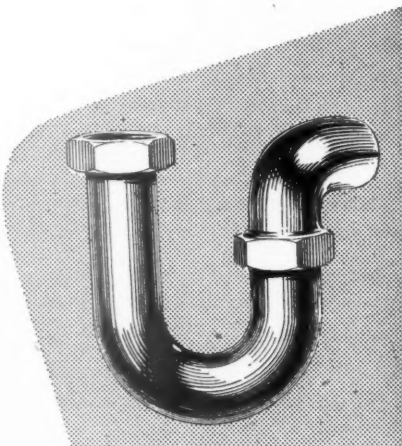


ARB 1052



.... we use them to solve drainage problems for Architects and Sanitary Engineers.

Econa tubular copper traps,* tees, elbows, and preformed waste ranges are more practical, cheaper and nearly as smooth as glass.



Consult us about
soil and waste
disposal (above
ground) because...

Econa
can help you...

ECONA MODERN PRODUCTS LTD. Phone: ACOcks Green 2211
WARWICK ROAD, TYSELEY, BIRMINGHAM 11

* Econa traps now have outlets with the correct gradient to prevent self-siphonage in single and one-pipe plumbing.

THE COBURN SYSTEM

A typical maintenance-free trolley
as used in the Coburn System.



The body is a well designed
aluminium alloy casting,
whilst the steel wheels are
carried on axles which
rotate in "Oilite" bushes.

Obtainable from all Builders'
Merchants

Sliding Door Gear

Telephone: WATERloo 4311 (3 lines)

The **BRITISH TROLLEY TRACK CO. Ltd.**
COBURN WORKS · COPPERFIELD STREET
LONDON · S.E.1



PERMANITE FLEXIBLE FLAT ROOFING

(Coloured Mineral Surface Finish)

CAVENDISH PRIMARY SCHOOL, CHISWICK, W.4

Architect:
C. G. Stillman, F.R.I.B.A.
County Architect, Middlesex.

BUILDERS:
PRESTIGE & CO., LTD.
LONDON, S.W.1

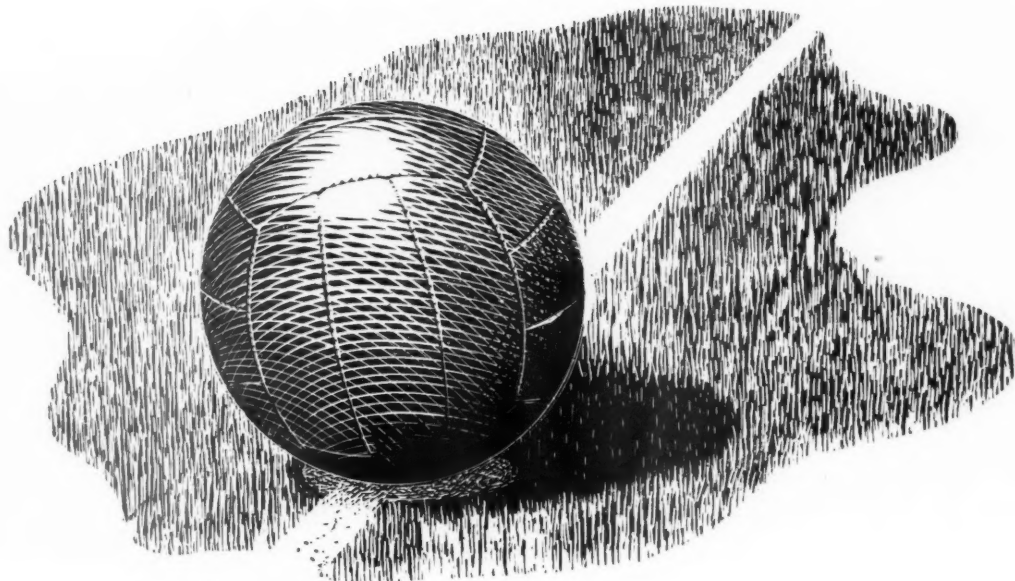


PERMANITE LTD.

LONDON, E.3
455, OLD FORD ROAD
Phone: ADVance 4477 (10 lines)

BIRMINGHAM, 22 C
220-222 KINGSTANDING ROAD
Phone: BIRchfields 5041-2

MANCHESTER, 1
PICCADILLY HOUSE, 11, PICCADILLY
Phone: BLACKfriars 9469



STEELWORK

for **S P O R T**

Amphitheatres of a bygone civilisation are with us yet, but the supporters of to-day's teams are in turn supported by Steel — in the case of Manchester United's ground with Steelwork by



CONSTRUCTIONAL ENGINEERS

Registered Office & Works: **MANCHESTER 17**

Telephone: TRAfford Park 2341 (10 lines)

London Office: 68 Victoria Street, S.W.1 Tel.: Victoria 1331/2

Technical Offices: BIRMINGHAM and LOUGHBOROUGH



OLD INTO NEW

FABRIGUARD

at the ATCO 'C' Depot Birmingham

Renovation of old property for new uses is one of the Architects' important and interesting tasks. The nature and condition of the surfaces to be dealt with call for careful choice of paint materials.

The photograph shows the interior of the ATCO C. Depot at Birmingham. When taken over by Messrs. Charles H. Pugh Ltd., this was a much used and dilapidated building dirty and begrimed. Due to their enterprise, however, it is now spick and span throughout the Fitting Shop, Showrooms and Offices.

Materials used—Walls and Roofing: 'FLORALAC' Hard Gloss Enamel Paint in Cream and Eau-de-Nil. **Floors:** Hangers Floor Paint in Leaf Green and Red.

The EXTERIOR presented a problem often encountered by the Architect—how to cover successfully a combination of old and renewed surfaces—and get it done quickly. The answer was **FABRIGUARD Emulso-Plastic Paint** in Porcelain Gloss (Cream and Permanent Green) which provided a smart attractive exterior without risk of reaction from new plaster patches.

For Technical Bulletin on **FABRIGUARD** and details of **FABRIGUARD** Contracts, write to:—

The Technical Director **HANGERS PAINTS LTD., HULL**



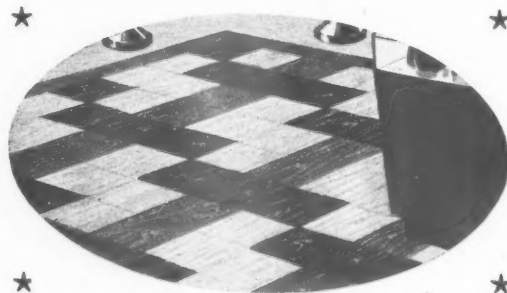
FABRIGUARD can be used upon:

- New Plaster
- Old Plaster
- Hardboard
- Softboard
- Wood
- Creosoted Wood
- Previously Painted Surfaces
- Previously Distempered Surfaces
- Bitumen-coated Corrugated Iron
- New Cement
- Old Cement
- Asbestos Cement
- Brickwork
- Roofing Felt
- Non-ferrous metals
- Limewash

ALSO LONDON, LIVERPOOL, BIRMINGHAM, GLASGOW

PHENCO FLEXIBLE-PLASTIC FLOORING

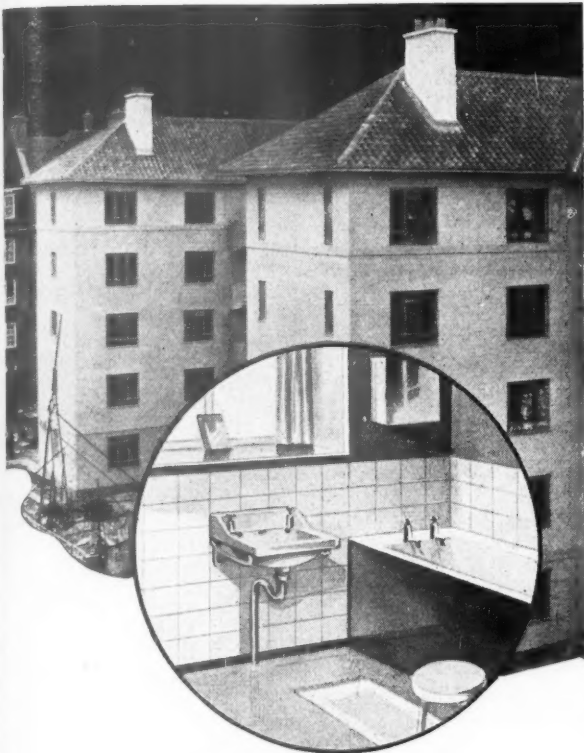
puts business
on a better footing



In banks and offices, factories and shops, hotels and restaurants—in all places where traffic is heavy and smart appearance essential—Phenco puts business on a better footing. And with its non-slip surface and sound-deadening resilience Phenco is the natural choice for schools and hospitals as well. Furthermore, as Phenco is proof against a wide range of chemical attack, schemes incorporating labs and kitchens also fall within its wide range of applications. Colour? Well, there are over twenty to choose from—plain and marbled—and, with Phenco being available in rolls or tiles, the design possibilities are virtually endless. Write now for fully descriptive literature and put your foot down—insist on Phenco!

Phoenix Rubber Co. Ltd.

91, BISHOPSGATE, LONDON, E.C.2 • TELEPHONE: LONDON WALL 3564 • TELEGRAMS: PHENRUB, STOCK, LONDON



Technicrete

**There is a Technicrete product
for all concrete processes**

- **METALLIC HARDENER**
For making new concrete floor toppings withstand iron shod trolleys etc.
- **TRANSO WATERPROOFING SOLUTION**
For waterproofing brick and stonework etc. (Transparent).
- **DE-GREASING COMPOUND**
For cleaning dirty and oil bound concrete floors.
- **DOUBLE STRENGTH PREMIX**
For waterproofing concrete floors.
- **NEUTRAL SURFACE DRESSING**
For dustproofing concrete floors.
- **ANTI-FREEZE SOLUTION**
For use when concreting in frosty weather.
- **WAX POLISHES**
For any purpose in any colour.
- **COLORTHRU**
Liquid colours for cement. For colouring cement floors through the entire mass.

OVER 25 YEARS OF PRACTICAL EXPERIENCE

Write for full particulars to:—

TECHNICRETE SALES

95/101, LITTLE ALBANY STREET
LONDON, N.W.1

Telephone: EUston 6635



**... and the same thing could
happen to the building itself —**

unless it has planned fire protection!

Fire thought is good forethought—and the right time to think about fire protection is at the planning stage. The Pyrene Company has had nearly 40 years experience in the protection of property against fire and, without obligation, will be happy to co-operate with Architects, Surveyors and Contractors in offering impartial advice on fire protection equipment of every kind. Please write for full particulars.



C55 Conquest



C53 Conquest



C1 Conquest

**THE BEST KNOWN
NAME IN FIRE
PROTECTION**



THE PYRENE COMPANY LIMITED (Dept. A.J. 10), 9, Grosvenor
Gardens, London, S.W.1. Telephone: VICToria 3401

**THE TOP
SURFACE HEAVILY
IMPREGNATED
WITH STEEL**

**GIVES LONG
LIFE UNDER
HEAVY TRAFFIC
CONDITIONS**

**MADE IN
12" x 12"
1 1/4" & 2" THICK.**

THE MOVE THAT CHECKS THE WEAR & TEAR ON YOUR FACTORY FLOOR

**FERROGRAN
STEEL FACED
FLAGS.**



HEAD OFFICE:
EAGLE WORKS
WEDNESBURY
STAFFS
TEL: WED 0284 (5 lines)

LONDON OFFICE:
ARTILLERY HOUSE
ARTILLERY ROW
LONDON, S.W.1
TEL: ABBEY 3816 (5 lines)



EST. 26 YEARS

'BROADS TRUCAST DUCT COVERS

*Specially designed
for use in —*

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

'Broads Trucast' Duct Covers are available in widths from 6" to 36", with Cast Iron Sectional Frames for bolting together to form continuous runs, with necessary angles and branches of various sizes. The Cast Iron Covers and Frames have machined seatings and the covers are recessed for filling on site to match the surroundings.



BROADS

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

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

BOOTS PURE DRUG CO. LTD.
PALMERSTON ROAD, SOUTHSEA

BRONZE METAL CANOPY

Supplied and Fixed by

EUSTACE

EUSTACE AND PARTNERS LTD.

**SPECIALISTS IN
SHOPFITTING**

ALLIANCE WORKS, WESTERN AVENUE, W.3

Telephone: ACO rn 0011

••••• **TEMPLASTER**

TEMPLASTER Filler is the result of scientific research to discover the perfect material as approved by a panel of Master Builders for making good plaster and woodwork of all kinds.

- IT NEITHER SHRINKS NOR SWELLS IN DRYING.
- IT STAYS IN AND DOES NOT BLOW.
- IT REQUIRES LITTLE OR NO RUBBING DOWN.
- IT POSSESSES STRONG ADHESIVE PROPERTIES.
- IT OFFERS A CHEMICALLY NEUTRAL SURFACE TO PAINTS.
- IT HAS NOT INCREASED IN PRICE

Its preparation is a laboratory controlled process allowing no variation in quality— thus it is both the most efficient and economical and the wisest choice. **SEND FOR SAMPLE.**

TEMPLASTER is made by the makers of **TEMPLER'S famous White Paste Jointings, Fire Cement, Tile Cement, Plumbers' Black** and other quality compounds.

C. G. TEMPLER & CO., LTD.,

109 BOLLO BRIDGE ROAD, ACTON, W.3. Phone: Acorn 0422/1653

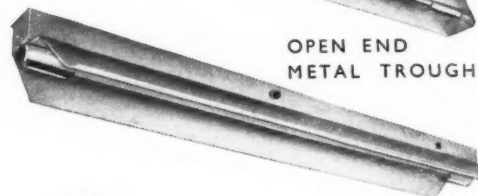
**It
sticks
out
a mile ...**

**... the end of
your lighting problems
is this basic unit
plus any of these
reflectors**

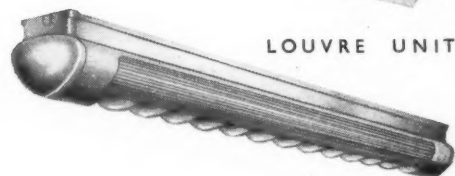
**PRICES REDUCED
FROM OCTOBER 15**



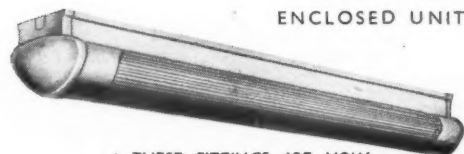
CLOSED END METAL
TROUGH (Also
Available with
'Perspex' Reflector.



OPEN END
METAL TROUGH



LOUVRE UNIT



ENCLOSED UNIT

* THESE FITTINGS ARE NOW
AVAILABLE FOR 4 FT. & 5 FT.
FLUORESCENT TUBULAR LAMPS.
Send for further particulars.

METROVICK
lighting fittings

METROPOLITAN-VICKERS ELECTRICAL CO. LTD., ST. PAUL'S CORNER,
ST. PAUL'S CHURCHYARD, LONDON E.C.4. Member of the A.E.I. group of companies

S/F201

ROOFING CONTRACTORS

TILES & SLATES, TESSELATED &
QUARRY TILES, ROOFING FELTS

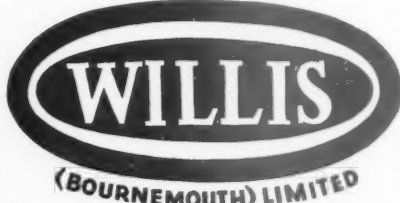


COMPLETE BUILDERS' MERCHANTS

Specialists for WALL & FLOOR TILING

Not only can we supply all
Building Materials, Tools and
accessories, but we are able
through our specialised Roofing
Department, to carry out
all types of work in this sphere

YOUR ENQUIRIES ARE INVITED



Old St. John's Buildings, Wimborne Road, Moordown, Bournemouth
Telegrams: WILLIS 123 WINTON Telephone: WINTON 123 (5 lines)

Principles & Practice of Town & Country Planning

BY
L. B. KEEBLE
M.C., B.Sc., F.R.I.C.S., M.T.P.I.

THIS BOOK IS SOMETHING NEW in planning literature. The author, who has been a professional planner since 1936, is a lecturer in Town and Country Planning at Manchester University and was previously in a senior position with a Local Planning Authority and has set himself to deal with the technique of land planning as fully as possible. To do this it was necessary to abandon the would-be encyclopaedic approach of many writers on the subject and to concentrate on matter directly relevant to the work of the land planner; the law and history of planning and the contentious compensation-betterment problem therefore drop into the background except in so far as they directly affect contemporary planning practice.

IN ORDER TO PROVIDE reasonable boundaries of discussion the treatment of principles has been related to physical conditions in Britain and of practice to the present day British legal and administrative situation.

PART I deals with Planning Machinery within Central and Local Government organisations and with ad hoc planning bodies.

PART II is devoted to Planning Technique and comprises chapters

on Planning Survey, Regional Planning, Town Planning, Neighbourhood Planning, Site Planning, and Programming. It includes by far the greatest volume of authoritative statements and opinions on planning standards from various sources ever brought together in one book and these are compared, contrasted and assessed.

PART III breaks much new ground. It concerns the administrative processes involved in translating Planning principles into practice. A long and important chapter discusses the difficult subject of development control in far greater detail than has ever before been attempted; the organisation of Planning Departments and the conduct of Public Inquiries, subjects which have also hitherto received far too little attention in print, are also fully covered.

THE BOOK is some 600 pages long and is very fully illustrated with more than 100 line drawings, the great majority specially drawn.

NO STUDENT of Town and Country Planning and, especially no intending candidate for an examination in Planning can afford to be without this vitally important book.

47/6

(Postage 1/1d.)

THE ESTATES GAZETTE, LTD., 47, MUSEUM STREET, LONDON, W.C.1

THE PESTCURE TREATMENT

for dry rot and woodworm

has been proved pre-eminent in over one thousand contracts within the last three years. Amongst those we have been privileged to work for are:

Architects and Surveyors

John Adams, A.R.I.B.A.
C. D. Andrews, F.R.I.B.A.
Archard, Worrow & Hardy, F.A.
A.R.I.B.A.
Arnold and Son.
J. Barrington-Baker, F.R.I.B.A.
H. T. B. Barnard, F.R.I.B.A.
W. Braxton Sinclair & Partners, F.R.I.B.A.
Bridgewater and Shephard, F. A.R.I.B.A.
Martin Briggs, F.R.I.B.A.
Basil Briggs, A.R.I.B.A.
C. Bernard Brown, L.R.I.B.A.
Carter Jones.

Chesterston and Sons.
Clifford, Tee and Gale.
Cooke and Arkwright.
Donald Cottage and Company.
Morton Cowie, A.R.I.B.A.
A. I. Cripps, A.R.I.B.A.
Coy and Wainwright.
Ellis Clarke & Gallannaugh, F. F.R.I.B.A.
Lionel H. Fewster & Partners, L.R.I.B.A.
W. Fuller, Moon and Fuller.
Gale Heath and Company.
Philip and George Geen.
Gordon Jackson and Partners, F.R.I.B.A.
Goodman and Mann.
Gordon and Fitch, F.R.I.B.A.
Wallace James Gregory, F.R.I.B.A., F.R.I.C.S.
G. Grey Wornum, F.R.I.B.A.
Hallett Fox and White.
E. C. Harris and Partners.
H. J. Hewlett, F.R.I.C.S., F.A.I.
Hiscock and Duncan Scott.
W. P. Horsburgh and Son, F.A.R.I.B.A.
Gerald F. Jones, C.B.E., F.R.I.C.S., F.A.I.
Francis F. Jones and Sons.
Gerald Lacoste, M.B.E., F.R.I.B.A.
Kenneth Lindy, and Joseph Hill and Partners, F.R.I.B.A.
Ian Lindsay, B.A., F.R.I.B.A.
Llewellyn Smith & Waters, F.R.I.B.A.
Alister MacDonald, F.R.I.B.A.

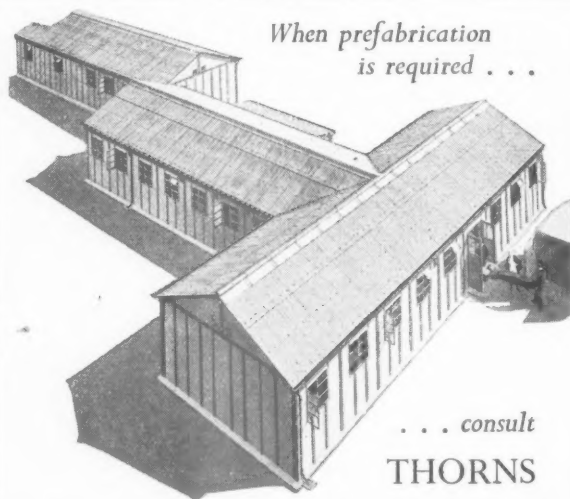
E. H. Brooke Boulton, M.C., M.A. (Cantab.), Diploma in Forestry, whose organisation, Pestcure, Ltd., undertakes the treatment of large and small affected buildings in any part of the country or the world and whose personal services are also available as a consultant or expert witness.

Eric Marchant, F.R.I.C.S.
D. Plaskett Marshall, F.R.I.B.A.
Raymond McGrath, F.R.I.B.A.
Oswald P. Milne, F.R.I.B.A.
Miles and Wills, A.A.R.I.B.A.
Guy Morgan, F.R.I.B.A.
R. Mountford Pigott, M.C., F.R.I.B.A., J.P.
James Munro and Sons.
A. H. Mottram and Son, F.A.R.I.B.A.
Leslie Raymond, F.R.I.C.S., F.A.I.
L. Robinson, L.R.I.B.A.
Keith Roberts, L.R.I.B.A.
Alfred Savill and Son.
Raglan Squire, F.R.I.B.A.
Scott Johnson and Stamp.
Strutt and Parker.
C. G. Stillman, F.R.I.B.A.
Tooley and Foster, F.R.I.B.A.
Wetherall, Green and Smith.
Wheldon and Jones.
William Willett, Ltd.
Norman Wyatt, F.I.A.A., F.I.A.S.
Yorke, Rosenberg and Mardall, F.F./A.R.I.B.A.
P. J. Broomhall, F.R.I.C.S., F.A.I.
Camper Nicholson, Southampton Naval Architects.
H. J. Bell and Company.
Greville Heygate and Company.
Bernard Thorpe and Partners.



PESTCURE LTD., 30 CAVENDISH SQUARE,
LONDON, W.1. Tel: Regent 0704, Mayfair 3397.

Pestcure



When prefabrication
is required . . .

. . . consult
THORNS

This hospital extension, supplied by Thorns, is a good example of planning by an architect whose resourcefulness in adapting Thorns buildings, fully met the needs of his client for immediate extra accommodation at an economical price.

Similar structures are very suitable for:

HALLS · CLUBS · OFFICES · PAVILIONS · LIGHT INDUSTRY

Timber framed. Timber covered or asbestos covered.
10' 12' 15' 20' 25' and 30' SPANS 6' 7' 8' and 10' EAVES
(or any size and design to your specification)

We shall be pleased to send details and prices.

J. THORN & SONS LIMITED (Dept. 188)

BRAMPTON RD., BEXLEYHEATH, KENT.

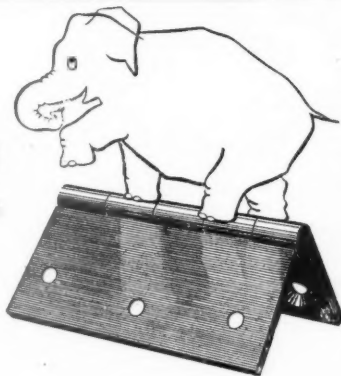
Tel. Bexleyheath 305

Established 1896

Insulating Board and Hardboard

INSULITE PRODUCTS CORPORATION LIMITED
41 KINGSWAY, LONDON, W.C.2. TEMple Bar 9385/7

**FIX
BALDWIN'S
BUTT HINGES
FOR
EXTRA STRENGTH**



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

PHENCO PLASTIC FLOOR COVERING

PHENCO is recommended by Architects as exceptionally strong and hard wearing, with high resistance to oil, grease and chemicals. NON-inflammable. Non-slip and dustless and easily kept clean by normal methods.

PHENCO is tested to British Standards Specification for wear, indentation, pliability, water absorption and non-inflammability. B.S.S. 476/1932, B.S.S. 386/1936, B.S.S. 810/1938.

PHENCO FLOORING is a durable and flexible material with pleasing colour tones. It is supplied in 8 or 12 yard rolls, 36 in. wide by 3/32 in. or 1/8 in. thick; also in tiles 12 in. by 12 in. and 9 in. by 9 in. and 1/8 in. thick.

SAMPLES AND FULL QUOTATIONS ON REQUEST TO

PHOENIX RUBBER CO. LTD.

91, Bishopsgate, London, E.C.2. Tel.: London Wall 1622

Works at: 2K Buckingham Ave., Trading Estate, Slough, Bucks
Tel.: Slough 22307/8/9

Agents for Birmingham area
A. D. FOULKES LTD.

Agents for Sheffield area
JOHN HADFIELD & SONS LTD.



New Assembly Plant Buckley Motors Ltd. (Rootes Group) Vehicles Dublin

Building in Ireland

structural steelwork

steel windows

Smith & Pearson

Smith & Pearson Ltd., Newcomen Works, Dublin





Sold in gallon tins
ready for use

easy does it

The range includes:

VITAMEL HIGH
GLOSS PAINT

WALDURA
WASHABLE
WATER PAINT

SOLVIT
PAINT
REMOVER

VITACHARM
FLAT PAINT

Smith & Rodger's Emulsion Paint makes new friends every day. Easy to apply, no brush marks to show. Dries to a smooth satin-gloss finish. Second coat (if necessary) an hour or two after first. Both you and your client will be enthusiastic about WALDON.



SMITH & RODGER LTD.

ELLIOT STREET GLASGOW, C.3.
CITY 6341-2 'SMITROD' GLASGOW

The Modern FACTORY by Edward D. Mills FRIBA

A BOOK for architects and industrialists. Its purpose is to help solve the many present-day problems of factory layout, planning, design and construction. It contains chapters dealing with siting and layout; the factory estate; the design and structural techniques employed for modern factory buildings; technical considerations; storage and warehouse accommodation; administration buildings; industrial laboratories; industrial welfare buildings. There are numerous line-diagrams, tables and working check-lists in the text, and the book illustrates, with photographs and drawings, a selection of the more interesting factories recently built in this country and abroad, factories which are not only efficient production units but also outstanding examples of contemporary architecture. It ends with a comprehensive bibliography. Bound in full cloth boards. Size 9½ ins. by 7½ ins. 192 pages including frontispiece and 42 pages of plates; many line drawings, a bibliography and an index. Price 30s. net. Postage 8d.

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



Economy . . . plus . . .

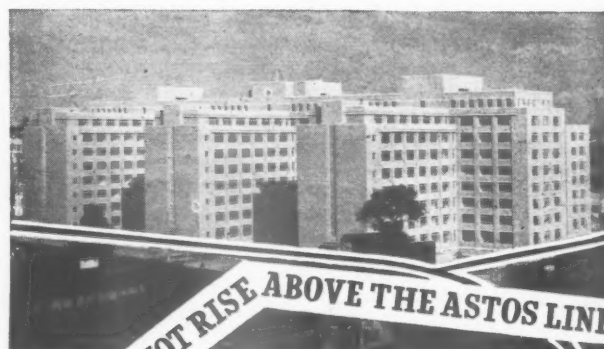
When circumstances demand economy, plus ease of erection, plus adaptability, the J.B. Pre-fabricated Garage meets all requirements. Weatherboard unit construction facilitates erection to any dimension of standard 9 ft. width, in any length multiples of 4 ft. 6 in. It is supplied with double doors for a garage or single door when used for other purposes. Any unit can be lifted by one man and the whole building can be erected by two men in two days.

Johnston Brothers
(CONTRACTORS) LTD.

There is a J.B. pre-fabricated building to meet most needs. Send details of your requirements.

Doseley Quarries, Dawley, Salop
London Office: IBEX HOUSE, MINORIES LONDON, E.C.3

L.G.B.

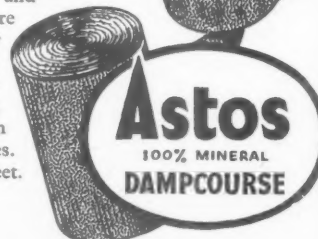


DC.99

DAMP CANNOT RISE ABOVE THE ASTOS LINE

Charles House, Kensington
Architect: Major Arthur S. Ash, F.R.I.B.A.
Dampcourse: Standard Astos

The increasing specification of Astos Dampcourse for Commercial Buildings, Schools, Housing Schemes and Public Buildings is a sure indication of its popularity where quality is the first consideration. Fully described in leaflet No. 555. Standard or Lead-lined in all wall widths up to 36 inches. Rolls contain 24 lineal feet.



THE RUBEROID COMPANY LIMITED,

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

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 in care of "The Architects' Journal," at the address given above.

Public and Official Announcements

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

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

HER MAJESTY'S COLONIAL SERVICE.

Applications are invited for the following posts:—

ARCHITECTS. Public Works Department, Nigeria (C.S.D. 67/14/01).

Vacancies exist for a number of Architects in Nigeria. The appointments are on contract terms in the salary range £895 to £1,719, the point of entry depending on experience and war service. A gratuity is payable on satisfactory completion of contract at the rate of £100 or £150 per annum. Free passages are provided on appointment and on leave for the officer and his wife. Furnished quarters are provided, when available, at a charge of 10 per cent. of basic salary. Leave is granted at the rate of 7 days for each month of resident service.

Candidates must be A.R.I.B.A., with wide general experience.

Intending candidates should apply in writing to the Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, S.W.1, giving brief details of their age, qualifications and experience. They should mention this paper and quote the reference number (C.S.D. 67/14/01).

KINCARDINE COUNTY COUNCIL.

Applications are invited for appointment as an ARCHITECTURAL ASSISTANT in the office of the County Architect and Planning Officer, Stonehaven. Salary scale: A.P.T. IV and V, £550 to £650. Applicants should (a) possess the Intermediate Certificate of a recognised Professional Institute and have had some years' practical experience, or (b) possess the Final Certificate(s) of a recognised Professional Institute or the Diploma(s) of a School of Architecture. Medical examination under Superannuation Scheme. Applications, including the names of three referees, should be lodged with the undersigned not later than 22nd November.

JOHN SLEVIN.

County Clerk.

35, Evan Street, Stonehaven.

COUNTY BOROUGH OF GATESHEAD.

APPOINTMENT OF SENIOR ASSISTANT ARCHITECT (Extended Date).

Applications are invited for the following appointment:—

SENIOR ASSISTANT ARCHITECT, Grade A.P.T. VII (£710-£735-£785 p.a.).

Applicants should be Registered Architects and should be Corporate Members of the Royal Institute of British Architects. They should have had good experience in the design and construction of Public Buildings, Schools and/or Municipal Housing Schemes, and should be capable of supervising the work of a section of the Department.

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

Applications on forms obtainable from the Chief Architect, H. J. Cook, Esq., A.R.I.B.A., 11, Street E., Municipal Buildings, Swinburne Street, Gateshead, 8, should be returned to him by Wednesday, 5th November, 1952.

J. W. PORTER.

Town Clerk.

Town Hall, Gateshead, 8.

7597

17th October, 1952.

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Salary: A.P.T. Grade VI. £670-£735.

Applications are invited from suitably qualified persons for the above appointment to the permanent staff.

The selected applicant will be required to pass a medical examination, and the appointment is subject to the usual conditions applicable to Local Government Service.

Previous experience of Local Government work is not essential.

Housing accommodation can be made available for married applicants.

Applications, giving date of birth, particulars of training and experience, etc., with copies of recent testimonials, should be received by E. B. Pigott, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Saturday, 8th November, 1952.

HARRY TAYLOR.

Town Clerk.

7626

CITY OF NOTTINGHAM.

CITY ENGINEER'S DEPARTMENT.

Applications are invited for the position of ARCHITECTURAL ASSISTANT in one of the following grades:—

Grade A.P.T. IV. £555-£600.

Grade A.P.T. V. £595-£645.

Grade A.P.T. VI. £625-£685.

Grade A.P.T. VII. £670-£735.

Grade will depend on candidate's qualifications and experience. For Grade A.P.T. V. or over, applicants must be Associate Members of the Royal Institute of British Architects.

The successful candidate will be required to pass a medical examination and contribute to the Corporation's Superannuation Fund.

Applications on forms to be obtained from R. M. Finch, Esq., O.B.E., M.I.C.E., Guildhall, Nottingham, should be returned to him not later than 14th November, 1952.

T. J. OWEN.

Town Clerk.

Guildhall, Nottingham.

7602

MIDDLESEX COUNTY COUNCIL—COUNTY ARCHITECT'S DEPT.

ASSISTANT ARCHITECT, Registered, A.P.T. V (£625-£675 p.a. incl. £10 less if under 21 years).

Appointment at grade minimum. Established. Subject to medical assessment and prescribed conditions. Application forms from County Architect, 1, Queen Anne's Gate Buildings, Dartmouth Street, S.W.1 (stamped addressed foolscap envelope), to be returned by 10th November (quoting L.338 A.J.). Canvassing disqualifies.

7605

COUNTY BOROUGH OF SOUTHAMPTON.

Appointment of **SENIOR ASSISTANT ARCHITECT**, Grade VI. Preference to Associate Members R.I.B.A. with educational buildings' experience. Application forms from Borough Architect, Civic Centre, to be returned by 8th November, 1952.

7601

COUNTY BOROUGH OF MIDDLESBROUGH.

EDUCATION COMMITTEE.

ASSISTANT ARCHITECTS.

Required: **TWO ASSISTANT ARCHITECTS,** Grades A.P.T. VII and A.P.T. V, in the Education Offices. (Education Architect: P. R. Middleton, Dipl. Arch., A.R.I.B.A.) The Building Programme in hand offers excellent opportunities in the design and construction of modern school buildings.

Forms of application and conditions of service obtainable from the Director of Education, Education Offices, Woodlands Road, Middlesbrough, to whom completed forms should be returned not later than Saturday, 8th November, 1952.

7616

BOROUGH OF BASINGSTOKE.

APPOINTMENT OF BOROUGH ARCHITECT.

Applications are invited from fully qualified and experienced persons for the newly created post of Borough Architect, at a salary to be fixed at a point between £850 and £1,000 per annum, according to experience and qualifications, and rising thereafter by three annual increments of £50.

The person appointed will be required in particular to advise on the suitability of land for housing purposes, to survey such land, to be responsible for the layout of housing estates and the detail plans, Specifications, Estimates and Contracts required for the development of such estates, including roads and sewers. He will also be responsible for such other appropriate technical work as may be required by the various Committees and departments of the Corporation.

The appointment will be subject to medical examination, to three months' notice on either side to be given at any time, to the provisions of the Local Government Superannuation Act, 1937, and to the Conditions of Service contained in the Memorandum of Recommendations of the Joint Negotiating Committee for Chief Officers of Local Authorities.

Applications, giving age, qualifications and experience, and accompanied by three testimonials specially given for this appointment, must reach me not later than Monday, the 17th day of November, 1952.

Canvassing, either directly or indirectly, will disqualify.

MEIRION O. JONES.

Town Clerk.

Town Clerk's Office.

Municipal Buildings, Basingstoke.

7613

PETERLEE DEVELOPMENT CORPORATION.

CHIEF ARCHITECT'S DEPARTMENT.

APPOINTMENT OF TWO JUNIOR QUANTITY SURVEYORS.

Applications are invited for the appointment of Two Junior Quantity Surveyors, at a salary in accordance with Grade IVb of the Corporation's scales (£585-£685).

Applicants should be capable of abstracting and billing, and measuring on site, and should generally be up to the Intermediate Examination Standard of the Royal Institution of Chartered Surveyors.

The position is a superannuable one, and the successful applicant will be required to pass a medical examination. The appointment, which is subject to the Conditions of Service adopted by the Corporation, will be terminable by one month's notice in writing on either side.

Applications, giving particulars of age, experience, qualifications, etc., together with the names of two referees, should be addressed to the undersigned to arrive not later than Monday, 17th November, 1952.

A. V. WILLIAMS.

General Manager.

Shotton Hall, Castle Eden, Co. Durham.

7630

COUNTY BOROUGH OF WEST HAM.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the post of CHIEF ASSISTANT (PLANNING)

on the permanent establishment of the Department.

Applicants must possess imagination, initiative, and administrative ability, and be prepared to accept responsibility. They should be Architect/Planners, with experience in the reconstruction of war damaged areas and able to take charge of a Planning Section of a busy office, and be Corporate Members of the R.I.B.A. and T.P.I. The work will involve attendance at committees. The salary is A.P.T. Grade X (£895-£940-£940-£950-£1,025 p.a., plus £30 London allowance).

Application forms to be obtained from the Borough Architect and Planning Officer, Thomas E. North, O.B.E., F.R.I.B.A., Dist.T.P., 70, West Ham Lane, Stratford, E.15, and should be returned not later than Friday, 14th November, 1952.

G. E. SMITH.

Town Clerk.

West Ham Town Hall, Stratford, E.15.

7627

COUNTY BOROUGH OF BURTON-UPON-TRENT.

APPOINTMENT OF SENIOR QUANTITY SURVEYOR.

Applications are invited for the above-mentioned appointment in the Architectural Office of the Borough Surveyor, at a salary in accordance with Grade VI of the A.P.T. Division of the National Scheme of Conditions of Service.

Preference will be given to candidates who are Associate Members of the appropriate Institute. Consideration will be given to the provision of housing accommodation if required.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937; to determination by one month's written notice on either side, and to the successful candidate passing a medical examination by the Medical Officer of Health.

Applications in sealed envelopes, endorsed "Quantity Surveyor," stating age, qualifications and experience, and accompanied by copies of three recent testimonials, must be delivered to the Borough Surveyor, Town Hall, Burton-upon-Trent, not later than 10 a.m. on Monday, 10th November, 1952.

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

H. BAILEY CHAPMAN.

Town Clerk.

Town Hall, Burton-upon-Trent.

22nd October, 1952.

7625

PADDINGTON M.B.C. require QUANTITY SURVEYOR'S ASSISTANT (A.P.T. II) (£585-£615-£670 p.a.), £10 less if under 26. Experience in preparation of estimates, working up, abstracting, billing, site measurement, and working up to final account stage. Preference to holders of, or at standard of Inter. R.I.C.S. (Quantities Sub-Division). N.J.C. conditions. Write age, qualifications, present and past appointments, and names of three referees, to Town Clerk (A.93), Paddington, W.2, by 10th November, 1952.

7621

STAFFORDSHIRE COUNTY COUNCIL.

EDUCATION COMMITTEE.

Applications are invited for the appointment of **HEATING ENGINEERING ASSISTANTS** on the Staff of the Education Architect's Department at salaries in accordance with A.P.T. Grades IV to VI, according to qualifications and experience. Applicants should have experience in the design and installation of low pressure hot water heating apparatus, domestic hot water supplies, etc., in all types of school buildings, and be competent draughtsmen.

Preference will be given to Members of the Institute of Heating and Ventilating Engineers.

Applications should be submitted to:—

MR. A. C. H. STILLMAN, F.R.I.B.A.,

Education Architect,

Green Hall, Lichfield Road, Stafford.

stating qualifications and experience, and accompanied by copies of two recent testimonials, to be received no later than the 14th November, 1952.

T. H. EVANS.

Clerk of the County Council.

7620

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of Senior Architectural Assistant, in the Department of the Engineer and Surveyor, at a salary in accordance with A.P.T. Grade V, of the Scales of Salaries, i.e., £595 to £645 per annum, plus appropriate London "weighting."

Applicants should be Associate Members of the R.I.B.A. or hold equivalent qualifications, and should have had a good general experience in a Municipal Architect's office.

The successful applicant will be required to assist in the design and supervision of architectural work in houses, flats and ancillary buildings.

The Council is unable to assist the successful applicant with the provision of housing accommodation.

Forms of application may be obtained, upon receipt of a stamped addressed envelope, from the Engineer and Surveyor, Town Hall, Hayes, Middlesex, to whom completed applications must be returned by 9 a.m. on Monday, 17th November, 1952. The envelope containing a request for a form of application should not be endorsed.

A. E. HIGGINS.

Clerk of the Council.

7615

HEMEL HEMPSTEAD DEVELOPMENT CORPORATION.

Applications invited for the appointment of **PLANNING ASSISTANT**. Salary scale, £485-£610. Applicants should have had experience in a planning/drawing office, and preference will be given to student members of either the Town Planning Institute or the R.I.B.A.

Conditions of appointment broadly similar to Local Government Charter, with Superannuation scheme, or opportunity of continuing in Local Government Superannuation Fund. Applications, endorsed "Vacancy No. 9," giving details of age, qualifications, and experience, together with names of two persons to whom reference can be made, to reach undersigned by 14th November, 1952.

W. O. HART,
General Manager.

Westbrook Hay, Hemel Hempstead, Herts. 7614

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

Appointment of:—
(a) **QUANTITY SURVEYOR**. Grades A.P.T., VI and VII.

(b) **ENGINEERING ASSISTANT**. Grade A.P.T. V.

Applications are invited for the above appointments at salaries in accordance with the appropriate grades. The commencing salary for appointment (a) will be fixed according to the experience of the successful candidate. The appointments are subject to the National Scheme of Conditions of Service and to the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Applicants for appointment (a) must have had considerable experience, including settlement of final accounts, and should be Professional Associates of the Royal Institution of Chartered Surveyors (Quantity Sub-Division).

Applicants for appointment (b) must have had good experience of general Municipal engineering, and should have passed the Final Examination of the Institution of Municipal Engineers and/or the Institution of Civil Engineers.

Applications, suitably endorsed, and including the names of three persons to whom reference may be made, must be delivered to J. G. Stewart, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, 110, Mill Street, Kidderminster, not later than first post on Saturday, 8th November, 1952.

J. L. EVANS,
Town Clerk.

Town Hall, Kidderminster. 7624

CITY ARCHITECT'S DEPARTMENT, MANCHESTER.

Applications are invited from persons having suitable qualifications and/or experience for the appointment of **ASSISTANT QUANTITY SURVEYOR**. Salary: Grade A.P.T., Va, £625 to £585 per annum.

Further particulars and forms of application may be obtained from the City Architect, Town Hall, Manchester, 2; the forms to be returned to the same address by 15th November, 1952. Cancellation is prohibited. 7629

CITY AND COUNTY OF BRISTOL EDUCATION COMMITTEE.

COLLEGE OF TECHNOLOGY. Principal: F. W. PARTINGTON, M.Sc. AMENDED ADVERTISEMENT.

Applications invited for post of **ASSISTANT LECTURER** (Grade B). Professional qualifications in Architecture essential. Work involves part-time day/evening classes in Architecture, Surveying, Diploma and National Certificate courses in Building. Salary: Burnham Technical Scale for graduate assistants, £550-£825-£825, with additional increment for recognised full-time training. Commencing salary according to experience. Further particulars and application form (returnable as soon as possible), by sending stamped addressed envelope to REGISTRAR, College of Technology, Unity Street, Bristol, 1.

G. H. SYLVESTER,
Chief Education Officer.

Council House, College Green, Bristol, 1. 7628

SHEERNESS URBAN DISTRICT COUNCIL. APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited for the above temporary appointment. Salary: A.P.T., Grade II (£495-£540). Experience in preparation of plans, specifications, etc., for housing, public buildings and general Municipal work, and thorough knowledge of present day building essential. Applications on forms to be obtained from the undersigned, together with the names of two persons to whom reference may be made, should be forwarded to me, not later than Monday, 10th November, 1952, in envelopes appropriately endorsed.

J. GRIFFITHS,

Clerk of the Council.
Council Offices, Trinity Road,
Sheerness, Kent. 7619

KENT COUNTY COUNCIL. PLANNING DEPARTMENT.

Applications are invited for a post of **SENIOR PLANNING ASSISTANT** in the Planning Department from persons prepared to take up an appointment in any part of Kent. The salary scale is £595-£785 per annum. The commencing point in the scale will be fixed according to qualifications and experience. Applicants should be Corporate Members of the Town Planning Institute or possess some other appropriate professional qualification, and have had experience in town and country planning.

The appointment is superannuable and subject to satisfactory medical examination.

Applications in own handwriting, stating age, education, qualifications, previous experience, present position and salary, and the names and addresses of two persons to whom reference may be made as to professional ability and character, and endorsed "Senior Planning Assistant," must reach the County Planning Officer, County Hall, Maidstone, Kent, not later than 22nd November, 1952.

W. L. PLATTS,

Clerk of the County Council.
County Hall, Maidstone.
17th October, 1952. 7618

Tenders for Contracts

6 lines or under, 12s. 6d.; each additional line, 2s.

STEPNEY M.B.C. SIDNEY STREET HOUSING SCHEME— PORTION "A."

Tenders are invited for the erection of Blocks 4, 8, 9, 11, 12, 13, and Club Room in the above Scheme, being three blocks of two-storey houses and three blocks of four- and six-storey flats, totalling 60 flats and 20 houses, together with a single storey club room.

Forms of tender with conditions, etc., obtainable from Messrs. Sydney Clough, Son & Partners, Devonshire Close, 39, Devonshire Street, London, W.1, upon payment of a deposit of two guineas. Closing date for tenders: noon, 28th November, 1952.

WILFRED REEVE,

Acting Town Clerk.
7604

STEPNEY M.B.C. SIDNEY STREET HOUSING SCHEME— PORTION "A"—SUB-CONTRACT WORKS. BLOCKS 4, 8, 9, 11, 12, 13 and CLUB ROOM.

Tenders are invited for the execution of the following works:—

- (a) Heating and Hot Water Installation.
- (b) Cold Water Services and Sanitary Plumbing.
- (c) Lifts.
- (d) Metal Windows.
- (e) Lightning Conductors.
- (f) Drying Cupboard Doors and Fittings.

Forms of tender with conditions, etc., obtainable from Messrs. Sydney Clough, Son & Partners, Devonshire Close, 39, Devonshire Street, London, W.1, upon payment of a deposit of two guineas. Closing date for tenders: noon, 28th November, 1952.

WILFRED REEVE,

Acting Town Clerk.
7603

Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s. The engagement of persons answering their advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-69 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

ARCHITECT'S ASSISTANT—Messrs. H. S. Goodhart-Rendel & Partners acknowledge with thanks all applications received for this post, which has now been filled.

ARCHITECTURAL ASSISTANT required for large practice. Offices in Maidhead. Practical experience in surveys, specifications, etc., essential. Details of experience and salary required to Box 7631.

ARCHITECTURAL ASSISTANT, with experience, required for general practice. Reply, stating experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 7622

JUNIOR ARCHITECTURAL ASSISTANT required. Inter. standard. State experience and salary required to: Ruddle & Wilkinson, F.L.A.R.I.B.A., Long Causeway Chambers, Peterborough. 7599

ASSISTANT wanted immediately in small office. N.W. London. Previous office experience essential. Should be capable of working independently. Box 7600.

IMPERIAL CHEMICAL INDUSTRIES, LTD. require an **ASSISTANT ARCHITECT** in London. Age 27-35 years. Essential qualifications: A.R.I.B.A., and 4 years' practical experience. Salary according to age and experience. Apply to the Personnel Manager, Head Office and Regions Staff Dept., Nobel House, 2, Buckingham Gate, S.W.1. 7608

ARCHITECTURAL ASSISTANT required immediately for growing practice, S.W.1. Keenness, some office experience and contemporary design ability essential. Five-day week. Salary by arrangement. Box 7610, or ring VIC 5321.

ARCHITECT, Civil Engineer or experienced individual required in Ireland having complete knowledge of design of Pre-fabricated buildings in detail, and of all component parts; must be capable of taking complete charge of factory premises, and supervising design and construction. Outstanding salary to accepted person. Reply stating experience in detail, age, when available, salary expected to Box 7635.

Architectural Appointments Wanted

CAPABLE young A.R.I.B.A., with 6 years' experience (office and site) of industrial and domestic buildings, requires responsible job in Newbury, Oxford, Reading district. Box 590.

ARCHITECTURAL DRAUGHTSMAN (35), 9 years' varied experience, especially housing, alterations, building surveys, etc., private work, desires re-enter profession, small office (useful typist). Birmingham or near. Last 4½ years as Representative. Accept lower salary than usual. Studying for Final. Box 407, 19/21, Corporation Street, Birmingham, 2. 7599

A.R.I.B.A., Dipl. Arch (23), single, with one London office. Box 593.

POST 3 days per week required in Architect's or Surveyor's office in London, urban Essex or Southend. R.I.C.S. Intermediate (Bldg.). Taking Finals '53. Also studying R.I.B.A. Box 7609.

ASSOCIATE, school trained, 40, at present earning £1,150 in a Nationalised Organisation with a wide experience of heavy industrial building including chemical engineering, seeks a post in an industrial organisation or with a private office, where administrative capacity and initiative are required. Box 7633.



A rofter in the roof of Chichester Cathedral showing damage by the Death Watch Beetle.

Expert treatment of timber decay

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

Send for free Technical Brochure: "The Control of INSECT AND FUNGAL DESTROYERS OF TIMBER."

For advice and further details write to:—

RICHARDSON & STARLING, LTD.
Members of the British Wood Preserving Association
HYDE STREET · WINCHESTER · Tel. 2537

N.A.A.F.I. COMPOUND
Fratton Industrial Estate, PORTSMOUTH
Architects: Messrs Joseph. General Contractors: Lavender McMillan Ltd.

We had the pleasure of supplying
paints for the above contract.

FLEETWOOD PAINTS LTD

Dept. of Architectural Service

22 Armoury Way, Wandsworth, S.W.18
Vandyke 3455

ARCHITECTURAL ASSISTANT wishes London position. Expedient draughtsman. Over 5 years' office experience. Box 7623.

DIP. ARCH., A.R.I.B.A. (24), several months' experience, just relinquished National Service commission, R.A.F., seeks position anywhere. Box 594.

Other Appointments Vacant

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

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is accepted from the provisions of the Notification of Vacancies Order, 1952.

REQUIRED immediately, **JUNIOR DRAUGHTSMAN/WOMAN**, with general knowledge of construction and details, in market town 11 miles from Oxford. Apply Box 7584.

WELL-KNOWN Midlands Firm require for their London branch an **ENGINEER**, to take charge of and control drawing office. Applicants must have knowledge of R.C. frames and steelwork and various forms of floor, roof, and staircase construction; be familiar with drawing office practice (including relevant correspondence) and site work, and possess experience in the preparation of designs, calculations, and detailing, and have complete knowledge of codes of practice and building regulations. Write fully, experience, technical qualifications and salary required, Box No. AC76348, Samson Clark, 57/61, Mortimer Street, London, W.1. 7587

DRAUGHTSMAN required, age over 25, for Central London office. Buildings and Services Division controlling building work for large group of factories. Experience essential in general building and structural work, surveying for site layouts, obtaining site details for modifications to existing buildings. Preference to men with knowledge of industrial engineering services. Staff Superannuation Scheme. Salary in accordance with experience. Write, giving age and full particulars, to Staff Division, The Metal Box Co., Ltd., The Langham, Portland Place, W.1, quoting reference BS/14. 7607

CLARKE, NICHOLLS & MARCEL require **DRAUGHTSMEN** for their Bristol Office. Give details of training, experience, and salary required. Berkeley Cottage, Berkeley Square, Bristol. 7617

Services Offered

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

A.R.I.B.A., with good all round experience, requires part-time or free lance work to help his growing practice. MUSEUM 9106. 7205

TYPEWRITING, DUPLICATING—Bills of Quantity, Specifications, etc., expertly typed/duplicated. Express service. Work collected/delivered. **JOSPHINE HALL & PARTNERS**, 501/2, GRAND BUILDINGS, TRAFALGAR SQUARE, W.C.2. WHL 6411/2, and 77, High Street, Tunbridge Wells. Telephone: 1285. 7005

SURVEYING and Levelling of Buildings and Sites, Sketch Plans, Working Drawings, Perspectives, Details, Specifications, etc., carried out for Architectural firms in South Wales area at moderate charges. Ring Llanishen 44. 7567

A.R.I.B.A., Dip. Arch., with own practice, is in position to render part-time or free-lance help to Architects. District centred in Bristol, Somerset, Gloucestershire. Box 7588.

YOUNG qualified **ARCHITECT**, with several years' general experience, offers his service for part-time work. Box 7611.

DESIGN and Draughting Work carried out under supervision of Qualified Civil Engineer. The Design and Draughting Co., 107, Malden Road, New Malden, Surrey. MAL. 4343. 7612

SPECIFICATIONS, B./Quantities, Estimates, etc. Typewritten or duplicated by qualified experts. Reasonable terms. Miss Stone, 447, Strand, W.C.2. REM. 5994. 7543

For Sale or Wanted

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

RECONDITIONED EX-ARMY HUTS, and manufactured buildings. Timber, Asbestos, Nissen type, Hall type, etc. All sizes and prices. Write, call, or telephone. Universal Supplies (Belvedere) Ltd., Dept. 25, Crabtree Manorway, Belvedere, Kent. Tel.: Erith 2948. 6903

FOR SALE—CHUBB Fire and Thief Resisting Strong Room Door and Frame. Opens 180 deg. 6 ft. 6 in. by 2 ft. 7 in., 5½ in. thick. 3 in. thick fire resisting chambers filled steam generating composition of ½ in. plate of tough Siemens steel. ¾ in. reinforced edges fitted locking 5 ft. 14 in. round steel bolts at front. Brass handle. Secured 6-lever lock, duplicating key, protected by drill-proof guard plate, continuous dog-bolt at back. Purchaser to remove.—Enquiries to Branch Manager, N.F.U. Mutual Insurance Society, Ltd., 17, Ashford Road, Maidstone, Kent. 7575

FOR SALE—Old-established Architect and Surveyor's Practice in the West Riding of Yorkshire. For full particulars write Box 7585.

Miscellaneous

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

A. J. BINNS, LTD. Specialists in the supply and fixing of all types of Fencing, Gates and Cloakroom Equipment. Harvest Works, 96/107, St. Paul's Road, N.1. Canonbury 2051.

FENCING FOR ALL PURPOSES supplied and erected. Established over 100 years. Cloakroom equipment also a speciality. Write Parker, Winder & Achurch, Ltd., 80, Broad Street, Birmingham, 1. (Midland 5001). 6526

DUPPLICATING AND TYPEWRITING, Bills of Quantities, Specifications, etc. All grades of Office Staff supplied. Trinity Bureau, 50, Bedford Street, Strand, W.C.2. TEM. 3002. 7606

Educational Announcements

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

R. I.C.S., I.A.A.S., and I.Q.S. Exams.—Postal Courses conducted by the Ellis School (Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.), 103B, Old Brompton Road, S.W.7. KEN. 4477/8/9. Descriptive Booklet on request. 7020

R. I.B.A. and T.P.I. EXAMS.—Stuart Stanley (Tutor Sch. of Arch., Lon. Univ.) and G. A. Crockett, M.A./B.A., F./A.R.I.B.A., M./A.M.T.P.I. (Prof. Sir Patrick Abercrombie in assn.), prepare Students by correspondence tuition, 10, Adelaide Street, Strand, W.C.2. TEM. 1603/4.

ARMY APPRENTICES EXAMINATION, NOVEMBER 1952.—Give your son a free apprenticeship in a skilled trade. The Army Apprentices School offer the chance of skilled trade training in 36 trades at no cost to a boy's parents or guardians. Pay and allowances start from the first day at school. Kit, clothing, accommodation and food are free. There are eight weeks paid holiday (with free travel home) a year. Trade training courses last up to three years. Age at entry between 15 and 17. Next entrance examination which may be taken at 14½ will be held on 27th November, 1952. Send for details of this chance to secure your boy's future to the War Office (AG10/AS24) London, S.W.1. Entry forms must be returned by 15th November, 1952. 7634

RIBA INTER, FINAL & SPECIAL FINAL

Postal Courses in all or any subjects including Design and Professional Practice, Consultation arranged.

THE ELLIS SCHOOL

Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A., 103B, OLD BROMPTON RD., LONDON, S.W.7
Phone: KEN 4477/8/9 and at Worcester

E. BRADSHAW & SON

MASTIC ASPHALTE
&
TARMACADAM
CONTRACTORS

322 FAWCETT RD., PORTSMOUTH

**ASPHALT
WORK
TO ALL B.S.S.**

**COVERITE
(ASPHALTERS) LTD.**
PALACE GATES STYL. PLZ. Essex Park 1070

FIBROUS PLASTERWORK OF EVERY DESCRIPTION

ALLIED GUILDS

King Edward Square
SUTTON COLDFIELD. Tel: Sut 3809

WHITE FACING BRICKS

(S. P. W. BRAND)

Telephone: BULwell 78237-8
Telegrams: "Maclime", Bulwell, Nottingham.

M. MCCARTHY & SONS, LTD.
BULWELL • NOTTINGHAM

METAMICA

Vermiculite Scientifically Applied

- * AGGREGATE
- * IN SITU APPLICATIONS
- * PREFABRICATED PRODUCTS

TECHNICAL BULLETINS AND DETAILS FROM
METAMICA LTD., 50 BLOOMSBURY ST. W.C.1

FENCING

BOULTON & PAUL LTD.
NORWICH

SIGNS and LETTERS

IN METAL, WOOD, PERSEPEX,
PRODUCED IN OUR OWN UP-TO-DATE
WORKSHOPS BY SKILLED CRAFTSMEN
BUILT TO YOUR SPECIFICATION.
SIGN SERVICE
9, HIGH STREET,
BIRMINGHAM 23
Phones: Erdington 5234/5

JUST ANOTHER

Sommerfeld's

PRODUCT

SOMMERFELDS, LTD WELLINGTON SHROPS • TELE 1000



REINFORCEMENT BENDING

Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Aidas Electric, Ltd.	xxiii	Gas Council, The	iv	Remploy, Ltd.	xxxii
Allied Guilds	lxv	Glow-Worm Boilers, Ltd.	iv	Richardson & Starling, Ltd.	lxiv
Anderson Construction Co., Ltd.	—	Greenwood's & Airvac Ventilating Co., Ltd.	ii	Rubergold Co., Ltd., The	lxii
Architectural Press, Ltd.	lxii	Gyproc Products, Ltd.	x	Sankey, J. H., & Son, Ltd.	—
Armstrong Cork Co., Ltd.	xi, i	Hall, John, & Sons (Bristol & London), Ltd.	vi	Sarco Thermostats, Ltd.	liii
Ascot Gas Water Heaters, Ltd.	xxxiv	Hammill Brick Co., Ltd.	xlvi	Sealcrete Products, Ltd.	xvi
Austin, James, & Sons (Dewsbury), Ltd.	xxv	Hangers Paints, Ltd.	lvi	Semtex, Ltd.	lii
Austins of East Ham, Ltd.	xxxvi	Harvey, G. A., & Co. (London), Ltd.	lii	Sign Service	lxv
Bailey & Whites, Ltd.	xxxvii	Hawkesley Construction Co., Ltd.	xxvii	Simplex Electric Co., Ltd.	—
Baldwin, Son & Co., Ltd.	lxi	Hickman, Ltd.	ii	Smith & Pearson, Ltd.	lxii
Banister, Walton & Co., Ltd.	—	Hill, E. Aldam & Co., Ltd.	—	Smith's Fireproof Floors, Ltd.	lxii
Boulton & Paul, Ltd. (Engineers), Ltd.	lxv	Holland & Hannen & Cubitts, Ltd.	—	Snowcem	ix
Bourner, F. H., & Co.	xi	Hollis Brothers, Ltd.	viii	Sommerfeld's, Ltd.	lxv
Bradshaw, E., & Son	lxv	Hope, Henry, & Sons, Ltd.	xlvi	Spelthorne Metals, Ltd.	—
Briggs, Wm., & Sons, Ltd.	—	Ibstock Brick & Tile Co., Ltd.	lxvi	Stafford Unit Building	xi
British Constructional Steelwork Association	Front Cover	Insulite Products Corporation, Ltd.	lxi	Steleon (Industrial Floors), Ltd.	—
British Plaster Board, Ltd., The	xxi	Janitor Builders, Ltd.	xxxvi	Stott, Jas., & Co. (Engrs.), Ltd.	—
British Trolley Truck Co., Ltd.	lxv	Johnston Brothers (Contractors), Ltd.	lxii	Stramit Boards, Ltd.	lxiii
Britmac Electrical Co., Ltd.	xxiv	Kay, Wm. (Bolton), Ltd.	xxx	Structural & Mechanical Development Engrs., Ltd.	xli
Broad & Co., Ltd.	lviii	Keay, E. C. & J., Ltd.	xxviii	Sulzer Bros. (London), Ltd.	xv
Broadmead Products, Ltd.	xxxvii	Kirk & Kirk, Ltd.	xxix	Sundeals Board Co., Ltd.	—
Brunswick Metal Casement & Engineering Co., Ltd.	xxxviii	Kwikform, Ltd.	—	Tarmac, Ltd.	lxvii
Carron Company	lii	Laing, John, & Son, Ltd.	—	Technicrete Sales	lvii
Carter & Co., Ltd.	—	Lansdowne Varnish & Enamel Co., Ltd.	xlvi	Telephone Rentals, Ltd.	xxxviii
Cellacrete & British Unalite, Ltd.	lxv	Lead Industries Development Council	lxii	Templer, C. G.	lix
Cement Marketing Co., Ltd.	ix	Linden Doors, Ltd.	—	Terradura Flooring Co., Ltd.	—
Chance Bros., Ltd.	—	Lindsey, A. E., & Son, Ltd.	—	Thermacoust, Ltd.	—
Colt Ventilation, Ltd.	—	London Brick Co., Ltd.	—	Thompson, John (Beacon Windows), Ltd.	—
Colt, W. H. (London), Ltd.	—	Luxfer, Ltd.	li	Thor Appliances, Ltd.	lxvii
Concrete, Ltd.	—	MacAndrews & Forbes, Ltd.	lxvii	Thornton, A. G., Ltd.	—
Costain Concrete Co., Ltd.	xlili	McCarthy, M., & Sons, Ltd.	lxv	Thorn, J., & Sons, Ltd.	ix
Coverite (Asphaltes), Ltd.	lxv	Magnet Timber, Ltd.	xix	Timber Development Association, The	—
Davidson, C., & Sons, Ltd.	—	Mallinson, Wm., & Sons, Ltd.	i	Tretol, Ltd.	—
De La Rue, Thos., & Co., Ltd.	xxii, xlii	Martyn, Bruce, Ltd.	—	Troughton & Young (Lighting), Ltd.	—
Diespeker & Co., Ltd.	xxxv	Meta Mica, Ltd.	lxv	Tucker, Duncan (Tottenham), Ltd.	—
Dignus, Ltd.	xx	Metropolitan-Vickers Electrical Co., Ltd.	lxv	Tucker, J. H., & Co., Ltd.	—
Docker Bros.	xxxlii	Mills Scaffold Co., Ltd.	lxviii	Turner, Chas., & Son, Ltd.	—
Dunlop Rubber Co., Ltd.	—	National Federation of Clay Industries	—	Val De Travers Asphalt Paving Co., Ltd.	—
Dutton, H. W., & Co., Ltd.	xxxlii	Neuchatel Asphalt Co., Ltd., The	—	—	—
Econa Modern Products, Ltd.	liii	North British Rubber Co., Ltd.	v	—	—
Ellis School of Architecture, The	lxv	Permanite, Ltd.	lii	—	—
Estates Gazette, Ltd.	—	Pesture, Ltd.	lx	—	—
Eustace & Partners, Ltd.	lix	Phoenix Rubber Co., Ltd.	lvi, lxi	—	—
Evode, Ltd.	—	Pilkinson Brothers, Ltd.	—	—	—
Ferodo, Ltd.	xlii	Porn & Dunwoody (Lifts), Ltd.	—	—	—
Fibreglass, Ltd.	—	Prodorite, Ltd.	lviii	—	—
Finlock Gutters, Ltd.	xliv	Pyrene Co., Ltd., The	lvii	—	—
Fleetwood Paints, Ltd.	—	Rawlings Bros., Ltd.	—	—	—
Franklin, G. W., & Son	xxxviii	Redpath, Brown & Co., Ltd.	xliv	—	—
				—	—

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous, Property, Land and Sales, see lxiii, lxiv, lxv.



An Architect's House

House for G. M. Vickers, Esq., A.R.I.B.A., "The Brindles," Thornton Rd., Cambridge. Builder: A. Burling, Over, Cambs.

IBSTOCK
FACINGS

Part of the attractiveness of this charming house at Cambridge comes from the facings, selected from the Ibstock range of red multi rustics. The Ibstock works produce a wide selection of coloured facing bricks for architectural work. May we send a catalogue of specimen panels in full colour?

IBSTOCK BRICK & TILE CO. LTD., Nr. LEICESTER. PHONE: IBSTOCK 391 (2 lines)
London: L.M.R. Goods Depot, Wright's Lane, Kensington, W.8. Phone: WESTERN 1281 (2 lines)



PAGE
xxii
lxiv
lxii
lxi
xvi
lii
lxv
lxi
lxii
ix
lxv
xl
xlii
xli
xv
lxvii
lvii
xxviii
lix
lxvii
lx
xxvi
xxx
lx
xxviii
lv
xviii



A be
ing
"bu
space
Reco
sink
buil
wash

Please
THOR

I
E
A
IA

Aids
savin
Easy
econ
A Q
enced
Speci

FULL
TA



**1 UNIT
3 PURPOSES**

- KITCHEN SINK (with draining board)
- DISH WASHER
- CLOTHES WASHER

Thor AUTOMAGIC SINK UNIT

incorporating the famous Thor Automagic Spinner Washing Machine

A boon to the builder — a blessing to the housewife. Saves "building-in" costs — saves space.

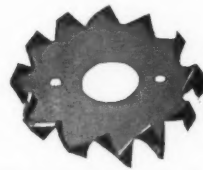
Recommend this attractive sink unit for every house you build, and profit by selling a washing machine, too.

Please write for full details:

THOR APPLIANCES LTD. 64/66 OXFORD STREET, W.1

54" wide, 36" high, 26" deep. Unit top and hinged draining board in Stainless Steel. Cabinet pretreated stout gauge aluminium, finished enamel in cream or white with attractive plastic handles in matching or contrasting colour. Two hinged doors.

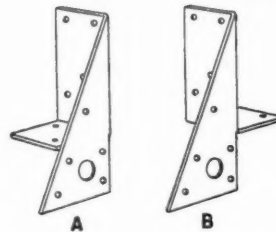
FOR STRONGER TIMBER STRUCTURES



"BULLDOG" TIMBER CONNECTORS are made in two types — double-sided and single-sided.



"TECO" Patent SPLIT-RING TIMBER CONNECTORS are double bevelled to ensure easy insertion, and give greater load capacity.



MAE

TRIP-L-GRIP FRAMING ANCHORS

for use in all types of timber framing and for secondary structural connections.

For full details apply to the main distributors:—

MACANDREWS & FORBES LIMITED
2 CAXTON STREET, LONDON, S.W.1

Telephone: ABBey 4451/3

Stocks held by appointed distributors throughout the U.K & Eire.

HOUSING!!

**ECONOMY
AND
IMPROVEMENT**



Aids speedy construction . . . Labour and timber saving . . . No supporting form-work needed. Easy handling: no maintenance. A definite economy, with good architectural appearance . . . A QUALITY PRODUCT: made by experienced and long established Pre-cast Concrete Specialists . . . Under licence from patentee.

THE ORIGINAL PRE-CAST GUTTER *The "M-M"*

PATENT NO. 576004

IN THE FAMOUS "VINCULUM" CONCRETE THE GUTTER FOR THE FASTIDIOUS ARCHITECT WHO REALISES THE IMPORTANCE OF EAVES TREATMENT (SUITABLE ALSO FOR FLAT ROOFS)

FULL PARTICULARS AND PRICES ON APPLICATION:

TARMAC LTD

VINCULUM DEPT.

ETTINGSALL • WOLVERHAMPTON • TEL.: BILSTON 41101/11

LONDON OFFICE:
50, PARK ST., LONDON, W.1
TEL.: GROSVENOR 1422/5 (4 LINES)

**Hiring your steel shuttering
'H' frames and props?**

**It's
better to buy**

MILLS



MILLFORMS,



MILLFRAMES



MILLPROPS

**AND SAVE YOURSELF MONEY
AS WELL AS CONTRACT TIME**

MILLFORMS (the automatically aligning and self-supporting steel shuttering for concrete walls, floors, columns and beams), MILLFRAMES (the greatest single time- and -labour- saving advance in tubular scaffolding technique) and MILLPROPS (adjustable tubular steel shores) are the finest stock investments you can make. They save you money every time you use them—and *you save more when you own them.* Write for full details now.

MILLS SCAFFOLD CO. LTD.

Head Office & Depot: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6 • *PHONE:* RIVerside 5026/9

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

