ARCHI



tandard

contents

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

COMMENTNEWS and

Diary News

Astragal's Notes and Topics

Letters

Societies and Institutions

SECTION TECHNICAL

Information Sheets Information Centre Current Technique **Duestions** and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

BUILDINGS CURRENT

HOUSING STATISTICS

Architectural Appointments Vacant Wanted and

No. 31001 [Vol. 120 THEARCHITECTURAL 9, 11 and 13, Queen Anne's Gate, Westminster, S. W. I. 'Phone: Whitehall 0611

> Price 1s. od. Registered as a Newspaper.

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

AAI ABS

Architectural Association, 34/6, Bedford Square, W.C.1. Museum 0974
Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley,"
Castle Hill Avenue, Berkhampstead, Herts.
Architects' Benevolent Society. 66, Portland Place W.1
Association of Building Technicians. 5, Ashley Place, S.W.1. Whitehall 9737
Aluminium Development Association. 33, Grosvenor Street, W.1. Mayfair 7501/8
Architectural Students' Association. 34/36, Bedford Square, W.C.1.
Architects' Registration Council. 68, Portland Place, W.1. Langham 8738
Board of Architectural Education. 66, Portland Place, W.1. Langham 5721
Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.
Reliance 7611, Ext. 1706
Museum 5400
Museum 5400 ABT **ACGB** ADA ArchSA

ARCUK BAE BATC

Building Apprenticeship and Translage Reliance /611, Eat. 1700

Building Centre. 26, Store Street, Tottenham Court Road, W.C.1. Museum 5400

British Colour Council. 13, Portman Square, W.1. Welbeck 4185

British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5. Ealing 9621

British Cast Iron Research Association. Alvechurch, Birmingham. Redditch 716

British Door Association. 10, The Boltons, S.W.10. Fremantle 8494

British Electrical Development Association. 2, Savoy Hill, W.C.2. Temple Bar 9434

British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.

Glasgow Central 2891

Towistock Square, W.C.1. Euston 5385 BC BCC **BCCF** BCIRA **BDA** BEDA BIA

British Institute of Adult Education. 29, Tavistock Square, W.C.1. Euston 5385
Building Industries Distributors. 52, High Holborn, W.C.1. Chancery 7772
Building Industries National Council. 11, Weymouth Street, W.1. Langham 2785
Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1. BIAE BID BINC

BOT Trafalgar 8855
British Rubber Development Board. Market Buildings, Mark Lane, E.C.3. BRDB

Mansion House 9383 BRS BSA BSI BTE CABAS

CAS

Building Research Station. Bucknalls Lane, Watford.
Building Societies Association. 14, Park Street, W.1.

British Standards Institution. British Standards House, 2, Park St., W.1. Mayfair 9000
Building Trades Exhibition. 4, Vernon Place, W.C.1.

City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A.,

Civic Centre, Newport, Mon.

County Architects' Society. C/o F. R. Steele, F.R.I.B.A.,

County Hall, Chichester. Chichester 3001
Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.

Copper Development Association. Kendals Hall, Radlett, Herts.

Council for Codes of Practice. Lambeth Bridge House, S.E.1.

Copper Development Association. Kendals Hall, Radlett, Herts.

Council of Industrial Design. Tilbury House, Petty France, S.W.1.

Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280
Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.

Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1. Reading 72255

Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.

Reliance 7611

Whitehall 0540 CCA CDA CIAM **CPRE** CUC CVE DGW

Design and Industries Association. 13, Suffolk Street, S.W.1. Whi Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1. Whitehall 0540 Trafalgar 8855

EJMA EPNS

FASS **FBBDO**

Trafalgar 8855
English Joinery Manufacturers' Association (Incorporated), Sackville House,
40, Piccadilly, W.1. Regent 4448
English Place-Name Society. 7, Selwyn Gardens, Cambridge.
Faculty of Architects and Surveyors. 67, Oxford Street, W.1. Gerrard 0021
Federation of Association of Specialists and Sub-Contractors,
Artillery House, Artillery Row, S.W.1. Abbey 7232
Fibre Building Board Development Organisation, Ltd., Melbourne House,
Aldwych, W.C.2. Temple Bar 4561
Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711
Forestry Commission. 25, Savile Row, W.1.
Federation of Coated Macadam Industries. 37, Chester Square, S.W.1. Sloane 1002
The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623
Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.
Ulverston 201 FBI FCMI

FDMA FLD Ulverston 201 **FMB** Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.

The Federation of Painting Contractors, St. Stephen's House, S.W.1. Whitehall 3902
Federation of Registered House Builders. 82, New Cavendish Street, W.1.

Langham 4041
Faculty of Surveyors of England. 67, Oxford Street, W.1.

Gerrard 0021 FRHB

FS (Eng.) Gas Council. 1, Grosvenor Place, S.W.1.
Georgian Group. 27, Grosvenor Place, S.W.1.
Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. Sloane 4554 Sloane 2844 Whitehall 2881 GG Housing Centre. 13, Suffolk Street, Pall Mall, S.W.I.
Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.I.
Sloane 5615 IAAS

Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1. Grosvenor 6186
Institution of Civil Engineers. Great George Street, S.W.1.
Institution of Electrical Engineers. Savoy Place, W.C.2.
Illuminating Engineering Society. 32, Victoria Street, S.W.1.

Stoane 3615
Whitehall 4577
Temple Bar 7676
Illuminating Engineering Society. 32, Victoria Street, S.W.1.

Abbey 5215 ICA

Split Head

WITH SPRING-LOADED SELF-LOCKING PIN



 Pin cannot be removed when the load is on • Maximum safety in operation • No loose parts to be lost • Split Head pierced for securing cross-battens • Made of tubular steel with high-grade steel locking pin and spring.

	SIZE	HEIGHT CLOSED	HEIGHT EX- TENDED	WEIGHT lbs.	SAFE LOAD cwts.
-	SMALL	2 ft.	3 ft.	22	30
	MEDIUM	3 ft.	4ft. 8ins.	30	25
1	LARGE	5 fc.	8ft. 4ins.	60	20

To raise, simply pull up tube; to lower, pull out pin and slide tube down; in each case, pin automatically locks itself into new position.

Now available for

immediate delivery. Sale

or hire

WRITE FOR ILLUSTRATED FOLDER WITH FULL DETAILS TO: MILLS SCAFFOLD CO. LTD.

HEAD OFFICE: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6. (RIVERSIDE 5026/9)

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

S

then fety arts reed

with pin

SAFE LOAD cwts.

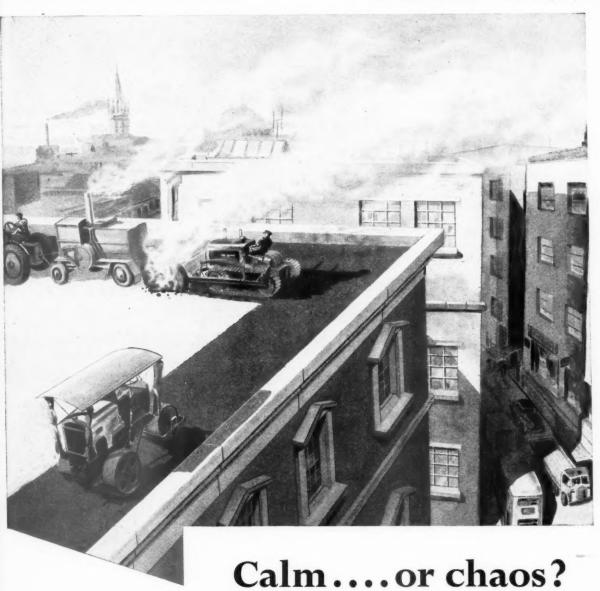
30 25 20

iro

26/9)

· ILFORD

Occall that be enl



Occasionally we meet people, bless their hearts, who have some vague idea that the job of asphalting calls for little more than brute force and ignorance. Swallowing hard, we explain with icy calm that this job calls for immense experience, specialised knowledge and skilled organisation if it is to be done economically and with the complete absence of chaos. Which is why, no doubt, so many enlightened Architects call in Val de Travers.

VAL DE TRAVERS ASPHALTE

21-22 OLD BAILEY, LONDON, E.C.4

Phone: City 7001 (10 lines)

Grams: Traversable, Telex, London

BRANCHES: BIRMINGHAM, CANTERBURY, EXETER, GLASGOW,
LINCOLN, LIVERPOOL, MANCHESTER, NEWCASTLE-ON-TYNE





THE AIRSCREW COMPANY
& JICWOOD LTD

NOCH THE COMPANY
MAN-MADE TIMBER

GUARANTEED TO SPECIFICATION
GRADE P.S.





Look for the

on every Board!

Every board of genuine WEYROC Man-made Timber bears a WEYROC LABEL, which is a GUARANTEE of consistent QUALITY and a published SPECIFICATION.

Users are earnestly advised to INSIST ON GENUINE WEYROC, the well-established Timber whose RELIABILITY and DURABILITY have been consistently PROVED during the past eight years.

Write for a copy of the WEYROC SPECIFICATION and KNOW what you are getting when you buy GENUINE WEYROC.

Welliog

MAN-MADE TIMBER

MADE AND GUARANTEED BY

THE AIRSCREW COMPANY & JICWOOD LIMITED

WEYBRIDGE · SURREY

DAMPCOURSING...TODAY

must adhere to moist surfaces must adhere to green concrete must eliminate pre-heating

must remain stable to temperature changes

it must be EVODE

COLD

Supersedes the old method of pitch and hot bitumen. Specified by leading authorities for schools, houses (permanent and prefabricated) shops, etc.

Bitumen Covering

£45 a TON

at 1½ lb. per square yard . . . with 2 heavy coats . . . covers 1500 square yards

Send now for leaflet 1040, it tells you all about EVODE Cold Bitumen Covering, the method used more widely today-than any other, for horizontal dampcoursing of concrete rafts, basements for schools and permanent and prefabricated houses, etc.

EASY APPLICATION -STRAIGHT FROM THE DRUM-USING A SOFT HAIRED BRUSH NO MIXING NECESSARY



PRODUCT

Now is the time to get full details

EVODE LIMITED · GLOVER STREET · STAFFORD

Telephone: 1590/1/2

Telegrams: Evode, Stafford

LONDON OFFICE: I Victoria Street, London, S.W.I . Telephone: ABBey 4622/3



reinforcement starts on paper!

ROM RIVER

reinforcement service





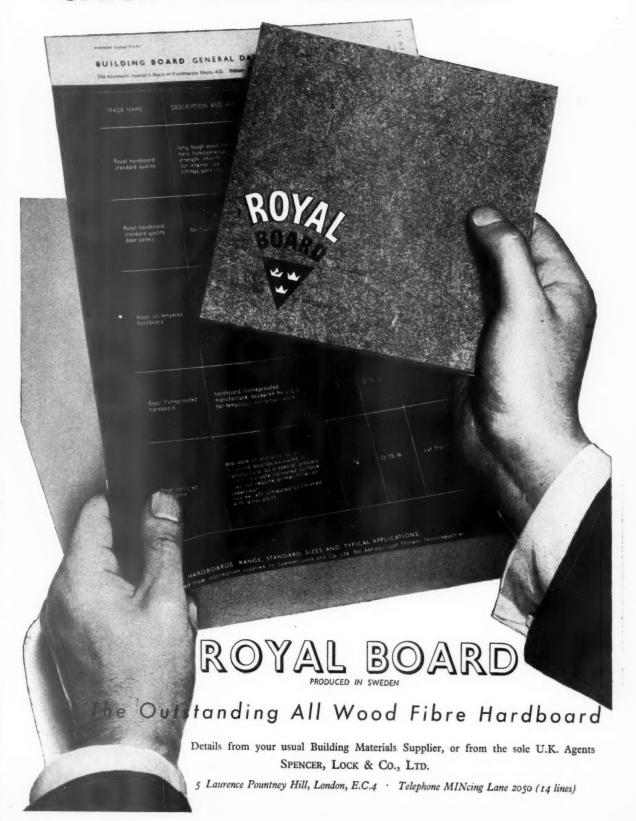
design supply bending fixing

THE ROM RIVER CO. LTD.

St. Richards House, Eversholt Street, London, N.W.I Telephone: EUSton 7814-9 • Telegrams: Romrivco Norwest London

T.A. 668

SPECIFY WITH CONFIDENCE



aluminium adventure



power climbs over A PASS

High above the steep sides of the Kemano valley, British Columbia, engineers handle aluminium cable, steel reinforced, 2.26 ins. in diameter — the largest ever made.

This unique transmission line, designed to withstand heavy icing loads, will carry the 300,000 volt output of the Kemano underground power station across fifty miles of rugged terrain and over the 5,300 ft. Kildala Pass. To mountain sites inaccessible to all other forms of transport, helicopters have

flown-in materials and equipment for the transmission towers which will take the power over the pass to Kitimat.

There, on the shores of the Douglas Channel, the great new smelter of Aluminum Company of Canada Ltd. is rapidly taking shape. When fully developed it will be capable of producing 500,000 metric tons of aluminium a year, and will play an important part in making aluminium and its alloys ever more abundantly useful.

Aluminium Union Limited

(Incorporated in Canada)

THE ADELPHI, STRAND, LONDON, W.C.2 AN ALUMINIUM LIMITED COMPANY PRINCIPAL BRITISH COMMONWEALTH DISTRIBUTOR OF ALUMINIUM



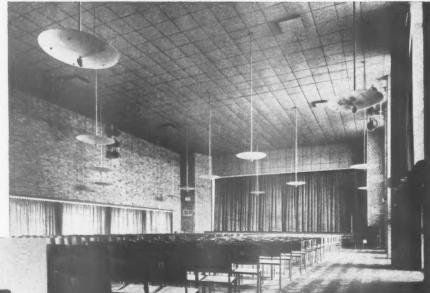




INSULATING BOARD FOR CEILINGS AND WALLS

With the "Veelap" system we supply lay-outs for approval, after which the boards are cut to size and the edges processed with Veelap. The boards are then numbered on the back to conform to plan and sent to site-in other words, a prefabricated sheet using

dry technique finish.
"Veelap" Insulating Board
may be nailed, using
"Metco" Sheradised Gimp Pins, or P.K. screwed, or bonded to joists and/or battens. The "lap" takes up any movement of the boards when in place.

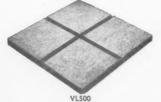


'The "Veelap" system is now used in conjunction with our Metal fixing methods of suspended ceilings and walls (concealed fixing).

TYPES OF JOINTS AVAILABLE STANFORD-LE-HOPE SCHOOL, ESSEX

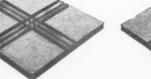
Architect:
GERALD LACOSTE, ESQ., M.B.E., F.R.I.B.A.,
in association with
HAROLD CONOLLY, ESQ., F.R.I.B.A.,
COUNTY ARCHITECT







VL502A





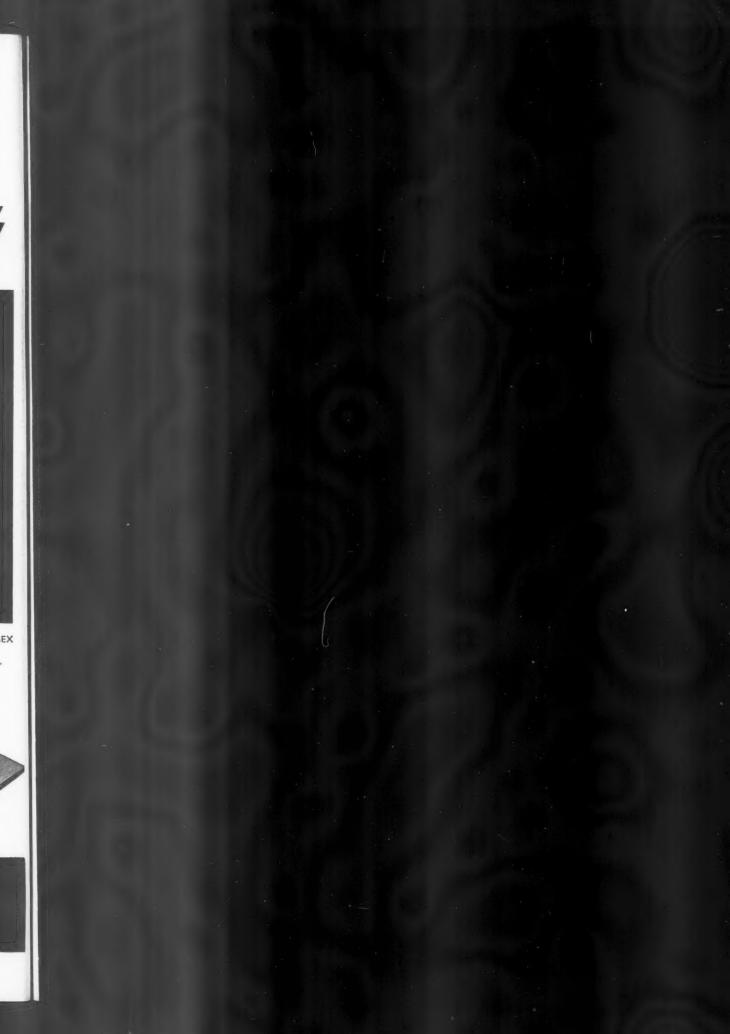
VL502B (As VL502A, but with three instead of two beads)

VL503

COMPANY Limited.

EFFINGHAM HOUSE, ARUNDEL STREET, STRAND, LONDON, W.C.2

Telegrams: "Themetraco, Estrand, London," Telephone: TEMple Bar 5303 (8 lines)





The creative element



enhance the beauty of the Salon de Réception, Pavillon d'Espagne, Cité Universitaire, PARIS

...in modern flooring

In fine flooring installations all over the world you will see the results of creative planning by the SEMTEX design group. It is often a great help to the busy architect or builder to know the Semtex company can be relied upon to design floors just as competently as they lay them. Whether requirements call for an original scheme or for a floor plan to harmonize with an existing interior, Semtex artists and designers are at your service.

SEMTEX INTERNATIONAL FLOORING SERVICE



SEMTEX LTD., a Dunlop Company SEMTEX HOUSE, THE BROADWAY, WELSH HARP, LONDON, N.W.9.

VULCAN EMULSION PAINT

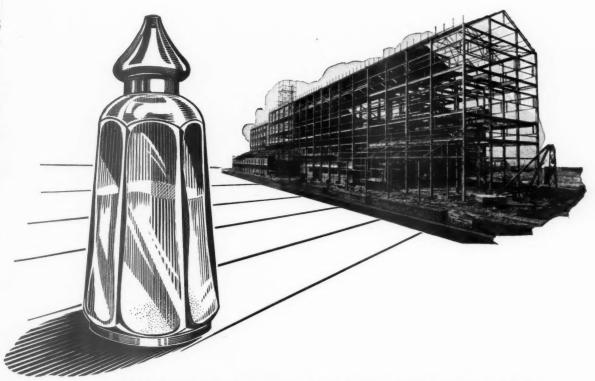
VULCAN PRODUCTS LIMITED

Specialist Paint Manufacturers. London and Slough





BIG BUSINESS NEEDS BIG BUILDINGS



STEELWORK for SALT

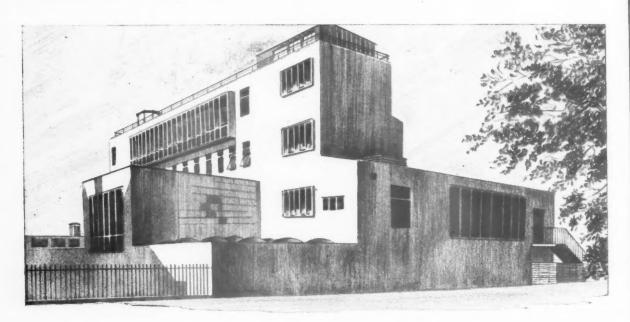
The use of salt goes back to the dawn of human history and its refinement and manufacture today is on a scale necessitating buildings such as this factory at Stoke Prior built for I.C.I. Ltd., Salt Division, by



CONSTRUCTIONAL ENGINEERS

Registered Office and Works: MANCHESTER 17. Telephone: TRAfford Park 2341 (10 lines)
London Office: 68 Victoria St., S.W.I. Tel: Victoria 1331/2 Technical Offices: BIRMINGHAM, LOUGHBOROUGH

dm WD. 33



REVOLVING DOORS BY

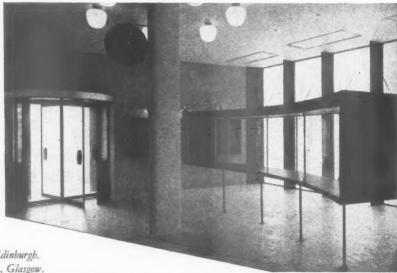
WILLIAM NEWMAN & SONS LTD. BIRMINGHAM, 19.



The revolving doors in the entrance hall of the new

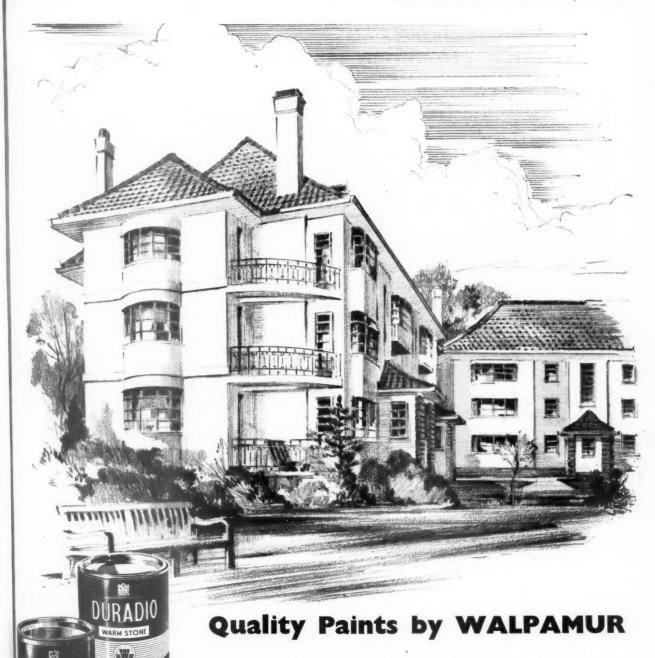
Research Building at Glasgow University were manufactured
by William Newman & Sons Ltd. makers of window
opening gear, fire station door gear, and the famous 'Briton'
door closer.





TH

Architects:—Basil Spence & Partners, Edinburgh.
Contractors:—John Cochrane & Co. Ltd., Glasgow.



set the consistently high standard by which others are judged. They include Duradio Enamel Paint, a durable high gloss finish, Muromatte Flat Oil Paint, a smooth and readily washable matt finish and Walpamur Water Paint, the most popular of flat finishes. There are paints, enamels and varnishes in the Walpamur range to meet every need.



BY APPOINTMENT

AINT AND WATER PAINT MANUFACTURERS TO THE LATE KING GEORGE VI

THE WALPAMUR CO LTD . DARWEN & LONDON



The world renowned thermal insulation of Celotex is now combined with the fire resistance of asbestos to form Celotex Fire Resistant Insulating Board. It's a core of tough, durable Celotex cane fibre insulation sheathed on both sides with asbestos felt, which, if required, can be easily decorated.

Celotex F.R.I. Board is available at a really economical price and is just as easy to use as ordinary Celotex insulation. It's *the* choice for wall, roof and ceiling linings, and for partitions everywhere.

Core of cane fibre insulation

SE

Fo

W

Se

fin

sto

- Asbestos sheathed on both sides
- Attractive light-reflecting surface
- Can be easily decorated if required

Write for samples and further details of this Britishmade Celotex product.

ANEW CELOTEX Product

MADE IN GREAT BRITAIN WITH ALL-BRITISH MATERIALS BY
CELOTEX LIMITED, STONEBRIDGE PARK, LONDON, N.W.10. Telephone: ELGar 5717



A tall tale? No!

SECULATE ACTUALLY PREVENTS CONDENSATION

For a substance to prevent condensation by setting up a barrier between the air — no matter how moist - and the surface on which it is applied sounds a bit far-fetched, but it's an established fact. We have proved the case for Seculate time after time, under the most adverse conditions. Seculate is quickly and easily applied by brush or by trowel. It is quick-drying and gives an even finish or it may be stippled to obtain a textured surface. It adheres well to metal, stone, concrete, plaster, cement and wood. It is washable, durable, mould-resistant, fire resisting and will not flake, even under intense vibration. Write to us for literature.

SECULATE ANTI-CONDENSATION COMPOUND

Supplied by BRITISH LEAD MILLS LIMITED

717

BYRON HOUSE, 7-8-9, ST. JAMES'S STREET, LONDON, S.W.I. WORKS: WELWYN GARDEN CITY, HERTS. ALSO WARRINGTON, LANCS.

CRC ISC

A distinctive new design in the modern manner

the Platesw

Styled for the homes of today, the new MK PLATESWITCH speaks discreetly of quality. The distinction of its appearance is confirmed in every detail of its construction and finish.

The PLATES WITCH has been specifically designed for installations where the claims of trouble-free service and low cost must be reconciled. Leaflet 227 describes the range in detail, and your name and address written across this page will bring you a copy by return.

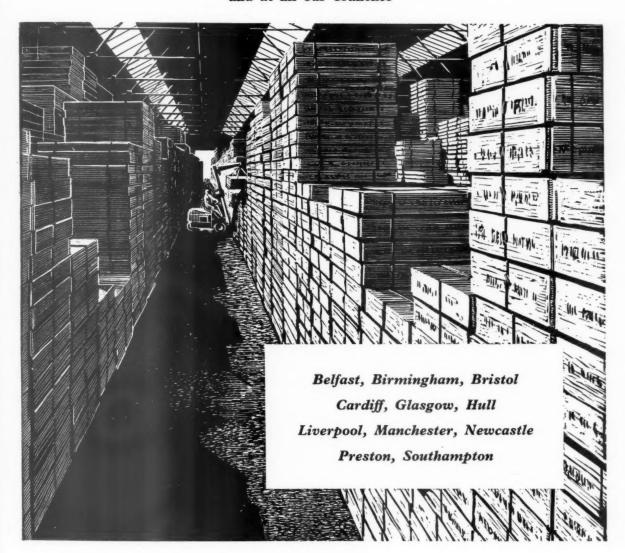
the Plateswitch fits into the background of modern decoration the compact 2-gang unit has the same dimensions as the 1-gang



M. K. Electric Limited, Wakefield Street, Edmonton, London, N.18. Edmonton 5151

Plywood and Wallboards

We maintain comprehensive stocks in London and at all our branches



Denny Mott & Dickson Limited

Importers and Stockists of Hardwoods, Softwoods, Plywood and Wallboards

ADELAIDE HOUSE, KING WILLIAM STREET, LONDON, E.C.4

Telephone: Mansion House 7961

INTRODUCTION TO THE



TWIN CABLE GEAR

WORLD PATENTS PENDING

told

out a

and to la in f fung

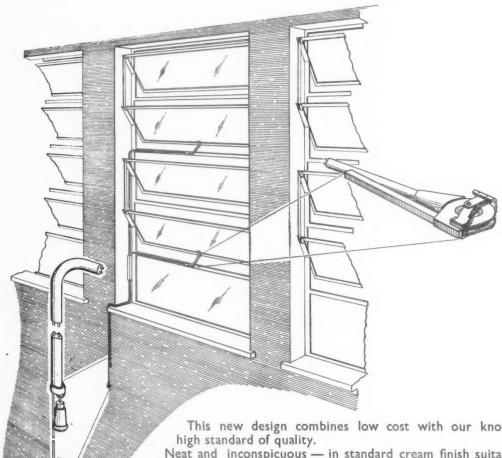
silie

with pub

up day

HE CA

are presenting this new product which is now available



This new design combines low cost with our known

Neat and inconspicuous — in standard cream finish suitable for painting, if required, to suit particular colour schemescan be concealed beneath plaster if desired. Very simple to install or modify using plastic-covered twin flexible conduit, and standardised fittings. Ease of operation is remarkable.

For further details and prices write or 'phone our Contracts Department.

Sole Manufacturers:

Ser. He

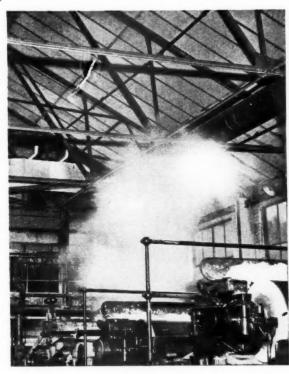
CONTROLS TUNSTALL ROAD · EAST CROYDON ·

Telegrams: UNICONTROL, SOUPHONE, LONDON Telephone: ADDiscombe 3051/4

Australian enquiries to: S. K. SHEPHERD, G.P.O. BOX 1.000-H, MELBOURNE.

the place is full of steam...





told us at Cray Valley Paper Mills—" and dries out again at night. We can't have water dripping off the ceiling on to the machines." The ceiling, in other words, had to stand unlimited absorption and drying-out. It also had to be fire-proof, and to last indefinitely. A clear case for "Asbestolux", in fact. Time, humidity, heat, cold, chemicals, fungi, none of them can affect "Asbestolux", a silica-bonded pure asbestos board, which is made without cement. As for fire-resistance, a recent public test showed "Asbestolux" sheet standing up to a 1800°F flame for 13 days, 10 hours a day, without there being even the first sign of structural failure.

ASBESTOLUX

INCOMBUSTIBLE ASBESTOS INSULATION BOARD

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



HILLS ARISTOCRAT

the decorative flush door with the KREIBORD core ...

An attractive door of outstanding quality and distinction. Hand-finished by expert craftsmen and suitable for polishing, it is available faced with fine French Walnut, European Figured Oak or West African selected Mahogany veneers to your choice. The greatest care is exercised in the selection of these distinctive veneers and they are carefully matched for figure and colour.

The unique KREIBORD core-a new development exclusive to Hills-is a composite wood/resin board produced as a continuous extrusion. It has a high strength/ weight ratio, exceptional stability and excellent insulation properties.



- Solid type KREIBORD core with 100% glueing area
- Provision for lock $20^{"} \times 6^{"}$ situated at centre of closing stile
- Timber Framing 2"
- Weight 47 lbs. approx
- Finished thickness 18"
- Standard Sizes:

6' 6" × 2' 9"

6' 6" × 2' 6"

6' 6" × 2' 3"

6' 6" × 2' 0"

• SUITABLE FOR POLISHING

DECORATIVE VENEERS SPECIALLY SELECTED

H

TH

pip

wa

rac

qu

ecc

UNIQUE KREIBORD CORE OF EXCEPTIONAL STABILITY

TIMBER FRAME OF AMPLE PROPORTIONS

> EXTRA LARGE LOCK BLOCK

MATCHED STRIP TO CLOSING STILE

THREE YEAR GUARANTEE

fast wai

G

Find out more about this quality door by sending for further details and prices NOW!

F. HILLS & SONS LIMITED, Norton Road, STOCKTON-ON-TEES

TELEPHONE 67141 (7 times)

The 100-1000 A25.

FULLY AUTOMATIC BOILER

Hot Water for Domestic Use and Radiators

THE GLOW-WORM A25 Fully Automatic Boiler has a *larger* fuel capacity. On a maximum of TWO FUELLINGS a day it gives 70 sq. ft. of heating pipes and radiators throughout the day and night with minimum variation of temperature and 50 gallons of hot water, or an average of 20 gallons of hot water per hour both day and night, or 82 square feet of heating pipes and radiators, or any combination of the above for special purposes. Where small quantities of hot water are required, the GLOW-WORM A25 burns as economically as the smallest boiler. Water temperature is controlled by a turn of the knob—no dampers to operate.

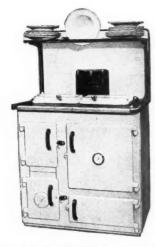




B33 and B22 BOILERS

Waterway encircles fire and gives high output per sq. ft. of heating surface. Bright clean finish, minimum cleaning, B33 has steel water jacket, B22 cast iron. Please send for individual leaflet giving full details of any of these GLOW-WORM solid fuelsaving appliances.

SEE OUR STAND B. 308 B.I.F., Castle Bromwich





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



The MILFORD Oven-over-Fire Combination Grate

For space heating, water heating, cooking: boiling space for five saucepans. Flue cleaning without removing oven.



One economical fire provides heat for large oven, fast-boiling plate with extension hob and hot closet. Ample domestic hot water and controlled room warmth. Overnight burning.



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

London Showrooms: 22-24 BUCKINGHAM PALACE ROAD, S.W.I. Tel. Victoria 7093

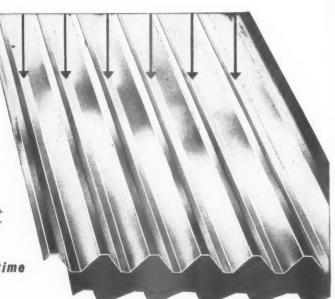
BP

NEW, WIDER, 6-TROUGH

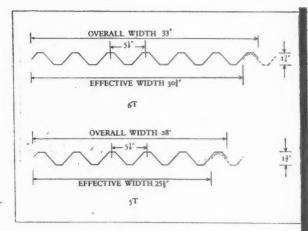
'Rigidal'

corrugated aluminium sheet

Saves handling, lapping and fixing time



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



Purlin spacings and recommended maximum design loads				
Purlin	Design loads (lb./sq. ft.)			
Spacing	18 swg	19 SWg		
6' o"	87	71		
6' 6"	76	61		
7 0	64	52		
7 6"	56	46		
8' o"	49	40		
8' 6"	44	36		
9 0"	40	32		
9' 6"	36	28		
10, 0,	32	25		
10′ 6″	28			

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

o.1% proof stress (yield).

The zigzag line indicates the maximum purlin spacings which may be employed when working to BS Code of Practice CP₃, Chap. V (1952), Para. 6c. Use of purlin spacings below the

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

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

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

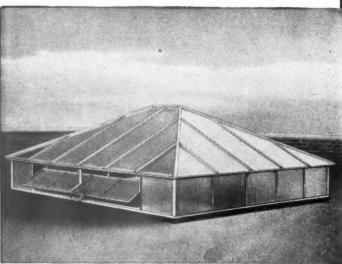


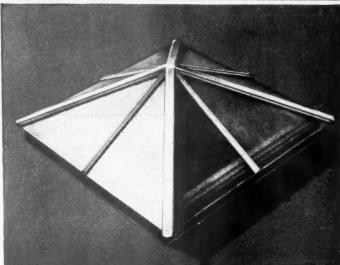
THE BRITISH ALUMINIUM COMPANY LIMITED

NORFOLK HOUSE ST JAMES'S SQUARE LONDON SWI

FOR EASIER BUILDING

WILLIAMS & WILLIAMS

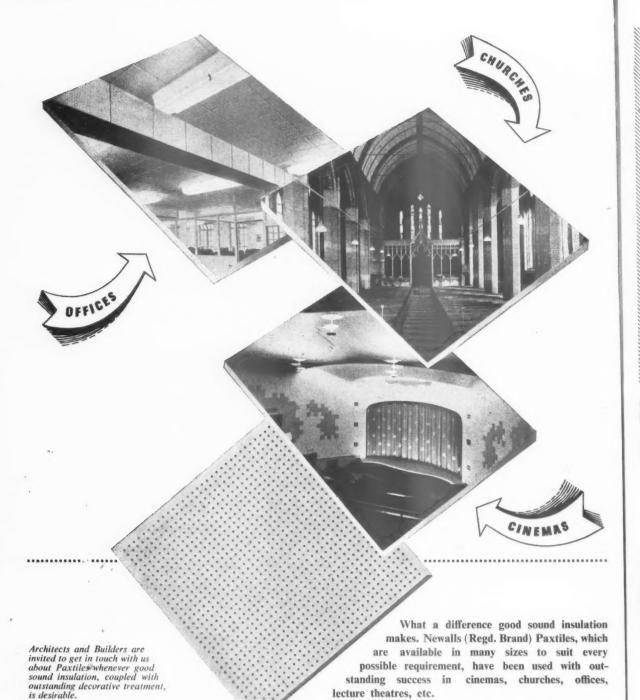




ALUMINEX STANDARD ROOF LIGHTS

It is so easy to erect an Aluminex Standard Roof Light. All the parts are cut and drilled ready to assemble and delivered complete with nuts, bolts and full fixing instructions. The corrosion-proof alloy combines strength with lightness. No putty, no paint is ever required. Condensation channels drain water outside. Lantern and deck lights come in many standard sizes, and can be fitted easily to any foundation, wood, brick or concrete.

Williams and Williams make
Aluminex Patent Glazing, Roften
Toilet Cubicles, Metal Door Frames
and, of course, Metal Windows. You
can get them from your Merchant
or direct from us.
Williams & Williams Ltd.,
Reliance Works, Chester



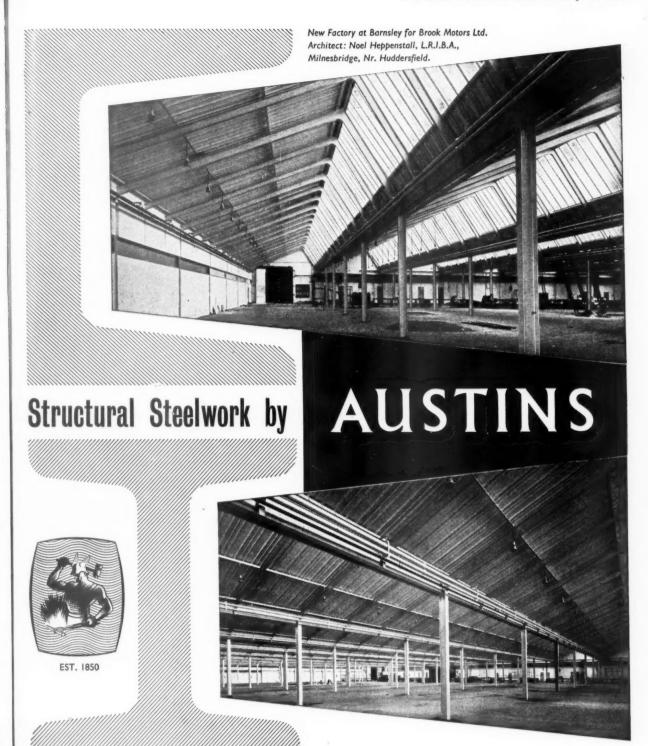
Newalls

PAXTILES

NEWALLS INSULATION CO. LTD. Head Office: WASHINGTON, CO. DURHAM

A member of the turner & newall organisation Offices and Depots at London, Glasgow, Manchester,

NEWCASTLE UPON TYNE, BIRMINGHAM, BELFAST, BRISTOL & CARDIFF. Agents and Vendors in most markets abroad



JAMES AUSTIN & SONS (Dewsbury) LTD

tion hich very

outces,

TER,

proad

THORNHILL IRON & STEEL WORKS • DEWSBURY • YORKSHIRE TELEPHONE: 1750 (7 LINES) • TELEGRAMS: AUSTINS DEWSBURY

Consulting Engineers: J. C. Melliss & Co. Contractors: Bierrum & Partners, Ltd. Painters: Decorative Specialists, W.14.

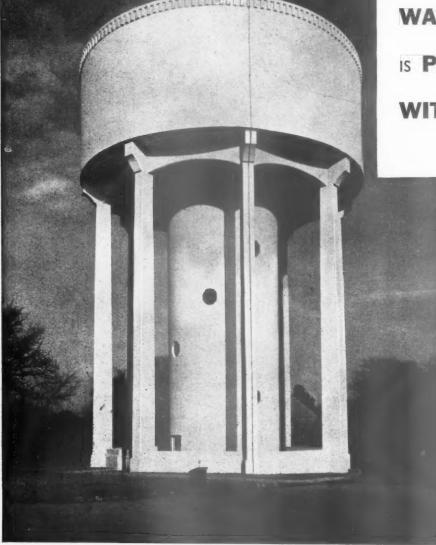
THE EXTERIOR OF THE

NORTH WALSHAM
WATER TOWER
IS PAINTED
WITH STONE

PAN new

DE HAT

Arch



SILEXINE STONE PAINT



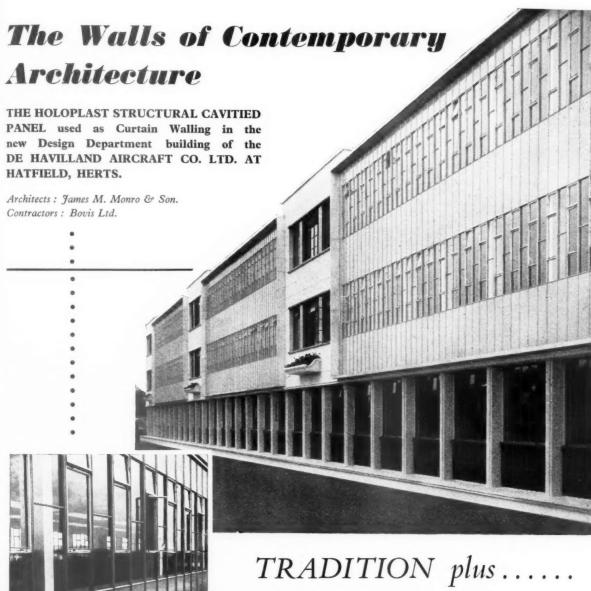
Stone, finely ground, is the basis of Silexine Stone Paint. With Silexine you literally paint with stone—hence its outstanding protective quality. Silexine Stone Paint is supplied in twelve decorative colours, or in special shades to order. It can be applied to concrete, stucco, brick, plaster, asbestos, cement, etc.

SEE OUR EXHIBIT AT THE LONDON BUILDING CENTRE.

SILEXINE PAINTS LIMITED . RICHFORD STREET . LONDON . W.6 Shepherds Bush 4461

Specifications and notes on surface preparation, together with a report on tests carried out by the Building Research Station, are given in a booklet sent free on application. Information regarding other Silexine products, particularly S.P.E.C. (Silexine Plastic Emulsion Coating) a durable satin-like finish for interior walls, is also freely available.





AM

LIGHT WEIGHT · SPEEDY ERECTION

NO ERECTION DELAY FROM FROST

NO SCAFFOLDING REQUIRED

MINIMUM SITE LABOUR AND MAINTENANCE

COMPLETE GLAZED ASSEMBLIES DELIVERED TO SITE

VARIETY OF FINISHES

HOLOPLAST.

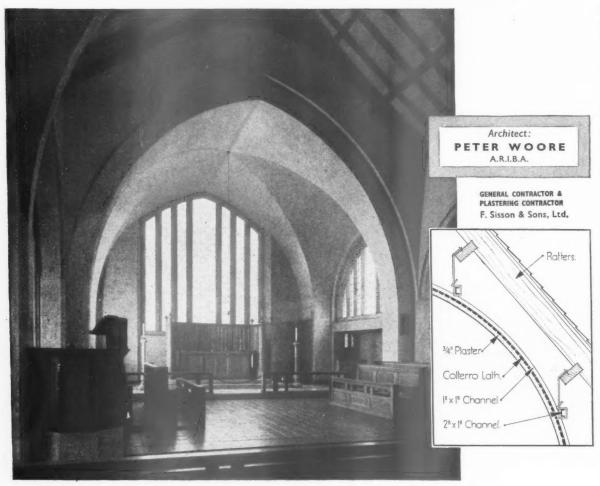
OTHER HOLOPLAST PRODUCTS INCLUDE "DECORPLAST" "CORROPLAST" AND NATURAL BROWN LINING SHEETS HOLOPLAST LIMITED

Sala Office: 1216 VICTORIA STREET, LONDON, S.W.I.

Telephone: VICtoria 9354/7 and 9981

HEAD OFFICE & WORKS: NEW HYTHE, NEAR MAIDSTONE, KENT

ALL SAINTS CHURCH, MARLPOOL



This delightful groined ceiling was suspended from the timber roof members on a grillage of Colt standard channel sections. Varying radii or complicated profiles present no difficulty with COLTERRO Lath. It is flexible and easily formed, allowing the Architect complete freedom of design. The robust wire mesh and positive 'key' of the clay crosses provide the finest base for good plastering.

COLT DESIGN AND FIX CEILINGS, WALLS AND FABRICATED STRUCTURES WITH ...



"it's the KEY that grips the PLASTER"

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

In Tasmania

or Tewkesbury

Construction goes ahead

A well-designed school in the fruit-growing area of

Tasmania . . . a sports pavilion in a Gloucestershire town . . .

wherever expansion is envisaged, new buildings are wanted.



Based on the use of pre-formed units for wall, floor, roof and partitions, Medway systems of construction are extremely flexible, offering considerable scope in planning. Low cost is achieved by advanced designs, improved production methods and reduced site-work expenditure. Prompt delivery of various types in more than 100 sizes anywhere in U.K. or overseas.

THERE ARE MEDWAY TIMBER BUILDINGS

olt

th.

and

1-5

of many types and sizes to meet your particular requirements

Let us provide a suggested design-

MEDWAY TIMBER BUILDINGS

MEDWAY BUILDINGS AND SUPPLIES LTD
3 Phoenix Wharf, Rochester, Kent Telephone: Strood 7521



THE

Chartered Architects : James M. Monro & Son

Ventilating Plant

providing air input and extraction to all main floors, lavatory blocks, high and low tension switchgear rooms, etc., of the new DESIGN BLOCK for

de Havilland

was supplied and installed by

TRAFALGAR HOUSE · GT. NEWPORT ST · LONDON · W C 2 Telephone: Temple Bar 5124, 5154, 5174

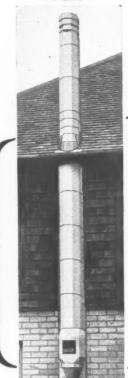
Brooks' FAN POWERED Roof Extract Units

have also been supplied for the latest

de Havilland

factories at Leavesden Hatfield Stevenage Lostock and Farnworth

PATENTED PRECAST EXTERNAL FLUE

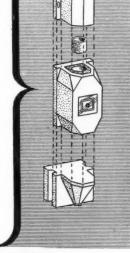


Outstanding problem solved!

This is an economical and efficient Boiler Flue of pleasing appearance which can be bolted quite simply to an external wall. Each section is easily handled and no elaborate scaffolding is required.

The Flue has a refractory lining and is well insulated to overcome the condensation troubles so often experienced with asbestos or iron flue pipes and can be erected at a fraction of the cost of a brick

Although this is one of our most recent developments we have already supplied approaching 2,000 of these flues to various local Authorities and Contractors.



Write for illustrated booklet and price list to the address at the foot of this page.

Also (TRUE FLUE TRIPLE UNI Comprising PRESTRICTED THROAT PAGATHER-OVER

This THREE-FOLD labour saving and efficient device is made of heat resisting refractory concrete and forms a stream-lined connection between the fire and the flue.

- The Restricted Throat is scientifically designed to ensure maximum heat retention and economy in fuel.
- 2 This unit eliminates the labour involved in forming the Gather-Over in brickwork above the fireplace opening. When placed in position over the fire-back it forms a base for TRUE-FLUE circular rebated linings or for the 9in, by 9in, parged flue as shown.
- 3 The Lintol has a weir-shaped front and is of sufficient width to afford adequate seating on jambs with all normal fireplace openings. The face of the Lintol is recessed to provide an insulation space at the back of the fireplace surround.

FOR MANY YEARS these TRUE-FLUE TRIPLE UNITS have been increasingly specified by numerous local Authorities and Architects. They were employed in the tests carried out by the Ministry of Fuel and Power on a large range of heating appliances and are also specified by the Ministry of Works, Metropolitan Police, British Railways and London County Council. During the past four years we have supplied approximately 15,000 complete flues to the latter Council alone.



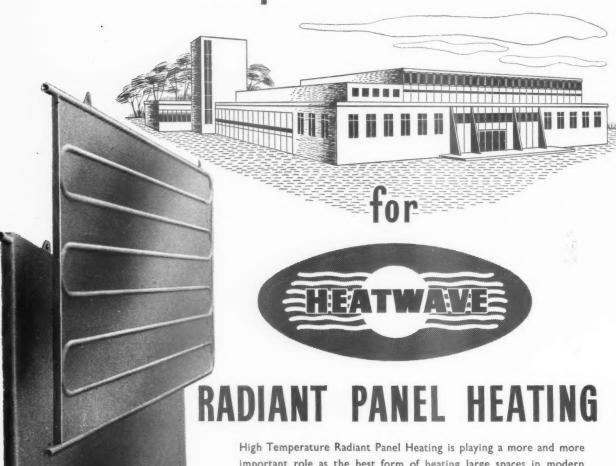
2

REMEMBER—We are specialists in all matters relating to flues and can give you the benefit of nearly half a century's experience. We shall be pleased to design your stack in TRUE-FLUE construction (with or without convector heating), free of all cost to yourselves.

For further information please apply to:-

LTD., CONVECTOR HOUSE, ACACIA ROAD, ST. JOHN'S WOOD, N.W. 8. PRIMROSE

Just the place



High Temperature Radiant Panel Heating is playing a more and more important role as the best form of heating large spaces in modern buildings — whether they be Factories, Military or Commercial Establishments, etc. "HEATWAVE" Radiant Panel Heating provides exactly the right answer for Architects and Heating Engineers who are looking for the most efficient, practical and economical method, because:—

- Maximum comfort conditions are obtained with an air temperature several degrees lower than is possible with convective systems.
- Less heat is put into the air resulting in a considerable saving of fuel.
- Convective air currents are greatly reduced, cutting down the number of air changes, giving further savings in fuel.
- The temperature gradient is reduced, cutting down heat losses from the roof.

Many more "HEATWAYE" advantages will be found in our comprehensive Brochure, post-free on request.

W. G. ALLEN & SONS (TIPTON) LTD.

P.O. BOX 4 . TIPTON · STAFFS.









NEW FACTORY BUILDING FOR MESSRS. RICHARDS & ROSS LTD. WEDNESFIELD, STAFFS.



Comprising Two Bays each 80 feet span, 585 feet long. Total Weight of Steelwork used 728 TONS.



STEELWORK Designed · Fabricated · Erected by

RUBERY, OWEN & Co. LTD.

DARLASTON, SOUTH STAFFS.

Tele: Darlaston 130

Member of the Owen Organisation



Make 'Mouldex'

PLASTIC (VINYL) FLOORING . RUBBER FLOORING

the keystone

OF YOUR SPECIFICATIONS

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

'Mouldex' Hard Rubber Flooring (American Type)

'Mouldex' Rubber & Marble Terrazzo Flooring

'Durever' (Vinyl) Flooring 'Riltex' (Vinyl) Flooring

'Mouldex' Anti-Static (Vinyl) Flooring

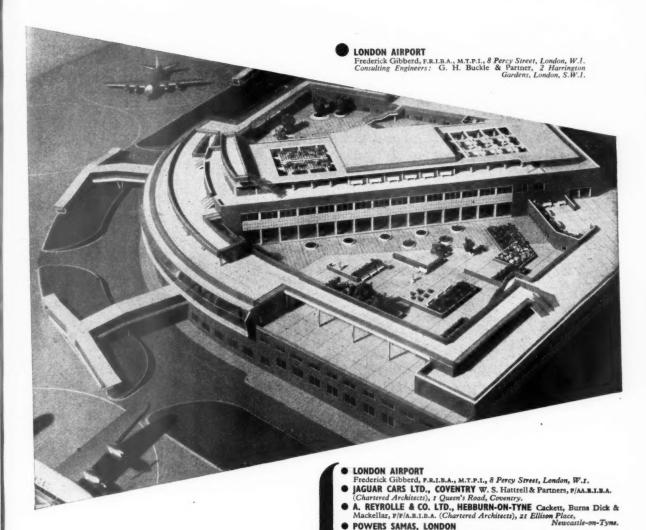
'Mouldex' Rubber Stairnosings

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

British Mouldex Ltd

THE MANUFACTURERS AND CONTRACTORS

HYTHE ROAD WILLESDEN NW10 · LADBROKE 2454



FRENGER

 ALUMINIUM LABORATORIES, BANBURY Sir Percy Thomas & Son, PP/A.R.I.B.A. (Architects), 10 Cathedral Road, Cardiff. SIT FETCY INDIMS & Son, PYA.R.I.B.A. (Architects), 10 Catheard Roda, Caraly.

LEWIS'S LTD., LIVERPOOL G. de C. Fraser, Son & Gearey, A/A.R.I.B.A. (Chartered Architects), 27 Dale Street, Liverpool.

NATIONAL BANK OF AUSTRALASIA Gordon & Gordon, P.R.I.B.A. (Architects and Surveyors), Finsbury House, Blomfield Street, London, E.C.2.

WILLERBY & CO. LTD., DERBY
C. J. Epril, P.R.I.B.A. and Associates, 55 Pall Mall, London, S.W. S.

DE HAVILLAND, AUSTRALE CO. (Control of the Control of t

Michael Barnett, Esq., A.R.I.B.A., 329 High Holborn, London, W.C.I.

C. A. PARSONS LTD., NEWCASTLE
Parsons Research & Design Division.

DE HAVILLAND AIRCRAFT CO. James M. Monroe & Son, A.R.I.B.A. (Chartered Architects), 6 Spring Gardens, London, S.W.I.

LONDON SESSIONS HOUSE (Architect to the Council, J. L. Martin, M.A., PH.D., F.R.I.B.A.), with W. S. Durnford, F.R.I.B.A., Senior Architect, General Division, and R. J. Dickson, M.I.H.V.E., Heating and Ventilating Engineer.

ATLAS ASSURANCE CO. LTD. Waterhouse & Ripley, PP/F.R.L.B.A.,
Staple Inn Buildings, High Holborn, London, W.C.I.

DUAL PURPOSE BUILDINGS

Northern Ireland Hospitals Authority.

A. C. WICKMAN LTD., COVENTRY W. S. Hattrell & Partners, F/AA.R.I.B.A. (Chartered Architects), 1 Queen's Road, Coventry.

ARMAGH GIRLS' HIGH SCHOOL

• ST. BEES SCHOOL, CUMBERLAND

Johnston & Wright, L./A./A.R.I.B.A. (Chartered Architects), 13 Castle St. Carlisle BRITISH ALUMINIUM CO. LTD. (Research Laboratories, Chalfont Park)
Architectural Dept., Norfolk House, St. James's Square, London, S.W.1.

JOHN LAING & SON, CARLISLE

Sydney Greenwood, A.R.I.B.A. (Architect), Bunns Lane, London, N.W.7.

PATHOLOGICAL LABORATORY, BOLTON
Frank Bradley, A.R.I.B.A. (Chartered Architect), 4 Wood Street, Bolton.



es a

S.

ill

ry.

IS

54

FRENGER CEILINGS LTD 67 GREAT RUSSELL STREET, W.C. & Chancery \$534



Handmade Roof Tiles last longest

All C.S. Rcof Tiles are hand-moulded from the renowned Bridgwater clay. – This is one reason for their proved durability. Definitely, C.S. hand-moulded tiles do not deteriorate. One popular pattern is the "Bambino" Interlocking Tile. As can be seen from the illustration this tile is of simple, yet dignified design. Admirable for exposed positions because of the security given by the efficient interlock. This tile is in great demand for Housing schemes.

In our list we show the various types of C.S. Handmade Roof Tiles. All can be supplied with smooth, sandfaced or colour glaze finish. Write for this list.



SIZE 13\in. by 10\in.

COLTHURST-SYMONS & Co. Ltd.

PATENT TILE WORKS, BRIDGWATER, SOMERSET

London Office: Mr. Dawson Goodey, 6 Queen Anne's Gate, Westminster, S.W.1.

Phone: Bridgwater 2226/7
Phone: WHItehall 7607

THERE'S A KING DOOR SET FOR EVERY NEED

For 'around-the-corner' doors
IT'S KING 'MAJOR' TRACK

This is the ideal fitting for installations requiring 'around-the-corner' doors, and it can be specified with complete confidence. KING 'Major' track is of an exclusive design and is supported by strong malleable iron brackets; trolley hangers are fitted with precision roller bearings

and Tecalemit grease nipples; hinges are attractively designed, precision-made aluminium die castings. In fact all features are included with one aim—to give years of smooth trouble-free operation.

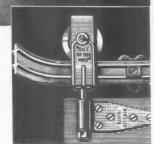
Write for further details.





COVERED BY BRITISH PATENTS

PLEASE WRITE FOR ILLUSTRATED BOOKLETS



KINGS STRENGTHEN
YOUR HAND

GEO. W. KING LTD., 201 ARGYLE WORKS, STEVENAGE, HERTS. TELEPHONE: STEVENAGE 440

NORAL Industrial Sheet gives you all these advantages

CUTS MAINTENANCE COSTS

Noral Industrial Sheet has a very much longer life than most of the alternative materials. It needs no painting and so saves maintenance. Other costs are cut through cheaper transport and erection, ease of repair if the need arises, and a high scrap value should the building ever be structurally altered or demolished. On large structures particularly, these savings can be very substantial.

GREAT DURABILITY

Noral Industrial Sheet is generally used unpainted. It has a high resistance to corrosive attack, particularly by sea air, and by most industrial fumes.

DESIGNED FOR STRENGTH

Maintenance parties can walk on Noral Industrial Sheet in perfect safety, even when supporting purlins are spaced 9' apart—because the profile is specially designed for strength. Not the least liable to damage in handling during erection, or from frost.

LIGHTNESS

The weight of a laid square in 20 S.W.G. material can be as low as 75 lb. This means lower transport charges, faster erection and lower deadweight.

REFLECTS RADIANT HEAT

The bright metal surface forms a barrier to radiant heat, so temperature remains equable inside buildings roofed with Noral Sheet.

NON-INFLAMMABLE

The metal needs no protective coating that might support combustion.

RANGE OF SIZES

5,6 or 7 whole pitches $(26\frac{3}{4}",31\frac{3}{4}", \text{ or } 36\frac{3}{4}"$ wide overall). Standard sheet thickness 20 and 22 S.W.G. In Standard lengths, 6,7,8,9,10,11,12 ft. Other lengths from 4-12 ft. subject to special enquiry.

Write today for a free copy of our booklet "Noral Corrugated Sheets" to Sales Development Division, Northern Aluminium Company, Banbury, Oxon.



COMPANY LIMITED

SALES DEVELOPMENT DIVISION: BANBURY, OXON. SALES OFFICES: LONDON, BIRMINGHAM, MANCHESTER, BRISTOL, NEWCASTLE UPON TYNE, LEEDS.

An ALUMINIUM LIMITED Company



ACCREDITED
ROOFING AGENTS

INDUSTRIAL ENGINEERING LTD., MELLIER HOUSE, ALBEMARLE STREET, LONDON, W.I • JOHN BLAND & CO. LTD., EAST MOORS, CARDIFF • THE BODDY ROOFING CO. LTD., 31 ESSEX ROAD, LONDON, N.I W. H. HEYWOOD & CO. LTD., BAYHALL WORKS, HUDDERSFIELD • MANCHESTER SLATE CO. LTD., LANCASTER ROAD, DIDSBURY, MANCHESTER, 20.

Theory and Practice

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

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

S.E.P.
PLASTIC EMULSION PAINT

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

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

THOMAS SMITH & SON LIMITED

Makers of Fine Paints since the year 1790.

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



GLASGOW · LONDON · BELFAST



Ideal for industrial roofs with large expanses of glazing and valley gutter construction, Thermacoust has the following advantages:



- No purlins are needed with spans up to 7 feet
- Easily cut and worked, saving time and roofing materials
- An attractive surface allows it to be exposed as a ceiling without loss of insulating efficiency
- Fire resisting and classed Grade 1 in test for rate of flame spread

Thermacoust 2" channel reinforced ROOFING SLAB

We invite you to write for information Sheet N.S.3. Our advisory service will be pleased to assist you in finding economical ways of using Thermacoust roofing

Thermacoust Limited

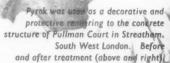
39 Victoria Street, London, S.W.I. Telephone: ABBey 2738

@ 271/11A.

both a material and a process

PYROK is the modern method of surfacing







Pyrok is applied by spraying in one continuous operation giving a finished, rapid setting surface of required thickness, colour and texture. Its remarkable setting speed can be accelerated to fit a given time limit. It can be applied directly to structural steelwork, concrete, stone, brick and fibreboard and subsequently sawn or cut without cracking or spalling. Pyrok simplifies building and is unique as a technical means to carry out building repairs



BRITISH & FOREIGN PATENTS

Contracts for the application of PYROK are undertaken by Licensees in all parts of the U.K. and in countries coersed Please address enquiries to

PYROK LIMITED

Pyrot is strongly adhesive, chemically inert and possesses remarkable, anti-condensation, insulating, acoustic and fire-resisting properties. It is suitable for both internal and external use. We invite you to write for further information

FED 401-404 Montrose Avenue Trading Estate Slough Bucks telephone: SLOUGH 24061-5 telegrams: PYROKAD SLOUGH

S 280,15



A NEW VENETIAN BLIND-by CRITTALL

The new Crittall Venetian Blind is designed to leave the rudimentary principle of cord operation far behind — together with its snags and hazards. The Crittall 'Solomatic' provides what has been needed for so long as a complement to contemporary design—a means of excluding sun glare without excluding much light and slats which will not rot or reduce ventilation.

Crittall's long experience in windows has made the blind suitable for 'designing in' for neatness and efficiency so that it belongs to the window it embellishes — and is not just added afterwards. With suitable provision it can be fitted externally or out of vertical. If required, two or three adjacent blinds may be operated by one gear control. Full particulars will be sent on request to the nearest Crittall Branch.

Other outstanding points of interest are:

- 1 NO CORDS TO DANGLE, TANGLE OR WEAR
- 2 ONE SINGLE CONTROL (Single strap, double strap or gear) tilts the slats as well as raising or lowering the blind.
- 3 UNEVEN LOWERING IMPOSSIBLE
- 4 ROBUST ALL-METAL MECHANISM assures long life.
- 5 MADE IN ALL SIZES up to 16' o" wide and 20' o" high. No loss of mechanical efficiency in the larger sizes.
- 4 SLATS Light aluminium slats with a plasticised enamel finish in the usual alternative shades.
- 7 LADDER TAPE A double-cross web prevents "flutter".
 - (a) Continuous vertical guide channels prevent swaying.
 - (b) Pressed steel cover-plates (pelmets) lend a finished appearance to the raised blind. Note—Both are stove enamelled to match the slats.
- (c) Fixing by our experienced staff all over the country.

CRITTALL SOLOMATIC VENETIAN BLINDS

THE CRITTALL MANUFACTURING CO. LTD . BRAINTREE . ESSEX . Factories and Depots throughout the country

"When it comes to PROFILES...



corrugated 'Perspex' has *all* the answers!"

Corrugated 'Perspex' is made in profiles to match almost every available corrugated roofing material in metal or asbestos. And in some profiles there is curved corrugated 'PERSPEX' too—for curved or flat roofs. So if you are thinking of letting in a ray of sunshine, there is almost certainly a corrugated 'PERSPEX' profile to meet your needs.

fit corrugated

*PERSPEX9

and give Daylight a chance

Perspex' is the registered trade mark of the acrylic sheet manufactured by I.C.I.



IMPERIAL CHEMICAL INDUSTRIES LIMITED, LONDON, S.W.1

TYPE SIS YPE 133 **TYPE 535** TYPE (53 **TYPE 260 TYPE 567 TYPE 272 TYPE 588** TYPE 686 TYPE 28 **TYPE 309** CURVED TYPE 567 TYPE 399 **TYPE 505 TYPE 562 T** TYPE 564 T

TENTEST

now introduce -

2 Tempeted Hardboard

"MASONITE PRESDWOOD"

"MASONITE PRESDWOOD" is stocked by us and can be supplied in any quantity.

As an Empire product it is quota free and bulk orders can be accepted for immediate shipment.

STANDARD BOARD — $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " and $\frac{5}{16}$ " thick

TEMPERED BOARD — $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{1}{2}$ " thick

"MASONITE PRESDWOOD" does not distort or buckle if fixed in accordance with our fixing instructions and the matt surface is specially provided to give a key for all decorative finishes.

Sole Agents and Concessionaires:

TENTEST FIBRE BOARD CO. LTD., 75 CRESCENT WEST, HADLEY WOOD, BARNET, HERTS.

Telephone: BARnet 9191 (5 lines)

Telegrams: Fiboard, Norphone, London



Our Fixing Department will be pleased to quote for supplying and fixing all types of linings, including acoustic materials.

FLOORING for Heavy Duty

Heavy trucks, impact, extremes of temperature and corrosive liquors exact a heavy toll from industrial floors. Where such conditions exist, Engineering Bricks provide the answer.

Durable in the extreme, of low porosity and resistant to acids and alkalis—

CLAY ENGINEERING BRICKS to B.S. 1301

ensure prolonged service at low cost. They withstand very severe treatment, but in the event of damage the individual units may be replaced speedily and without dislocating work in the building.

CLASS OF BRICK	MINIMUM AVERAGE STRENGTH LB. / SQ. IN.	MAXIMUM AVERAGE WATER ABSORPTION 0/ BY WEIGHT 0/ 5 HOURS BOILING TEST)
A B	10,000	4·5 7·0

Please ask for Booklet, post free on application to Norman J. Wigley, F.C.A., Secretary, British Engineering Brick Association, 55, Temple Row, Birmingham, 2. (Telephone: Midland 6818/9.)





For information regarding supplies, please communicate direct with the following manufacturers:—

Accrington Brick & Tile Co., Ltd., Accrington Lancs.

ALDRIDGE BRICK, TILE & COAL Co., Ltd., Aldridge, nr. Walsall, Staffs.

BARNETT & BEDDOWS Ltd., Atlas Blue Brick Works, Aldridge, nr. Walsall, Staffs.

THOMAS BAYLEY (GREAT BRIDGE) LTD., Bagnall Street, Great Bridge, Tipton, Staffs.

CATTYBROOK BRICK Co., LTD., 37, Queen Square, Bristol, 1, Glos.

Empire Brick & Tile Co., Ltd., Walsall Wood, nr. Walsall, Staffs.

Walsall, Staffs.

HADLEY BROS. & TAYLOR LTD., Canal Brickworks,
Great Bridge, Tipton, Staffs.

HATHERNWARE LTD., Loughborough, Leics. and Tamworth, Staffs.

HAUNCHWOOD BRICK & TILE Co., LTD., Stockingford, Nuneaton, Warwicks.

HIMLEY BRICK Co., LTD., Kingswinford, Brierley Hill, Staffs.

JOBERNS LTD., Walsali Wood, nr. Walsall, Staffs.

CC

Char. F.

Math L.

7. H.

Eber

Had İ

P. S

Regi

Har

Will Orn Har

The Price

Rea

Spe

Rop

No

J.

C.

E.

R.

KETLEY BRICK Co., LTD., Brierley Hill, Staffs.

KINGSBURY BRICK & TILE WORKS (Baggeridge Brick Co., Ltd.), Tamworth, Staffs.

G. W. Lewis' TILERIES LTD., Stockingford, Nuneaton, Warwicks.

Mobberley & Perry Ltd., Stourbridge, Worcs.

J. W. D. Pratt, Ltd., Newbury Lane, Oldbury, Worcs.

REGIS BRICK Co., LTD., Blackheath, Staffs.
STANLEY BROS., LTD., Nuneaton, Warwicks.
STONEWARE LTD., Dosthill, nr. Tamworth, Staffs.

Sussex & Dorking United Brick Companies Ltd., 14, Market Square, Horsham, Sussex.

Titford Brick Co., Ltd., Blackheath, Staffs.

Wilnecote Brick Co., Wilnecote, nr. Tamworth, Staffs.

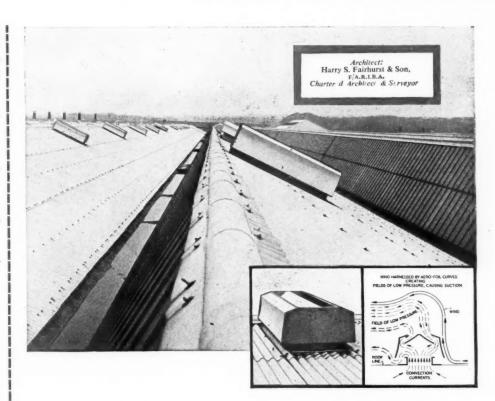
xlvi

SOME OF THE **ARCHITECTS WHO** HAVE SPECIFIED **COLT VENTILATION**

Charles B. Pearson & Son, F.R.I.B.A.

James Taylor, F.R.I.B.A. Matkin & Hawkins, L./F.R.I.B.A., F.R.I.C.S.

- S. W. Milburn & Partners, M.B.E., M.C., T.D., A.R.I.B.A.
- J. H. Napper, M.A. F.R.I.B.A., A.M.T.P.I.
- A. Page, Son & Hill, F. A.R.I.B.A.
- W. J. Morley & Son, F.R.I.B.A.
- Thomas W. East, F.R.I.B.A. Derby Borough Architect.
- Eberlin & Darbyshire, F. F.R.I.B.A.
- Hadfield, Cawkwell & Davidson, F./A.R.I.B.A.
- P. S. B. Nicolle. L.R.I.B.A. Reginald W. Lone,
- F.R.I.B.A.
- Edward D. Mills, F.R.I.B.A., F.R.S.A.



LTD. LEYLAND MOTORS

Harold W. Moore, F.R.I.B.A. William Mollison,

F.R.I.B.A. Orman & Partners, F. A.R.I.B.A.

Harold Pittaway, A.R.I.B.A. Ivan F. Roberts, A.R.I.B.A. W. H. Saunders & Son,

F./L.R.I.B.A. Dudley C. March, L.R.I.B.A.

Thomson, McCrea & Sanders, F./A.R.I.B.A.

Priestman & Lazenby, A./A.R.I.B.A.

Reavell & Cahill, F. F. A.R.I.B.A. Spence & Price,

idge

Jun-

ury.

ffs.

TD.,

orth,

A./A.R.I.B.A. Roper Spencer & Hall, F. A.I.A.A.

Norval R. Paxton, M.C., F.R.I.B.A.

- Mansell Jenkinson & Son, F. A.R.I.B.A.
- A. Pilkington, L.R.I.B.A. Nottingham City Architect.
- E. W. Roberts, F.R.I.B.A. Nottinghamshire County Architect.
- R. Scrivener & Sons. A.R.I.B.A.
- C. H. Simmons, A.R.I.B.A.

. . . one of over 7,000 major industrial organisations

with natural ventilation by

In considering the ventilation of the giant new factory for Leyland Motors the Architect required a system of air extraction which would not only provide good distribution of ventilation, but would also be maintenance free, fully rain-proof and would not detract from the appearance of the building.

The COLT SRC/3080 Natural Controllable High Duty Roof Extractor Ventilator was selected as it adequately filled all of these requirements and 160 of these ventilators were subsequently

COLTS wide experience in the ventilation of all types of buildings both new and existing is at your disposal. Why not take advantage of it?

FREE MANUAL, with full specifications of the wide range of Colt Ventilators is available on request from Dept. A34 179



COLT

THE SPECIALISTS IN PLANNED NATURAL

VENTILATION

COLT VENTILATION LTD . SURBITON . SURREY . TELEPHONE: ELMbridge 6511-5 Also at Birmingham, Bradford, Bridgend (Glam.), Bristol, Dublin, Edinburgh, Liverpool, London, Manchester, Newcastle-upon-Tyne,
Sheffield and Warwick.



BARTREV

The only chipboard of unlimited length saves work, time and money

Wherever you now use plywood or blockboard, BARTREV will do the job better and cost you less. BARTREV is the finest British chipboard; furthermore, it costs less than any comparable material and it cuts working costs.

You start to save as soon as you decide to use BARTREV. It is very

strong and light. And because it is produced in a continuous strip, it can be cut to the exact length you require. That's how BARTREV saves labour, saves time, saves you money again!

BARTREV is easy to work, easy to handle, and has a smooth surface and uniform density. Use BARTREV for

partitions, pre-fabricated buildings, linings, ceilings, doors, furniture and fitted furnishings. Use it unfaced or veneered. Use it for exhibition stands, shop and restaurant fittings. 1 St

However you employ BARTREV—in its many uses—BARTREV must save you money.

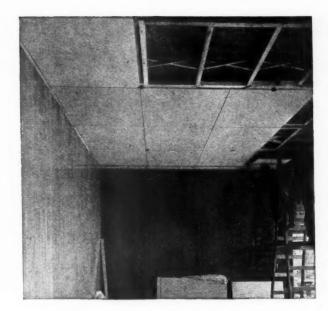
For fittings & structure

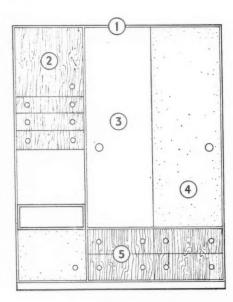
Details:

- BARTREV is an excellent core material for veneers.
- It is supplied 4 ft. wide and in any length.
- BARTREV is strong and light.
- It is not subject to wood's inherent variations.
- It can be sawn, drilled, nailed and glued, just like wood.

Available in the following thicknesses:

- 1 Standard joints can be recommended for BARTREV.
- 2 BARTREV should be sanded before veneering—just like natural wood.
- **3** BARTREV easily supports screwed-on heavy materials such as mirrors.
- 4 Unfaced BARTREV has a smooth, attractive appearance.
- 5 BARTREV is tough—stands up to rough handling.







BARTREV

The only chipboard of unlimited length saves work, time and money

The following are the distributors, any one of whom can supply BARTREV to any part of the U.K.

The British Plaster Board

igs,

or

ids,

its

you

(Manufacturing) Ltd. Wallasey — London

Wm. Evans & Co. (Distributors) Ltd. 52 Stanley Street, Liverpool, 1. Tel: Central 5171 Merchant Trading Co. Ltd.

Effingham House, Arundel Street, Strand, W.C.2. Tel: Temple Bar 5303

The Metal Agencies Co. Ltd.

Avon Works, Winterstoke Road, Bristol, 3.

Montague L. Meyer Ltd.

14 Buckingham Street, Adelphi, W.C.2. Tel: Trafalgar 7766

L. P. Thomas Co. Ltd.

12 Dixon Street, Glasgow, C.1. Tel: Central 6092-3 THE ARCHITECTS' JOURNAL for July 29, 1954

thought you'd look at this -but try

THE ENGRAVERS GUILD LTD

MAKERS OF PRINTING BLOCKS

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







New Factory at Crawley, Sussex, for A.P.V. Co., Ltd., designed by W. S. Atkins & Partners, London and roofed with Briggs Bitumetal, The Modern Development in Aluminium.

Koofs need no longer be laid in dull drab uninteresting finishes. Briggs Mineral Surfaced Roofings provide a range of attractive colours, each colour permanent and unfading, obtained from crushed natural minerals unaffected by time and weather.

This large modern factory, where roofing security is an important factor, is covered with a cap sheet of Green Mineral which harmonises pleasantly with surroundings.

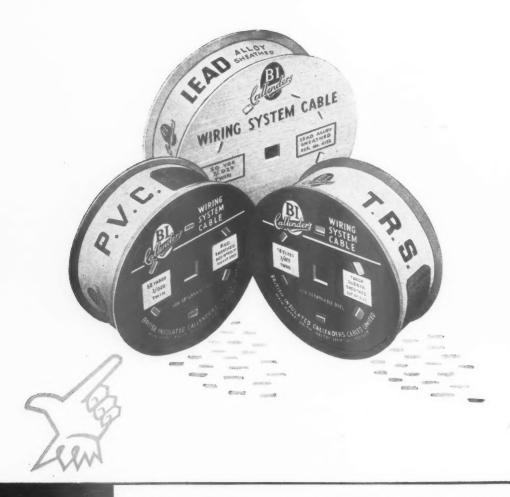
Ask our nearest Area Manager for the latest technical details of Mineral Surfaced Roofings, adaptable for laying on any deck.



WILLIAM BRIGGS & SONS LTD

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

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



BICC

WIRING SYSTEM CABLES

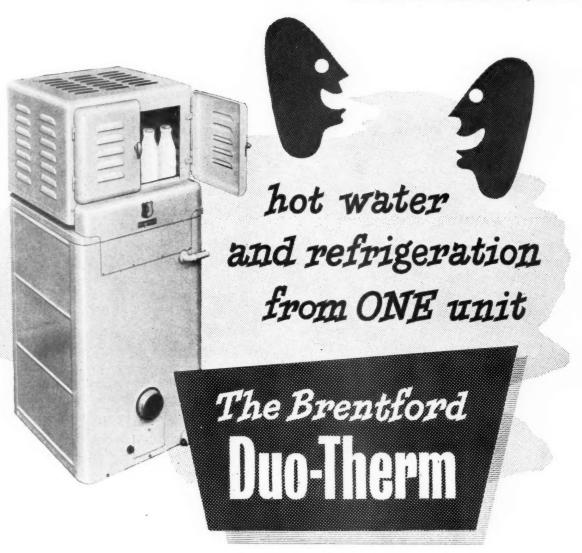
Each BICC cable has its own special application, and, used with the appropriate BICC fittings, provides the most effective wiring system for all conditions in factories, offices, homes and farms.

Write to-day for further information contained in these Publications: No. 233 (Farm Wiring System); No. 323 (Industrial Wiring System) and No. 333 (Wiring Systems).





BRITISH INSULATED CALLENDER'S CABLES LIMITED
2 1 BLOOMSBURY STREET, LONDON, W.C.I



Installed in a corner of the pantry, the DUO-THERM rapidly cools the whole space and maintains it at a temperature of approximately 40° F., at the same time utilising the extracted heat to raise the temperature of the 30 gallons of water in the insulated tank to approximately 140° F. The unit also provides a refrigerator capacity of 5½ cu. ft.

Here are some of the advantages of the DUO-THERM: -

- Ample bot water at less than half the cost of immersion heating.
- · Hygienic cold storage at no additional cost.
- · Easy to instal and maintain.
- · No fumes-No flue.

An illustrated folder giving further details gladly sent on request.

BRENTFORD ELECTRIC LIMITED

KIDBROOKE PARK ROAD, KIDBROOKE, LONDON, S.E. 3. TEL: LEE GREEN 1006

ap the architectural press

A group of books on domestic architecture

SMALL HOUSES, £500-£2,500 (at pre-war prices). Edited by H. Myles Wright, A.R.I.B.A. An extensive survey containing photographs and plans of a large number of houses of widely different types. A selection of interior views is also included, and to every house is appended a descriptive note giving particulars of the site, plan, construction, services, equipment and cost. Size 11½ ins. by 8¾ ins. 112 pp. Illustrated. Second edition. 15s. net. Postage 7d.

THE MODERN HOUSE by F. R. S. Yorke, F.R.I.B.A. This book is divided into six sections: Introduction—Plan—Walls and Windows—Roof—Experimental Houses—General Illustrations. This last section contains over 140 pages of photographs, plans, constructional details and descriptions of English, American and Continental houses. Size 10 ins. by 7 ins. 232 pp. over 500 illustrations. Seventh edition. 30s. net. Postage 1s. 3d.

THE MODERN HOUSE IN ENGLAND edited by F. R. S. Yorke, F.R.I.B.A. This book describes and illustrates the best domestic work carried out by modern architects in this country. All the houses discussed are illustrated by exterior views and plans; and there are also interiors and detail-diagrams of many of them, in addition to full notes on costs, construction, finishes and equipment. Size 11½ ins. by 8½ ins. 144 pp. over 350 illustrations. Third edition. 215. net. Postage 15. 3d.

THE NEW SMALL HOUSE by F. R. S. Yorke, F.R.I.B.A. and Penelope Whiting, A.R.I.B.A. Mainly a collection of photographs and plans of well-designed houses and housing schemes. Eighteen bungalows are included. A short text accompanies each illustration and describes details of construction, equipment and materials; costs are given where possible. Size $9\frac{1}{2}$ ins. by $7\frac{1}{4}$ ins. 144 pp. including 128 pp. of halftone and line illustrations. Second edition. 25s. net. Postage 10d.

THE MODERN FLAT by F. R. S. Yorke, F.R.I.B.A. and F. Gibberd, C.B.E., F.R.I.B.A. A comprehensive, authoritative survey of the new type of flat in its relation to social needs. The book illustrates the evolution of its plan and presents carefully chosen examples of the best recent work in 16 countries. Size II \(\frac{1}{2} \) ins. by $\text{8}\(\frac{3}{4} \) ins. 208 pp. over 590 illustrations. Third edition. 35s. net. Postage 1s. 3d.$

FOUNDATIONS For Houses and other small Structures by W. H. Elgar, M.A., M.ENG., A.M.I.C.E., F.R.I.C.S. Forewords by Noel Dean, M.A. and James Macgregor, F.S.A. How to arrive at an adequate, safe foundation design whatever the soil and subsoil; how to avoid needless waste of money below ground level; how to test the behaviour and physical properties of subsoils. Size 8\frac{3}{4} ins. by 5\frac{1}{2} ins. 92 pp. with 52 line illustrations. 12S. 6d. net. Postage 5d.

a complete new, illustrated catalogue will be sent on application to

THE ARCHITECTURAL PRESS

ap

9-13 Queen Anne's Gate London SWI

U.S.A. . The British Book Centre Inc., 122 East 55th Street, New York 22, N.Y., U.S.A.

Canada • The British Book Service (Canada) Ltd., Kingswood House, 1068 Broadview Avenue, Toronto, Ontario, Canada.

South Africa . E. Maxwell Arnot, P.O. Box 275, Cape Town, S.A.

liv

BETTER BUILDING at LOWER COST!





with fatty mortars from lean mixes

Lean mortars are good mortars,* and 'PHOMENE' Mortar Plasticizer makes the leanest mortar fatty and workable. 'PHOMENE' enables you to mix as lean as 6:1 sand-cement and get the hardest, strongest bricklaying and rendering mortars saving at lease 12/- per cubic yard on cement into the bargain!

That's how 'PHOMENE' Mortar Plasticizer helps the work and makes it easy to keep down costs too. Why not prove this for yourself by using 'PHOMENE' on your very next job? You can scarcely afford not to.

One tin saves at least 4 bags of cement or lime . . .



used at the rate of only ½-pint per bag of cement for a 6:1 mix. Supplied in sealed quart cans to eliminate waste on the site. Send for leaflet or trial can (8|-) to The Pyrene Company Limited, Cellular Products Division, Great West Road, Brentford, Middlesex. Phone: EALing 3444.

It's easy with



Official Publications relevant are National Building Studies Bulletins Nos. 8 and 10. See also BS Specifications BS 1198, 1199, 1200 for Sands





ASSOCIATED FIRE ALARMS LIMITED

CLAREMONT ROAD, WALTHAMSTOW, LONDON, E.17

Branches in: Glasgow, Leicester, Manchester & Liverpool.

SERVICE IN ALL MAIN CITIES

TAS/AF.46.

new ways of servicing BUILDINGS

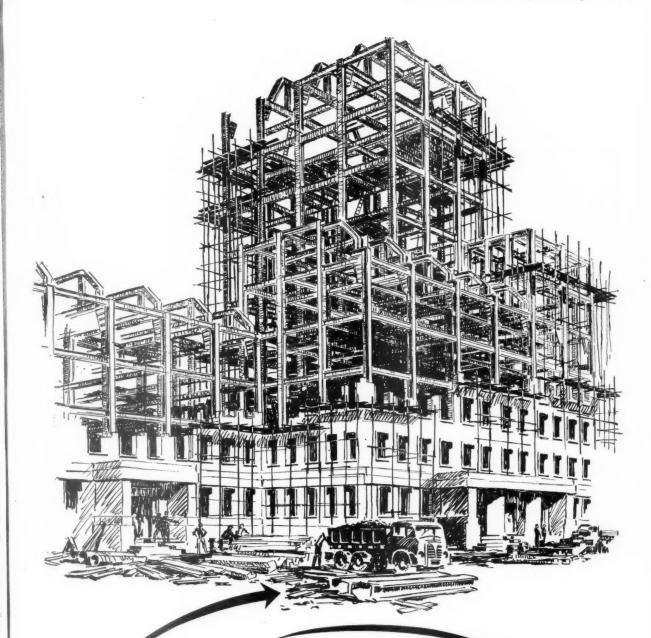
Edited by ERIC DE MARÉ, A.R.I.B.A.

THIS IS A NEW KIND OF BOOK ON SERVICING BUILDINGS. Like its successful companion volume New Ways of Building—now in its third printing—its purpose is to fill a gap by acting as an appendix, or postgraduate course, to the existing standard publications on the subject. It presents in a single volume up-to-date knowledge in concise form on all recent developments in lighting (by JOHN BICKERDIKE), the heating of larger buildings (by J. R. KELL), house heating (by C. C. HANDISYDE), sanitation, plumbing and hygiene (by H. G. GODDARD), interior finishes (by KENNETH CHEESMAN) and miscellaneous items (by PHILIP SCHOLBERG). It is designed to be of value to architects, builders, students of architecture and building and to all who are interested in the modern servicing of buildings; even the private house owner will find herein much to interest him when contemplating improvement of his home. Again like New Ways of Building each chapter is written by a specialist on whose knowledge the reader can rely,



and the whole has been co-ordinated and edited by Eric de Maré, who is a qualified but unspecialised architect. Illustrations have been chosen, so far as is possible in a book of this kind, not merely to inform on technique, but to act also as visual stimuli to designers. Selected bibliographies have been added to each chapter in case further study is desired, and there is a comprehensive index. Size $9\frac{1}{4}$ ins. by $7\frac{1}{4}$ ins. 228 pages, including 44 pages of plates. Over 190 line and halftone illustrations. Price 30s., postage 8d.

THE ARCHITECTURAL PRESS 9-13 QUEEN ANNE'S GATE LONDON SWI



SOUTH DURHAM

for speed, efficiency, economy

SOUTH DURHAM STEEL & IRON CO. LTD.

(incorporating CARGO FLEET IRON CO. LTD.)

Central Constructional Department, Malleable Works, STOCKTON-ON-TEES. Telephone: 66117.



Make a good job of it with

Crompton

rubber cable



CROMPTON PARKINSON LIMITED

CROMPTON HOUSE, ALDWYCH, LONDON W.C.2

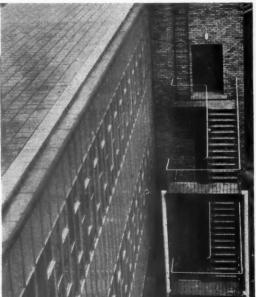
TELEPHONE: CHANCERY 3333



BRABY

PRESSED STEEL STAIRS





Braby Pressed Steel Stairs are suitable for all classes of buildings. They are strong, light and may be easily erected along with the structural framework to give access to the various floors during building operations. Designs and estimates submitted on request.

The illustrations show two of the stairs supplied and erected by us at the New Administration Block for

THE de HAVILLAND AIRCRAFT CO. LTD., HATFIELD, HERTS.

Architects: JAMES M. MONRO & SON, A.R.I.B.A.

Contractors: MESSRS. BOVIS, LTD.

ONE OF THE WIDE RANGE OF

BRABY

PRODUCTS

FREDERICK BRABY & COMPANY LIMITED

ECLIPSE WORKS, PETERSHILL ROAD, GLASGOW, N. TELEPHONE: SPRINGBURN 5151

OTHER FACTORIES AT: London Works, Thames Road, Crayford, Kent. TELEPHONE: Brix(e) Havelock Works, Deptford, London, S.E.S. TELEPHONE: TIDeway 1234
Havelock Works, Aintree, Liverpool, 10. TELEPHONE: Aintree 1721
Ashton Gate Works, Bristol, 3. TELEPHONE: Bristol 64041. Also Falkirk and Motherwell
OTHER OFFICES: 352-364 Euston Road, London, N.W.1 (Head Office). TELEPHONE: EUSton 3456
110 Cannon Street, London, E.C.4 (Export). TELEPHONE: MANSion House 6034
Queen's Buildings, 10 Royal Avenue, Belfast. TELEPHONE: 26509
Palace Street, Plymouth. TELEPHONE: 2261

GLASCRETE

Reinforced Concrete and Glass

LANTERN LIGHT

over kitchens at the

Langley Primary School

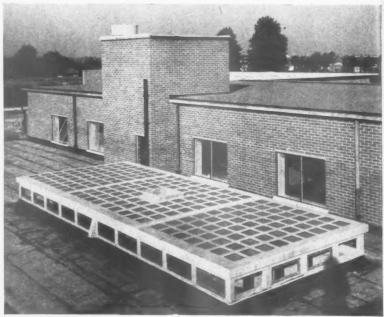
for the Buckinghamshire

County Council.

Associated Architects:

W. D. Hartley, Esq., F.R.I.B.A. H. J. Stribling, Esq., F.R.I.B.A.

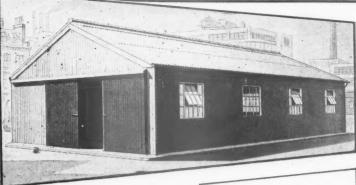




The lantern top is in Glascrete Type 80/6 having 12" x 12" glasses set at 15" centres and cast in situ. The vertical sides are formed of standard precast units.

Useful data on Glascrete constructions is given in our Brochure P.45, which we shall be pleased to send on request.

CONSIDER A THORNS BUILDING



A typical Building 60' x 30' x 12'

We specialize in supplying any size or shape of one storey shedding, with or without wall sheeting. Foundations and erection work undertaken if desired. Ask Thorns to quote for your next steel-building requirement.



A MODERN NEW FACTORY

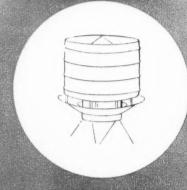
has been equipped especially for the production of prefabricated steel building structures of all kinds. We shall be pleased to quote for inexpensive standard buildings or for structures based on your own designs. Our Erection Service has also been extended to cope with additional site work. Estimates free.

J. THORN & SONS LTD.

(Dept. 188), BRAMPTON ROAD BEXLEYHEATH · · · KENT Phone Bexleyheath 305 Est. 1896







efficient NATURAL VENTILATION

Prominent industrial organisations in Britain and overseas have for many years standardised on Robertson ventilators with outstanding success.

The range of Robertson equipment includes:

ROUND VENTHATORS, for most applications.

ROBERTSONRIDGE, a continuous ventilator for constant heat and fume removal.

FAN POWERED VENTILATORS, for peak period problems and a variety of intake and julet units.

ROBERTSON THAIN LTD ELLESHERE PORT - WIRRAL - CHESHIRE PIONEERS OF NATURAL VENTILATION

Tokes Offices LUNDON - GLASGOW - BELFAST - BIRMINIGHAM - NEWCASTLE - LIVERPOOL SHEFFIELD - MANCHESTER - CARDIFF - EXMOUTH Agents in most countries throughout the World.





MILLOCRAT HOUSE, FOR JOSEPH RANK LTD.

Architects: A. W. Moore & Son, F.R.I.B.A.

General Contractors: Humphreys Ltd.

Steelwork by

DORMAN LONG



THE

No. 3100

THOMAS The r week's a long i known between commit the lect Tait wa his coll outflow and pra of which takable is a qua tainly : serving

often anonyn



THE ARCHITECTS' JOURNAL

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

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

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

Assistant Editors: (20) Chief Assistant Editor, Kenneth J. Robinson, (21) Assistant Editor (Buildings), L. F. R. Jones, (22) Assistant Editor (Information Sheets), Lance Wright, A.R.I.B.A., (23) Photographic Department, H. de Burgh Galwey, W. J. Toomey (24) Editorial Secretary, Monica Craig.

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

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

No. 3100 July 29, 1954 VOL. 120

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.



THOMAS TAIT

The recent death (reported in last week's JOURNAL) of Thomas Tait, after a long illness, removes one of the bestknown architectural figures of the between-war period. Seldom seen in committees or at dinners, and never on the lecture platform or at conferences, Tait was a prodigious worker and he and his colleagues produced a tremendous outflow of work which kept a steady and practical standard of quality, and all of which was stamped with an unmistakable personal style. "Personality" is a quality today often derided and certainly seldom found, for architecture, serving anonymous clients, as it so often does, and being designed by anonymous architects in mass-produced

and anonymous materials, has to gain its visual effects, except when handled by "rogues" or "geniuses," by nonindividual ways.

ASTRAGAL, however, sometimes misses the fun he used to have in "spotting" buildings—like cars or aircraft—by their authors' mannerisms, and well remembers the pilgrimages he made as a student to the Burlington School near Wormwood Scrubs, to the Curzon Cinema—how excellent inside it still is!—to the Freemasons' Hospital, at Ravenscourt Park and, of course, to the Glasgow Exhibition—a pilot scheme of design co-ordination from which the organisers of the South Bank learned many good lessons.

GUARDS' CHAPEL CLOISTER

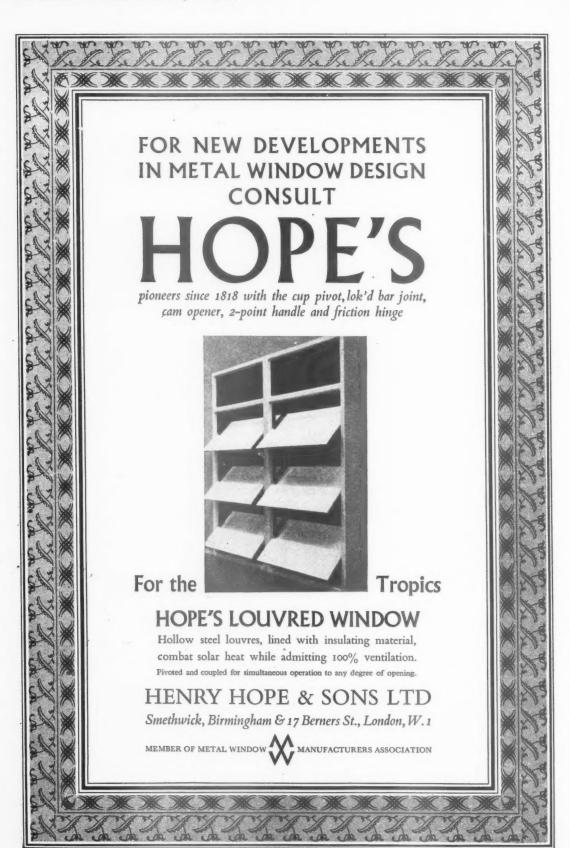
"Tommy "Tait—as he was known to a large number of his friends-was never what Mr. Goodhart-Rendel would have called a "rogue" architect. But Mr. Goodhart-Rendel, himself sometimes runs the risk of being called one, and his buildings have always been pleasantly challenging for the "spotter" to mark and catalogue. It is difficult to see from the newspaper-reproduced illustrations of his new Memorial Cloister, shortly to be started in Birdcage Walk, whether the result will be as traditional and severe as a soldier's uniform, or whether the architect will permit a few personal twists to appear in the final detailing-let us hope so. It is good news anyway that at last the sad ruin and the dreary Nissen that houses it are at last to disappear, if slowly, from sight.

NATIONAL DISGRACE

A valuable stiffening of the architec-

tural representation on two of our major national purveyors of culture is represented by the appointment of Dr. Leslie Martin to the Art panel of the Arts Council, and J. M. Richards to the Fine Arts Advisory Committee of the British Council. ASTRAGAL wishes more power to the elbows of both and wonders whether the latter will be able to do something (though it is too late to do anything about it this year) about the forthcoming National Disgrace we shall suffer by there being no British representative at the Milan Triennale. To miss out on this international meeting of. the First Division of Industrial Design is quite as bad in many ways as being beaten in international soccer.

Not-from what one reads-that other and richer countries seem all that more eager to participate on an official plane. The United States, it seems, will only appear through the combined efforts of an enthusiastic magazine, voluntary student labour and the temptation from the Triennale organisers of a free site. This business of offering free sites—and in this case, it is also said, free architectural services on the site-may be worth it occasionally (from the organisers' point of view), but it sets awkward precedents too obvious to enlarge upon. Most visitors will be glad enough to see the Buckminster Fuller Dome in Milan without worrying too much how it got there, but the whole business seems even more unorthodox than the structure itself. It is encouraging to hear that several British firms of high design repute will be there under their own-self-paid-steam, and it is certainly preferable to be represented thus—or not at all—than by some half-



lxiv

A reader of Housi from put They we Birming! timber h there is will take would poshould b know the How about the would by the would by the would by the How about the how a

Plan B

hearted, venture, local co

AT THE
Those
during
to Ven
should
tion at
due to
Goya
couple
surpass
in one
record
activiti

activiti childre worth nice to must h no wo

The contion to Room

earth a



A Unique Bungalow

DESIGN No. 1014.



To anyone who requires something unique or crafty this design will offer many suggestions.

The rustic effect of the gables works out nicely with its simple lines and rough finish.

A reader who has been impressed by the JOURNAL's repeated requests that the Minister of Housing, Harold Macmillan, should introduce legislation preventing spec. builders from putting up houses without the help of architects, sent ASTRAGAL these sketches. They were included in a book of similar sketches which this reader received from a Birmingham firm after asking the TDA's advice about "contemporary single-storey timber house design." There is nothing to stop such designs being used today. But there is something to stop the private builder from putting up anything like Denys Lasdan's pre-war house in Paddington. It is not the sort of house that building societies will take an interest in. When Ronald Searle moved into it after the war no society would provide an advance because it was "an eccentric house" and "we doubt if we should be able to find another buyer." Builders will go on providing only what they know the building societies will take risks on until they are compelled to employ architects. How about it Mr. Macmillan?

hearted, nominal and cash-less official venture, run up by some over-worked local consular office.

AT THE TATE

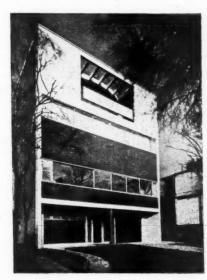
Those of you who are in London during the next week or two, en route to Venice, Marseilles or even to Brazil, should not miss the Sao Paulo Exhibition at the Tate—a really splendid show due to close on August 15. There is a Goya portrait, a Renoir nude, and a couple of Manet's that surely cannot be surpassed anywhere in the world, and in one of the rooms a photographic record of the museum's ancillary activities-publications, lectures, ballet, children's studies, etc., etc.-which is worth half an hour to itself. And how nice to see a collection of pictures which must have cost the earth to buy-and no worry about there being plenty of earth about.

ROOM FOR A SALON

The case for having an annual exhibition or salon of architecture (in addition to, or instead of, the Architectural Room at the Royal Academy) was the theme given to the speakers at the Architecture Club's dinner last week. There is certainly a strong case—stronger perhaps than the speakers (John Summerson, Kenneth Clark and Professor Richardson) succeeded in making. They concerned themselves more with analysing the different kinds of exhibition, than with advocating the launching of one forthwith, but it was encouraging to hear Kenneth Clark say that the Arts Council definitely includes architecture among its interests, although its architectural activities have so far been negligible.

The Arts Council is one of the bodies that could sponsor such an exhibition. Better still, I think, if the RIBA would undertake it. They need to become more of a link between the public and the profession: here is their chance to do so. The choice would be between an exhibition of photographs of finished works and one of projects. My initial feeling is that the latter is more needed at the moment. It would enable the

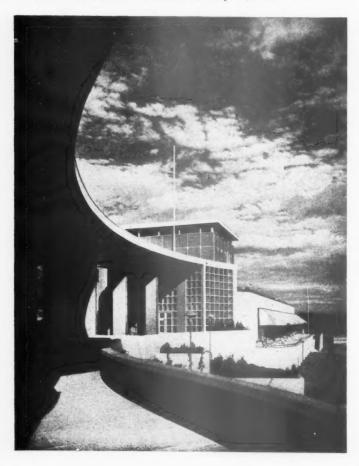




public to discuss and criticize projects in good time, and so much of the public's apathy about architecture is, I am sure, due to a feeling that opinions it expresses are always too late.

It will be interesting to see how these ideas are followed up. The Architecture Club, the one architectural body composed equally of architects and laymen, is fulfilling its purpose admirably in putting forward an idea that is clearly designed to bring architects and their public closer together.

Last week ASTRAGAL experienced a sort of middle-aged architect's night-mare. Round him on all sides, as large as life and twice as natural, were embodiments of all the nastiest pages of Jaggard and Drury, Mitchell and Rivington. Four centred arches worked in rubbed bricks, Tudor chimney-stacks (but made with wire-cuts), round-headed sash-windows built on a quadrant, modillioned plaster cornices . . . performances, all of them, from which the



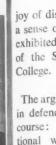






Tait the Pioneer

ASTRAGAL writes, on page 121, about the work of Thomas Tait, who died last week. To amplify ASTRAGAL'S note we illustrate some examples of Tait's most forward-looking work. Above is part of the Royal Masonic Hospital, Ravenscourt Park, and below it is the Curzon Cinema, Mayfair, which is—along with Wells-Coates's National Film Theatre—the most agreeably designed in London. The two photographs on the left are reminders of Tait's work as chief architect of the Glasgow Exhibition of 1938. the exhibition was opened, The Architectural Review had this to say: "... the important thing about Glasgow is that it represents a whole-hearted acceptance of the spectacular as well as of the functional possibilities of the modern idiom. It may well do for this country what Stockholm did for the Continent of Europe in 1930." And now, looking back, it is possible to say—as ASTRAGAL does this week—that the exhibition was "a pilot scheme of design co-ordination from which the organisers of the South Bank learned many good lessons.



in defend course: tional w can go on niques." ment is l since mo tional bu are requ "out" o this was brick-wo reported craftsmer

How sa Technica School o might ha the Dep South-Ea divorce of is said, o ton? Ha to get s tween b tectural they are

TIMBER N On the body in manufac tantly, c Remploy last year to disab excuse b cult labo to work a vast ra been goo of a kin

It come prise to to mai Swedish version steel) of which E for storii venture i cess it de



joy of discovery had gone, leaving only a sense of useless travail. All this was exhibited at the Department of Building of the South-East London Technical College.

The argument which is used every time in defence of this sort of thing is, of course: "you must know the traditional way of building before you can go on to learn about new techniques." But the futility of this argument is here more apparent than usual since most of the applications of traditional building which the unfortunates are required to master are long since "out" on economic grounds. But even this was contested by one instructor in brick-work who pinned his faith on the reported dearth of skilled traditional craftsmen in the City of London.

How sad that the South-East Essex Technical College has had to lose its School of Architecture. A few ideas might have spread across the river into the Department of Building of the South-East London College. Similar divorce of design and craftsmanship, it is said, can be found elsewhere—Brixton? Hammersmith? Is it beyond hope to get some form of relationship between building apprentices and architectural students—particularly when they are under one (King-post) roof?

TIMBER MECCANO

plify

s of

ove

ens-

ema,

tes's ably

the

itect

hen

ural

hing

rted

unc-

may

for ook-

does

eme

sers

On the rare occasions when a public body in this country has gone in for manufacturing we have waited expectantly, only to get unexciting results. Remploy Ltd., which was set up in the last year of the war to give employment to disabled people, has, of course, an excuse because of the exceedingly difficult labour conditions with which it has to work; and although many items in a vast range of finished products have been good sensible stuff, none have been of a kind to excite architects.

It comes, therefore, as a pleasant surprise to learn that Remploy have taken to manufacturing (under licence) Swedish Lundia shelving, a neat timber version (but cleverly reinforced with steel) of those glorified meccano sets which English industrialists have to use for storing their stock. I hope that this venture meets with the commercial success it deserves.

ASTRAGAL

POINTS FROM THIS ISSUE

AJ Competition Entries: Assessors' review	• • • •	page 128
New airport in Kent		page 139
Hospital Furniture and Fittings: paper by Llewellyn Davies		page 143

The Editors

THE AJ AWARDS

UR first impressions, after reading the entries sent for the AJ Student Awards,* were that students have not learned the limit of their capabilities. Most of the entrants made broad, sweeping generalizations and wanted to study wholly aesthetic or historic subjects. It is hard to believe that they had ever read technical articles or studies of buildings under construction.

It has been frequently said that the battle for modern architecture has been won. In so far as it is being accepted as a style to replace banker's-Georgian that is, no doubt, true. But modern architecture—in the sense the pioneers meant it has still a very long way to go before it is even in sight of victory. And its only line of advance would appear to be along the successful appreciation of techniques. The bulk of the profession is trying to run, behind modernistic facades, when it should still be walking behind banners of "How?" and "Why?" Students should remember that apart from primary schools, and hospital ward units, there has been hardly any study of building types to meet contemporary needs. And how many studies of different building techniques and various methods of site organization? How many studies of architects' office organization—or techniques of presenting information to builders. Or again, in the sphere of building equipment, how many plumbing firms, for instance, apart from Econa, have studied drainage problems? But limit the field still further: how many good designs are there for door handles? Is the limited number due to lack of imagination or manufacturing troubles? Has the design of a door hinge been carried to perfection? Or, to go even further, have we fully explored the possibilities of the humble nail? Do we know its real performance?

We would suggest that seeing how a small article is designed and manufactured will give much greater awareness of the technique of designing, and ensuring that the end product roughly resembles what was designed in the first place—than years of paper designs of building types. We would suggest that these JOURNAL awards would best be used for limited practical studies which could cumulatively fill up the many gaps in our knowledge and enable the technical advance to be over a broad front.

This is not to decry the realm of pure aesthetics—or the value of historic study. But these are much larger subjects,

far beyond the scope of the JOURNAL awards. These should be used either to produce a modest contribution of knowledge or to expose a fallacy or some small chink in our architectural armour.

It is somewhat disturbing to find that such a large proportion of the entrants—students with at least three years' experience —wanted to attempt such complex and esoteric subjects. We realize that it is the job of the staff of an architectural school to widen the students' minds. It also used to be his job to get the student to approach problems from "first principles." Has this been forgotten? The current cry for more practical experience for students can be carried too far, but should not every student, by the time he has reached his fourth year, be able to prepare a list of problems on which he is dissatisfied with the stock solution? In all modern buildings one can say "if you seek a problem, look around you." They bristle with unsatisfactory details—points which the practising architect has to ignore through lack of time or conscience. The JOURNAL awards might, in a very modest way, start the ball rolling towards removing these inadequacies in presentday designing and building-if only by pointing them out in greater detail.

For those who seek glamour and "brilliant" designs this might seem a very mundane way of spending £200. We disagree. All good architects, we feel, would say that good design comes from a humility of mind and an infinite capacity for taking pains, plus imagination. The JOURNAL award should exercise the first two requisites at least, and, with luck,

the third.

LETTERS

Philip V. Marchant,
A.M.I.C.E., M.I.Mun.E.,
Borough Engineer, Surveyor and Architect,
Wandsworth.
"You, Cassius"
George A. Atkinson, A.R.I.B.A.

Wandsworth's Trees: What Seventy People Think

G. M. Hobbs, A.R.I.B.A.

SIR,—I would refer to ASTRAGAL'S Notes and Topics in your issue of July 15, in which

reference was made—under the title "Boughs not spared"—to the proposal of the Borough of Wandsworth to embark upon a programme of replacement and planting of trees. The trees which the Borough Council pro-

The trees which the Borough Council propose to remove are forest trees which, by their nature, are entirely unsuited for comparatively narrow streets

In consequence of the growth and outspread of these trees, severe lopping has been necessary over many years in order that the residents of abutting premises may obtain daylight in their premises. Furthermore, the paving has been seriously disrupted by the shallow roots, with consequent danger to pedestrians, and this together with the heavy leaf fall in the autumn has proved an unwarranted expense to the ratepayers.

ASTRAGAL may consider it desirable that light shall be denied to people who live in these streets and that the unsightly trees, ruined by necessary "brutal" lopping, shall be preserved, but, with very few exceptions, the residents in the roads hold different views.

The policy of the Council is to plant suitable trees at such spacings as will enable adequate distribution of light to be secured and yet will have the effect of adding some beauty to the neighbourhood. Not on'y is the Council proposing to plant suitable way-side trees in those roads from which unsuitable forest trees are to be removed, but also to plant suitable trees in a number of other roads where at the moment no trees exist or have ever existed.

or have ever existed.

The ultimate remark in your notes is both offensive and unwarranted. This whole problem has been considered most carefully by the seventy council members, all of whom are men or women of intelligence, motivated with an ardent desire to preserve and improve

the amenities of Wandsworth. Perhaps by comparison with the devoted voluntary service of the council members, the immature comments of ASTRAGAL fade into significance.

PHILIP V. MARCHANT.

Wandsworth.

[The issue seems to depend on what is meant by "suitable trees." If these are to be small flowering trees of the kind that have been mistakenly planted in so many places already ASTRAGAL will have further "offensive" remarks to make.—ED.]

Local Authorities' Sins

SIR,—The solemn announcement issued by the RIBA to warn off any aspirant "general factota" to the local authority which has recently had the nerve to advertise for an architect/multi-purpose/local authorities for the use of/all for a shilling a day, etc., is yet another example of the ineffective squeaks which periodically emanate from Portland Place.

I know nothing of the circumstances of this particular case and, like all truly ignorant types, am ready and competent, therefore, to offer advice. It seems to me that the utmost care should be exercised by the RIBA in dealing with matters of this kind. Here, apparently, is a local authority which has at least recognized the value of employing an architect (a view not universally accepted). Its chief crime would appear to be a lack of knowledge of the method of remunerating its appointed architect. Surely the RIBA could find a representative with sufficient tact and diplomacy to make a personal approach to the authority.

The method of blacklisting an appointment should in my opinion be only resorted to when the attitude of an employing authority is unreasonably stubborn, as it is an action which creates bad publicity for architects. Having decided to blacklist an appointment the penalty should be announced quite clearly, e.g., "members accepting will be expelled," in preference to the threat of disciplinary action.

Being myself employed by a local actionic desirable of the property of the

Being myself employed by a local authority in a salaried capacity, I am looking forward to the day when the RIBA will become sensitive to the more damaging sins of local authorities against the profession. The worst of these is that of allowing its members to accept appointments at salaries which amount to only a fraction of the fees earned by the employed member—a state of affairs which is bad both for private architects and employed architects. The position is worsened by the fact that no overtime is paid for, although it is regularly expected of senior grades.

architects and employed architects. The position is worsened by the fact that no overtime is paid for, although it is regularly expected of senior grades.

The blame for the present state of affairs rests as much with chief officers as with the employing authorities. It is, I believe, the duty of chief officers to advise upon matters of salary and to keep the employers informed of the equivalent earnings of their staff in scale fees. If the salaries paid to Local Government architects were roughly equivalent to the fees which a private architect would earn the result would benefit private architects and would result in increased efficiency in the local government office.

" YOU, CASSIUS "

Dull Architecture

SIR,—I challenge the contention in your issue of July 8 that national poverty is the explanation of our dull architecture. Compared with past ages when great architecture was produced I suggest we are as rich as ever we were. We have no Black Death,

distances th most devou than a week it proper to the water i privy in the than the advanced t No sir! viction, an on a church Our minds heights. V heights. V displays too tion. Yet the to sell ware of the Pala Its beautifu heth of the exclusive a tecture int is the skyse architectur emphasis. pa'ace can dwelling, common s create not

no Plague,

are services

Monmou

SIR,—The about the and cities Do you offered oo new pro growth a size, in time me proportic. The descrites lag up the ding roads interests Palliativ under sq problem.

port copchaos at breakdov No, we terms. I Firstly, urban trand the miniature commuter commuter coshould, meter.

garages

Second entirely trances entertair cantileve Ground and di storing vehicles. Imagin

Then y problem ing stag under t

Londo

no Plague, no Peasants' Revolt. Our roads are serviceable, our working people travel distances that might well have daunted the most devout mediaeval pilgrim, for no more than a week's holiday. Most people consider it proper to be connected to the sewers and the water mains in preference to using the the water mains in preference to using the privy in the garden and the parish pump; and we possess machinery more elaborate than the windmill and transport more advanced than the pack horse.

No sir! What we lack is a fatth, a conviction, an aspiration that will expend money than the property of the private of the property of the private of the priv

on a church spire, a clock tower, a campanile. Our minds do not soar easily to the dizzy Our minds do not sour easily to the billing ourselves there in aeroplanes. Our finest displays today are for commerce and exhibition. Yet the spire of Salisbury was not built to sell wares but to glorify God. The towers of the Palace of Westminster declare to the world "This is the Mother of Parliaments." world "This is the Mother of Parliaments." Its beautiful campanile reminds Port Elizabeth of the 1821 settlers. These things centre the mind and the spirit on that which is exclusive and special in life and raise architecture into the sphere of greatness. The "point" block is no substitute for this, nor is the skyscraper. For in the last resort civic architecture requires a focal point—an emphasis. The church, the town hall, the palace can form these rare focal points. The dwelling, the shop, and the office are the common stuff of building and writ large they create not a focus but monotony or disunity. create not a focus but monotony or disunity. GEORGE A. ATKINSON.

Monmouthshire.

ant rity

verocal ling

ally

ulv

ent,

me this

rity of

uni-

ould the nted

d a

the

int-

rted

ving it is for an

bers ence

ocal

ook-

will

sins

ion.

its ries

the r—a vate

arly

fairs

with eve.

pon

heir

chi

nefit

in

nent

your

om-

ture

eath,

to ghly

Parking Problems

There has been some talk recently SIR.—There has been some talk recently about the parking problem in big towns and cities, with special reference to Loadon. Do you not think the solutions so far offered only tickle the problem? This is a new problem, related to the phenomenal growth of cities, both in number and in size, in the last century. At the same time mechanical transport has increased proportionally.

proportionally.

The design of individual buildings and of cities lags behind. We now have to make up the difference with the burden of existing roads, buildings and financial and social

interests to deter us.
Palliatives will just not do. Palliatives will just not do. Car parks under squares only tickle the surface of the problem. Sharp's suggestion of a ring of garages is bold, but would public transport cope with the rush? Imagine the chaos at the change-over points—or if a breakdown occurred!

No, we must re-think in 20th century terms. I would make two suggestions.

No, we must re-think in 20th century terms. I would make two suggestions. Firstly, urban living has given rise to urban transport; the Italian motor-scooter and the German Heinkel-Messerschmidt miniature cars are perfectly designed for "commuting" and take up a fraction of the room of old-fashioned vehicles such as motor cars, compileres and excels such as motor cars, omnibuses and coaches, which should, indeed, be left outside the perimeter.

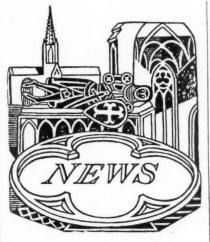
Secondly, the streets should be given over Secondly, the streets should be given over entirely to traffic. Pedestrians, and all entrances to shops, stores, offices, places of entertainment, etc., should be raised on cantilevered sidewalks to first floor level. Ground floors would be devoted to loading and discharging goods and passengers; storing goods and materials and parking vehicles. vehicles.

Imagine! London would elevate itself one floor. Then we could all breathe again.

Then we must set our minds to solve the problem to come, viz., the helicopter landing stage and park. You cannot put them under the Georgian squares!

G. M. HOBBS

London.



LAW REPORT

Architect to Pay £14,000

Damages of £14,023, with costs, were awarded against E. G. Wilks, of Barton Mills, Suffolk, by an official referee (J. D. Casswell, Q.C.) on a counterclaim by Thingoe (Suffolk) RDC on the ground of his breach of duty and professional negligence while employed as an architect supervising the council's housing schemes. Judgment was given for him on his claim for fees—for £801, with costs. He denied the council's allegations.

The Referee. giving judgment, said that

The Referee, giving judgment, said that Mr. Wilks did not inform the council of variations and additions to council houses being built. Though formerly a regional architect of the Ministry of Health, he had, with great disregard to the interest of the country and the council, embarked upon a course of extravagant expenditure.

NASH HOUSES

Future Uncertain

Twenty-two Nash houses, in Cumberland Terrace, adjoining Regent's Park, are to be vacated by MOL staff. The houses will revert to the Commissioners of Crown Land, from whom they were taken over by the MOW for use as offices.

A committee set up by the Government in 1946 to keep an eye on the Nash Terraces said that a minimum of seven, including Cumberland Terrace, should be restored and preserved as buildings of national interest and used for residential purposes. They approved of London University's proposal to convert part of the terraces for use as students' hostels as students' hostels.

as students nostels.

Now, however, the University finds that conversion costs would be "very heavy indeed," and that it is unlikely that they could meet such costs out of their own

MANCHESTER

Gets Architect's Surveyor Fob

The following news item appeared recently in the Manchester Evening News:

"After his appointment to a £1,000 a year than the Salahaidae Town job was approved by Stalybridge Town Council a Manchester architect refused to sign the agreement and withdrew, following

protests by the RIBA.

"In April the then architect, Percy Howard, asked for a new contract based on the

RIBA scale of fees for state-aided housing schemes. When the council refused he resigned.

His successor was Philip Solomon of own Hall Chambers, Tip Lane, Cross Town

Street, Manchester.

"Now the RIBA has told Stalybridge council that their members are bound by a code of conduct which includes upholding

the approved scale of charges.
"Stalybridge council was then told that a chartered architect on the RIBA scale would cost them between £2,000 and £3,000 a

"Now the surveyor, G. D. Sanderson, is to do the job. His salary will be raised by £220 to £1,200.

"A technically qualified assistant with housing experience, will be appointed to assist him."

COMPETITION

Assessors Appointed

Sir Herbert Read and J. M. Richards are to join the panel of assessors who will judge the competition for two pieces of sculpture for the TUC memorial building in Great Russell Street, London.

The other assessors will be two representatives of the TUC's general council and the architect for the memorial building (now under construction)—David du R. Aberdeen.

ST. PANCRAS

" Brightening - up" Has

The interior of the great roof of St. Pan-cras station is being repainted; the supporting stone and brick walls are also being cleaned. The job should be completed, at a cost of £25,000, by the end of the year.

ESSEX

Part-time Courses at Technical College

Although the full-time architectural course at South-East Essex Technical College and School of Art is closed (as announced in last week's JOURNAL) part-time day and evening courses will continue.

RSI

Advice Sought from Hugh Casson

The Royal Sanitary Institute has invited Sir Hugh Casson to submit plans for the re-designing of its Museum of Hygiene, at 90, Buckingham Palace Road, S.W.1.

$\mathbf{D}\Pi\mathbf{A}\mathbf{R}\mathbf{Y}$

Exhibition of Students' Work. At the AA, 34, Bedford Square, W.C.1. Monday to Friday: 10 a.m. to 6 p.m. Saturday: 10 a.m. to 2 p.m. AUGUST 4 TO 14

New Life for Older Houses. Conversion of early nineteenth century houses to modern flats by the MOHLG. At Holles Street, off Oxford Street, W.1.

UNTIL END OF AUGUST LCC Open-Air Sculpture Exhibition. Holland Park. Daily, including Sundays. 10 a.m. until dusk. UNTIL SEPTEMBER

Last week we published the two prize-winning entries, by David Kirby and John Reid Oberlander, for the AJ Student Awards (each of £200). The prizes, which were offered to encourage "original, unorthodox, ideas," were open to all students RIBA. The winners were selected from a short list of thirteen, chosen from 156 eligible entries. This week we publish the assessors' comments on the work of the short-listed entrants whose names appear below.

THE ASSESSORS REVIEW

AJ COMPETITION ENTRIES

Renton G. Spencer, ex full-time student of Leeds School of Architecture
Jonas B. Lehrman, full-time student of the Architectural Association
David G. Hatch, full-time student of the Edinburgh College of Art
Geoffrey H. Broadbent, full-time student of Manchester University
Colin Ward, part-time student of The Polytechnic, Regent Street
Ivor F. Davies, ex full-time student of the Birmingham School of Architecture
Sydney E. Bell, full-time student of the Birmingham School of Architecture
William H. Walker, part-time student of the Manchester College of Technology
John C. Haskell, full-time student of the Kingston School of Art
John M. E. Potter, part-time student of the Mid-Essex Technical College
Edward J. W. Miller, part-time student of the Northern Polytechnic

The authors of these entries deserve to be commended for their choice of subjects and for their carefully written and telling statements. There were, of course, many other well-written statements (some were even better), but in these cases subjects were too complex to be satisfactorily studied within the limits of the £200 award. The subjects of the short list of entries is a fairly typical cross-section of the subjects chosen by many of the entrants. A few, however, are original and are obviously subjects on which much fuller knowledge is desirable. The winning entries come into this category and so do those of R. G. SPENCER and J. B. LEHRMAN. R. G. Spencer wrote as follows: Lutyens said "a good architect can plan anything—save his own life, and his own office." This latter concerns me, for I have found it to be true in all but one office in which I have worked.

Since first year student days I have been adjured, in unenthusiastic terms to

- " start a filing system"
- " collect catalogues . . ."
- "keep it, it may come in useful."

Never a reason, much less an indication of the best way in which to do this. So I turned to a book on architectural practice, for instruction, and was greeted in this manner—"I am afraid the subject is one which is not calculated to awaken intense enthusiasm"

How unenthusiastic can we get?

Feeling, as I do, the importance of this neglected requirement in a young architect's upbringing, I should welcome the opportunity to study the profession's steel cabinets and cardboard boxes, to find the better systems; reporting back, in a manner calculated to arouse enthusiasm.

It strikes me that there is as much fun to be had from an efficient basis for working life as from anything else; knowing how to file our catalogues successfully, and tasting that subtle pleasure of finding a well filed reference!

Obviously, this is a mammoth undertaking, although even a partial study would be better than nothing. The architectural profession, like the medical profession, is fast approaching a stage when the amount of factual information which has to be learnt is so large, and the number of text books, catalogues and sources of reference so bulky, that the average architect cannot learn his job thoroughly. R. G. Spencer, in choosing to tackle what may appear at first glance a rather hum-drum aspect of business management, has selected a subject which is probably the most neglected side of architectural practice, and yet is one which, if efficiently organized, could very easily raise the confidence of the general public in the architectural profession. There seems to be no unanimity of views in the profession on filing systems and office management.

J. B. Lehrm the study of Stockholm) It is my fu made of wa pool. Kno (the cause known to a to affect vis these facts or in its spe " Advantag 2-dimension falling, or a visually an as insulation "I strongly design of a space and. Here is an the study than the £ visual, bu deserves s Mr. Lehri of the ent

Noise

them belo

The

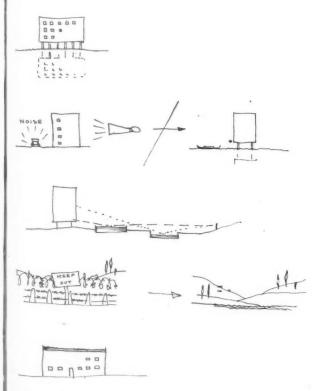
It amaze the opportunity reaction interest cation use of B. Lehrman wrote: "I propose that the £200 should be spent on the study of the use of water in relation to buildings (as in Venice and Stockholm) and also studying how buildings could benefit by its use. It is my firm conviction that much more use could and should be made of water, in addition to the kitchen, bathroom, and occasional pool. Known to affect the quality of light and the atmosphere (the cause of the Venetian and Amsterdam Schools of painting), known to affect the temperature of the surrounding air, and known to affect visual relationships and perspective by means of reflection—these facts are just not recognized in either the design of the building, or in its special relationship to its surroundings.

"Advantage must also be taken of its use as an effective horizontal 2-dimensional barrier; of the continual background of noise, when falling, or dense silence when placid; of its use as a vertical sheet, both visually and physically; of its glitter, and 'murkiness'; of its use as insulation.

"I strongly advocate that the use of water must be considered in the design of a building, its use being granted the same attention as form, space and structure."

Here is an excellent, even brilliant, choice of subject. Again, for the study to be of much practical use, it would, we feel, cost more than the £200, but, nevertheless, the use of water—not only for its visual, but also for its physical properties—is a subject which deserves study.

Mr. Lehrman was one of the few students to make use of the back of the entry form for its proper purpose—sketches. We reproduce them below:



It amazed the assessors how few students availed themselves of the opportunity of sketching. We know that there has been a reaction against facile sketching, and some students are more interested in designing via the written word—by report and specification—but it was a shock to find that as few as one in ten made use of illustrations. That in itself suggests another subject for

study—although not, perhaps suitable for the AJ award: "What amount does the ability to express ideas in a sketch impede the architect and mislead and bamboozle the client." We are old-fashioned enough to say that the ability to put forward ideas in the form of sketches can be a very great asset, and that the occasional misuse of this power has never, as yet, outweighed its advantages. Of the other finalists, D. G. HATCH wished to study the "living-in" qualities of some recent modern housing schemes on the continent. To quote in part:

"To spend a few weeks in such places as the Neubuhl estate near Zurich, l'Unité d'Habitation at Marseilles, Bellini's flats in Italy, and Arne Jacobsen's Soholm terraced housing near Copenhagen, is with me an obsession. To stay with a family would be better, I would thus be obtaining first-hand information on the personal side of these buildings."

Obviously, such a study, carefully done, could be invaluable. However, there were several practical difficulties in arranging such visits, and the author would need to have a good knowledge of sociology to make the experiment really worthwhile.

Another student wished to study buildings abroad—there were a large number in this category but G. H. BROADBENT had discovered a pertinent slant. "When I have £200 for research, I shall use it to visit the great masterpieces of 20th Century Architecture to see what has happened to them. If there have been any changes for structural or aesthetic reasons, or if they have had their use modified, I shall want to know why.

"£200 will enable me to cover Europe quite efficiently, so I shall look at the work of Aalto, Asplund, Gropius, Le Corbusier, Mendelsohn, Mies, Perret and others. I want to know how right they were." Once again, however, the practical difficulties of such a study seemed insuperable, and the preparation of a full itinerary and a great deal of preliminary organization would have been necessary.

COLIN WARD wished to follow up some of the work done by Felix Walter, the Journal's Guest Editor. "In the large-scale redevelopment of housing sites in the past it has been considered a disadvantage not to start with a cleared site. But with the widening acceptance of the idea of mixed development-houses, maisonnettes and flats of various heights, it is doubtful whether it is necessary or desirable to demolish those buildings which are, or could be made, sound enough or handsome enough to form an integral part of the new scheme. The economic value of the rehabilitation of such buildings, their architectural value in maintaining the 'genius loci' or as a foil to the high blocks, and their civic value in preserving the sense of historical continuity and avoiding the monotony usually found in an area composed entirely of buildings of one period, must outweight the initial difficulties of planning this kind of really mixed development." This is now a familiar problem-or should beto most local authorities, and obviously it is good that more thought should be given to easing the position of worn-out areas to redeveloped estates, so that the genius loci is maintained. What this subject lacks in originality it makes up for in urgency. However again it is a very big subject for the scope of the award and it would be difficult for the author to be more than superficial in his study. I. F. DAVIES wished to produce an architectural film. "Realizing that our art is dynamic—that only when our buildings move and change, move to enclose, to form within the mind of man a continuous experience—that only then do our buildings become architecture—I feel that only by the use of the moving film can I complete my architectural education. And then by using the camera in the most difficult way-the moving camera as the moving eye. A film so produced could be of great value to other students, and I feel, might

v

in

in a ty to find ouse

cient

e our

artial sion, a the arge,

ence

ghly.

first has e of ized, the

of

t.

suggest a new approach to many others." Such a film could be an excellent destroyer of preconceived notions on architecture by new students and a most effective way of developing sensibilities. However we felt that to make such a film would need greater experience and equipment than the author had.

SYDNEY E. BELL wished to study the effect of atmospheric pollution on buildings. There were several other entries on similar lines, but this was the most effectively presented. The subject is not, of course, wildly original, but it is one which needs closer study. The creation of smokeless zones is one way of tackling the more extreme effects of pollution, but, so far as we know, no one has tackled the question of controlled staining. Mr. Bell wrote: "The destructive effect of atmospheric pollution on structures has been combated for years with varying degrees of success, but little attempt has yet been made to deal with this problem from the aesthetic aspect. Modern buildings seem to suffer far more than the buildings of preceding generations. This is undoubtedly due to the elimination of classical mouldings and the use of longer clear surfaces. I would like to make a detailed study of the causes of this staining and discover how they may be prevented, or even used to create architectural effects."

A study of staining would need considerable technical knowledge. Not only are there the causes and effects of corrosion to be studied, but most involved physical properties of moisture would have to be known. It would be doubtful, we felt, whether an architectural student could progress far without very considerable assistance from chemist or physicist—or both.

Another student, W. H. WALKER Wrote: "In order to further my architectural education I would like to study the use of advertising in architecture. It is a branch of architecture all too often ignored by the architect and usually finds itself included in or about the structure many years after its completion, as can be seen on shop fronts, railway stations, public buildings of all kinds, or crowded on to the local tobacconists or on hoardings which appear in the most unsuitable places.

"The advertiser has always had a fairly free hand and can hardly be blamed for wanting to further his business. That there is a need for advertising is obvious, that we must find a place for it in architecture must be accepted, where that place is, and what forms it should take are my reason for wanting to carry out research into the question," This is a familiar subject, particularly to readers of The Architectural Review, but one which is possibly sufficiently limited in scope to be tackled fairly effectively. Architecture and town planning are terms which are commonly interpreted as implying orderliness. Advertising, is, on the other hand, inherently disorderly in its nature. In its most common form it relies on being the biggest blot on the landscape—the only part of a facade out of step. The problem is whether the subject which demands man's appeal can be disciplined by the architect-planner and still remain effective advertising. It did not appear that Mr. Walker would be able to carry this study as far as we would have liked.

A large number of students wished to study prefabrication in building. Very few, however, had found any way of limiting the subject to manageable proportions. The zest and enthusiasm of students seemed enormous. Discretion was quite absent. One attempt at limiting the subject was made by J. C. HASKELL:—"Argument: Prefabrication is the great technical contribution to 20th century architecture, as industrialisation was to the 19th century, and the vault was to the Romans. Prefabrication is only attainable with standardized components; modules and grids require standardized dimensions. Standardization of all parts of building is a primary consideration today.

"Thesis: The great strides made today in prefabrication, have far outstripped an understanding of its aesthetic potentialities and limitations. Standardization will not create architecture of itself; it will give simplicity—a simplicity derived from the elimination of superfluities. Great architecture has simplicity—but from the masterly solution to a complex of problems. The two can only be equated to produce the architecture of the future, through a study and appreciation of the architecture of the past. In other words, a critical analysis of the uses of standardization and repetition in the past, will point the way to its aesthetic possibilities in the future, and help raise from a mere assemblage of building units, to the level of architecture.

"Method of Study: This would require two types of research: i. to investigate books, manuscripts and drawings; ii. to travel and make an actual study of buildings.

"This would mean not only travelling abroad to Italy, France, Germany and the Netherlands, but also extensively in this country; and not only the great cities of art such as Venice, Rome, Paris, Vienna or Amsterdam, but also small towns and villages with their unsophisticated architecture.

"It could well be broken down into several parts:

i. the elements, units or motifs used.

ii. the dimensions, proportions and modules governing the parts and

iii. the varieties of combinations of these, or as combined with other elements such as 'townscape' and landscape.

"In conclusion, from all this would be deduced the basic guiding principles governing their uses in the past, and suggested interpretations of them for the future."

Even so, as an interview made apparent, the subject had not been limited enough to be handled effectively within the financial limits of £200

There remain, then, amongst the finalists, two "builders." J. M. E. POTTER and E. J. W. MILLER each wanted to design and build a house. Mr. Potter wrote: "I should use the £200 prize as the initial deposit required to raise a mortgage for house purchase.

"Apart from solving my personal housing problem I consider that the work involved in such a project would provide experience of considerable value to my studies for the Final Examination.

"In my design, planning and choice of material and constructional forms I should need to bear in mind a predetermined price limit, a consideration all too seldom affecting students' design schemes. The preparation of the specification, obtaining quotations for p.c. sums, invitations to tender and preparation of a contract would provide first-hand experience of the administrative side of an Architect's Office and then, perhaps most valuable of all, would be site supervision, issue of Variation Orders, etc., and the personal contact between architect and builder which can mean so much to the smooth running of a contract.

"Finally there would be interim payments and the settling of final account, including agreement on price variations, extra works orders, etc., and the final maintenance inspection.

"Although the work would be on a comparatively small scale it would be a complete job from sketch design to completion giving a clearer picture of the work involved in a contract than could be obtained at a School or even as an assistant in an Architect's Office. Furthermore, any mistakes made would be to my own cost and inconvenience, thus the lessons learned would be learned more thoroughly."

Mr. Miller wrote: "I should use the £200 as a deposit on a dwelling which I am designing for myself.

"Ifeel that little progress has been made to date in this country in

designing thome (was furniture, or To effect floor area of the sp structural "As a res as if it was both very quate sur were not

Althoug Architec contribu

I have b of archi idyllic ar ideas in to judge descript me-and qualifies does no work of solid co Usually men, bu become idea istic readines demand by turn, ing the advisors fashion they-t run-ofblame buildin Their g and the this: ar ence to archite suggest gest tha by the than o Natura of the and s powers ant yo school labyrin to he tarnish

cynicis

not be

But, h

designing a living unit possessing all the essential requirements of a home (warmth, light space where one needs it, comfort, built-in furniture, etc.) at an economic cost (£1,000-£1,250).

far

and

self;

n of

only

tudy

ds, a

1 the

ture,

level

i. to nake

many d not na or

histi-

and

other

iding

reta-

been

imits

ers."

esign

£200

house

it the

sider-

tional

nit, a

emes.

p.c.

would

tect's

uper-

ntact

nooth

final

rders,

would

learer

ained

rther-

ience.

elling

try in

"To effect this economic cost I believe it is necessary to reduce the floor area to 750 sq. ft. and reconsider the basic fundamental functions of the space enclosed together with a thorough examination of structural requirements and finishes.

"As a result of this it may be possible to build a house which looks as if it was built in this century."

The assessors were very interested in both these schemes, and both very nearly got an award. However, £200 is a rather inadequate sum to use for launching such schemes, and the assessors were not convinced by the candidates that the practical difficulties

could be overcome. In the case of Mr. Miller, particularly, it would appear to be doubtful whether any building society would support any scheme of an experimental nature.

Because these building experiment entries were unsuccessful this time, it does not mean that another year similar entries will not win. It does suggest, however, that any candidate for the award who wishes to submit such a proposal should undertake an extra amount of preliminary research to ensure that the scheme is both practicable and worthwhile. A straightforward piece of designing and building—as Mr. Potter suggested—is not quite enough. If the design is conservative, and the construction traditional, the observation of the site work, at least, should be undertaken with a fresh, unconventional and candid eye.

Although Innes Taggart, part-time student of the Glasgow School of Architecture, was not placed on the final short list for his entry, we felt his contribution was well worth publishing in full:

I have been a student in a full-time school of architecture where the atmosphere is idyllic and contributive to fairly progressive ideas in design and structure. But if I am to judge from the great quantity of nondescript building which is going up around me-and I call it building-since it rarely qualifies as architecture, this atmosphere does not appear to exist in the everyday work of the average architect who form the solid core of the profession in this country. Usually they are not bad men or dishonest men, but they are typical in that they have become accustomed to thinking in a nonidealistic way, and show an almost pathetic readiness to compromise, in yielding to the demands of clients, insensitive and ignorant by turn, who would never dream of questioning the advice of their doctors or legal advisors, but who dictate in no uncertain fashion to their architects. I repeat that they-the average architects-are typical, run-of-the-mill, designers and theirs is the blame for the generally poor standard of building which desecrates the countryside. Their guilt lies chiefly in their lack of talent and their lack of honesty in acknowledging this; and worst of all, their blatant indifference to the examples set by the leading architectural figures of our time. I do not suggest we should copy, but I do suggest that we should be inspired and stimulated by those who can do things much better

Naturally, of course, the most evil aspect of the Average Architect is his restrictive and stultifying influence on the creative powers of those in his employ. Many brilliant young graduates from the architectural schools have disappeared into the tortuous labyrinth of the professional world, never to be heard of again. The ideals soon tarnish and the rot of disillusion and cynicism quickly establishes itself, and I am not being unusually bitter about this aspect. But, however much it smacks of pedantry

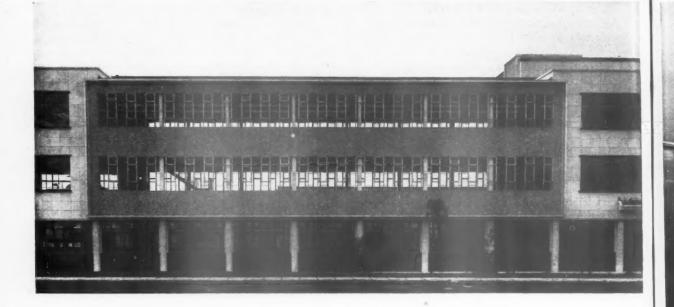
and the knight-in-shining-armour, this adherence to ideals is the key. An o.d, old story, of course, not only in architecture—ideals or bread—but, I sincerely believe, it is the gauge by which a man's future, integrity and perception as a creative architect must stand or fall.

The source of ideals is of course a matter of opinion, but, in the main, it must come from observation and study of the accepted best of all aspects of life-literature, music, sculpture, the graphic arts and architecture. At worst, such contacts provide us with some measure of escape from the dullness, restriction and unadventurous aspects of office routine at least. But of all the subjects mentioned above, none is less accessible surely than the accepted best of architecture of any period, even although it may be within one's own country. For most of us who work in offices and who are unqualified, as yet-both circumstances which suggest limited finances, incidentally-the great romance and adventure of architecture comes via the photographs in the glossy magazines from Britain, from America, from Italy and from Scandinavia. This "photographic" architecture is dangerous, as it induces a special state of mind, especially if we are at all impressionable and easily influenced. The great thing would be to be in and about the buildings we admire, to see them three dimensionally, which seems so elemental but which in fact is so remote to many students. Apropos of "atmosphere," one of the basic requirements of any work of art, I am assured, is unity. This word I have heard many times; I have accepted its truth and repeated it glibly in examination paper and discussion. Only once in my life, if I am to be quite honest, have I sensed this quality-in a room by Charles Rennie Mackintosh, here in Glasgow, in a large store which once contained much work by him, but which is fast disappearing at the hands of improvers. I cannot define

in actual terms what the unity of this room meant; I can only assure you that I sensed it completely and irrevocably by actually being in the room.

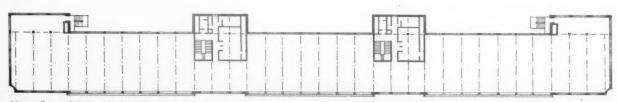
When I read the conditions of this competition, I knew I was doomed to failure because of the words "brilliant" and "unorthodox." Modest by nature, I cannot call myself brilliant; conventional by habit and environment I cannot attain to unorthodoxy in the sense that the context suggests. I even toyed with the idea of concocting an "unorthodox" idea, but my honourable instincts would not allow this. I decided therefore that "unorthodox" was, as far as I was concerned, something that was not usual for me; something outside my normal scope or past experience. I would like to see some of the buildings I have heard of but never seen, but buildings of my own time. Not that I have no interest in historical buildings; I have never seen and may never see-the Parthenon, but I have had it dinned into me that this is the "most perfect building" in the world. How can I know? Such subtleties as "not a right angle anywhere" and entasis are lost on me, unless I can look for myself. I must accept such statements on historical buildings, for how could I ignore the words of one of the great modern protagonists, Walter Gropius, on the subject-"To ignore the past is to deny the future "? But, in spite of this, contemporary build-

ings would claim my first interest. In this country, buildings like Powell & Moya's Pimlico flats-which I've never seen; the Hertfordshire schools-which I've never seen, and so .on. And to Scandinavia, especially Denmark and Sweden, surely the Mecca for architectural students whose horizons are often bounded by deed plans and the Dean of Guild; who know that somewhere architecture is exciting and adventurous, but never on their own door steps. Or am I too blind or too pessimistic? Lull me with the magic of the glossy magazine, and I see in Scandinavia the conception of architecture as I would have it everywhere-but the conception only, not necessarily the form; where beauty and utility in building go hand in hand unnoticed but appreciated, accepted and not a source of wonder and astonishment.



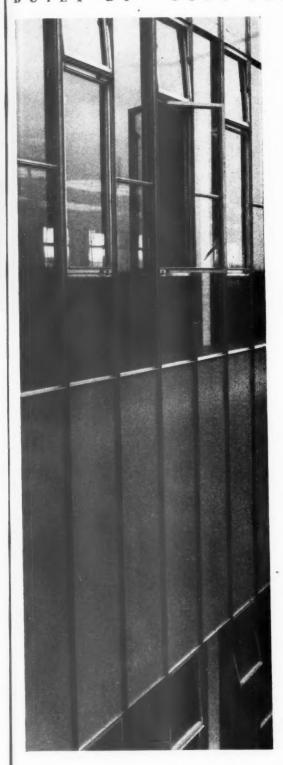
This new office block for the de Havilland Aircraft Company was designed by James M. Munro and Son. Covering a total area of 78,000 sq. ft., the building derives special interest from the fact that it was built under a form of contract evolved by the general contractors, Messrs. Bovis (Note: This form of contract was described in the JOURNAL of April 23, 1953; page 526). Under the terms of this contract the building owner appoints a quantity surveyor who makes an estimate based on the architect's drawings. The contractors then examine the priced bill and quote a fee which they intend to charge for carrying out the work. While the job is in progress the quantity surveyor has full access to all invoices and time sheets so that at the close of the job he is in a position to certify the actual nett cost. This, plus the fee agreed at the beginning, is the sum payable by the client. It will be noticed that this differs from the "cost plus" contract in that the contractor stands to gain nothing by an increase in the total cost of the work. Despite unexpected site difficulties, the job took only 13 months from sketch plans to

completion, a period of time which, it is claimed, would normally be required merely to begin work using the RIBA form of contract. The decision of the clients to adopt this "cost plus fixed free" contract influenced the architects in their choice of a major degree of prefabrication since the contract form allows early and close collaboration between the four main parties concerned. The plan of the building consists of a continuous three-storey range of office accommodation facing directly on to the Great North Road, short projecting spurs on the rear elevation marking the position of future extensions. These projections are reflected on the main elevation in the treatment of the facade, which presents four stone-faced bays connected by three links clad in Holoplast panels. Each panelled link is 100 ft. long × 28 ft. high. 2 ft. wide panels are in hammered stoveenamelled light-green pastel finish, and the alloy framing is a natural colour. The photograph above shows one of these links, the plan below shows the general layout and the details opposite describe the curtain wall construction.



Upper floor of design block. The block is 46 ft. 4 in. wide (stanchion centres) and 473 ft. long (overall). Steel stanchions are at 14 ft. centres.

FEE" CONTRACT "COST PLUS FIXED BY BUILT



n-

st

ice ws

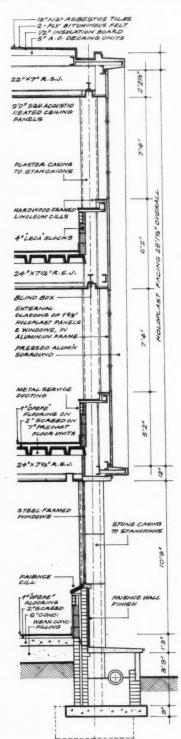
ies us to ans

he

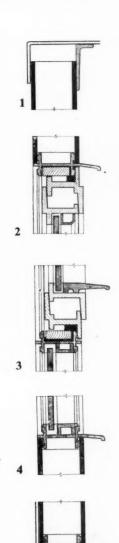
ee ft.

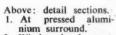
e-

aese ils





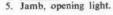


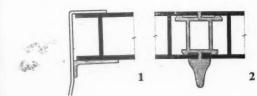


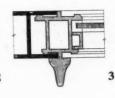
- Window head, opening light. Transome.

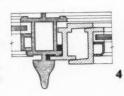
5

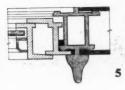
- 3. Transome.
 4. Cill, fixed light.
 5. At pressed aluminium surround.
 Below: detail plans.
 1. At pressed aluminium surround.
 2. Extruded junction between panels.
- tween panels. Jamb, fixed light.
- 3.
- 4. Mullion.











134! The Architects' Journal for July 29, 1954

SHOPS

in FRIARS STILE ROAD, RICHMOND, SURREY designed by ERIC LYONS

The private clients, for whom these shops at 19-23, Friars Stile Road, Richmond, were built, required a block of four lock-up shops and the upper part of the building to contain maisonettes with separate entrances from the rear. The site originally contained three terrace houses, which were damaged by bombs during the war.

The shops and maisonettes seen from the east.



No. 4

ove ove ove ove ove ove ove

Second fle

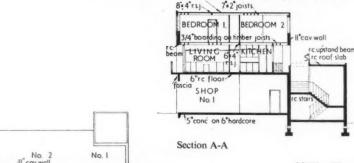
No. 4

ROC

First flo

ST

Groun



built up 3 ply bituminous felt roofing on 2 wood wool

No. 4

No. 3

No. 2

No. 1

BATHM
BEDR'M.

No. 2

No. 1

BATHM
BEDR'M.

No. 2

No. 1

If cox wall

BEDR'M.

BEDR'M.

Wall
No. 3

No. 1

If cox wall

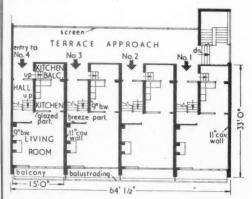
Second floor plan

red

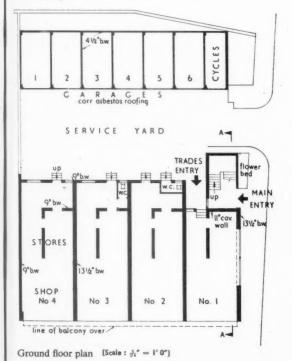
ate

ged

east.

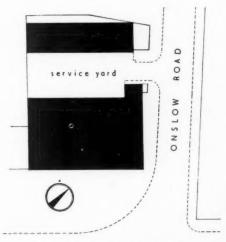


First floor plan



SITE.—The shops are in a small shopping street and the new block had to be planned on the same building line as the terrace houses on the west side. There is a scheme for the widening of the road, which would reduce the width of the present footpath. The rear of the site was required as a service yard and for the maximum number of lock-up garages.

PLAN.-The maisonettes were planned to be entirely separate from the shops, with their own staircase. Two are now occupied by tenants who are not connected with the shops below, which are owned by branches of a multiple grocer and multiple butcher, respectively. The approach terrace to the maisonettes is at a mezzanine level because the stores at the back of the flats do not require such a high ceiling as the display area on the road frontage. The terrace is designed to have a domestic scale and is screened by a high balustrade from the service yard and garages. Each maisonette has a service balcony on the same level as the living room and approached by a small stair from the porch. The separation of shops and maisonettes is further emphasized by the private balconies at first floor level, overlooking Friars Stile Road. The shopfronts were not designed by the architect and only a nominal control was exercised over their design.



FRIARS STILE ROAD



SHOPS

in FRIARS STILE ROAD RICHMOND, SURREY designed by ERIC LYONS

Above, the separate staircase block at the north corner of the building. This staircase leads to the maisonette entrances on the north-west side,





WORKING DETAIL

BALCONIES: FLATS IN LONDON, S.W.19

J. L. Martin, Architect to the London County Council; H. G. Gillett, architect-in-charge; A. P. Roach, assistant architect

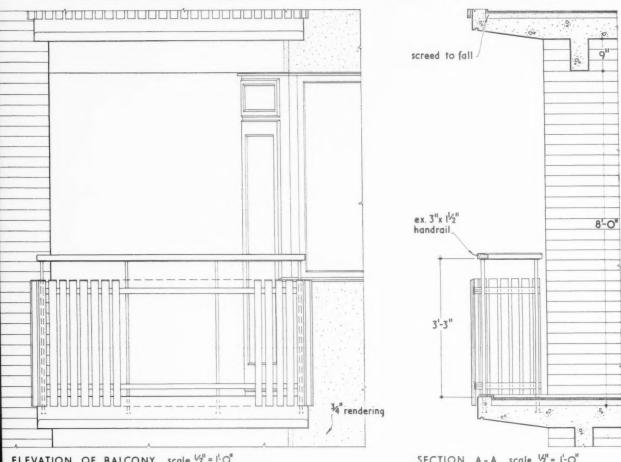
BALCONIES: 10



The balcony framing, comprising the uprights, the core to receive the handrail and the horizontals to receive the hardwood slats, was prefabricated in one piece. As this framing is sufficiently secured to the in-situ concrete floor it has no point of junction with the brick.

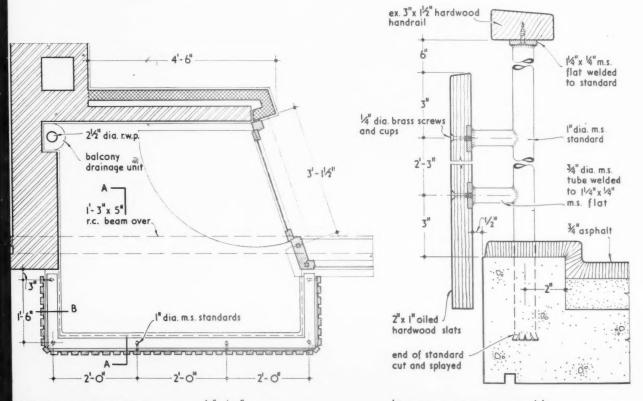
BALCONIES: FLATS IN LONDON, S.W.19

J. L. Martin, Architect to the London County Council; H. G. Gillett, architect-in-charge; A. P. Roach, assistant architect



ELEVATION OF BALCONY, scale 12 0"

SECTION A-A. scale 1/2" = 1'-0"



scale 1/2"= 1'-0" KEY PLAN OF BALCONY.

1/4 FULL SIZE DETAIL AT B.

WORKING DETAIL

PARTITION PANELS: OFFICES IN LONDON, S.E.1

John Lacey, architect; C. F. Timothy, associate architect

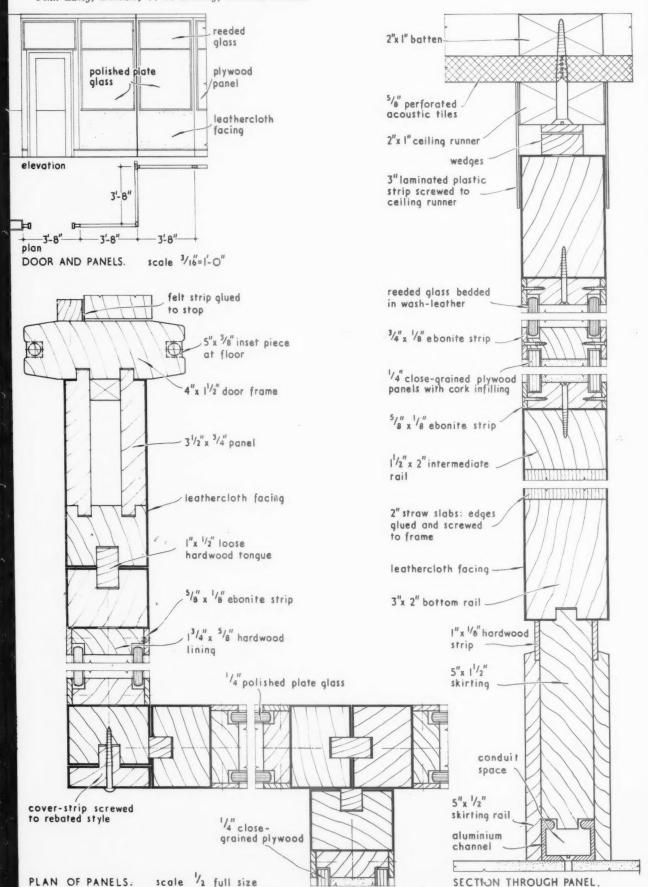


These demountable office partitions have been specially designed for their building and reproduce the standard skirting detail. So as to ensure that panels can be set up in any position without the need for cutting, the skirting is everywhere flush with the wall surface. Panels are framed in hardwood and are held in position vertically by wedging over the upright framing members, additional lateral support at the head being given by the stiff plastic cover strip. All visible woodwork is utile mahogany.

WORKING DETAIL

PARTITION PANELS: OFFICES IN LONDON, S.E.1

John Lacey, architect; C. F. Timothy, associate architect





constraint constraint

FINISH wood-wo under th The facin hanging backed v with plas on the fl and the The stain tiles. Fl r.c. slab wool qu receive internal plaster w choice.

> plastic fl between

Right, the separate staircase at the north corner of the building, which is entered from Onslow Road and leads to the maisonette entrances. Below right, typical maisonette entrance from the terrace approach. On the left is a door leading to the service balcony and

CONSTRUCTION.-The building is of brick loadbearing construction with 1312-in. party cross walls reduced to II in. thickness above first floor level. The first floor is of reinforced concrete and the second floor and roof are of timber, with the joists spanning between cross walls. The separate staircase block is also of brick and concrete construction. The second floor curtain walls on the south-east elevation are carried on r.c. beams spanning between cross walls.

FINISHES.—The roof is insulated with 2-in. wood-wool slabs over the joists, and the ceilings under the joists are plaster on insulation board. The facing of the second floor panel walls is tile hanging fixed to clinker concrete in-filling panels, backed with 1-in. wood-wool slabs and finished with plaster. Light-coloured facing bricks are used on the flank wall and the faces of the cross walls, and the rear wall is in smooth red facing bricks. The staircase block is faced externally with glazed tiles. Floors to living rooms are isolated from the r.c. slab by a board and batten floor laid on glasswool quilt. The shops were left unfinished to receive the tenants' finishes and fittings. The internal finishes in the maisonettes are generally plaster walls and ceilings, using wallpaper to tenants' choice. Kitchens and entrance halls have thermoplastic floor tiles. There is a reeded glass screen between each living room and kitchen.



SHOPS in FRIARS' STILE ROAD, RICHMOND, SURREY designed by ERIC LYONS





Ferryf 1944, airline

Above, typical maisonette living room on the first floor. The maisonettes are designed to be quite separate from the shops and two maisonettes are occupied by tenants who are not connected with the shops below. Right, the access terrace on the north-west side of the building. There is a tall screen on the right to conceal the service yard and garages below.

SHOPS

'in FRIARS STILE ROAD, RICHMOND, SURREY designed by ERIC LYONS

SERVICES.—Heating in the maisonettes is by a gas fire in living rooms, and electric panel fires elsewhere. Hot water is provided by an immersion heater. The contract price was £12,500, the cost per ft. cube was 39s. and per sq. ft. 4s. 3d.

The general contractors were The Eden Residential Construction Co., Ltd. For sub-contractors, see page 150.



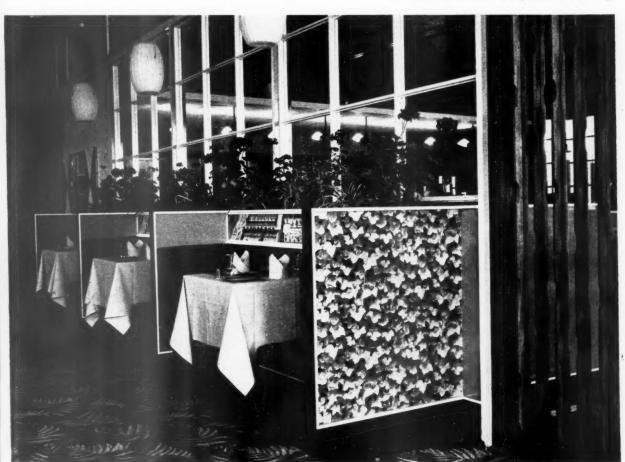
at LYDD, DUNGENESS, KENT

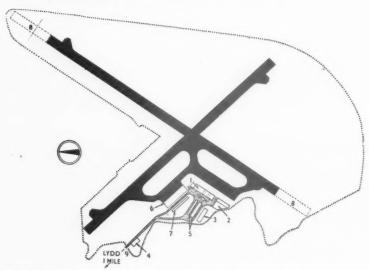
designed by Architects' Department, RICHARD COSTAIN, LTD.

interior decoration, JAMES GARDNER

Ferryfield Airport at Lydd in Kent is the first international civil airport to be built in this country since 1944, when work started on London Airport. It is also the first British airport to be built by a private airline, Silver City Airways, and the first in the world to be designed specially for vehicular traffic.

The restaurant at the south end of the terminal building.



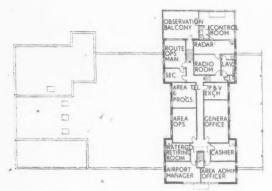


Site plan

- KEY
- I. Terminal building
- 2. Transit car park
- 3. Site for motel
- 4. Service station
- 5. Spectators' car park
- 6. Site for hangars
- 7. Workshops
- 8. Proposed runway extension
- 9. Private road

AIRPORT

at LYDD, DUNGENESS, KENT
designed by Architects' Department, RICHARD COSTAIN, LTD.



First floor plan

SITE.—The site, which has an area of 246 acres, is 9 miles from Lympne airport and is no further away than Lympne from the Le Touquet terminal -47 miles by air. Other considerations in the choice of site were that it was required to be at sea level with unobstructed approaches; that it should have good road and rail access facilities and also a good average weather record. At Lympne, where Silver City began operating exactly six years ago, flying has been frequently interrupted by the ground becoming waterlogged and by bad weather conditions. Lympne is 350 ft. high; the cloud base is therefore much nearer to the ground. Ferryfield is one mile east of the town of Lydd, 72 miles from London. The site allows for later expansion if required.

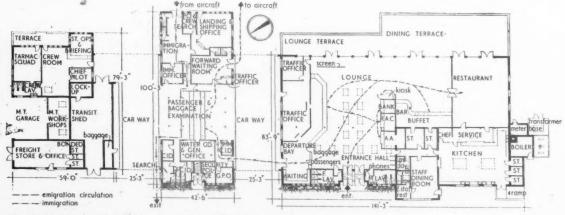
PLAN.-The new airport comprises two hard runways, an administrative and terminal building, car parks, workshops, service station, licensed bar and restaurant. It is proposed to build a motel to open in the Spring. Later, hangars will be added to allow part of the aircraft maintenance to be transferred from the company's present overhaul base at Blackbushe. There are two hard surface runways with the conventional "X"-shaped plan. The principal runway is 120 ft. wide and has an effective operational length of over 4,050 ft. The second runway has an effective length of 3,500 ft. The runways were constructed to suit the operation of the Bristol aircraft at present used on the ferry service. After an extensive survey and laboratory tests had been carried out by the general contractors to ascertain the best type of construction for the runways, a comparatively new method, that of soil cement stabilization, was decided upon. The choice of this method meant that the materials required, except cement and bituminous products, could be obtained within the perimeter of the airfield. During the construction of the 11 mile private road to

the aero excavate form a b gravel it ventiona were ob mounted engines. 9-in. la spread i ing equ hydrate compac reasona it was cost of method months The te 100 ft. and tr custon two-ste tunnel

flying-

buildi

IO ft.



Terminal building, Ground floor plan [Scale: 1," = 1'0"]



Above, the terminal building seen from the south-east. Right, part of the north-west facade of the terminal building. Bottom, cars and passengers after arriving from Le Touquet in a Bristol aircraft.

ther

by

run-

and

pen l to ansbase unlan. an The

ft.

tion

erry

tory

tors

the

soil

oice

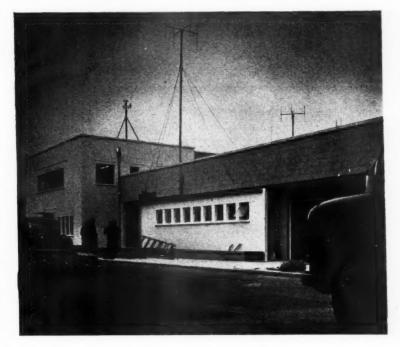
red,

be

ur-

d to

the aerodrome 1 million cub. yds. of shingle were excavated and placed on the line of the runways to form a base. Owing to the peculiar nature of this gravel it was not possible to compact it by the conventional method of rolling, but equivalent results were obtained by using steel sledges on which were mounted high frequency vibrators, driven by diesel engines. The completed base was topped with a 9-in. layer of selected gravel. Cement was then spread mechanically over the surface. The stabilizing equipment sprayed the ground with water to hydrate the cement, mixed the cement in situ and compacted the mixture to form a dense mass with a reasonably level surface. When the paving had set it was finished with a coat of tarmacadam. The cost of this method is considerably less than normal methods and aircraft were operating less than five months after work on the runways commenced. The terminal building, which is 300 ft. long and 100 ft. wide, accommodates all the administrative and traffic facilities of the airport, as well as the customs and immigration formalities. The central two-storey portion, between the entrance and exit tunnels for cars, contains offices and radio- and flying-control sections. The remainder of the building is single storey, with a ceiling height of 10 ft.

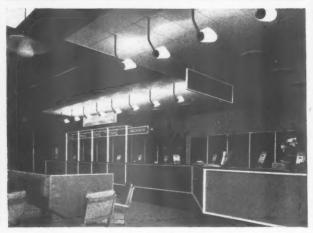












AIRPORT
at LYDD, KENT
designed by the Architects' Department, RICHARD COSTAIN, LTD.

Top left, the main lounge in the terminal building seen from the restaurant. Top right, the north-east corner of the main lounge. Above, left, part of the restaurant. Above, traffic control desks.

CONSTRUCTION.—The terminal building is steel framed with roofs carried on light trussed beams supported by boxed channel stanchions. External walls are of cavity construction with an outer skin of 4 in. and inner skin of 3-in. precast concrete blocks. The ground floor is of concrete and the first floor of timber joists.

FINISHES.—Roofs are of 3-in. woodwool slabs finished with built-up bitumen roofing, walls are finished with cement paint and internally with distemper or emulsion paint. Floors are covered with linoleum in the main concourse and carpeting in the restaurant. The first floor has linoleum on boarding. Windows are metal, some purpose-made and some standard.

SERVICES.—The ground floor is heated by floor panels served by an oil-fired boiler and there are radiators on the first floor. Hot water is provided by individual electric heaters.

The work at Ferryfield has taken less than six months to reach its present stage and the cost has been about £250,000.

The general contractors were Richard Costain Ltd. For sub-contractors see page 150.

TECHNICAL SECTION

A side line in every annual report of the Building Research Board which has a certain lugubrious interest to architects is the odd references, that are made to the wearing qualities of samples of old building materials which have stood the real and not the simulated test of time. In the new report (Building Research 1953, HMSO, 3s. 6d.) reference is made to some mastic asphalt tanking (50 years), asphalt roofing (20 years), bituminous roofing felt (21 years) and a copper d.p.c. (18 years). It must be recognized at once that evidence of this kind is no more than a straw in the wind, for so many special circumstances bear on each case; and particularly do we have to be cautious where the specification of the original sample differs from the specification of its counterpart today. Thus in the case of the asphalt roofing quoted above, which began to give trouble after 10 years, it was found that the asphalt was initially too hard and would not comply with today's BS. The asphalt tanking, however, was unimpaired through two-thirds of its thickness, with a loss of bitumen through leaching where it was in contact with the earth. Of the roofing felts (which were single layer) five out of six were unimpaired but the sixth had lost its coating and its strength had been reduced by half. It was pointed out, however, that this relatively good record was due to their being in a north slope; comparable samples in a south slope had long since been replaced. Lastly the copper d.p.c. (which was 24 s.w.g.) was found in good order with pitting nowhere greater than 10 per cent. of its thickness. But the BRS add the warning that a lesser thickness should not be used for this purpose.

This week's special article

嗯

main

rant.

n on

made

floor

are

rided

six

has

Ltd.

27 FURNITURE AND FITTINGS design of hospital furniture and equipment

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

In 1948 the Nuffield Provincial Hospitals Trust set up their Division of Architectural Studies to carry out research into all aspects of Hospital Design. In the Journal of November 15, 1951 the Director of this Division, Richard Llewellyn Davies, discussed the planning of hospital wards. This week the same author discusses the design of ward furniture and equipment. His text forms part of a paper on "Design in the Hospitals and Health Services" given at the Scottlish Design Congress held in Edinburgh in May this year.

To most people the word "ward" will conjure up a fairly definite picture, that of a long room with a row of tall windows on either side. A vista of beds stretches away, each with its head towards the outside wall and its foot towards the centre aisle. Each bed contains a patient whose wants are ministered to by nurses going to and fro. This is, however, no longer a true picture. Things have changed a good deal in recent years, in one respect very strik-

ingly: patients nowadays are out of bed for much of the time they are in hospital. One of our early studies made by the medical member of the team [Goodall, J. W. D. Early Ambulation. A survey of Hospital Practice, Lancet (i) 1951, 43.] was directed to discovering how many patients on the average were bedfast—that is wholly dependent on nursing;—how many partially ambulant—that is well enough to go to the lavatory and wash themselves—and how many were



Fig. 1 (above). Washbasin designed by the Nuffield Research Unit. Fig. 2 (right). Swiss washbasin used in the University Hospital at Zurich.



fully ambulant—that is out of bed for the major part of the day. The results of this survey in a general surgical ward of 155 patients and a general medical ward of 167 patients are shown below:

GENERAL SURGERY : 155 PATIENTS

Category	Bedfast	Partially Ambulant	Fully Ambulant
Actual regime	50·3	20·0	29·7
Early ambulation	16·4	35·0	48·6
GENERAL MI	EDICINE	: 167 PA	TIENTS
Actual regime	53·3 €	24·6	22·2
Early ambulation	25·7	28·3	46·1

Two sets of figures are shown, one for the actual regime when the survey was made in 1951: the other headed "early ambulation "shows the numbers in each category anticipated if the present tendency to get patients out of bed earlier becomes established, as there seems every reason to suppose it will. These figures are striking and their bearing on the design and equipment of wards is obvious. Even today only about half the patients are bedfast and this proportion may well drop to about one-quarter before long. Thus three-quarters of the patients in general wards will be able to go to lavatories, and that old bugbear, the bedpan, is a diminishing problem. Designers who are engaged on developing ingenious solutions, such as beds with built-in w.c.s., are wasting their time. On the other hand, the partially ambulant patient must often be taken to the lavatory, or to wash, on a wheeled chair. Considerable numbers of these chairs are going to be needed in hospitals from now onwards and the

development of good designs for the purpose has only just begun. Again, the large number of patients, nearly 50 per cent, who are fully ambulant should have their meals served at a table adjacent to the ward kitchen. Today, in some wards, they have to get back into bed in order to have lunch. In the future there will be an increasing market for normal domestic furniture for the use of ambulant patients in wards. Many more washbasins and w.c.s are now required for patients' use.

BUILT-IN SANITARY EQUIPMENT

Taking fixed equipment first, the most important items are washbasins, w.c.s, bedpan washers, sinks and sterilisers.

Hospital washbasins must have as simple a shape as possible without ledges or crannies. They should also be so designed as to be usable by patients in wheeled chairs. Basins are manufactured specially for hospitals and some of the designs are excellent. They also cost anything from twice to four times as much as the normal basins made for putting into houses and flats. I am not quite clear why this should be so and I think that the ordinary domestic basin would probably be the better for being simpler and having fewer nooks and crannies.

W.C.s for the use of ambulant patients have to be fairly close to the beds. For this reason it is important that they should be quiet in action. We have recorded the noise made by a considerable variety of w.c.s, both the normal type and the syphonic closet. The noise made by flushing varies from about 64 db to 71 db, and probably there is not much chance of reducing this by design. Syphonic closets were a little disappointing in that while the main flush

was conducted discreetly, most of them emitted a loud gurgle at the end. Apart from the flushing noise, the operating levers are very noisy, indeed, noisier than the flush. There seems no reason why this mechanism should not be designed so as to be almost silent and if this were done, perhaps the most irritating noise made by w.c.s would be reduced or eliminated.

The sluice room of a modern hospital nearly always includes a bedpan washer. These machines are noisy, and very ex-The noise made by closing pensive. the machine is generally 90 db to 100 db, which is equivalent to the noise level in a boiler factory. For reasons which I have already given, bedpan rounds are likely to become a less important part of hospital routine. Accordingly, hospitals look critically at the expense when it comes to installing bedpan washers, and there would certainly be a ready market for cheaper and simpler equipment if it could be devized. Sterilizers are generally provided in ward duty-rooms for sterilizing instruments, hypodermic equipment and bowls. They may also be required in ward kitchens for sterilizing crockery and in sluice rooms for sterilizing bedpans. Generally their design is, in the terminology of Lewis Mumford, "paleotechnic." They are surrounded by knobs and pipes with protruding elbows. They can sometimes be built in but this is an expensive procedure and is apt to render maintenance difficult. A somewhat similar problem has been met by the designers of domestic washing machines who have managed to produce tidy-looking, enclosed units which are nevertheless easily accessible for maintenance. It is perhaps worth taking note of a general trend towards bulk sterilization of equipment centrally in autoclaves. This will tend to reduce the demand for local sterilization by boiling water.

THE HOSPITAL BED

The most important piece of furniture in the ward is the patient's bed and a great deal of thought has been devoted to the design of hospital beds, both in this country and abroad. In modern hospitals in Sweden and Switzerland, and in some hospitals here, it has been made a principle that every bed should be fully mobile and that when patients are moved to the theatres or X-ray department or elsewhere, they should be wheeled in their own bed rather than be transferred to a trolley. This is probably desirable from the point of view of the patients' comfort, but it must be remembered that it will mean providing very wide doors and passageways as hospital beds are generally about 3 ft. wide, whereas trolleys are 2 ft. In Sweden the hospital bed is now more or less standardized after a long period of research



USE MORE

nem part

ting

isier ison deid if itat-

her.

exsing to oise

pan im-

ine. ally stalould per be proilizuipbe ilizfor heir wis are with meoen-

what the ning pro-

inits sible orth ards cend to liza-

bed been beds, In wite, it very

that atres they bed lley. the fort,

will

and are reas hosstanarch SOFTWOOD

Hour order to PHOENIX

RAINHAM - of course!

THE PHOENIX TIMBER CO. LTD. FROG ISLAND NEW ROAD RAINHAM ESSEX

Ferryfield-Lydd

Modern AIRFIELD CONSTRUCTION BY COSTAIN

Construction of the new Silver City Airfield at Ferryfield, Lydd, was entrusted to the Company comprising two runways, terminal buildings, restaurant, Customs buildings, and petrol installations. From survey of the site to completion of airfield has taken six months which sets a new standard in rapid construction.

SILVER CITY AIRLINES

new airfield Ferryfield Lydd Kent COSTAIN

IMITED

BUILDING AND CIVIL ENGINEERING CONTRACTORS

DOLPIN SQUARE, LONDON, S.W.I. VICTORIA 6624 BRANCHES 'MIDDLE EAST ' RHODESIA ' NIGERIA



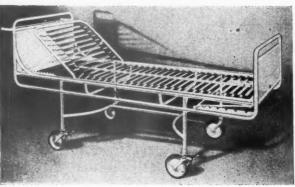
Fig. 3 (Fig. 4 (Fig. 5 (inylon and

and do
is a
wheels
adjusta
positic
socket
equipm
nursin
equipm
This i
acutel
given
must
treatm
tion.
can b
has to
carryin
The S
bed, i

costs standa this c







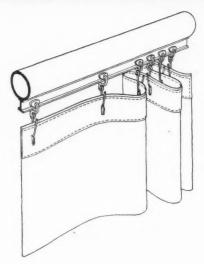


Fig. 3 (top). Swiss hospital bed with adjustable head and foot.

Fig. 4 (above). Swedish hospital bed.

Fig. 5 (top right). Hospital bed designed by the Nuffield Research Unit. Fig. 6 (right). Curtain equipment designed to reduce sound. The gliders are nylon and the rail duralumin.

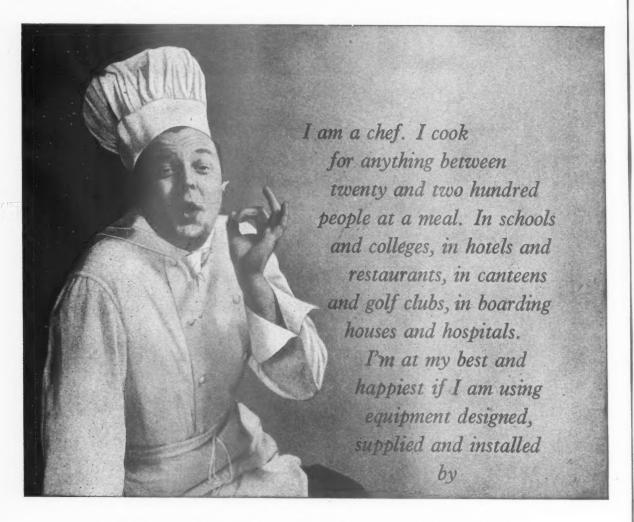
and development. This standard bed is a magnificent thing with large wheels, brakes and with a mattress adjustable to a considerable variety of positions. It is also provided with sockets to hold standard pieces of equipment needed for medical and nursing purposes. In this way such equipment can be carried with the bed. This is very valuable. For instance, acutely ill patients today are often given intravenous saline drips and must often continue to receive this treatment on their way to an operation. Unless the necessary equipment can be attached to the bed, a nurse has to walk beside the patient's bed carrying it throughout the journey. The Swiss bed and a similar Swedish bed, illustrated in Figs. 3 and 4, are expensive. Even in Sweden, where costs are cut by standardization, the standard bed still costs £25 to £30. In this country we must probably look for something rather cheaper. Mobility is undoubtedly important—good large wheels and brakes are essential. What is perhaps unnecessary is the elaborate mechanism by which every continental bed allows the shape of the mattress to be adjusted. The need to nurse all patients in special positions is no longer considered so great as it was some time ago. The height of the bed is important. The height which gives the greatest convenience for nursing and is therefore suitable for the bedfast patient is about 27 in. measured from the floor to the underside of the spring mattress side rails. This is too high for an infirm ambulant patient to get in and out of with any ease. Hence it would be very desirable for hospital beds to be adjustable in height. A bed adjustable to mattress levels 27½ in. and 174 in., has been designed, and will be used in our experimental wards. Patients' lockers in a wide range of

designs are on the market and recently a British Standard design has been pre-

pared. Some lockers incorporate a table, others a stool. Most have the defect that a patient in bed cannot reach the lower compartments and has to ask a nurse to get him anything he wants out of them. The Investigation is at present designing a locker in which all the compartments are easily accessible to the patient.

CURTAIN AND DOOR FURNITURE

The drawing of curtains and the wheeling about of screens are an irritating source of noise in wards. Screens are now being generally replaced by bed-curtains, primarily as a laboursaving measure. When the curtains are briskly drawn, there is a tremendous clatter, unless the runners and track are specially designed for silence. This can be done and there is at least one fairly silent track on the market today (see Fig. 6). Another major cause of noisiness is door-banging. In a sound survey made not long ago, we



This can

desig

beca

latio

Ho

FALKIRK

If you have any sort of catering problem, let us solve it for you, at competitive prices. Please write to:

The Falkirk Iron Co. Ltd.

Office and Showrooms 18 Dering Street,
Hanover Square, London, W.1

or 40 Hanover Street, Leeds, 3; or Falkirk, Scotland



lxvii



Fig. 7. Detail from the Numera Dagnoss.
at Corby, showing a washbasin, silent door closer and
arm operated handle.

counted 300 loud door-bangs per hour. This banging is quite unnecessary and can be eliminated by an appropriate design of the door closers and latches. There are fittings on the market which enable the door to close silently and most hospital doors are fitted with them in Continental countries. They are less universally used here, perhaps because with some of them the door is not always effectively held shut against a powerful draught, although we are now coming to believe that good ventilation does not necessarily involve having a small gale blowing through the ward.

Hospital doors must sometimes be opened and closed by nurses who are already "scrubbed up." This means that they must be provided with a handle which can be operated by the arm. A handle for this purpose, designed for use in our experimental buildings, is shown in the photo above. useless to provide doors with any kind of fixed closer to rooms such as ward kitchens, where the traffic is heavy. The irritation of opening and closing them is such that they are always wedged fully open in practice. Noise and, perhaps, smell from these rooms are then free to come into the rest of the ward. It is therefore best to fit these rooms with double-acting swing doors which can be pushed open in either direction. These doors of course do not fit tightly and are not wholly effective barriers to noise or smell. Nevertheless, they are better than a door which is permanently wedged open.

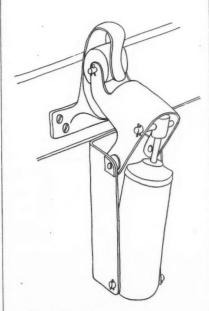
A great variety of objects are transported around the ward on trolleys and this traffic is a source of considerable noise. The design of the trolleys can minimize this. Soft rubber wheels are essential and rubber-topped shelv- | Fig. 8. Silent Door closer.

ing would reduce the rattle and clatter of bottles and bowls.

ARTIFICIAL LIGHTING

Lighting conditions in a ward, both natural and artificial, are of great importance to the patients' comfort. The design and placing of the windows and of the fittings for artificial lighting require careful consideration.

Let us take artificial lighting first. To start with, it must be expected that the normal type of lighting suitable for homes or offices is generally quite unsuitable for hospital wards. This is partly because ill patients are less tolerant of glare than healthy persons, and partly because the patient is often and party because the patient is often immobilized in bed, looking upwards towards the ceiling. Thus bright fittings at, or near, the ceiling should never be used. Briefly the requirements for ward lighting are that the working area of the ward between the beds needs to be fairly brightly lit, perhaps to about 10 lumens/sq. ft. This bright zone should be cut off at or near the foot of the bed. Beyond this point the lighting should be subdued, perhaps to about 3 lumens/ sq. ft. The fittings used to light the centre aisle should be effectively screened from the patients' line of vision. Some spread of light upwards to the ceiling is permissible but the ceiling brightness should be kept fairly low, and bright patches on the ceiling immediately above light fittings should be avoided. In addition to this general lighting the patient will need a local lamp for reading. This lamp should be adjustable to suit the patient's needs and its switch should be under his control. Movement should be limited so that the light cannot shine in the face



of the patient opposite. For the same reason, it should have an opaque shade, concentrating light in the immediate neighbourhood of the patient using it. Quite a low-powered light bulb should be used-not more than 40 watts. Today there is no wholly satisfactory fitting either for central lighting or for patients' bedside lighting on the market. With the help of the Building Research Station and the manufacturers, we are developing prototype fittings, one of which is illustrated in Fig. 9.

The switch by which the patient controls his light is usually on the wall

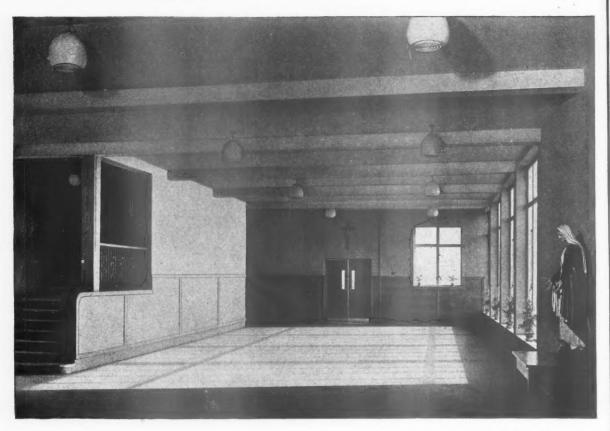


Fig. 9. Ward type opaque cylindrical light fitting developed by the Nuffield Investigation and B.R.S.

behind his head, located in a panel which also has a knob controlling his radio. It is often very difficult indeed for a patient to reach back past the head of his bed to operate switches on a wall. We have therefore suggested that a control box containing the patient's bell button, light switch and radio knob should be developed, and a prototype has already been produced. This box is on a flexible cable and can be laid on the patient's counterpane on his bedside locker in easy reach of his hand. The whole assembly, box and cable, can be sterilised in a hot air oven whenever necessary.

DAYLIGHTING AND COLOUR

Daylighting is a matter partly of window design and partly of the colours used in the decoration and finishes. In the old-fashioned pavilion ward with tall windows between every bed, ample light was available. Indeed, from the patient's point of view, the light was sometimes excessive. When sitting up in bed, he faced a row of bright windows and could not turn away from the light. In modern hospitals, the problem is



St. Mungo's J. S. School, Falkirk.
A. J. Smith, A.R.I.B.A., County Architect, Stirling.



For dignity, integrity and ability to withstand the hard wear of school and public life, "Royal Flush Doors" are the first choice of a rapidly expanding

list of important architects. Their record of service over the past 20 years enables us confidently to guarantee every "Royal Flush Door" unconditionally. Send now for details, specifications and prices.



HEAD OFFICE: BOLD SAW MILLS, WIDNES.

BRANCHES AT: LONDON, GLASGOW, MANCHESTER, DUDLEY, HANLEY, BRISTOL AND KETTERING

Fig.

diffe gene wind that dire wish raise

that too

are

sign to s

mer

whi

(see

from

into

surf grea If t the and reas bets trib

greach

Red eng Sta

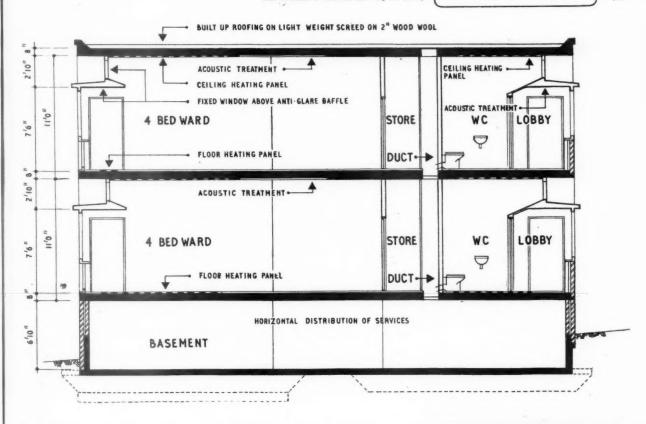


Fig. 10. Section showing the use of baffles at the Larksield Hospital, Greenock. These provide a more even gradient of light intensity from window wall to centre of ward.

different. The patients' beds are generally placed parallel to the window wall. This is advantageous in that the patient does not face the light direct and can turn away from it if he wishes. On the other hand, this layout raises problems of light distribution in that the bed closest the window may be too brightly lit, while those further away are in comparative darkness. The design of the window can do something to solve this problem. In the experimental ward block now under construction at Greenock, we are using a design which incorporates a horizontal shelf or baffle about 7 ft. above ground level (see Fig. 10). This baffle cuts off the light from the higher part of the window from nearby beds, but allows it to penetrate into the depth of the ward.

The overall reflection of the internal surfaces, walls, floors and ceiling, is of great importance for good daylighting. If this reflection is high, daylighting at the back of the room is greatly improved and the total window need not be unreasonably great. The floor and ceiling, between them, make the greatest contribution to reflected light. Ceilings are normally white or light coloured, but floors are often dark. In any deep room great improvement in lighting can be achieved by the use of light floor finishes. Recent research on which we have been engaged with the Building Research Station has shown that what matters is the overall reflection of all the surfaces in the room. So long as this is high, as it will be if the floor and ceiling are both light, then strong, dark colours can be used on some of the wall areas without making the room dark. This opens the way for much bolder schemes of decoration than have been customary in the recent past. It also means that the designer of colour schemes should always work with the reflection factor of the various colours and finishes in his mind. Fortunately, he now has the means for doing so in the Munsell system of colour classification which provides a scale for all colours from which the reflection factor can be taken. Several leading paint manufacturers are already engaged in making paints in colours selected from the Munsell range and for which Munsell classifications are available.

In considering hospital colour schemes, the main problem is the balance between neutral, soothing treatment and the need to provide something a little more exciting and stimulating. Generally it is best that areas in the patients' immediate field of vision should be fairly neutral. Areas a little further away or to one side of the patients' field of vision can, however, very well be treated with brilliant colour and the use of white, and limited areas of black, adds sparkle and gives depth to the other colours. It is time to get away from the timid, pastel colour schemes which still persist in most hospitals.

INFORMATION CENTRE

A digest of current information prepared by independent specialists; printed so that readers may cut out items for filing and paste them up in classified order.

15.120 materials: finishes

CHURCH LIMEWASHING

Limewash for Church Decoration. (The Decorator, July 15, 1954.

The Central Advisory Council for the care of Churches advises the use of limewash decoration on old churches. This brief article deals with Mediæval Precedents, Preparing the Limewash and application.

16.110 materials: stone

GRANITE

Stone for the Rebuilding of Cities. (Building Digest. July 1954.)

Three-page illustrated article on Granite. Useful in giving information on sources and description of the various types of Granite found in Great Britain with a note of some old and new examples of their use.



For good looks and long life plan for



LINOLEUM

"THELMA" stands for The Linoleum Manufacturers' Association, 127 Victoria Street, London, S.W.1.

For further information write to the Association or to any of the following members:—

BARRY OSTLERE & SHEPHERD LTD., KIRKCALDY · DUNDEE LINOLEUM CO. LTD., DUNDEE · LINOLEUM MANUFACTURING CO. LTD., 6 OLD BAILEY, E.C.4 · MICHAEL NAIRN & CO. LTD., KIRKCALDY · NORTH BRITISH LINOLEUM CO. LTD., DUNDEE SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY LTD., FALKLAND, FIFE · JAS. WILLIAMSON & SON LTD., LANCASTER

16.111 PRIMIN

Report practice primer enough that th hard ar pears to advanta ing coa The pa recomm using th type p there is where must t normal

> 16.11 PRIMI

> > Brief

(This Digest

primers
over in
cement
lime.
betwee
The la
backgr
primer
out to
the pr
The te
is co
DEF

24.17 COLO FLUO

Fluore Field. Revier This ment refere selves seen t growilamps stallat both arrang of the object cent 1 prominew tioned

" Wan

16.111 materials: miscellaneous PRIMING ON KEENES PLASTER

The Priming of Plasters. S. W. Mack. (The Paint Manufacturer. 1954, Vol. 24, No. 2.)

Report of lecture dealing with traditional practice of giving a "sharp" coat of primer on new plaster as soon as hard enough to take the brush. Old idea was that this practice had been adopted in order to get better adhesion for paint on a hard and smooth plaster surface. This appears to be incorrect. There may be some advantage in the quick application of priming coat in that it restricts the drying out of a slow-setting plaster, but there are dangers. The paper discusses these. Although a firm recommendation is not made, it appears that the author doubts the advisability of using the early priming technique on Keenes type plasters. On hemi-hydrate plasters there is no point in using it. In any case, where early priming is used the plaster must then be left for sufficient time for normal full drying out to be completed before the further paint coats are applied. (This subject is also dealt with in BRS Digest No. 67, June, 1954.)

16.112 materials : miscellateous PRIMING PAINTS

Alkali-resistant Primers. BRS Digest No. 67. (HMSO, June, 1954. 3d.)

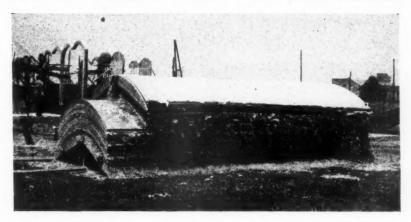
67. (HMSO, June, 1954. 3d.)
Brief note on use of alkali-resistant primers to prevent attack on paints applied over materials such as concrete, asbestos cement, rendering, and plasters containing lime. An important differentiation is made between porous and impervious primers. The latter should not be used over a damp background material. If the porous type primer is used—in order to allow drying out to continue—then the paint on top of the primer must also be of a porous type. The testing of primers for alkali resistance is covered by Defence Specification DEF 1053 (Method No. 18).

24.171 lighting COLOUR RENDERING UNDER FLUORESCENT LIGHTING

Fluorescent Lighting: Widening the Colour Field. A. G. Penny, F.I.E.S. (Electrical Review, Feb., 1954.)

This article briefly describes the development in fluorescent lamps with particular reference to the colour of the lamps themselves and the colour rendering of objects seen under them. Reference is made to the growing practice of mixing both fluorescent lamps and tungsten lamps in the same installation in order to take full advantage of both types of source. In the past with this arrangement, the differences in the colour of the lamps and the rendering of coloured objects have been a problem. New fluorescent lamps have now been developed which promise to overcome this difficulty. Two new types of lamp are specifically mentioned in this connection, a modified "Warm White" of high efficiency intended for general commercial and industrial use and a "De Luxe Warm White." The latter

PRECAST BARREL VAULTS AND END FRAMES



In Bogota, Columbia, the precasting of end walls and small span barrels has proved to be an inexpensive form of single-storey factory construction. Forgetting the labour and material conditions in Colombia there seems every reason to believe that this form of construction would be equally successful here. The factory structure consists of small barrels supported on external precast end walls and internal precast reinforced-concrete frames shaped to the contour of the barrels. The saving in cost is achieved by the small amount of formwork employed. Both end walls and roof barrels are formed by placing only one mould on the ground and concreting as many as 35 units one on top of the other separated by paper. By using the vacuum process 4 barrels and 6 end frames can be cast in a day. Designer of the system is Dr. Alvaro Ortega of Vacuum Concrete of Colombia. For further information see "Engineering News Record," November 19, 1953, pp. 61, 62.



is said to give a particularly close match with tungsten lighting and is likely to prove extremely useful where users wish to combine it with tungsten sources without pre-

judice to the appearance of the decorations. It is considered to be appropriate for such places as hotels, restaurants, cinema foyers, and large stores.

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

29.7.54

Buildings Illustrated

Design Offices at Hatfield Aerodrome for the de Havilland Aircraft Co. Ltd., Hatfield, Herts. (Pages 132-133.) Architects and Services Consultants: James M. Monro & Son. Quantity Surveyors: A. L. Currie & Brown. General Contractors: Bovis Ltd. Sub-contractors: precast floor units, Trussed Concrete Steel Co. Ltd.; stonework, Empire Stone Co. Ltd.; stonework, Empire Stone Co. Ltd.; wood block flooring, Hollis Bros. Ltd., ceiling panels and heating, K. C. Menzel (Heating Engineers) Ltd.; metal windows, Crittall Manufacturing Co. Ltd.; glazed tiling and terra cotta work, Shaws Glazed Brick Co. Ltd.; cellular plastic wall cladding, Holoplast Ltd.; patent glazing, Helliwell & Co. Ltd.; asbestos decking and aluminium cladding, Brock Roofing, Ltd., S. W. Ronald (London) Ltd.; pressed steel stairs, Frederick Braby & Co. Ltd.; lifts, Marryat & Scott Ltd.; pressed steel tanks, Braithwaite & Company Structural Ltd.; waterproof screeding and rendering, Quickset Water Sealers Ltd.; felt roofing and insulation board underlay, William Briggs & Sons; electrical works, Electrical Installations Ltd.; roof lights, Girlings' Ferro-Concrete Co. Ltd.; plastering, James Nichol Ltd.; glazing, Aygee Ltd.; tiling and terrazzo, Zanelli (London) Ltd.; ventilating system, Brooks Air & Heat Systems Ltd.; terrazzo sills, Diespeker & Co. Ltd.; balustrading, Grundy Arnatt Ltd.; insulation board lining, Anderson Construction Co. Ltd.; cat ladders and access covers and frames, Clark, Hunt & Co. Ltd.; flooring and asphalte bed, Korkoid Decorative Floors; partitioning, Saro Laminated Wood Products Ltd.; plastering, Thomas & Wilson Ltd.; steel rod, furring and expanded metal lathing, Steel Bracketing & Lathing Ltd.

Shops and Maisonettes at 19-23, Friars Stile Road, Richmond, Surrey. (Pages 134-138.) Architect: Eric Lyons, F.R.I.B.A., M.S.I.A. General Contractor: Eden Residential Construction Co. Ltd. General Foreman: W. Gadd. Sub-contractors: dampcourses, The Ruberoid Co. Ltd.; asphalt, Wadcrete Ltd.; reinforced concrete, Smiths Fireproof Floors Ltd., O.B.O. Construction Co. Ltd.; bricks, London Brick Co. Ltd. (Stewart Lights), J. W. Sergeant (Red Facings); artificial stone, O.B.O. Construction Co. Ltd.; structural steel metalwork, S. G. Day Ltd.; tile hanging, Wm. Sandfield Ltd.; roofing felt, Wm. Briggs & Co. Ltd.; metal rooflights, Greenwoods & Airvac Ventilating Co. Ltd.; patent flooring, Horsley Smith & Co. Ltd.; gas fixtures, B. Finch & Co. Ltd., Radiation Ltd.; gasfitting, North Thames Gas Board; electric wiring, F. C. Clover; electric light fixtures, Merchant Adventurers of London Ltd., Simplex Electric Ltd.; plumbing, Faithfull Bros. Ltd.; sanitary fittings, James W. Sergeant Ltd.; door furniture, Stedall & Co. Ltd.; casements, Boulton & Paul Ltd.; metal staircase screen, Clement Bros.; bells, A. J. Binns Ltd.; kitchen fitments, Built-In Fixtures Ltd.; external tiling, Carter & Co. Ltd.; wallpapers, John Line & Son Ltd.; signs, The Lettering Centre.

Ferryfield Airport, Lydd, Dungeness, Kent,

Centre.
Ferryfield Airport, Lydd, Dungeness, Kent, for Silver City Airways Ldd. (Pages 139-142.) Designers: Architects' Department, Richard Costain Ltd. Interior decoration: James Gardner, O.B.E., R.D.I. Petrol Service Station, Architects: Wallis, Gilbert & Partners. Constructional steelwork: Sommerfelds Ltd. General contractors: Richard Costain Ltd. Sub-contractors: sewage disposal plant, supply, pumps, etc., William E. Farrer Ltd.; heating installation, G. N. Haden & Sons Ltd.; roof of service station, Val de Travers Asphalte Paving Co. Ltd.; metal windows and doors, Williams & Williams Ltd.; interior decor, City Display Organization; roofs, F. McNeill & Co. Ltd.

fine Lone

surf

able its r

city

mos

last

dan

MU

den

tion

NHOL

AN OPEN AND SHUT CASE for ESAVIAN No. 3

Transformation Scene

Esavian Folding and Sliding Partitions used in the Recreation Room (St. Columbas Church, Pont St., S.W.I). Architect—
Sir Edward Maufe, F.R.I.B.A.

Is your problem how to get the most out of your available space by movable partitioning? Then Esavian folding and sliding partitions are the obvious answer.

Quick and easy to move, the entire partition can be folded aside, leaving no obstruction. Made to any size or length, and up to all reasonable heights (from 8 to 20 feet). Esavian will be pleased to give full information and advice as to what they can do to meet your particular requirements.



THE SAW APPRINCIPLE for folding and sliding doors, windows, partitions and screens.

Esavian Ltd.,
Esavian Works, Stevenage, Herts. Tel: Stevenage 500.
101 Wellington St., Glasgow, C.2. Tel: Cen. 2369.

1xx

Is your paint problem one of colour, texture or durability?

Stile 138.)

S.I.A.

W. The

Ltd.;

loors ricks,

I. W tone. steel ging, Wm.

ights, Co. h &

Adectric nitary fur Boul-

Ltd.; ; ex-

pers, ering

Kent,

139ment.

tion:

rvice

Partmerchard

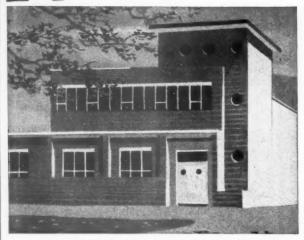
m E. laden

al de

metal

liams

gani-



ALL three problems have their importance in relation to the job in hand. All three can be solved by the one range of products - the fine quality paint finishes made by John Hall & Sons (Bristol & London) Ltd.

BROLAC HIGH GLOSS ENAMEL PAINT for interior and exterior surfaces, is the most waterproof and weatherproof paint obtainable. It contains Hankol (based on Tung Oil-world-famous for its resistance to water) which makes it impervious even to sea air, city smoke and kitchen steam. By skilful blending of the Hankol medium with the best of the new alkyd resins, Brolac remains the finest protective high gloss finish while being one of the easiest and most economical to use.

MURAC MATT OIL FINISH provides a rich, 'dull-sheen', longlasting surface that can be washed, rubbed and scrubbed without damage. The ideal finish for school and hospital walls, where very frequent cleaning is necessary.

MURAC P.E.P. - plastic emulsion paint (p.v.a.) - has all the useful characteristics of p.v.a. Emulsion plus an exceptional density which is due to its 100% content of primary pigment. Murac P.E.P. gives a fine-ground beauty of finish and 'dull-sheen' matt surface. Owing to its perfect intermixability it has exceptional colour selectivity, as shown by the 120 Colour System, in which 120 colour mixings are shown individually on a charted plan. Details available on request to our Sales Dept.



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

This month we use our space for a summary of information for architects and consultants. It might seem useful enough to be cut out and put in your reference file. (Please use the request slip* for immediate needs.)

- HEAT CONTROL?

- HEAT USAGE?

- HEAT RECOVERY?

TECHNICAL SOURCES

FOR

LINE

THIS

Our field is mainly steam and hot water for space heating and for process installations.

We are always glad to co-operate technically on questions of heat control, heat usage, and heat recovery.

There is a headquarters Technical Advisory Department at Cheltenham; throughout the British Isles our Resident Engineers are within easy reach.

We publish technical handbooks and other data (the two most recent are a 32-page Bulletin "Steam for Process" and a Pocket Manual "How to Fit Steam Traps"). Copies are

Also free of charge are three Correspondence Courses; two on steam and steam utilisation, the other on temperature control.

The mailing list is open for our bi-monthly periodical "Steam Topics". No charge.

WHAT WE MANUFACTURE

From among the heat control and heat transfer equipment made by Spirax-Sarco Ltd., perhaps the following are of particular interest:

STEAM TRAPS
Balanced-pressure (self-adjusting).
Balanced-pressure thermostatic combined with strainer.
Liquid-expansion thermostatic (adjustable).
Closed-float mechanical with steam-lock release.
Combined float and thermostatic.

static. Inverted Bucket mechanical. Open-top Bucket mechanical.

PIPE STRAINERS
For condensate, water, air, oil, gas, etc.

APPARATUS FOR AIR REMOVAL Thermostatic air vents for air in

steam. Float air vents for air in hotwater systems.

AUTOMATIC PUMPS (Operated by steam or compressed

air.)
For lifting condensate to higher levels. For draining sump holes. For draining vessels under vacuum.

SIGHT GLASSES
Primarily for condensate, secondarily for certain liquid flows.

FLASH VESSELS
For the collection and distribution of flash steam.

STEAM SEPARATORS

COMPRESSED AIR TRAPS
For draining water from compressed air mains and receivers.

pressed air mains and receivers.
THERMOSTATIC CONTROLS
(Self-contained, llquid-expansion operated.)
Modulating Controls for steam, hot water, brine, etc.
On/Off Controls for steam.
Modulating Controls for high-temperature hot water.
Control of accelerated hot-water systems directly from out-side temperature (the 'E.T.O.'). Steam and water Mixers for hot-water tanks.
Blending Valves for delivering mixed flows of hot and cold liquids.
Diversion Valves for engine and other cooling water, circuits.

Spirax-Sarco Ltd CHELTENHAM

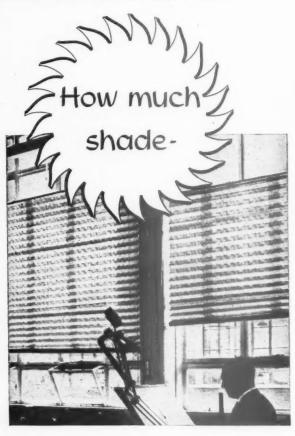
Phone: Cheltenham 5175-6 Grams: Spirax Cheltenham LONDON OFFICE: 28 Victoria Street, S.W.1. Abbey 6101-3832

- REQUEST SLIP-

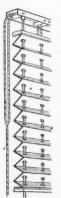
*Please supply

NAME:

ADDRESS :



- and where?



An "Accordo" blind moves up from the bottom and/or down from the top. Guide rods at either side obviate flapping. No moving parts; all metal parts rustless. Of continuous pleated fabric; rotproof and vermin-proof; self-dusting owing to bellows-action of pleats. Can be face-fixed or reveal-fixed (needing depth of only 1 fin.). Suitable for horizontal lay-lights, sloping roof-lights. Widths up to 15ft.; in a range of attractive shades. Now widely installed in hospitals, schools, offices, etc., at home and abroad. Write for details of "Accordo" Sun Blinds; also of "Accordo" Dark Blinds, specially designed to provide light obscuration for laboratories, etc.

ACCORDO NO SLATS NO SPRINGS

Blinds NO DUSTING

ACCORDO BLINDS LTD.

(A subsidiary of Hills (West Bromwich) Ltd.)

845, LONDON ROAD, THORNTON HEATH, SURREY, THO 6242-3-4

T.A.6863

INDUSTRY

and the Balance of Power

BRITAIN today has more electricity than she has ever had before. In the past six years, 40 new power stations have been brought into operation and power supply has increased by 50 per cent. At the same time, the demand for electricity is greater than it has ever been.

Women at home are using electricity increasingly to lighten their daily tasks. Farmers must have more power to increase production of vital foodstuffs. The railways need power — and may well need more power. The lighting of our streets is crying out to be improved. There is an increasing demand for power from offices, from cinemas, from shops. Does this present a danger that the important industrial demand may be 'squeezed out'? No!

If electricity were more widely used by factories, farms, shops, homes, offices and for street lighting—this would keep the generating plant more fully loaded. The demands on the power stations coming from these different classes of consumers would be diversified. That is to say the loads would occur, in the main, at different times of the day — and continuous full output from the generating plant would reduce the cost of electricity.



ELECTRICITY PROSPERITY A boi

the k

unles

that

Every

for p

heati

well.

inclu

are f



Let's be sensible about water heating!

A boiler that heats the water, but doesn't warm the kitchen simply leaves the housewife cold—unless you install a second source of heat—and that doesn't sound like economic planning! Every Architect (particularly if he is responsible for planning houses to a tight budget) knows that TAYCO provides efficient, economical water heating and a useful measure of space heating as well. There is a range of nine TAYCO boilers, including two with thermostat control. Capacities are from 21,000 to 65,000 B.T.U's. per hour.

on approved lists

TAYCO

DOMESTIC BOILERS

for

Commonsense Water Heating

Write for full technical information:

ROBERT TAYLOR & CO. (IRONFOUNDERS) LT

66, Victoria Street. London. S.W.1 Telephone: Victoria 3972

and Larbert Scotland



. for all electrical installations

11/20 Tel: ABBey 8080 (8 Lines) Head Office: 39 Victoria Street, London, S.W.I.

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

structure in building

by W. Fisher Cassie and J. H. Napper, Foreword by W. A. Allen. THE SECOND of a series of 3 books on building construction published at the recommendation of the Text and Reference Books Committee of the R.I.B.A. The authors do not attempt to give the formulae and methods of analysis and design used by the structural engineer; rather, they provide the architect and student with mental pictures of how structures behave. 81 ins. by 51 ins. 268 pages, over 150 illustrations. 30s. net, postage 8d.

THE ARCHITECTURAL PRESS 9-13 Queen Anne's Gate, Westminster SW1



BARKING BRASSWARE CO LTD . RIVER ROAD . BARKING . ESSEX

CONNECTIONS MADE CHEERFULLY

"Yes" says Alf, our pugilistic plumber, "here

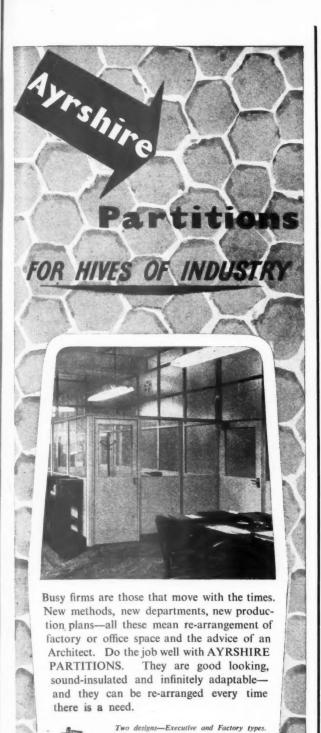
For the perfect joint coupled with Copper piping, always specify "Securex."

is a knockout for plumbers who know the ropes. With a minimum of footwork you can fix the nastiest bits of work in the trade in two minutes flat. You'll never be called on to make a break if you stick to Securex the little talisman that is second to none when you are forced to withstand pressure."

JAMES H. LAMONT & CO. LTD.

Gylemuir Works, Corstorphine, Edinburgh 12, Scotland Telephone: Corstorphine 66641-2 Telegrams: "Solderless, Edinburgh"

London Office: Norfolk House, Laurence Pountney Hill, E.C.4 JOINTS Telephone: Mansion House 5700 Telegrams: "Yutaka Cannon, London"



Complete installation service. A copy of our

See our Stand No. 27 and 29, Avenue M. Scottish Industries Exhibition, Kelvin Hall,

catalogue awaits you.

Glasgow. September 2 to 18.

AYRSHIRE DOCKYARD CO. LTD.

IRVINE — AYRSHIRE

Phone: Irvine 2271

London Office: 47 VICTORIA ST., LONDON, S.W.1 Phone: Abbey 5521

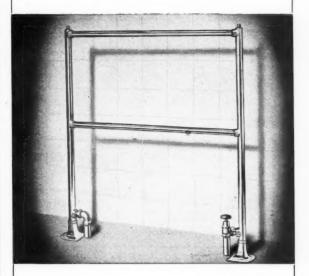
stol.

ESSEX

SPECIFY THE



HOT WATER TOWEL RAIL



- ★ Acclaimed the finest towel rail of its kind, and by far the finest value.
- ★ Patented method of assembly that completely eliminates oozing and troublesome leaks.
- ★ Individually tested at 120 lbs. per square inch air pressure in hot water.
- ★ Specially high standard of chromium plating on nickel. Unique coin operated air release (no key to mislay).
- ★ Available in 2 and 3 rail models, in sizes to suit every bathroom and hot water system.

Write for descriptive leaflet and the name of your nearest stockist.

W. G. YOUNGMAN LIMITED Bathroom Fittings Division

Makers of
LEDA and MASQUE Matched Bathroom Accessories
MANOR ROYAL, CRAWLEY, SUSSEX. Tel: CRAWLEY 1234 (5 lines)

Conduit & Fittings Supplied by





De He

To

It may be a School, it may be a Factory—a Power Station or a Housing Estate, but more often than not the electrical specification will be—METALLIC.

This Yorkshire Mill is no exception, being fitted throughout with METALLIC Conduit and Fittings—unequalled for quality and consistent accuracy.

Denholme Mills, nr. Keighley. Photo. by courtesy of W. & H. Foster Ltd.

Electrical Contractors for this important installation: A. R. Farrar & Co. Ltd.

THE METALLIC SEAMLESS TUBE CO. LTD.



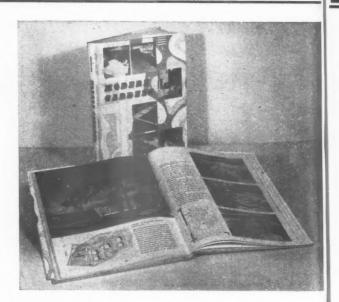
ALSO AT LONDON . NEWCASTLE-ON-TYNE . LEEDS . SWANSEA & GLASGOW

MODERN GARDENS

BY PETER SHEPHEARD, A.R.I.B.A., A.M.T.P.I., A.I.L.A.

THIS BOOK IS ABOUT the design, planning and planting of the Modern Garden. It will interest all those who design and plan gardens, professionals and amateurs alike, and indeed all who have any love for gardens and gardening. Its author is a practising landscape architect, as well as an architect of buildings and a town planner. All the gardens illustrated are modern in two senses: first, all have been created during the past twenty-five years; second, all are inspired by the ideas, practical and aesthetic, of the present day and have an affinity with contemporary architecture. They owe something to the practical needs of today-to the need for saving labour, for example, or for withstanding the wear and tear of public use; but they owe even more to the aesthetic ideal, which they share with modern architecture, of sympathetic understanding of the nature of materials; for the landscape architect these are not only the wood, stone, steel and concrete of which buildings are made, but also the great world of living plants.

The author has drawn his examples from all over the world; from Belgium, Brazil, Denmark, England, France, Italy, Sweden, Switzerland and the U.S.A.; they vary from the little twenty-feet-square garden at the back of a London East-end terrace house to the several square miles of Stockholm's famous public parks, and



include examples of roof gardens, indoor gardens, long narrow town gardens, large country gardens set in woodland, and gardens in the desert and by the seashore. He provides numerous plans of the gardens and whenever possible gives details of the material used in the construction of paths, walls, terraces, pergolas, etc., and the names of the plants which are grown.

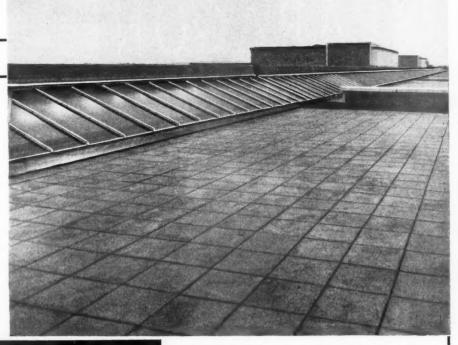
Size 11¼in. by 8¼in., containing 12 pages of Introduction and 120 pages of illustrations consisting of over 300 half tones and line drawings, making a total of 144 pages. Second large impression 36s. net, postage 1s. 2d. inland.

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

De Havilland Aircraft Co., Ltd.

The

Patent Glazing for this contract was supplied and fixed by HELLIWELL



HELLIWELL

HELLIWELL & COMPANY, LTD. BRIGHOUSE, YORKSHIRE, AND 68, VICTORIA ST., LONDON, S.W.I

'FOSALSIL' Flue constructions

The high insulating properties of 'Fosalsil' Flue bricks provide complete protection to the concrete shell against cracking due to excessive temperature. This is achieved without the need for an air space and a substantial economy is effected by employing the 'Fosalsil' lining as the internal shuttering.

wn

ages of king

inland.

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

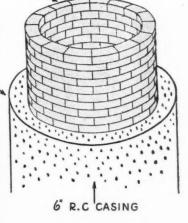


REINFORGED Nº2 *CONGRETE CHIMNEYS*

44"FOSALSIL LINING

CONCRETE **CUT AWAY** TO SHEW LINING



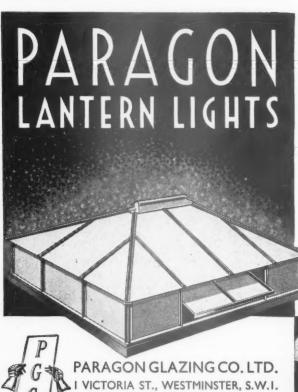


HYTHE WORKS PHONE: COLCHESTER 3191 (3 lines)

COLCHESTER GRAMS: FURMOL Colchester

To avoid substitution specify 'Fosalsil' on drawings and Bills of Quantities

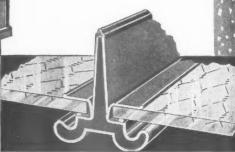
lxxvii

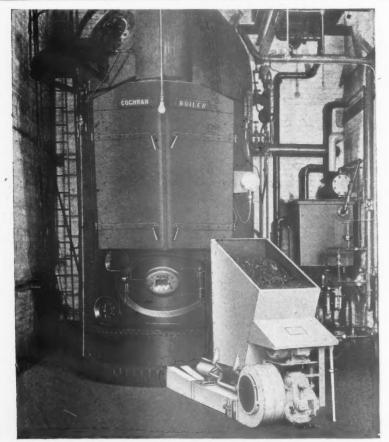


Telephone: ABBey 2348 (PBX), Telegrams: "Eclairage, Sowest," London. Maximum strength, minimum obscuration of light, extreme durability, and attractive neatness of design are four outstanding characteristics of "Paragon" Lantern Lights and Skylights, whether of standard pattern (24 sizes), or purpose-made to suit any curb trimming. They are manufactured outright by us at our Deptford Works from materials of pre-war quality. All opening sashes are double-weathered and hung on brass cup-pivots. The steel glazing bars are, of course, of the well-known "Paragon" type and standard being of completely lead-clothed steel.

SIZES OF STANDARD LANTERN LIGHTS AND SKYLIGHTS

Our brochure "A" will be sent you on request.





BIG FUEL SAVINGS GREATER EFFICIENCY CLEAN BOILERHOUSE

-these are the dividends

An 'Iron Fireman' stoker on a steam boiler produces steam at a price unequalled by any other method. Other advantages are that the pressure is automatically maintained at a pre-determined level and another important factor is the elimination of the loss of unburned coal through bars, which is usually associated with hand fired grates. Free technical advice may be had from any of the offices listed below

T T

Iron Fireman

Automalic Coal Stokers

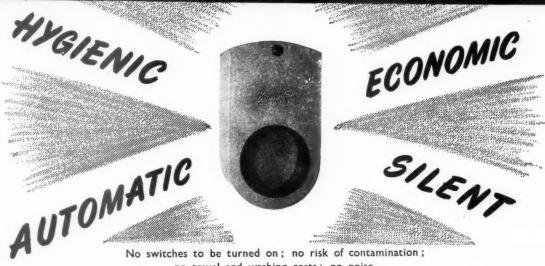


ASHWELL & NESBIT LTD., BARKBY ROAD, LEICESTER

LONDON: 12 Great James Street, W.C.1 BIRMINGHAM 4: 12 Whittall Street MANCHESTER 13: 184 Oxford Road LEEDS 6: 32 Headingley Lane GLASGOW, C.3: 15 Fitzroy Place, Sauchiehall Street

The installation illustrated is at the Co-operative Wholesale Society premises, Boulton-on-Dearne.

PAIRS OF HANDS FOR ONE PENNY



No switches to be turned on; no risk of contamination;

no towel and washing costs; no noise.

Wet hands are placed inside the aperture, the dryer starts automatically and in a matter of seconds the hands are dry. Removal of the hands stops the dryer. Can be fitted flush with walls when required.

WHEREVER THERE IS A WASH BASIN THERE SHOULD BE A

ELECTRONICALLY CONTROLLED

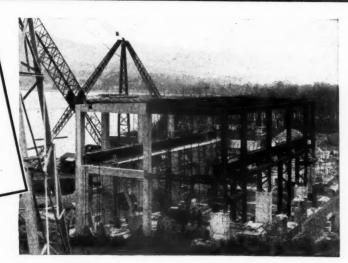
HAND DRYER

J. BROUGHTON & SON (Engrs.) LTD., SECURITY WORKS, FACTORY CENTRE, BIRMINGHAM, 30. Telephone: KINGS NORTON 3305-6-7

North of Scotland Hydro-Electric Board Lawers Project. Finlarig Power Station. Consulting Civil Engineers. James Williamson & Partners, Glasgow.

CLYDE STRUCTURAL THE CLYDE STRUCTURAL IRON CO LTD SCOTSTOUN .

> This Power Station is a typical example of steelwork by Clyde Structural. Steel framed buildings are the specialty of the Company and designs and estimates are submitted free of charge for projects at home and abroad.



WAREHOUSE BUILDINGS **FACTORIES** HYDRO-ELECTRIC PROJECTS BRIDGES

WORKSHOPS STORES ENGINEERING SHOPS OIL INSTALLATIONS

THE CLYDE STRUCTURAL IRON CO. LTD., **GLASGOW**

Telephone: SCOtstoun 1817 (3 lines)

Telegrams: Corrugated Glasgow

Codes: A.B.C. 5th Edit. Lieber's.

The Trussed Concrete Steel Co. Ltd.

Supplied and erected

TRUSCON PRECAST

(800 yards super per week)

for the

New Administration Block, Hatfield

for

De HAVILLAND AIRCRAFT COMPANY LIMITED

Architects: James M. Monro & Son, A.R.I.B.A.

See article illustrated in this issue

TRUSCON HOUSE, LOWER MARSH, LONDON, S.E.I

Telephone: WATerloo 6922

A.B.S. HOUSE PURCHASE LOANS

ADVANCES

of approximately 85% of Valuation

INTEREST

4½% per annum

PERIOD OF REPAYMENT

Up to 25 years

At the end of the repayment term or on previous death the house will be freed to the legal personal representatives and a cash sum would also be paid to them, the amount depending upon the period the mortgage was in force.

Particulars from:

The Secretary

A.B.S. INSURANCE DEPARTMENT

66 Portland Place, London, W.I

Tel.: LANgham 5721



THE craftsmanship which carved stone into lace to form a reredos, coat of arms and escutcheon over the castle gate, and fashioned gargoyles to ward off evil and death-masks to honour the good—such craftmanship lives still.

Companies proud of their names, and the burgesses of thriving towns, commission

ELLIS of Leicester to create for their buildings ornament

JOHN ELLIS & SONS LTD

and beauty in ELLIS reconstructed stone.

21 NEW WALK, LEICESTER.

Telephone: 56682



on

COMPLETE STRUCTURAL STEELWORK

FOR FERRYFIELD AIRPORT



When Silver City Airways decided to lay down their own airfield and operational offices at Ferryfield to replace those being used by them at state owned Lympne they became the first private air charter firm to do so.

Sommerfelds were called in to design and supply the Structural Steelwork for the building. A plan which incorporated exposed Sommerfeld High Tensile Lattice Beams for the roofs of the main building was submitted and accepted. The whole work was completed ahead of schedule, this in spite of the fact that Sommerfelds have on hand a very beavy programme for school. have on hand a very heavy programme for school building.

From Ferryfield will operate an aerial car ferry service to Le Touquet, the charges for which will vary from £7. 5. 0. to £17. 10. 0 per vehicle, plus a passenger fare of 50/-. Flying time approx. 20 mins.

Sommerfelds are honoured to be connected with this, the first private enterprise international airport, but work in connection with airports is nothing new to the firm, having recently provided structural steelwork for both B.O.A.C. and B.E.A.

If your problem is steelwork the answer is Sommerfeld.

THE WHOLE PROJECT COMPLETED AHEAD OF SCHEDULE

Sommerfelds

LONDON OFFICE: 167 VICTORIA ST S.W.I TEL: VIC. 8843 AND 1000

WELLINGTON . SHROPSHIRE TEL. 1000

lxxxi

Some BOOKS on English architecture and social life

- The Architecture of England by Frederick Gibberd, F.R.I.B.A., A.M.T.P.I. This popular book (70,000 copies of it have already been sold) presents in text and pictures the complete evolution of English architecture and explains, briefly, its relation to the historical background and social life of the times. Size 11½ ins. by 9 ins. 48 pages, with over 150 drawings and about 80 halftone illustrations. New edition (70th thousand). 10s. 6d. net, postage 7d.
- English Architecture at a Glance by Frederick Chatterton, F.R.I.B.A. Illustrated by J. D. M. Harvey, B.A. A simple review in pictures of the chief periods of English architecture, accompanied by brief historical notes on the various styles and their details. Nearly 100,000 copies of it have already been sold, and its popularity is accounted for by the fact that it enables the amateur to identify the periods literally "at a glance." It contains over 90 line drawings and some halftone illustrations. Size 8\frac{1}{4} ins. by \frac{5}{2} ins. Eighth Impression of the Fifth Edition. 4s. 6d. net, postage 3d.
- A History of the English House by Nathaniel Lloyd, O.B.E. The most authoritative and exhaustively illustrated history of the English house ever published. 498 pages with 900 illustrations. Size 12½ ins. by 9 ins. £3 13s. 6d. net, postage 1s. 10d.
- A Miniature History of the English House by J. M. Richards. Specially written for those who need a small inexpensive handbook on the English house, this is a complete outline history of our domestic architecture from primitive hut to present-day house. Many illustrations are drawn from the late Mr. Nathaniel Lloyd's standard work (described above); but Mr. Richards' text is entirely original and, moreover, continues beyond the early 19th century, tracing the subsequent development of the house down to the nineteenthirties. Size $8\frac{3}{4}$ ins. by $5\frac{5}{8}$ ins. 72 pages with over 90 illustrations. Seventh impression. 4s. 6d. net, postage 3d.

Racec

Limite

Totali

equip

be app

Further

IMF

- Parliament House: the Chambers of the House of Commons by Maurice Hastings, Ph.D. To understand the traditional plan adopted for the new Chamber of the House of Commons we have to go back to 1547 when the King's chapel of St. Stephen's became the home of the Commons. Dr. Hastings makes a brilliant and learned reconstruction of this place where so many high events and great Parliamentarians moved; he also describes Barry's Chamber and that opened in 1950, designed by Sir Giles Gilbert Scott, showing how the choir-stall seating plan has continued unchanged through the centuries. Bound in full cloth boards. Size $8\frac{1}{2}$ ins. by $5\frac{1}{2}$ ins. 200 pages with 78 illustrations. 12s. 6d. net, postage 6d.
- English Panorama by Thomas Sharp, M.A., D.Litt. The first carefully studied and original account of the evolution down the centuries of the English scene in town and countryside, this book ends with a penetrating analysis of the problems of town and country planning which now confront us. First published in 1936, it has now been revised with much new material and is almost entirely newly illustrated. Bound in full cloth boards. Size 8½ ins. by 5½ ins. 148 pages, with over 50 halftone and line illustrations.

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

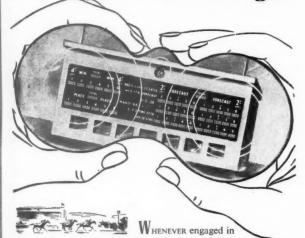
 Dr. Vetter's large coloured chart is an original method of presenting history in a visual way. It is divided vertically by lines representing dates and horizontally into a series of different sections which cover the following subjects: The Land, Science, Economics and Social History, Exploration, Politics, Literature, Drama, Painting, Sculpture, Architecture, Music, Religion and Philosophy. On their correct date-lines, and in their appropriate sections, appear the names of the men who have influenced the development of English life and achievement; and these are printed on coloured labels representing the period to which they belong. The historical digest which follows the chart gives a brief account of the development of each activity, and outlines the achievement of the men named in the chart. At a glance, therefore, the reader can follow the development of, say, literature through the centuries, and, at a glance also, can see who was contemporary with whom—for instance, which writers were contemporary with which composers, and which prime-ministers with which philosophers, and so on. An unbelievably large amount of information in every field of English history, in its broadest sense, is contained in this book. Size 13\frac{3}{4} ins. by 10\frac{5}{8} ins. Containing a coloured chart (6 pages), text (which includes 70 halftone illustrations), a bibliography and index. 8s. 6d. net, postage 8d.

A complete illustrated catalogue will be sent on application to

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

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

Focus on Setright



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

Further details are obtainable from

6

d te ng

11

e.

d

S.

ing

REGISTERS LTD SETRIGHT

EASTWAY WORKS, EASTWAY, HACKNEY WICK, LONDON, E.9 Telephone: AMHerst 7186 (Private Branch Exchange Telegrams: Sefaregist, Easphone, London.

TIMBER DECAY calls for

prompt diagnosis . . .

Whether caused by prolific insect borers or insidious fungal rot (some species of which have the destructive effect of a slow fire). timber decay should be accurately diagnosed by specialists and arrested before expensive replacement becomes inevitable. The experienced survey staff of Richardson & Starling Ltd. undertake inspections and tender detailed advice on remedial measures.

effective control materials . . .

"This unique insecticide requires only one application to effect the total extermination of Death Watch Beetle and other woodborers, and confers complete immunity against further attack.

"RESKOL" Powerfully toxic to all fungi causing decay in timber, this special solution of pentachlorphenol can eradicate even the virulent Merulius (Dry Rot).

The superiority of these materials has been proved in practice time and time again. They are available to all

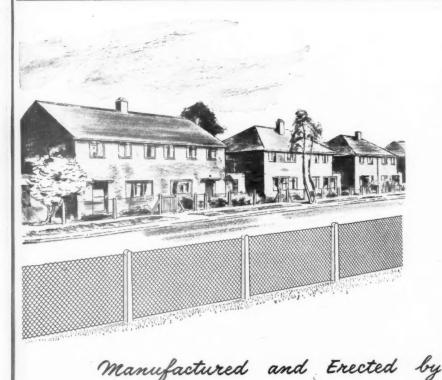
guaranteed treatment by experts...

Unless the varying characteristics of beetle infestation or fungal rot are fully understood, successful eradication should be ensured by the employment of specialists. In the course of several years' reliable work, the services of Richardson & Starling Limited have been used in hundreds of important and historic buildings, including Cathedrals, Churches, Universities and ancient mansions. The careful treatment carried out by their highly trained team of expert operatives is covered by a ten-year guarantee of efficacy.

If you have a problem of timber decay, write now for full details of services and prices of materials incorporated in our free technical brochure "The Control of Insect and Fungal Destroyers of Timber."

RICHARDSON & STARLING LTD

Members of the British Wood Preserving Association (DEPT. A.J.), HYDE STREET, WINCHESTER



The Best in

FENCING

Penfold-the best in Fencingwas chosen for the Newmarket Road Housing Site for the City of Cambridge (T. V. Burrows, A.M.I.C.E., M.I.Mun.E., City Engineer and Surveyor. tractors: John Mowlem & Co., Ltd.)

This is an artist's impression of a small section-the Chain Link Fencing, Concrete Posts and Fittings were all manufactured at our Watford Factory and erected by a team of our specialist erectors.

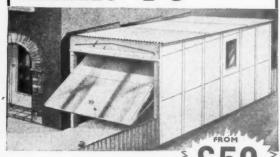
IMPERIAL WORKS, BALMORAL ROAD, WATFORD, HERTS. Telephone: Watford 2241. Telegrams: "Penfold, Watford"



Almost indestructible, adaptable to all modern decorative schemes, TECTA GEORGIAD are the perfect public room chairs — in hotels, shops, offices, ships, rest rooms, restaurants, etc. Laminated construction for strength and lightness. Oak, Walnut, Mahogany and other delightful woods. From all good retailers.

Write for full illustrated folder. Contracts Dept. E. Kahn & Co., Fenner Road, Great Yarmouth.





THE ONLY GARAGE OF ITS TYPE

The BATLEY 'Lean-To' has been designed for building on to the house or existing wall. Like all Batley Garages, it is made of reinforced concrete, permanent yet portable, easy to erect and completely fireproof. The doors, hinged or 'Up & Over' are of strongly braced Aluminium Alloy, and the building can be fitted with interchangeable windows and personal door. Width 8'0'; length 13'8", 16'4" or 19'.

5 YEARS' FREE FIRE INSURANCE WITH EVERY GARAGE

Attractive deferred terms. Free delivery in England & Wales. Many other designs available. Send for illustrated brochure,

ERNEST BATLE Y LIMITED

63, Colledge Road, Holbrooks, Coventry

Tel. Coventry 89245/6

For Cooking, Hot Water & Space Heating Specify the ...

"XL-TALBOT"

COMBINATION GRATE





The "XL-TALBOT" is an entirely new design of the popular 38"×38" Side-oven Combination Grate, being continuous burning on Coke, Coal or any other solid fuel. It gives an open or closed fire as desired, providing an abundant supply of hot water, with ample cooking facilities.

Approved by the Ministry of Fuel * and Power

RUST-P

The above illustration shows this model with cast iron mantel and curb with solid doors which are finished in various attractive vitreous enamels. Lustre enamel finishes are also available. This model can also be supplied with Tiled doors, Hearth Tiles and all Tiled Surround.

Please write for full particulars to:-



SAMUEL SMITH & SONS LTD.

BEEHIVE FOUNDRY

SMETHWICK, 41, STAFFS.

Save On Shelving



Save money, labour and time with 'WELCONSTRUCT' shelving. Modest in first cost, easy to erect and quickly adjustable, without the use of tools.

Welconstruct

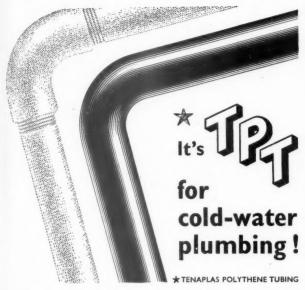
SLOTTED STEEL ADJUSTABLE SHELVING

IS IDEAL FOR STORING FILES, STATIONERY, PLANS, etc. It is absolutely rigid when assembled and is unquestionably the most modern and effective form of shelving. For further information write for LIST "P" to:

THE WELCONSTRUCT CO LTD

Grenville Buildings, Cherry Street, Birmingham, 2

Phone; MIDland 1619



T" is

esign × 38"

Coal fuel. n or sired.

dant ater,

king

1 *

doors re also l Tiled

our

st in to ckly nout s.

ING

NS,

n of to:

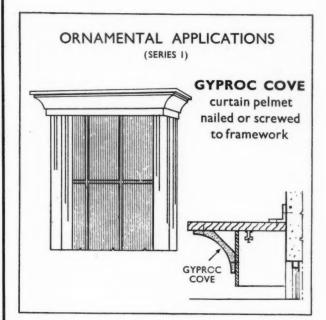
m, 2

RUST-PROOF · ROT-PROOF · WILL NOT BURST WITH FROST

There's nothing to touch T.P.T. for cold-water plumbing. T.P.T. pipes cannot rust, cannot rot and will not burst with frost. We supply pipes in long lengths. Bends can be made without joints. Installation costs are cut by up to 20%. For a free leaflet that gives full details—get in touch with

Tenaplas

Tenaplas Ltd., Upper Basildon, Nr. Pangbourne, Berk: Tel Upper Basildon 333-6

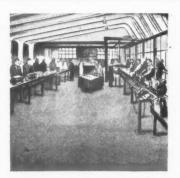


Write for Illustrated Folder A P.352

GYPROC PRODUCTS LIMITED

Head Office: Westfield, Upper Singlewell Road, Gravesend, Kent. Telephone: Gravesend 4251-4. Telegrams: Gyproc, Gravesend. Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow, Sw.1. Telephone: Gyona 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.

G.C. 10





INDUSTRIAL FLOORING





There are Trinidad Mastic Asphalt applications to suit all types of Industrial Flooring.

LITHOCRETE for factories

ACETAS Acid Resisting Asphalt

COLOURPHALT Coloured Asphalt

FERROPHALT Reinforced Flooring

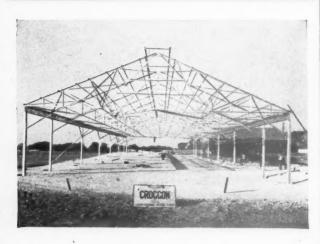
THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD.

STEEL HOUSE, TOTHILL STREET, WESTMINSTER, S.W.I. Telephone: WHItehall 6776

Branches throughout the British Isles



ECONA MODERN PRODUCTS LIMITED
AQUA WORKS · HIGHLANDS ROAD · SHIRLEY · BIRMINGHAM
Telephone and Telegrams : Salibul 1978



STRUCTURAL STEELWORK

FOR INDUSTRIAL AND AGRICULTURAL BUILDINGS

CROGGON & CO.

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

The "ALL WOOD" HARDBOARD



BUY WISELY ~ BUY RIGHT YOUR PROBLEMS SOLVED BY~FIBONITE

Sole Selling Agents in the U.K.
WM. BRANDTS (WALLPLY) LTD.,
36, Fenchurch Street, London, E.C.3.

NEW FLOORS FOR OLD

WE RENOVATE · REPAIR · RENEW

PARQUET FLOORS — STRIP FLOORS

RUBBER FLOORS — BLOCK FLOORS

JOINTLESS FLOORS — CORK FLOORS

ASPHALTE FLOORS — LINO FLOORS

IN FACT EVERY TYPE OF FLOOR

QUOTATIONS WITH PLEASURE

FLOOR SANDPAPERING MACHINES FOR HIRE

The very latest labour saving machines fitted with efficient dust collecting units and electric motors to suit all voltages

HIRE TERMS ON REQUEST

FLOOR RENOVATIONS LTD

34-36 LAURISTON ROAD, LONDON, E.9
DEPT. 55
AMHERST 5471-2

CLASSI

Advertise:
Manager,
13, Queen a
should rea
morning for
paper.
Replies t
care of "Ti
given abov

Public a

The enganger advertisement of the Employmer aged 18-64 inclusive unexcepted for Vacancia.

Vacancie Housing I Particula tect (AR/H

Vacancie

(a) TWO
VII-VIII
A.R.I.B.A.
(b) SEN'
A.P.T., VA.R.I.B.A.
(c) ARC
(c) ARC
(d) JUN
£535). Co
standard.

standard,

(e) SEN
VII (£735
or equival
(f) JUN
General D
the profes
(g) ELE
Grade VI
tion of ss
(h) TW
IV (£580 t
and min
preference
estimates,
Allowan
hi-monthl;
married r
tion.

tion.
N.J.C. disqualify whether tany meml Applicate perience, reference signed by

County O OXFOR Applica for the po SURVEY ment. C annual in pulsory a Application previous names of Secretary Banbury August,

ASS
Applica
general
qualifica
£520-£870
experiene
medical
be obta
Officer,

Archi

Applica CLERK Grade V Housing either con names a submitte to the B A.R.I.B.

CLASSIFIED **ADVERTISEMENTS**

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

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

Public and Official Announcements

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

258. psr 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 sped 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.

LONDON COUNTY COUNCIL.

ARCHITECTS DEPARTMENT.

Vacancies for ARCHITECTS in Schools and Bousing Divisions. Salary to £721.

Particulars and application forms, from Architect (AR/EK/A/2), County Hall, S.E.I. (374,) 2205

LINDSEY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Vacancies on the permanent staff for:

ARCHITECTURAL STAFF:

(a) TWO ASSISTANT ARCHITECTS, A.P.T., VII-VIII (£735 to £360). Candidates must be AR.I.B.A. (b) SENIOR ARCHITECTURAL ASSISTANT, A.P.T., VVII (£930 to £726).

SENIOR F., V-VI (R ARCHITECTURAL ASSISTANT, (£620 to £760). Candidates must be

(b) SENIOR ARCHITECTURAL ASSISTANT, A.P.T., VVI (2620 to 2760). Candidates must be d.B.I.B.A. (c) ARCHITECTURAL ASSISTANT, A.P.T., IV (2630 to 2625). Candidates must have passed Inter. R.I.B.A. or equivalent. (d) JUNIOR ASSISTANT, A.P.T., I (2490 to 2535). Candidates should be of Intermediate standard, with some period of office practice. "QUANTITY SURVEYORS: (e) SENIOR QUANTITY SURVEYOR, A.P.T., VII (2735 to 2810). Candidates must be A.R.I.C.S. or equivalent qualification. (f) JUNIOR QUANTITY SURVEYOR in General Division. Opportunity for an entrant into the profession.

the profession. Opportunity for a entrain most of the profession.

(a) ELECTRICAL ASSISTANT, Miscellaneous, Grade VI (£550 to £610). Experience in preparation of schematic plans and specifications.

(h) TWO BUILDING INSPECTORS, A.P.T., IV (£580 to £625). Duties in connection with repair and minor improvement of County Buildings, preference for persons able to prepare rough estimates, explanatory drawings, and brief specifications.

estimates, explanatory drawings, and brief speci-fications.
Allowance of 25s. per week and return fare home bi-monthly may be paid up to six months to married men unable to find housing accommoda-

married men unable to find nousing accommodation.

N.J.C. Conditions of Service. Carvassing will disqualify. Candidates must disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating age, qualifications and experience, with names of two persons to whom reference can be made, to be sent to the undersigned by 7th August, 1954.

A. RONALD CLARK, A.R.I.B.A.,
A.M.T.P.I.,
County Offices, Lincoln.

County Offices, Lincoln.

3355

OXFORD REGIONAL HOSPITAL BOARD.

Applications are invited from qualified persons for the post of SENIOR ASSISTANT QUANTITY SURVEYOR in the Regional Architect's Department. Commencing salary: £875 p.a., rising by annual increments of £30 to £1,025 p.a. Compulsory superannuation. A car is necessary. Applications, stating age, training, qualifications, previous experience and present salary, with the names of two referees, should be submitted to the Secretary, Oxford Regional Hospital Board, 43, Banbury Road, Oxford, by not later than 14th August, 1954.

CORPORATION OF CLASCOW.

Agust, 1954.

CORPORATION OF GLASGOW.

Architectural and Planning Department.

ASSISTANT ARCHITECTS

ASSISTANT ARCHITECTS

ASSISTANT QUANTITY SURVEYORS.

Applications are invited from persons having general experience and holding the A.R.I.B.A. qualification or the A.B.I.C.S. qualification. Scale 2520-1570. with placing according to age and experience. Posts are superannuable subject to medical examination. Form of application may be obtained from the Principal Administrative Officer, 20 Trongate, Glasgow, C.1.

City Architect and Planning Officer.

3360

BOROUGH OF BASINGSTOKE.
ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of CLERK OF WORKS. Salary: Miscellaneous, Grade V (£480-£540). Considerable experience of Housing is essential. Applications, together with either copies of two recent testimonials or the bames and addresses of two referees, must be submitted not later than Tuesday, the 10th August, to the Borough Architect (E. Almond, Dipl.Arch., A.R.I.B.A.), Municipal Buildings, Basingstoke.

MEIRION O. JONES,
Town Clerk.
3459

METROPOLITAN BOROUGH OF
WANDSWORTH.
ARCHITECTURAL ASSISTANTS.
Applications are invited for the appointments
of:--

(a) ASSISTANT ARCHITECT, unestablished (A.P.T., 5A.6-6890.6790 p.a.),
(b) ARCHITECTURAL ASSISTANT, established (A.P.T., 15-6250-2700 p.a.),
Applicants for (a) must be Associates of the Royal Institute of British Architects, and have had some experience in the design and planning of houses and flats.

The person appointed to post (b) will be graded according to the qualifications and experience prescribed in par. 21 (8) (xi) of the National Scheme.

Application forms, obtainable from the Borough Engineer, must be returned to me by 31st July, 1954.

R. H. JERMAN

R. H. JERMAN,
Town Clerk.

Municipal Buildings, Wandsworth, S.W.18.
9th July, 1954.

BOROUGH OF BEXLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the appointment of an ASSISTANT ARCHITECT (General) at a salary in accordance with Grade A.P.T., V (£620-£670 per annum, plus London "weighting").
Candidates should have experience in housing, school and other building projects, and preference will be given to applicants who have passed the Final R.I.B.A. examination or are Registered Architects.

Final R.I.B.A. examination of Appoint-Architects.
Forms of application with conditions of appoint-ment may be obtained from Borough Engineer and Surveyor, West Lodge, Broadway, Bexley-heath, to whom completed applications must be returned by 9th August, 1954.
Canvassing, directly or indirectly, will dis-

W. WOODWARD, Town Clerk

Council Offices, Bexleyheath, Kent.

COUNTY BOROUGH OF HALIFAX.
BOROUGH ENGINEER'S DEPARTMENT.
APPOINTMENT OF QUANTITY SURVEYOR.
Applications are invited for the above appointment, at a salary in accordance with Grade A.P.T., VII-VIII (2735-2860).
HOUSING ACCOMMODATION FOR THE SUCCESSFUL CANDIDATE WILL BE PROVIDED IF NECESSARY.
The successful candidate will take charge of the Quantity Surveying Section of the Borough Engineer's Department, and will be responsible for the whole of the Quantity Surveying work entailed on architectural work, including new schools, housing, etc.

whole of the condition of the condition of the condition of the condition of the conditions of service adopted by the Corporation and to the Local Government Superamuation Act, 1937.

Candidates must disclose whether to their knowledge they are related to any member of or the holder of any senior office under the Council. Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, should be appropriately endorsed and delivered to the undersigned not later than Saturday, 14th August, 1954.

The Hall Halifax.

RICHARD DE Z. HALL.

Town Hall, Halifax.

21st July, 1954.

CITY OF STOKE-ON-TRENT EDUCATION
COMMITTEE.
COLLEGE OF ART.

Principal: R. H. Mallow, A.R.C.A., F.R.S.A.,
M.S.I.A.

HANLEY BRANCH SCHOOL OF
ARCHITECTURE.
Required for September, 1954:—
(1) Full-time STUDIO MASTER. Salary in accordance with the Burnham Technical Report,
Grade B (£490-£765, plus allowances for training and approved qualifications). The commencing point on the scale will depend upon experience.
(2) Part-time STUDIO MASTER, for up to 12 hours per week.
Applicants for the above appointments should possess A.R.I.B.A. or equivalent qualifications, be school trained, and preferably have teaching experience, and will be required to take Intermediate and Final R.I.B.A. Courses.
Application forms, obtainable from the undersigned, should be completed and returned not later than 14th August. 1954.

H. DIBDEN,
Chief Education Officer.

Education Offices, P.O. Box No. 23.
Town Hall, Hanley, Stoke-on-Trent.

WESTMINSTER CITY COUNCIL (Housing Dept.) require DRAWING OFFICE ASSISTANT. Salary according to ace, qualifications and experience, with maximum £595 plus up to £30 p.a.
London "weighting." Duties include making surveys; preparing drawings and specifications for Breat. Accurate draughtsman. and studying for R.I.C.S. (Building) or R.I.B.A. Knowledge of estimating, London Building Acts, and Bye-laws an advantage.

Applications, detailing experience, etc., with two copy testimonials, to Town Clerk, City Hall, Charing Cross Road, W.C.2, by 7th August, 1954.

Lyxviii

CITY OF ROCHESTER.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the City Surveyor's Department at a salary in accordance with Grade V-Va (Administrative, Professional and Technical Division) of the National Scale of Salaries, viz., £620-£710 per

Preference will be given to candidates who are Registered Architects.

Annum.

Preference will be given to candidates who are Registered Architects.

A good general experience is desirable, particularly in the preparation of drawings and specifications for Municipal Housing Schemes.

In an appropriate case the City Council will provide the successful applicant with suitable housing accommodation.

The appointment will be subject to:—

(1) The Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

(2) The Local Government Superannuation Acts, and the successful candidate will be required to pass a medical examination.

(3) One month's notice on either side.

Applications, stating age, qualifications and experience, together with names and addresses of three persons to whom reference may be made, should be delivered to the City Surveyor, Maidstone Road, Rochester, not later than 25th August, 1954.

Canvassing, directly or indirectly, will be deemed a disqualification, and applicants must state whether to their knowledge they are related to any member or senior officer of the Council.

Guildhaft, Rochester.

2nd July. 1954.

3445

PHILIP H. BARTLETT,
Town Clerk.
22nd July, 1954.

NORTHUMBERLAND COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF A PRINCIPAL HEATING,
VENTILATING AND ELECTRICAL
Applications are invited for the appointment of a principal heating, ventilating and electrical engineer on the permanent staff of the Department. Salary to be on A.P.T. Grade IX £840 per annum to £960 per annum x £40. The appointment is subject to the Local Government Superannuation Acts and to medical examination.
Preference will be given to candidates who are Corporate Members of the Institution of Heating and Ventilating Engineers (by examination) and Associate Members of the Institute of Electrical Engineers. Candidates must have had extensive experience in designing, specification writing, and site supervision for heating, ventilating and electrical installations, for County Council or other similar large buildings, such as Schools, and also of the maintenance of such systems.
Candidates should possess a current motor car driving licence.
The conditions of service for the appointment

of the hammond of the

County Hall, Newcastle, 1. 3431

BOROUGH OF WREXHAM.
ENGINEER & SURVEYOR'S DEPARTMENT.
Applications are invited for the following appointment:—

(a) ARCHITECTURAL ASSISTANT—Salary
A.P.T. III. £550-£596 per annum.
Applicants should possess the Intermediate examination of the R.I.B.A. or its equivalent of one of the recognised Boards of Architecture and have a general experience in architecture.

The Council is prepared to offer housing accommodation to the successful applicant, if married.
Particulars and Conditions of Service may be obtained from the Borough Engineer and Surveyor, 31, Chester Street, Wrexham.
Applications on the prescribed form together with two copies of testimonials and the names and addresses of two persons from whom reference may be obtained, should be delivered to the undersigned in an envelope bearing the appropriate endorsement not later than the first post on Saturday, August 14th, 1954.

Guildhall, Wrexham.

19th July. 1954.

3428

Guildhall, Wrexham. 19th July, 1954.

Guildhall. Wrexham.

19th July, 1954.

ARCHITECTURAL ASSISTANT
the Government of Northern Rhodesia P.W.D.
for one tour of 24-36 months in the first
instance. Salary scale (including present temporary allowance of approximately 17 per cent. of
salary) £855 rising to £1,142 a year. Commencing
salary according to war service and experience.
Gratuity at rate of £100 a year. Liberal leave
on full pay. Free passages. Furnished quarters
available at moderate rent. Candidates under 35
years must have served articles or have been
trained as an Architect and should preferably
have passed the Intermediate examination of the
R.I.B.A. They must be able to prepare sketch
plans. working drawings, and details and specifications of many types of Government Buildings.
A knowledge of surveying would be an advantage.
Write to the Crown Agents, 4, Millbank, Lendon.
S.W.I. State age, name in block letters. full
qualifications and experience and quote M2B/
30696/AG.

3434

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

APPOINTMENT OF CHIEF ASSISTANT

ARCHITECT (HOUSING).

The Housing Committee of the Corporation invite applications for the above position in the City Architect's Department, at a salary in accordance with A.P.T. Grade X (£920-£1,050 per annum).

Applicants must be Mambers of the Tourist County of the County of

annum).

Applicants must be Members of the Royal Institute of British Architects, and should have received a sound architectural training, preferably at a recognised School of Architecture. The Officer appointed will be responsible under the direction of the City Architect for the control of all work undertaken by the Housing and Flats Sections of the Department, and should have had extensive practical experience of the administration of large Building Contracts and the control of staff.

Forms of application, together.

staff.

Forms of application, together with further particulars of the appointment, may be obtained upon application to George Kenyon, Dip.Arch. A.B.I.B.A. Dip.T.P., A.M.T.P.I., City Architect. 18. Cloth Market, Newcastle upon Tyne, 1. Closing date for receipt of completed applications, Monday, 23rd August, 1964.

JOHN ATKINSON, Town Clerk.

Town Hall. Newcastle upon Tyne, 1.

TOWN Hall, Newcastle upon Tyne, 1.

21st July, 1954.

RURAL DISTRICT COUNCIL OF HATFIELD.

APPLICATION OF THE APPLICATION OF HATFIELD.

APPLICATION ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT, on the staff of the Architect to the Council, at a salary in accordance with Grade I, A.P.T. Division (£490×£15-£555).

Preference will be given to candidates who have studied at a Recognised School of Architecture.

Applications, with full details and accompanied by copies of two testimonials, are to be addressed to Mr. J. H. Parker, A.R.I.B.A., Architect to the Council, 32, Great North Road, Hatfield, not later than Friday, 27th August, 1954.

22nd July, 1954.

3457

22nd July, 1954.

E. F. CULL.

Clerk to the Council.

22nd July, 1954.

OXFORDSHIRE COUNTY COUNCIL.
Applications are invited from suitably qualified persons for the following appointments in the County Architect's Department:—
(a) PRINCIPAL QUANTITY SURVEYOR.

A.P. and T., Grade VII-VIII (2755-2856).
(b) ASSISTANT QUANTITY SURVEYOR'S ASSISTANT.

A.P. & T., Grade IV-V (2530-26570).
(c) QUANTITY SURVEYOR'S ASSISTANT.

A.P. and T., Grade III-IV (2550-2625).
(d) QUANTITY SURVEYOR'S ASSISTANT.

Misc., Grade II (2320-2356).
Candidates for (a) should be Associate Members of the R.I.C.S. (Quantities).
Preference will be given to candidates for posts (b) and (c) who have passed the Intermediate Examination of the R.I.C.S., and applicants should have experience in the preparation of Bills of Quantities interim valuations, and final accounts.

The appointments are subject to the provisions of the Local Government Superannuation Act

or quantities, literal, accounts.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937-53 and to medical examination.

Forms of application may be obtained from the County Architect, Park End Street Offices, Oxford, and should be completed and returned to him not later than the 6th August, 1954.

GERALD GALE BURKITT,

Clerk of the Council.

County Hall, Oxford.

County Hall, Oxford.

County Hall, Oxford.

3378
SOUTH-WEST METROPOLITAN REGIONAL
HOSPITAL BOARD.
Applications are invited for the following
appointment on the Board's Architectural Staff—
ARCHITECTURAL ASSISTANT. Salary scale:
\$440 (at age 21 or over) × 225 (1) × 220 (8) to 235
p.a., plus London weighting allowance, 210 to 230
p.a., according to age. Applicants must have
passed the Intermediate Examination of the Royal
Institute of British Architects (or an examination
recognised by the Institute as equivalent), have
had good architectural ktraining and general experience, and be capable of preparing working and
detail drawings. Previous experience of Hospital
Architectural work is not essential.
Applications, stating age, qualifications, present
appointment and salary, training and experience,
together with the names and addresses of three
referees, should be forwarded to the Secretary
(S.2), South-West Metropolitan Regional Hospital
Board, Ila, Portland Place, London, W. J., marking
the envelope "Architectural Assistant," by not
later than 9th August, 1954.

CANNOCK URBAN DISTRICT COUNCIL

later than 9th August, 1954.

CANNOCK URBAN DISTRICT COUNCIL (Population—41,230 (est.))

Applications are invited for the following appointment in the Architect's Department:—
QUANTITY SURVEYOR—Salary within Grades A.P.T. VII (£736-£810) and A.P.T. VIII (£786-£810) and A.P.T. VIII (£786-£810) and A.P.T. VIII (£786-£810) and A.P.T. VIII (£786-£810) and F.P.T. VIII (£786-£810) and F.P.T. VIII (£786-£810) and A.P.T. VIII

Council House. The Green, Cannock, Staffs. 21st July, 1954.

Air Ministry Works Department requires ARCHITECTURAL ASSISTANTS in Design Branch. Applicants should be experienced in planning and preparation of working drawings and details for permanent and semi-permanent buildings. Professional qualifications an advantage. Vacancies mainly London, few Provinces. Appointments carry liability for overseas service for which allowances payable. Salaries up to 2780 p.a. for men, £618 for women. Starting pay dependent upon age, qualifications and experience. Extra duty allowance or overtime payable. Reasonable prospects of promotion. Poste temporary and non-pensionable but have long term possibilities. Competitions held periodically to fill established vacancies. Applications from natural born British subjects only, quoting A/C and stating age, qualifications and previous appointments, giving dates and stating types of work done, to Air Ministry, S.2(h)/NA, Cornwall House. Stamford Street, London, S.E.1.

Ministry of Agriculture and Fisheries requires

Ministry of Agriculture and Fisheries requires TEMPORARY ARCHITECTURAL DRAUGHTS-MAN at Aberystwyth. Minimum age 20; practical experience required; Inter R.I.B.A. or R.I.C.S. advantageous. Opportunities of extablishment through periodical competitions. Starting salary from 2380 at age 20 to 2550 (men), £535 (women), at age 32 or over. Write giving age, qualifications and experience to Ministry of Agriculture and Fisheries, 23, Soho Square, London, W.I., quoting EP 584A.

MIDDLESBROUGH EDUCATION COMMITTEE.
Applications are invited for the following appointments in the Education Architect's

Office:—
(a) Two ASSISTANT ARCHITECTS, Grade V.
(b) JUNIOR DRAUGHTSMAN or DRAUGHTSWOMAN, Miscellaneous Grade III.
The building programme in hand offers excellent opportunities in the design and construction
of modern school buildings. Forms and particulars obtainable from Director of Education,
Education Offices, Woodlands Road, Middlesbrough, to whom completed forms should be
returned not later than Monday, 16th August,
1964.
3460

BRACKNELL DEVELOPMENT CORPORATION
Applications are invited for the appointment of
an ARSISTANT ARCHITECT—Salary £660 x £40£860. Applicants should be Corporate Members
of the R.I.B.A. and should have had considerable
experience in design, construction and supervision of contracts.
Superannuation Schemes. Medical Examination. Housing available in due course. Apply by
10th August, 1984, giving age, education and
qualifications, experience and appointments held
(with dates and salaries) and two referees to
General Manager (A.A.), Bracknell Development
Corporation, Farley Hall, Binfield, Bracknell,
Berkshire.

Corporation, Farley Hall, Binfield, Bracknell.
BOROUGH OF MAIDSTONE
APPOINTMENT OF ARCHITECTURAL
ASSISTANT
Applications are invited for the above appointment in the Borough Surveyor's Department, at a salary in accordance with Grade 5, commencing at t620 per annum.

The successful candidate should be an Associate of the Rovai Institute of British Architects or other Architectural Association, and should have had considerable experience in general municipal building work, particularly in regard to housing development of which the Council has an extensive programme, including a shopping centre. Applicants should also have had experience in handling jobs in progress, dealing with contracts and some experience in valuations under the Small Dwellings Acquisition Acts.
The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannation Acts, the passing of a medical examination, and one month's notice on either side. The Corporation cannot undertake to assist in any way with the provision of housing accommodation. Canvassing will disquality. Applications, on forms to be supplied, accompanied by copies of two recent testimonials, must reach the undersigned not later than the 12th August, 1954.

S. F. DIXON.
Borough Surveyor.

S. F. DIXON. Borough Surveyor

Borough Surveyor's Department, Palace Avenue, Maidstone. 29th July, 1954.

Borough Commence Avenue, Maiuston.

29th July, 1954.

BOROUGH OF HORNSEY

TEMPORARY ARCHITECTURAL ASSISTANT required for the Architects' Section of the Borough Engineer and Surveyor's Department, A.P.T. V-VI (£650-£790, including London Weighting). Commencing salary according to experience. Application Form from Borough Engineer and Surveyor. Town Hall. Crouch End. London, N.8, to be returned by 9th August. 1964.

H. BEDALE, Town Clerk 3398

COUNTY BOROUGH OF READING.
ARCHITECTURAL ASSISTANT required,
Grade A.P.T., I. Salary: £490-£535. Appointment subject to N.J.C. Conditions and qualifications, passing of medical examination, and
determination by one month's notice on either
side. Experience in an Architect's office essential.
Applications, stating age, experience, and names
of two referees, by Friday. 13th August 1984, to
Borough Architect, Town Hall, Reading. 3394

COUNTY BOROUGH OF BURY.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT in the Borough Engineer's Department. Salary up to Grade A.P.T. V. (£620-£670). National Scales of Salaries, according to qualifications and experi-

The appointment is subject to the Local Government Superannuation Act, 1937, and medical examination.

examination.

Applications stating age, details of training, qualifications and experience, together with the names and addresses of two persons to whom reference may be made, must be received by me not later than 9th August. 1954.

EDWARD S. SMITH,

Town Clerk.

20th July, 1954.

BOROUGH OF WALTHAMSTOW.
ASSISTANT ARCHITECT.
Applications are invited for the above appointment on Grades I/V, A.P.T. Division (£520-£700, inclusive of London Weighting), commencing salary according to qualifications and experience.
Applications, with names of two persons for references, should be received by the undersigned not later than Saturday, the 21st August, 1964, endorsed "Assistant Architect."
G. A. BLAKELEY,
Town Hall. Walthamstow, E.17.

3421

G. A. BLAKELEY,
Town Hall, Walthamstow, E.M. Town Clerk.

3419

COUNTY BOROUGH OF DERBY,
APPOINTMENT OF CHIEF PLANNING
ASSISTANT.

Applications are invited for the above permanent appointment in the Borough Engineer & Surveyor's Planning Department.

Salary in accordance with Grade IX (2940 to 4960) of the A.P.T. Scale. National Scheme of Conditions of Service, pensionable and subject to medical examination and one month's notice.
Candidates must be Members or Associate Members of the Town Planning Institute and also be A.M.I.C.E., or A.M.I.Mun.E., or A.R.I.C.S., or A.R.I.B.A., and have considerable experience in plenning, preferably in urban areas.

Forms of application and further details may be obtained from Mr. M. L. Francis, F.R.I.C.S.
M.I.Mun.E., Borough Engineer & Surveyor, The Council House, Derby, to whom they must be returned, together with the names of at least two persons to whom reference can be made, not later than 9 a.m., 6th September, 1964.
Canvassing will be a disqualification, and the Council cannot assist in the provision of housing accommodation.

G. H. EMLYN JONES,
Town Clerk.

G. H. EMLYN JONES, Town Clerk.

July, 1954.

July, 1954.

NORTHUMBERLAND COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the appointment of SENIOR PLANNING ASSISTANT, A.P.T., Grade VI (£695-£760).
Candidates should be Associate Members of the Town Planning Institute, and the duties of the successful candidate will relate chiefly to the preparation of Town Maps.
The appointment (which is a whole-time one) will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side, and the successful candidate will be required to pass a medical examination to the Council's satisfaction.
Applications, on forms obtainable from the undersigned, should be completed and returned not later than the 7th August, 1954.

J. B. ROSS, A.R.I.C.S.,
County Planning Officer.

3337
COUNTY BOROUGH OF SOUTHEND-ON-SEA EDUCATION COMMITTEE MUNICIPAL COLLEGE
Principal: T. L. Morgan, M.Sc., A.M.I.C.E.,
Applications are invited for the post of LECTURER in the School of Architecture.
Salary will be in accordance with the Burnham Technical Scale for Lecturers, viz.: £940 by £25 to £1,040 per annum.
Further particulars and forms of application may be obtained from the undersigned (s.a.e. foolscap).
Completed forms should be returned to the Principal, Municipal College. Victoria Oirena.

Further parameters and the undereigned foolscap).
Completed forms should be returned to the Principal, Municipal College, Victoria Oirous, Southend-on-Sea, within 14 days of the appearance of this advertisement.
D. B. BARTLETT,
Chief Education Officer.

Education Office,
Warrior Square, Southend-on-Sea. 3402
The NORTH WESTERN ELECTRICITY BOARD
APPOINTMENT OF QUANTITY SURVEYOR
(THIRD) ASSISTANT ENGINEER, CONSTRUCTION SECTION, CHIEF ENGINEER'S
DEPARTMENT, AREA BOARD HEADQUARTERS, MANCHESTER
Applicants should be Corporate Members of the
R.I.C.S. (Quantities Sub-Division) or I.Q.S. and
must be able to undertake the complete preparation of Bills for all types of work, valuation for
interim certificates and settlement of Final
Accountes.

interim certificates and accounts.

Salary Scale: £649/883 p.a. Class AX/EX.
Grade 5, Schedule "O" N.J.B. Conditions.
Applications to Establishment Officer, The North
Western Electricity Board, Cheetwood Road.
Manchester, 8, by 7th August, 1954.

HARLOY Applicate the Ar ASSIST. Good ge Minimum With e

work.
Minimus
equivalent
Superan Applica submitted General tion, Ter seven day DERBY Architect' for the a section.
and good
and salar
Council S
by the C per annu is not a accommod from F.

from F. by 9th A COUN Applica SENIOR A.P.T. V Department Applica
preferabl
qualificat
design of
Housin
if requir
The a
month's
Governm
examinal
Candid
close in
are relat
holder of
Applic

> ment o scale IThe appropriate annuations of annuations of annuations of annuations of the scale of the scal All poing acc Applie J. B. V Law, En be retu Council August.

later the Canvas

August.

Appliposts:

(a) Ai
(£785 tion.

(b) A
to £760
(c) A
(£550
R.I.B.A Super side. limited Appli Street, 1954. J

Appli PLAN VI. S accordi Appli and ha carryir estate develor Appl and tr appoin

ent of the up to les of experi-

Local

ining, h the whom by me

I. Člerk.

point-0-£700, encing ience. B for signed 1954,

Υ. Cleτk. 3419

MO to ne of ect to ce. oclate 1 also S., or ce in

may .C.S., The st be least , not

i the

lerk. 3418 IL.

nt ef Frade

f the the

one) Con-Local d to the ass a

the not

ficer. SEA

E.,

of ham £25 tion

the

ance

icer.

EX, orth

G ermaHARLOW DEVELOPMENT CORPORATION Applications are invited for the following poets in the Architectis Department:— ASSISTANT ARCHITECT (£750 x 25—£850). Good general architectural experience required Minimum qualification A.R.I.B.A. or equivalent. JUNIOR ASSISTANT ARCHITECT (£550 x 25— (650)

(1950). With experience in preparation of working drawings for housing and general architectural

Minimum qualification of inter-R.I.B.A. or equivalent.
Superannuation. Housing accommodation avail-

able.
Applications, stating post applied for to be submitted with names of two referees to the General Manager, Harlow Development Corporation, Terlings, Gilston, Harlow, Essex, within seven days.

general Manager, Harlow Development Corporation, Terlings, Gilston, Harlow, Essex, within seven days.

DERBYSHIKE COUNTY COUNCIL, County Architect's Department. Applications are invited for the appointment, on the permanent staff, of a SENIOR ARCHITECT in the New Schools section. Applicants must be capable designers and good administrators. Conditions of service and salary in accordance with the National Joint Council Scheme for Local Authorities, as adopted by the County Council. Salary £840 x £40 to £960 per annum. (A.P.T. Grade IX). The Council is not able to assist applicants with housing accommodation Application forms to be obtained from F. Hamer Crossley, County Offices, Derby, by 9th August 1954.

COUNTY BOROUGH OF ST. HELENS. Applications are invited for the appointment of SENIOR ARCHITECTURAL ABSISTANT Grade A.P.T. VII (£735-£810) in the Borough Engineer's Department.

Applicants should be Registered Architects, preferably holding a recognised architectural qualification and have had experience in the design of educational buildings.

Housing accommodation will be made available if required by the successful candidate.

The appointment will be terminable by one month's notice and will be subject to the Local Government Superannuation Acts and medical examination.

Candidates must, when making application, disciose in writing whether to their knowledge they are related to any member of the Council or to a holder of any senior office under the Council Applications stating age, qualifications, present and past appointments, and details of experience, accompanied by copies of three recent testimonials must be forwarded to M. Ward, M.I.Mun.E., A.M.T.P.I., Borough Engineer, not later than Monday, 16th August, 1954.

CHESTERFIELD RURAL DISTRICT COUNCIL invite applications of the appointment of assistant applications, or salary member of the concilerations.

Garvassing in any form will be deemed a disqualification.

CHESTERFIELD RURAL DISTRICT COUNCIL invite applications for the appointment of ASSISTANT ARCHITECT, on salary scale 1-V (£490-£670), according to qualifications. The appointment is subject to the Scheme of Conditions of Service to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

All possible assistance will be given with housing accommodation Applications, on forms to be obtained from Mr. J. B. Wikeley, M.Eng., A.M.I.C.E., Barrister-al-Law, Engineer and Surveyor to the Council, should be returned to the Clerk of the Council, Rural Council House, Saltergate. Chesterfield, by 16th August.

3413

August.

HEREFORDSHIRE COUNTY COUNCIL
Applications are invited for the following
posts:

(a) ASSISTANT ARCHITECT Grade VIII/IX
(2785 to £960) A.R.I.B.A. to take charge of section.

(b) ASSISTANT ARCHITECT Grade VI (£695
to £760). Must be A.R.I.B.A.

(c) ARCHITECTURAL ASSISTANT Grade III
(£550 to £595). Preferably of Intermediate
R.I.B.A. standard.
Superannuated posts subject to passing medical
examination, and one month's notice on either
side. Travel and/subsistence allowable for
limited period payable to married men in certain
cases.

cases.

Application forms from County Architect, Bath Street, Hereford, to be submitted by 9th August, 1954. Please state whether form (a), (b) or (c) is required. is required.

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

Applications are invited for the appointment of:—
PLANNING ASSISTANT, A.P.T., Grades IVVI. Salary: £580 to £760. Commencing salary according to experience and qualifications.
Applicants should be professionally qualified, and have had experience in the preparation and carrying into effect of housing estate layouts.
Applicants should give details of age, education and training, qualifications, present and previous appointments and experience, and the names of two persons to whom reference can be made. Applications, in which relationship to any member or senior officer of the County Council must be disclosed, should be sent to D. W. Riley, County Planning and Development Officer, 41a, Eastgate Street, Stafford, not later than the 7th August.

T. H. EVANS.

Clerk of the County Council.
3405

BRITISH ELECTRICITY AUTHORITY.

EAST MIDLANDS DIVISION.
The following amends the Advertisement previously issued for Vacances Nos. 1/54, 2/54, 3/54,

Vacancy No. 112/54/AJ

TWO—SENIOR DRAUGHTSMEN (CIVIL)

CONSTRUCTION DEPARIMENT.
Candidates should have experience in the preparation of detail drawings and in the design of one or more or the following subjects:—
Reinforced concrete structures;
Piled and slab foundations for heavy components;

Piled and slab foundations for heavy components;
Caple subways, Bridges and Culverts.
The salary win be in accordance with Grade 4 (£571-£780 per annum) or Grade 5 (£567-£671 per annum) of Schedule D of the National Joint Board Agreement.
Closing date for receipt of applications, 12th August, 1954.

August, 1984.

Vacancy No. 113/54/AJ

TWO-SENIOR DRAUGHTSMEN (MECHANICAL) CONSTRUCTION DEPARTMENT.

Candidates should have experience on one or
more of the following:—

(i) Design and layout of Power Station equipment, including turbo-alternators boiler plant,
coal and ash plant and general station auxilharies.
(ii) H.P. and L.P. steam and feed pipework.
Condensing plant and reed heating systems and
material handling of station auxiliary equipment.
The salary will be in accordance with the
National Joint Board Agreement Grade 4 (£671-£780 per annum) or Grade 5 (£567-£671 per annum)
of Schedule D, according to experience.

Closing date for receipt of applications, 12th
August, 1954.

Closing date for receipt of applications, 12th August, 1954.

Vacancy No. 114/54/AJ POUR—SENIOR DRAUGHTSMEN
(ELECTRICAL) CONSTRUCTION DEPART—MENT.

Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. switchgear, transformers, E.H.T. and L.T. cables; knowledge of protective gear systems would be an advantage. The salary will be in accordance with the 1250 per annum) or Grade 5 (2557-257) per annum) of Schedule D according to experience.

Closing date for receipt of applications, 12th August, 1954.

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

Applications should be submitted on the official form AE6/ACT which may be obtained from the Divisional Establishments Officer, British Electricity Authority, P.O. Box 25, Barker Gate, Nottingham, and should be returned to the undersigned by the date stated. Please quote Vacancy Number.

L. F. JEFFERY Divisional Controller. 3464

L. F. JEFFERY
Divisional Controller.
3464
COUNTY BOROUGH OF DARLINGTON.
BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for ASSISTANT
The Department is dealing with a large programme of Education Work, Welfare Buildings, Housing and other general work.
Candidates who have had previous experience and are members of the R.I.B.A. will receive preference.
Applications giving full particulars of age, qualifications, present appointment with salary, previous experience with dates, and name and address of three Referes to be sent to E. A. Tornbohm, A.R.I.B.A., A.M.T.P.I., Borough Architech, Central Buildings, Darlington, not later than 16th August, 1954.

H. HOPKINS.

H. HOPKINS, Town Clerk

SOUTH-EASTERN REGIONAL HOSPITAL
BOARD, SOOTLAND
Regional Architect's Department
A vacancy occurs for an ARCHITECTURAL
ASSISTANT on the salary scale £440 x £25 (1) x
£20 (8)—£625 per annum; headquarters in
Edinburgh.
Applicants must be Registered Architects.
Experience in the design of Hospital building is
desirable but not essential, and the commencing
salary will depend on the applicant's qualifications.
Applications giving details of age, qualifications.

tions.

Applications giving details of age, qualifications and experience along with the names of two referees should be sent to the Regional Architect, 8, Drumsheugh Gardens, Edinburgh, 3, on or before Saturday, 7th August, 1954.

Architectural Appointments Vacant lines or under 7s. 6d.: earh 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 18-69 inclusive unless he or she or the employment is excepted from the provisions of the Notification of Vacancies Order, 1952.

SISTANT (at Intermediate stage) required for Architects' London office engaged in major works of restoration and construction of Schools and Colleges. Appointment offers excellent opportunities for supervision of works and calls for a candidate with initiative. Salary £350-£450 per annum. Box 2974.

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

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS and Draughtsmen or women required in busy office in the Home Counties. Some experience essential. Large varied practice. Please state experience and salary required. Bex 2137.

ECCLESIASTICAL ARCHITECT has vacancy for an ASSISTANT of Intermediate Standard who would be interested in old and new church work. Lawrence H. Bond, 11, Elmer Street, Grantham, Lines.

A RCHITECTS' ASSISTANTS required by a large Chain Store organisation. Commencing salary £600 to £750 per annum, according to experience. Staff canteen. Pension scheme. Write Box AJ 333, LPE, 110, St. Martin's Lane, W.C.2.

3048

A RCHITECTURAL ASSISTANT, Intermediate R.I.B.A. standard, with office experience, required in busy Lincolnshire office. State age, experience, and salary required. Box 3230.

A RCHITECTURAL ASSISTANT required, Intermediate standard, with some office ex-perience, for small busy practice. Shaw & Lloyd, F.R.I.B.A., 74, Gt. Russell Street, W.C.I. Museum 9693.

R EQUIRED for Architects' office, Central London area, young qualified ASSISTANTS interested in design and construction. Write, stat-ing experience and salary required. Box 2325.

ing experience and salary required. Box 2325.

CO-OPERATIVE WHOLESALE SOCIETY, LTD.,
ARCHITECTS DEPARTMENT, LONDON.
APPLICATIONS are invited for the following
appointments:—

(a) ASSISTANT ARCHITECTS, of Intermediate
and Final R.I.B.A. standard (salary range: £320£680 per annum, according to age and experience),
for work on varied and interesting projects.

(b) WORKER-UP (commencing salary up to
£600 per annum, according to age and experience).
The appointments are permanent and offer
prospects of up-grading.
Successful candidates will be required to undergo
medical examination for compulsory superannuations sand salary required, to W. J. Reed,
F.B.I.B.A. Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.I.

TURAL ASSISTANT of Intermediate standard; small office in North London area; must be good draughtsman and have good general experience in a private office. Reply with brief details of experience, age, etc., to Box 3158.

REMA CONSTRUCTION LTD., MILFORD MANOR, SALISBURY, require DRAUGHTS-MEN; additional draughtsmen required. Sound experience of building details for work on precast concrete prefabricated houses and other buildings up to £600 a year. YOUNG ARCHITECT. The position advertised has been filled. 3292

NEWLY formed Architects' Section of a manufacturing company, specialising in timber structures, requires further staff. Applications are invited from:

(1) Qualified school trained men up to 30 years of age, with a minimum of one year's experience. Enthusiasm essential. The position is an attractive one, offering security and interest.

(2) ARCHITECTURAL DRAUGHRSMAN, experienced in the preparation of working drawings and surveys. Interesting work, with good prospectis.

Applications, stating age, training and experience, to: Company Architect, Vic Hallam, Ltd., Valley Works, Langley Mill, Nottingham.

A RCHITECTURAL ASSISTANT required in busy West End office engaged on commercial work. Able to prepare sketch schemes and working drawings. Ability to prepare perspectives an asset. Reply stating age, experience and salary required to Box 3339.

REQUIRED at Company's Head Office, Guild-ford, ARCHITECTURAL ASSISTANT, A.R.I.B.A. Varied work, mainly factory. Five-day week. Salary by arrangement. Box 3334.

NORTHERN IRELAND office requires a charge of school building section. Interest in design and experience in contractual procedure essential. Salary from £800 p.a.

SENIOR ARCHITECTURAL ASSISTANT required with minimum qualification of Intermediate R.I.B.A. Preference will be given to applicants having several years of office experience in the design of industrial buildings and housing. Write stating age and details of experience and qualifications to: Staff Officer, Handley Page Ltd., Cricklewood, London, N.W.2.

A RCHITECTURAL ASSISTANT required for expanding City practice. Quick and accurate draughtsman with sound knowledge of construction. Minimum five years office experience. Salary £500-£700 according to qualifications. Apply with full details to Box 3362.

CLIFFORD TEE & GALE, F/F.R.I.B.A. require SENIOR and JUNIOR ASSISTANTS in their offices in Westminster and Birmingham for work on Power Stations, Research Laboratories and other interesting projects. Please apply to 5. Buckingham Palace Gardens, S.W.1 (SlOane 2296), or 45, Frederick Road, Birmingham, 15 (Edgbaston 3676). Five day week.

SENIOR ARCHITECTURAL ASSISTANT.— ENIOR ARCHITECTURAL ASSISTANT.—
Littlewoods Mail Order Stores, Ltd., require a Senior Architectural Assistant for their Construction Department. The position offers exceptional scope for a keen man, with sound experience of commercial buildings, factories and shops, and who is able to undertake surveys, prepare details and supervise erections. Preference will be given to applicants who have reached at least Intermediate R.I.B.A. standard. Attractive salary, Pension and Life Assurance Scheme. 5-day week. Applications, in confidence, stating age and full details of experience to date, to Personnel Manager, Littlewoods Mail Order Stores, Ltd., Endbutt Lane, Crosby, Liverpool, 23.

Crosby, Liverpool, 23. 3406

ARCHITECTURAL ASSISTANT required in Architects' Department of a large London financial organisation, to work on projected new office buildings and conversions. Please write, giving particulars of age, experience, and salary required, to Box 3370.

ARCHITECTS' JUNIOR ASSISTANT required, London office. West Central. Good prospects, varied practice, 5-day week. Luncheon vouchers. Should be good draughtsman, completed National Service. Write, age, experience, salary required. Box 3386.

ARCHITECTURAL ASSISTANTS REQUIRED.

BOX 3386.

ARCHITECTURAL ASSISTANTS REQUIRED.

SENIOR ASSISTANTS, with ability to work on own initiative on schemes of a contemporary nature, which include schools and industrial buildings.

JUNIOR ASSISTANTS also required, of Intermediate standard. All applicants must have completed National Service, and apply in first instance by letter to Greenhalgh & Williams, A.B.I.B.A., Court Chambers, 15, Mawdsley Street, Bolton.

Court Chambers, 15, Mawdsley Street, Bolton, 379

ASSISTANT required immediately for small expanding practice. Good draughtsman, Sound knowledge of construction, Salary according to experience. Ring James Ellis, VIC. 7733. 3416

EXPERIENCED ARCHITECTURAL ASSISTANT required immediately by well-known firm of City Architects. Working drawings and contemporary design. Salary by arrangement. Full particulars to Box 3375.

OUALIFIED GENERAL ARCHITECTURAL ASSISTANT required. Salary to be arranged. Write stating age and experience, to Gerald Shenstone & Partners, F./A.R.I.B.A., 34, Bloomsbury Way, W.C.I.

OUALIFIED or experienced ASSISTANT required in Architect Department of multiple Company in the Midlands, conversant with design, alterations and maintenance of retail shop premises, working drawings, specifications and surveys. Salary according to ability. Five-day week and pension scheme in operation. Applicants are requested to furnish details of training, age, experience, to Box 3462.

RCHITECTURAL ASSISTANT, Inter. to Final standard, required for S.W. London practice. Office experience essential. Salary by arrangement. Write, stating full particulars, to Box 3594.

JUNIOR ASSISTANT (Intermediate standard) required in private practice in Bath. Varied work, including housing, schools and hospitals. Experience necessary in preparation of working drawings, details and specifications. Write, giving usual information and salary required, to Box 3397.

CITY Architects require ASSISTANTS of both Intermediate and #inal standards. Office experience essential. Write, giving age, past ex-perience, and salary required, to Box 3396.

A BCHITECTURAL ASSISTANT required in Home Counties. General practice. State salary and qualifications. Box 3392.

ENIOR ASSISTANT required for busy Bradford office. Must be experienced and qualified. Reply in confidence, giving full experi-ence and salary required. Box 3390.

A RCHITECTS in South-East Scotland require ASSISTANT, qualified or Final standard. Apply, stating age, experience, and salary re-quired. Box 3388.

A RCHITECTURAL ASSISTANT required im-A RUMITEUTURAL ASSISTANT required immediately by private firm of Chartered Architects in Manchester, between Inter. and Final R.I.B.A. standard. Previous office experience essential. Write, with particulars of age, qualifications, experience, and salary required, to Box 3372.

A SSISTANT and JUNIOR ASSISTANT required for Architects' office. Application in writing, giving full details. to Devereux & Davies, F./F.R.I.B.A., 3, Gower Street, W.C.I. 3368

A RCHITECTURAL ASSISTANT required immediately. Interesting and varied work including housing, shops, halls and churches, etc. Apply, stating age, experience, and salary required, to McCarthy Collings & Co., 187, Forest Road, Coalville, Leicestershire.

A RCHITECTURAL ASSISTANT, of Intermediate standard, required for busy private office. Varied and interesting work. Please reply, giving full particulars and salary required, to Box 3425.

JUNIOR ASSISTANT required by Architect on Norfolk Coast. Write, stating age, training, experience, and salary required, to Box 3427.

A RCHITECTURAL ASSISTANT required for busy department of large multiple shop Organisation in Leicester. Excellent opportunities for promotion available to the right man. Apply, giving age, experience, and salary required, to Box 3429.

RAUGHTSMAN required for busy department of large multiple shop Organisation in Leicester. Excellent opportunities for promotion available to the right man. Apply, giving age, experience, and salary required, to Box 3430.

JOHN H. D. MADIN, Chartered Architect, A.R.I.B.A., 83/85, Hagley Road, Edgbaston, Birmingham, requires ONE JUNIOR ASSISTANT. Write, giving details of experience. 3417

SOUTH DEVON.—ASSISTANTS, about Inter. standard, required immediately for busy general practice. Salary by arrangement. Box 3437.

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

ARCHITECTS in Plymouth require male junior ASSISTANT capable preparing working drawings and details for industrial and domestic work, under principal's supervision. Salary, according to experience, £400-£450. Reply, quoting salary, to Box 3451.

A RCHITECTURAL ASSISTANT (25-30 years old) London, W.C., small varied practice. Intermediate standard. Working drawings, details. Office experience essential. Box 3449.

ONDON Architect requires experienced ASSISTANTS for the preparation of working drawings for interesting schemes abroad. Salary £10—£15 per week. Box 3448.

RCHITECTS Department of Progressive Furniture Combine with H.Q. in London and branches throughout the country, have vacancies in expanding Architects Department for the following:—ARCHITECTURAL ASSISTANT. Capable of working on own initiative with the minimum of supervision. Appointment will entail a certain amount of travelling to control contracts throughout the country. Work covered ranging from new shops and stores, alterations to existing buildings and general maintenance to present properties. YOUNG ASSISTANT to work in conjunction with the above appointment. Ability to survey existing premises and prepare working drawings and details with minimum of supervision. Occasional travelling involved. Both appointments will be subject to Company's super-annuation scheme. Write giving full particulars of age, experience and salaries required to Box 3447.

ARCHITECTURAL ASSISTANTS & ARCHITECTURAL DRAUGHTSMEN

REQUIRED:—Architectural Assistants, preferably up to or over Intermediate R.I.B.A. standard, with experience in Industrial and Comercial work. Also Architectural Draughtsmen. All applicants should preferably have experience in precast concrete and reconstructed stone. Superannuation scheme. Apply in confidence with details of experience, copies of references and salary required to Deputy Managing Director, The Croft Granite, Brick and Concrete Co. Ltd.. Croft. Leics.

A RCHITECT and ARCHITECTURAL ASSISTANTS required by Architect's Department of South London Building Contractors, engaged in Estate Development around London. Salaries according to experience. State age, experience, etc., to Box 3432.

A RCHITECTS require SENIOR and JUNIOR ASSISTANTS with good all round office experience. Salaries £400-£56, according to experience. Stephenson and Gillis, 2, Sayille Chambers, Newcastle.

JUNIOR and SENIOR ASSISTANTS required for Architect's Norwich office. All classes of works being carried out. Reply, giving age, experience and qualifications, if any. Box 3410.

HIGH Wycombe firm of Architects requires ARCHITECTURAL ASSISTANT, preferably qualified. Salary according to experience. Write giving age and particulars to Box 3411.

A RCHITECTURAL ASSISTANTS required,
preferably up to or over Intermediate
R.I.B.A. standard. C. H. Elsom, A.R.I.B.A., 44,
Catherine Place, Westminster, S.W.1, Victoria
3412
3412

Architectural Appointments Wanted

ENIOR Architectural Assistant, school trained, 14 years' experience in the design and super-vision of Office & Industrial Buildings, Research Laboratories, seeks permanent and responsible position in London Area. Box 3441.

EXPERIENCED DRAUGHTSMAN requires work at home. Tracings and/or Detail Drawings. Box 3400.

SENIOR ARCHITECT, Dip. Arch., Liverpool, A.R.I.B.A. (45), seeks stable position with responsibility and prospects in company or private practice. London preferred but would consider provinces. Works varied but mainly industrial and commercial. Experienced in handling all phases of large projects and control of staff. Highest references.

A R.I.B.A. requires position three days per • week, London area. Experienced in design, specifications, working drawings, supervision, etc. Box 337L.

A RCHITECTURAL ASSISTANT (28), Poly. Dip., 1 year's office experience, seeks position in progressive office, where a knowledge of languages would be an asset. Box 3438.

ARCHITECT, A.R.I.B.A., A.M.T.P.I., experienced. available for part-time work in London area. Box 3435.

INTERMEDIATE standard ARCHITECT requires post. Manchester area. Small private office preferably, period one year, October, 1955, Repeat several exams. Some office experience, Ring HEA. 2094.

A SSOCIATE, 7 years' varied experience, coupled with influential background, seeks whole or part-time appointment with firm offering prospects of partnership or position leading thereto, Southern England or London Area. Box 3460.

A R.I.B.A. Dip, Arch., Dip, T.P. (28), 4 years experience with Central London Architect, seeks progressive appointment in Liverpool or adjacent counties. Box 3415.

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 excepted from the provisions of the Notification of Vacancies Order, 1952.

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

WEST END Architect requires SECRETARY with shorthand-typing speeds of 120/50. Salary £7 10s. per week plus luncheon vouchers. Reply with details of age, experience, etc., to Box 3337.

DUILDING SURVEYOR OF ARCHITEC-TURAL ASSISTANT of Intermediate R.I.C.S. Standard, required by busy Watford Office of Chartered Surveyors with varied and interesting work. Please state experience and salary required. Box 3389.

ARGE London Company requires DESIGNER DRAUGHTSMAN. capable of producing own schemes for Interior Decoration and Shopfitting. Preparation of Working Drawings and Specifications. Experience in Hotel and Restaurant work an advantage. Good prospects, Pension Scheme. Apply Box 3414, stating experience and salary required.

QUANTITY SURVEYOR required by Civil Engineering and Building Contractors' organisation for works in the Rhodesias, with eventual position as Chief Area Surveyor. Successful applicant will be based at the area office in Lusaka. Must be capable of controlling staff and compiling measurements and final accounts. Experience in tendering an advantage. Permanent position with pension scheme. Write, stating experience, age and salary required. Box 3404.

DRAUGHTSMAN, JUNIOB, required for the Technical Office of Stramit Boards, Limited. Should have completed National Service. Knowledge of building practice and ability to produce good clean work essential. Write experience, age, salary, to: Mr. Gifford, Packet Boat Dock, Cowley Peachey, Nr. Uxbridge, Middlesex.

Services Offered

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

GOOD LETTERING IS ESSENTIAL for Commemorative Wall Tablets. Foundation Stones, etc. Layouts and F.S. templates prepared. Estimates given for the finished work in any material. Renowned as a Lettering Coutre since 1934. Sculptured Memorials, 67, Ebury Street, London, S.W.1. Tel.: Sloane 6549.

DETAILE and be dc. Qualifie

E XPERIE CHARTER Supervi-Reports, etc., fully experie

SITE Surv SITE Surveys plotted, mob Calculations; quantities, s supervision; Sewage Disp visits to bui engineer.

EXPERIE mission or Town P Enquiries to

F d lines or u

BLAGDO B LAGDO
large
Sites for the other Commented in the capable of in Architects of such proculars.
If arrange would wish Blagdom In London, W.

FOR SAI for DE lamp, 3 sets Box 3446. VERY s Room, ing, to let 'phone. L Secretary,

Secretary, EUS. 5501. lines or t

A J. B and Cloak %/107, St. FOR F B.S.S. 1722 Stanhope G

ARCHIT accordance de la contained office Reply, givi

6 lines or A RCHI A from and who we consultant.

A RCHI partnership would be and who responsibil advise on Highest r

M. A., wit partnershi lished pra

A

DETAILED SURVEYS and drawings of sites and buildings, reports, schedule of repairs, etc. Qualified Surveyor. LIV. 1839.

ted

ned.

ires

or ould inly in

trol 3401 per gn, etc.

oly.

in

ate 955. nce. 3436

oled

eto.

ars

28.

ese

cal nan 8-59 is

rm.

RY /50. ers. Box

and and

ER ing op-ind ind ets,

ing

ivil ors'

the

ley 463

28.

for

EXPERIENCED LADY TRACER invites work to do at home. Tel. FIN. 4414.

CHARTERED Architect offers services for Supervision, Surveys, Site Inspections, Reports, etc., in North and Midlands. Mobile and fally experienced. Box 3152.

TITE Surveys at short notice anywhere; Estate Surveys, 50 acres per week, contoured and plotted, mobile, and fully equipped; Structural claculations; Roads and Sewer Lay-outs, plans, quantities, specifications, run-off calculations and supervision; Sewerage Lift Design; isolated Sewage Disposal Units designed; reliable periodic risist to building and engineering works. All mdertaken promptly and efficiently by qualified eagineer. Telephone: London, LEE Green 8597.

2702

EXPERIENCED MODEL MAKER seeks commissions. Able to undertake Architectural of Town Planning models of all descriptions. Enquiries to advertiser: 6, Felden Street, S.W.6.

For Sale or Wanted

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

SITES WANTED.

Blarge funds available for the purchase of Bites for the erection of Shops and Offices and other Commercial Buildings. They are also interested in the purchase of Commercial Buildings capable of improvement and further development. Architects who have clients wishing to dispose of such properties are invited to submit particulars.

of such proposed and could be made the Company for arrangements could be made the Company would wish to retain the services of the architect. Blagdon Investments. Ltd., 106, Regent Street, London, W.1. Telephone: Regent 3786. 2921

FOR SALE—"Mavitta A.1. Drafting Machine," for DE or A board, complete with adjustable lamp, 3 sets of scales—perfect condition, price £12.

VERY suitable for Architect, large top-floor Room, with good natural and electric light-ing, to let. Three guineas as week, including phone. Light, heating, cleaning, etc. Apply secretary, 6, Endsleigh Street, W.C., or 'phone BUS, 5801.

Miscellaneous

i 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, %/107, St. Paul's Road, N.1. Canonbury 2061.

FOR FULLY GALVANISED Chain Link always specify MASTERFOIL, made to B.S.S. 1722. Fencing & Gates, Ltd., fourteen, stanhope Gate, London,, W. 1. Tel. Grosvenor 4522.

RCHITECT with provincial practices requires accommodation address or small self-contained offices in city or West End of London. Reply, giving full details, to Box 3462

Partnership

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

A RCHITECT (34) wishes to purchase a practice from a London City member about to retire, and who would be prepared to carry on as a paid consultant. Box 3077.

A RCHITECT (33) wishes to purchase an established practice in the City of London, partnership or outright, from a member who would be retiring in the course of a few years, and who would like to hand over the principal responsibilities beforehand. Principal could advise on an agreed salary after retirement. Highest references given. Box 3209.

M. A., (Cantab.), A.R.I.B.A., M.T.P.I., age 47, with wide connections in Kent, seeks partnership or would consider acquiring estab-lished practice.

A R.I.B.A., Dip. Arch. (40), at present Chief sibility and working on own initiative, seeks senior and progressive position/partnership. Own car. Capital available. Preferably Midlands or N. England. Box 3374.

Educational Announcements

4 lines or under, 7s. 6d.; each additional line, 2s. T.B.A. and T.P.I. EXAMS.—Stuart Stanley
G. A. Crockett, M.A./B.A., F./F.R.I.B.A.,
M./.A.M.T.P.I. (Prof. Sir Patrick Abercrombie in
assn.), prepare Students by correspondence.
10, Adelaide Street, Strand, W.C.2. TEM. 1603/4.

COURSES for all R.I.B.A. EXAMS.
Postal tultion in History, Testimonies, Design, Calculations, Materials, Construction, Structures, Hygiene, Specifications, Professional Practice etc. Also in general educational subjects.

ELLIS SCHOOL OF ARCHITECTURE 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 and at Worcester

A REFRIGERATOR should be part of the kitchen, NOT AN AFTERTHOUGHT

For particulars of TAILOR MADE refrigerators for houses and flats apply to :-

ROBERT C. SCUTT REFRIGERATION ENGINEER

52, HADLEY WAY, N.21 LABurnum 6262

ARCHITECTURAL & CONTEMPORARY

SIGN LETTERS

IN A VARIETY OF METALS AND FINISHES

WARD & COMPANY
128 CHELTENHAM ROAD, BRISTOL, 6

Telephone: 21536

MODELS

ESTAB.

John B. THORP

98 GRAY'S INN ROAD, W.C. TOWN PLANNING PUBLIC BUILDINGS ESTATES and INTERIORS TELEPHONE: HOLBORN 1011

FIBROUS PLASTERWORK OF **EVERY DESCRIPTION**

ALLIED GUILDS

King Edward Square SUTTON COLDFIELD. Tel: Sut 3809

For Electric motor Starters of proved reliability-specify-

MADE BY GEORGE ELLISON LIMITED . PERRY BARR . BIRMINGHAM . 228

HOT WATER AND VENTILATION

for

INDUSTRIAL . COMMERCIAL AND PRIVATE BUILDINGS

CHAS. P.



& CO. LTD

65, 65a SOUTHWARK ST. LONDON, S.E.I.

Phone : WAT 4144

WARERITE

VENEERED BOARD

The robust structural material for all types of fabrication.

WARE RITE-

HANDY PANELS

For renovating existing tables and counters.

WARERITE

PLASTICS

are made for the job in a full range of patterns. Write for your copy of:
"Installing Warerite
Laminated Plastics".

WARERITE LIMITED . WARE . HERTS WAB

T.I.S.

Specialists for Belling T/V Aerial Installations in Schools and large Blocks of Flats, etc.

'Phone 1802.

128, Nottingham Road, Mansfield, Notts.

REINFORCEMENT Service offered to Architects DESIGN Dept. for Der'ld Working Drawings, AND Bending Lists.—We can also SUPPLY Mild Steel Bars & High-Tensile Fabrics. COId Bending and Fixing—Accurate work to any Specification.— Quotations submitted without obligation

REINFORCEMENT DESIGN & SUPPLY CO., 120 CHEVIOT RD., W. NORWOOD, S.E.27. GIP 1356

ANOTHER 5 PRODUCT LONDON OFFICE: 167, VICTORIA ST., S.W.I TEL, VIC. 1000 SOMMERFELDS LTD. WELLINGTON . SHROPS . TELE 1000



Alphabetical Index to Advertisers

			72 6 (2) 22		PAGE
the state of the s	PAGE	*** ** ** ***	PAGE	Cillandra Daluta T.4.1	
Accordo Blinds, Ltd	lxxii	Floor Renovations, Ltd	lxxxvi	Silexine Paints, Ltd	XXVIII
Airscrew Co. & Jiewood, Ltd	iv	Frenger Ceilings, Ltd	xxxvii	Smith, Samuel. & Sons	1XXXIV
Alexandria Trading Corpn, Ltd	lxxiii	Glow Worm Boilers, Ltd	xxiii	Smith, Thos., & Son, Ltd	x!
	xxxiv	Gyproc Products, Ltd	lxxxv	Sommerfelds, Ltdx	
Allen, W. G., & Sons				South Durham Steel & Iron Co., Ltd	lvii
Allied Guilds	xci	Hall, John (London & Bristol), Ltd	lxxi		
Aluminium Union, Ltd	viii	Helliwell & Co., Ltd	lxxvii	Southerns, Ltd	lxviii
Anderson, D., & Son, Ltd	ix	Hills, F., & Sons, Ltd	xxii	Speedwell Gear Case Co., Ltd	xeiii
Architects' Benevolent Society	lxxx	Hollway, W. F., & Brothers, Ltd	-	Spencer, Lock & Co., Ltd	vii
	4 43 45 45	Holoplast, Ltd.	XXIX	Spirax-Sarco, Ltd	lxxi
Architectural Press, Ltd., The	1 1 11		lxix	Storry, Smithson & Co., Ltd	LAAL
liv, lvi, lxxiv, lxxv		Hope, Henry, & Sons, Ltd			-
Arens Controls, Ltd	XX	Imperial Chemical Industries, Ltd	xliv	Stott, James, & Co., Ltd	-
Ashwell & Nesbit, Ltd	lxxviii	Kahn, E., & Co	lxxxiv	Stramit Boards, Ltd	-
Association Fire Alarms Co	lvi	King, G. W., Ltd	xxxviii	Sundeala Board Co., Ltd	-
Austin, James, & Sons (Dewsbury), Ltd.	xxvii	King, J. A. & Co.	lx	Surrey Concrete, Ltd	
		Kinnell, Charles P., & Co., Ltd			
Ayrshire Dockyard Co., Ltd	lxxv		xci	Tarmac, Ltd.	1
Barking Brassware Co., Ltd	lxxiv	Laing, John, & Son, Ltd	xciv	Taylor, Robert & Co. (Ironfounders), Ltd	. lxxiii
Bartrey xlv	ili, xlix	Lamont, James. & Co	lxxiv	Teleflex Products, Ltd	
Batley, Ernest, Ltd	lxxxiv	Limmer & Trinidad Lake Asphalt Co.,		Tenaplas (Sales), Ltd	lxxxv
Braby, Fredk., & Co., Ltd.	lix	Ltd	lxxxv	Tentest Fibre Board Co	xlv
Brandt, Wm., Ltd.	lxxxvi	Linoleum Manufacturers' Association	lxix	Thermacoust, Ltd	Hz
	liii			Thompson, John (Beacon Windows), Ltd.	-5.45
Brentford Electric Ltd		Medway Building & Supplies, Ltd	xxxi	Thompson, John (Beacon Windows), Ltu.	1-
Briggs, Wm., & Sons, Ltd	li	Merchant Trading Co., Ltd	X	Thorn, J., & Sons, Ltd.	lx
British Aluminium Co., Ltd	xxiv	Metallic Seamless Tube Co., Ltd	lxxvi	Thornton, A. G	
British Electricity Co., Ltd	lxxii	Mills Scaffold Co., Ltd.	ii	Thorp, John B	xel
British Engineering Brick Association	xlvi	M.K. Electric, Ltd.	xviii	T.I.S. (Mansfield), Ltd	zet
British Insulated Callender's Cables, Ltd.	lii			True Flue, Ltd.	XXXII
		Moler Products, Ltd	lxxvii		
British Lead Mills, Ltd	xvii	Newalls Insulation Co., Ltd	xxvi	Trussed Concrete Co., Ltd	lxxx
British Mouldex Systems	xxxvi	Newman, William, & Sons, Ltd	xiv	Tucker, J. H., & Co., Ltd	IZZZ
Brooks Air & Heat, Ltd	xxxii	Northern Aluminium Co., Ltd	xxxix	Turner, J., & Sons (Preston), Ltd	
Broughton, J., & Co	lxxix	Paragon Glazing Co., Ltd	lxxviii	United Ebonite & Lorival, Ltd	
Cape Asbestos Co., Ltd	xxi	Penfold Fencing & Engineering, Ltd	lxxxiii	United Steel Co., Ltd., The	
Celotex. Ltd.	xvi				232
		Phoenix Timber Co., Ltd	lxv	Val de Travers Asphalte, Ltd	in in
Clyde Structural Iron Co	lxxix	Pyrene Co., Ltd	lv		viii, xlix
Colt Ventilation Ltd	xlvii	Pyrok, Ltd	xlii	Vulcan Products, Ltd	Xii
Colt, W. H. (London), Ltd	XXX	Reinforcement Design & Supply Co	xei	Vulcanite, Ltd	xi
Colthurst Symons Co., Ltd	xxxviii	Richardson & Starling, Ltd	lxxxiii	Walder Bros.	
Costain, Richard, Ltd.	lxvi	Riley Stoker Co., Ltd.	-40 45 45 484	Walker Crosweller & Co., Ltd	
Crittall Mfg. Co., Ltd.	xliii	Robertson Thain, Ltd.	1-4	Walpamur Co., Ltd.	-
		Delega Tools Co. Lad. Che.	lxi		XV
Croggon & Co., Ltd.	lxxxvi	Rolyat Tank Co., Ltd., The	Section of Managements	Ward & Company (Sign Letters)	xci
Crompton Parkinson, Ltd	lviii	Rom River Co., Ltd	vi	Ward, Thos, W., Ltd.	
Cuprinol, Ltd	xciii	Rubery Owen & Co., Ltd	XXXX	Warerite, Ltd	xci
Denny Mott & Dickson, Ltd	xix	Saro Laminated Wood Products, Ltd		Waring & Gillow, Ltd	
Dorman Long & Co	lxii	Scutt, Robert C	xci	Welconstruct Co., Ltd., The	lxxxiv
Econa Modern Products, Ltd.	lxxxvi	Sealocrete Products, Ltd.	aus	Wheatley & Co., Ltd.	ARABIV
Ellis, John, & Sons, Ltd.	lxxx			Wheeler D II or Co.	3
		Seco, Ltd		Wheeler, F. H., & Co	lxxiv
Ellis School of Architecture	xci	Semtex, Ltd	xi	Williams & Williams, Ltd	XXV
Ellison, George, Ltd	xci	Setright Registers, Ltd	lxxxiii	Wood, Edward, & Co., Ltd	xiii
Engravers' Guild, The	1	Shell Mex & B.P., Ltd		Woollaway Construction, Ltd	
Esavian, Ltd.	lxx	S.I. Building, Ltd	-	Wright Anderson & Co., Ltd	
Evode, Ltd	V	Sieber, James, & Co., Ltd.	-	Youngman, W. C., Ltd.	lxxv
Falkirk Iron Co., Ltd	lxvii	Siegwort Floor Co., Ltd., The		Zinc Alloy Rust Proofing Co., Ltd	xcii
Painta iton con section in the contract of the	*** ***	Siegnost Floor Con Little, The minimum		Zine Zinoy reaso r rooming Co., Ltd	7.017

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous Property, and Land Sales, lxxxvii, lxxxvii, lxxxix, xc, xci.

YOURS for the Asking

LEARN HOW TO:—
SPECIFY,
TEST,
USE,

SHERARDIZING

ZINC ALLOY

RUST PROOFING CO. LTD.

SHAKESPEARE STREET, WOLVERHAMPTON TELEPHONE: WOLVERHAMPTON 20647/8 ALSO AT LONDON & ROCHDALE.



AGE
XVIII
XXIV
XXXXIII
IVIII
IXXIII
XXXIII
IXXIII
XXIII
XXII

PL

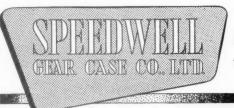
To She will be a
PA

T

PLANNED LOCKERING Specification for ARCHITECTS

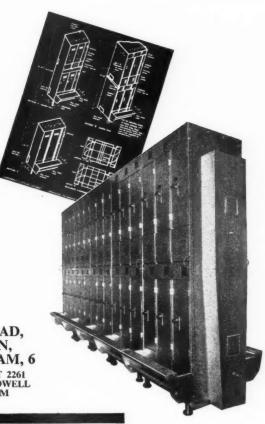
To all architects we offer our fully descriptive Information Sheets, giving details of our 'A,' 'B,' or 'C' type lockers which are suitable for all kinds of installations, Pithead Baths, Power Stations, Gas Works and amenities centres everywhere.

Heating of these lockers can be either by Plenum, Steam, Hot Water or Electric Strip—internal ducting is optional. If your lockering problem is more than usually difficult, a call by phone, post or in person will put you in touch with one of our installation engineers.



TAME ROAD, WITTON, BIRMINGHAM, 6

Telephone: EAST 2261 Telegrams: SPEEDWELL BIRMINGHAM



CUPRINOL provide a complete Wood Preservation Advisory Service

PRESERVATION OF OLD & NEW TIMBER



TREATMENT OF WOOD DECAY AND DRY ROT

The Cuprinol Technical and Advisory Services have been extended to give every possible assistance to architects, builders and municipal authorities who have to tackle problems of wood deterioration in churches, schools, public buildings etc. These services provide:—

1. Cuprinol experts who will help with diagnosis and give advice on methods and materials to be employed.

2. Assistance in hiring appropriate equipment to firms requiring it for special work.

to firms requiring it for special work.
3. Introductions to nearest authorised Cuprinol Application Specialists, who will collaborate or sub-contract for work.

sub-contract for work.

4. The Cuprinol Training School at which contractors, architects or municipal employees may take a special course in wood preservation in buildings.

★ Cuprinol Ltd. are manufacturers of Wood Preservers and do not engage in contracting work in competition with builders. For further details of services available please write to DESTRUCTION OF WOOD BORING BEETLES



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



Kells Secondary Modern School, Whitehaven, West Cumberland County Architect: John H. Haughan, F.R.I.B.A.

Post-war Schools



Fort Luton County Primary School, (Temp. County Sec.) Chatham Kent Architects: Read & McDermott, F.R.I.B.A., in collaboration with S. H. Loweth, F.S.A., F.R.I.B.A., M.I.Struct.E., County Architect



County Primary School, Maryport, Cumberland



Valley Primary School, Whitehaven, Cumberland County Architect: John H. Haughan, F.R.I.B.A.



Bourne Secondary Mödern School, Ruislip, Middlesex Architect: Howard V. Lobb, F.R.I.B.A.



JOHN LAING AND SON LIMITED

Building and Civil Engineering Contractors

GREAT BRITAIN, CANADA

UNION OF SOUTH AFRICA, RHODESIA

