The Architects' JOURNAL for January 8, 1959

# ARCHITEC JOURNA



★ 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 Ii one week, Il to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

andard

contents

BCIRA BDA

BEDA

BIA

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

VEWS and COMMENT

stragal's Notes and Topics

etters

fews

iary riticism

**ECHNICAL** SECTION

formation Sheets

formation Centre

urrent Technique

Vorking Details

vestions and Answers

rices

The Industry

URRENT BUILDING

Major Buildings described:

Details of Planning, Construction,

mishes and Costs

Buildings in the News

Building Costs Analysed

rchitectural Appointments

Wanted and Vacant

0, 33321 [Vol. 129

ARCHITECTURAL PRESS 11 and 13, Queen Anne's Gate, Westminster, W.I. Phone: Whitehall 0611

Price 1s. od.

Registered as a Newspaper.

Museum 0974

AAI . Royal 1826 Langham 5533 ABS

Architectural Association, 34/6, Bedford Square, W.C.1.

Association of Art Institutions. Secy.: W. L. Stevenson,
College of Art, Hope Street, Liverpool 1.

Architects' Benevolent Society. 66, Portland Place, W.1.

Association of Building Technicians. 1, Ashley Place, S.W.1.

Arts Council of Great Britain. 4, St. James's Square, S.W.1.

Aluminium Development Association. 33, Grosvenor Street, W.1.

Architects' Registration Council. 68, Portland Place, W.1.

Board of Architectural Education. 66, Portland Place, W.1.

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

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

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

British Cast Iron Research Association. Alvechurch, Birmingham. Victoria 0447-8 ABT **ACGB** Whitehall 9737 ADA Mayfair 7501/8 ARCUK Langham 5861 BAE Langham 5721 BC BCC Museum 5400 Welbeck 4185 BCCF

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 Redditch 716 Fremantle 8494 British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.

Glasgow Central 2891 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. BID BINC BOT

Trafalgar 8855 Garston 4040 BRS Building Research Station. Bucknalls Lane, Watford. BSA RSI

Building Societies Association. 14, Park Street, W.1.

British Standards Institution. British Standards House, 2, Park St., W.1. Mayfair 9000

Building Trades Exhibition. 32, Millbank, S.W.1.

City and Borough Architects Society. C/o S. A. G. Cook, A.R.I.B.A., Borough

Architect and Director of Housing, Town Hall, High Holborn, W.C.1. BTE CABAS

Holborn 3411 CAS County Architects' Society. C/o S. Vincent Goodman, F.R.I.B.A.,

County Architects' Society. C/o S. Vincent Goodman, F.R.I.B.A., Shire Hall, Bedford. Shire Hall, Bedford. Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. Belgravia 6661 Copper Development Association. 55, South Audley Street, W.1. Grosvenor 8811 Council of Industrial Design. 28, Haymarket, S.W.1. Trafalgar 8000 Councilfor the Preservation of Rural England. 4, Hobart Place, S.W.1. Sloane 4280 Coal Utilization Council. 3, Upper Belgrave Street, S.W.1. Sloane 9116 Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1. Reading 72255 Design and Industries Association. 13, Suffolk Street, S.W.1. Whitehall 0540 English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1. Regent 4448 English Place-Name Society. 7, Selwyn Gardens, Cambridge. CCA COID CPRE CUC CVE DIA EJMA

English Place-Name Society. 7, Selwyn Gardens, Cambridge.
Faculty of Architects and Surveyors. 68, Gloucester Place, W.1.
Federation of Associations of Specialists and Sub-Contractors,
14, Bryanston Street, W.1. **EPNS** FAS FASS Welbeck 9966

**FBBDO** 

Fibre Building Board Development Organization Ltd. (Fidor), Stafford House,
Norfolk Street, W.C.2. Covent Garden 3008
Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711 FBI Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711 Forestry Commission. 25, Savile Row, W.1. Regent 0221 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 Federation of Master Builders., 33, John Street, W.C.1. Tel.: Chancery 7583 (6 lines) 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. FC FCMI **FDMA FMB FPC** FRHB

Langham 4341 GPDA Gypsum Plasterboard Development Association. 11, Ironmonger Lane, E.C.2.

Monarch 8888 Sloane 4554 Gas Council. 1, Grosvenor Place, S.W.1. Georgian Group. 2, Chester Street, S.W.1.

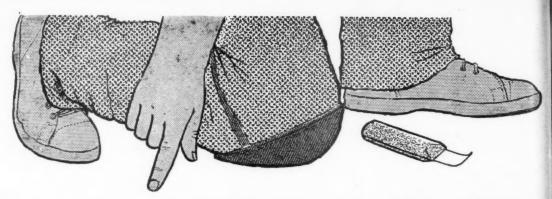
Belgravia 308
Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.
Whitehall 288
Incorporated Association of Architects and Surveyors. 29, Belgrave Square, S.W.1. Belgravia 3081 Whitehall 2881 GG

IAAS Belgravia 3755 Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1. Grosvenor 6186
Institution of Civil Engineers. 1, Great George Street, S.W.1. Whitehall 4577
Institution of Electrical Engineers. Savoy Place, Victoria Embankment, W.C.2. ICA ICE

Temple Bar 7676 Illuminating Engineering Society. 32, Victoria Street, S.W.1.
Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.
Institution of Heating and Ventilating Engineers. 49, Cadogan Square. IFS Abbey 5215 Sloane 8266

THVE Sloane 1601/3158 IIBDID Incorporated Institute of British Decorators and Interior Designers.

100, Park Street Grosvenor Square, W.1. Mayfair 7086



#### When you get down to the floor

Architects are saving much of their valuable time for creative work by calling in the specialists, MASKEL ROBERTSON, to handle the flooring specification.

For MASKEL ROBERTSON not only supply and lay flooring of all kinds, but can offer expert advice on the basis of their extensive experience:

#### Call in the specialists ...

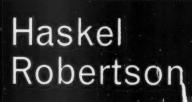
Thermoplastic tiles Lindleum
Synthanite scree Cork
Stair nosings Rubber
Vinyl/Asbestos tiles Duromit
Crestaline (PVC) Asphalte

Latex/cement screeds PVC tiles
Resinoid Bulgomme

er mit

Specialist Flooring Consultants and Contractors
Grafton Road, London, N.W.5. Telephone: GULliver 7171

HASKEL ROBERTSON LTD





## structural steelwork

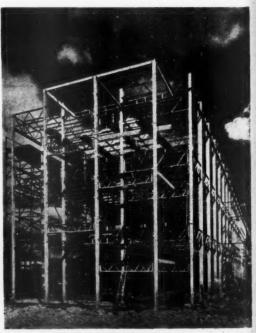
#### ● DESIGN ● FABRICATION ● ERECTION

For this B.E.A. Building, speed was the essence of the contract. Sommerfelds designed the Steelwork and from unloading the first lorry on site to completion of a 250-ton steelwork erection, took three weeks.



New Air Terminus buildings in Kensington for B.E.A. Photograph taken 16 days after commencement of steel deliveries. Main Contractors: Messrs' Richard Costain Limited.

The Architects for the Bowater Paper Corporation Limited's new Office Blocks at both Northfleet and Mersey required Lattice Steelwork on a 3ft. 4in. module. This allowed complete flexibility of internal arrangements and all service lines are easily run between floor and ceiling.



Part of a new Office Block for The Bowater Paper Corporation Limited.

Architects: Messrs, Farmer and Dark.

Sommer telds LTD. WELLINGTON SHROPSHIRE TEL 1000 Landen Office: 107 VICTORIA ST S. W. I TEL: VIC. 8843 AND 1000



Tin and Col

Col the cui are va un An rec the th

yo ser

# contracts

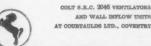
from

# Courtaulds Ltd endorse the supremacy of



#### VENTILATION

Time and again, industrialists large and small place repeat orders with Colt. And for three good reasons. Colt ventilation systems depend in the main on internal convection currents-not external forces-and are therefore little affected by the vagaries of the wind. Colt offer an unparalleled range of ventilators. And most important, every Colt recommendation is based on a thorough analysis of the building, plant and process either from a site survey or drawings. Such thoroughness influences firms such as Courtaulds Ltd. It will impress you, too. Ask your secretary to send for manual to Dept. L35/1A





Among the 12,000 major Industrial Organisations using Colt equipment are:

25 contracts: British Oxygen Co. Ltd.

15 contracts: Cow & Gate Ltd. 15 contracts: Dorman Long & Co. Ltd.

12 contracts: English Steel Corporation Ltd.

14 contracts: Ferranti Ltd.

16 contracts: General Motors Ltd.

11 contracts: Thomas Hedley & Co. Ltd.

15 contracts: Hoover Ltd.

22 contracts: Lever Bros., Port Sunlight Ltd.

9 contracts: Joseph Lucas Ltd. 29 contracts: National Coal Board

19 contracts: Philips Electrical Industries

21 contracts: The Plessey Co. Ltd.

20 contracts: Ruston & Hornsby Ltd.

14 contracts: British Enka Ltd.

14 contracts: Bristol Aircraft Co. Ltd.

32 contracts: English Electric Co. Ltd.

COLT VENTILATION LIMITED · SURBITON · SURREY · TELEPHONE: ELMBRIDGE 0161 (10 LINES)

11-STOREY FLATS AT GABALFA, CARDIFF.

John Dryburgh, A.R.I.B.A., A.R.I.C.S., A.M.T.P.I.

General Contractors:

George Wimpey & Co. Ltd. Plastering Contractors:

Plasterers (Liverpool & Chester) Ltd., Cardiff.

The two Gyproc Plasters used were Cretestone Concrete Bonding Plaster and Paristone Wall Finishing Plaster.



GYPROC AT

... supplied all the plasters used on the ceilings of the new blocks of flats at Gabalfa . . .

GYPROC PLASTERS

Gyproc know plasters. They know plastering technique and they know how to make gypsum plasters that are easy to apply, quick to dry and which ensure the highest standard of work. Typical of Gyproc general purpose plasters are Paristone Board Finishing Plaster in its three grades and Gyprone Board Finishing Plaster. Special purpose plasters include Crertstone Concrete Bonding Plaster and Deroosto Acoustic Plaster. Then Gyproc have made a special study of ready-mixed plaster; Gyprit and Gyproc Perlit Ready Mixed Plasters are scientifically mixed to give the operative a fast working and light-to-handle material. We have prepared information about Gyproc Plasters which you would find mation about Gyproc Plasters which you would find really worth studying. Write for leaflets and also state, if you desire, which class of plaster particularly interests you at the present time.

#### GYPROC PRODUCTS LIMITED

Head Office: Singlewell Road, Gravesend, Kent. Gravesend 4251/4 Glasgov Office: Gyproc Wharf, Shieldhall, Glasgow, S.W.1. Govan 2141/3 Midland Sales Office: 11 Musters Rd., West Bridgford, Nottingham. Nottingham 82101 London Office: Bath House, 62 Piccadilly, London, W.1. Grosvenor 4617/9

S/GP7

#### **CURTAIN WALL SEALING**

#### Two part compound

## POLEVO MASTIC

# with the Mixa-Pack

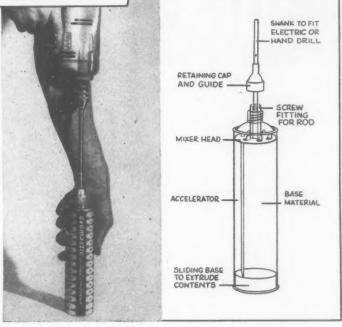
# is mixed on site in 30 seconds

Wherever sealing is essential to curtain walling - Polevo-mastic is the complete answer.

To speed up erection, Evode Ltd., have developed their unique Mixa-Pack.

Polevo-mastic is two part, the accelerator being in a plastic interlining separate from the base material. The built-in mixing head anables preparation to be completed within 30 seconds by simply attaching to any electric drill.





#### A Synthetic Compound of Extreme Flexibility

#### TOUGH-COMPLETELY WEATHER RESISTANT

Polevo-mastic is based on Thiokol. This is a long proven synthetic rubber which is applied in paste form and cures to a tough flexible compound with good adhesion to most surfaces.

The compound shows negligible shrinkage on curing, withstands ten times the expansion and contraction of conventional mastics without splitting or loss of adhesion. Polevo-mastic remains flexible in extreme temperatures, and is resistant to sunlight, ozone and all weather conditions. It is unaffected by common solvents, dilute acids and alkalis, sea water, mineral and vegetable oils, etc.

AN ASSOCIATE COMPANY OF



OF STAFFORI

\* SEND FOR LITERATURE

EVOMASTICS LTD., STAFFORD

Telephone: 2241

London Office: 82 VICTORIA STREET, S.W.I. Telephone: ABBey 4622

88.W-91

MK161 DHB

# STANDARDISE WITH

This versatile new range consists of interchangeable designs with standard 2%" fixing centres. Flush patterns are therefore suitable for mounting in all standard boxes with 23" centres. This is a decided advantage enabling stocking, ordering, installation and maintenance to be simplified. Surface mounting units have steel plates finished aluminium stove enamel or brass plates finished BMA or matt chrome. Flush mounting patterns are available moulded brown or ivory or with brass plates finished BMA

All ratings . . . 2, 5 and 15 ampere — all of the same dimensions. All with new recessed switch handles. All with or without Pilot-lamps.

One standard Box for flush mounting, with 23%" fixing centres.

Leaflet 248 available on request.

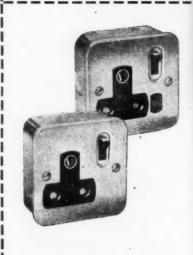
or matt chrome.

# An important new range of Round-Pin Switchsocket-outlets









Contra

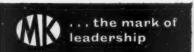












M. K. Electric Limited, Wakefield Street, London N.18 Edmonton 5151

# A GOOD EXCHANGE



Contractors: Higgs & Hill Limited

I DHB

New Telephone Exchange, Shoreditch, London, E.1

Architects: Ministry of Works

In design, in construction and in operating efficiency, here is a good exchange.

The General Contractors also made a good exchange when instead of a cement-lime-sand mortar, they decided to use a mortar composed of 1 part cement to 6 parts sand plus Febmix Admix Mortar Plasticiser, for

in doing so, they obtained a mortar that had greater plasticity, increased bond strength and improved water retentivity while in the plastic state, and in the hardened condition, they obtained increased resistance to the passage of water and to repeated cycles of freezing and thawing.

FOR BETTER MORTAR BETTER USE FEBMID

FEBMIX ADMIX
MORTAR PLASTICISER



151

102 Kensington High Street, London, W.8 (GREAT BRITAIN) LTD

Albany Road, Chorlton-cum-Hardy, Manchester, 12

**WES 0444** 

CHO 1063 DRH/7176



### What is a match worth?

One of the things we take for granted a match. Yet when we are without one a basic need fire may be impossible to obtain. We would feel a similar lack now if copper tubes were not a commonplace in our civilized lives. They convey vital water supplies, and once fitted they can be forgotten. Their reliability is an attribute that Wednesbury take the utmost care to ensure in manufacture. The name Wednesbury on copper tubes makes a striking difference.

#### choose WEDNESBURY TUBE

Obtainable from your local stockist or builders' merchan

BRA

11 21 2 Miles

THE WEDNESBURY TUBE CO. LTD., BILSTON, STAFFS

Associated Company, Glynn Bros. Ltd, London and Manchester



#### SEND NOW FOR THESE

INFORMATION BOOKS

- I. ROOFING
- 2. FLOORING
- 3. TANKING

The National Association of Master Asphalters have published these new booklets in which they describe the principles of application of "NAMASTIC" Asphalt.

"NAMASTIC" Asphalts are manufactured from British materials, and as such represent an economy in the United Kingdom. In addition, saving of freight on imported materials results in lower costs to the client.

AND SPECIFY WITH CONFIDENCE

# NAMASTIC FOR

The Association membership is made up of the following:-

Associated Asphalt Co. Ltd.
Bolton & Hayes Ltd.
Bolton Stone Concrete & Asphalt Co. Ltd.
William Briggs & Sons Ltd.
Cambridge Asphalte Co. Ltd.
Coverite (Asphalters) Ltd.
Davies Bros. (Asphalters) Ltd.
Durable Asphalte Co. Ltd.
Durastic Ltd.
Faldo Asphalte Co. Ltd.

Field & Palmer Ltd.
Improved Asphalte Co. Ltd.
Mountfield Junior
Natural Rock Asphalte Ltd.
Oxford Asphalt Co.
C. Pasini (Ipswich) Ltd.
Permanite Ltd.
The Rock Asphalte Co. Ltd.
J. Taylor & Sons (Asphalters)
Ltd.

For copies of these booklets or free technical information on Asphalt for Building, apply to the Secretary:-

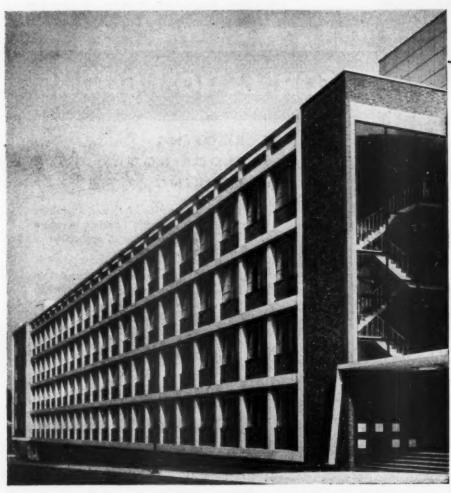
## ASPHALT ROOFING FLOORING TANKING



NATIONAL ASSOCIATION OF MASTER ASPHALTERS + 9 CLARGES STREET LONDON W 1

Telephone: Grosvenor 5333

Established 1933



Architects:
Messrs. Weightman & Bullen, Liverpool
Electrical Contractors:
Messrs. McGoff & Vickers Ltd., Liverpool & London

#### INSTALLATIONS LIKE THIS CALL FOR EAGER BEAVER SERVICE

The impressive new School of Medicine building, Liverpool University. The wing shown here houses specialised research laboratories, photographic rooms, workshops and museums. One hundred miles of Henley cables thread their way through scores of orderly ducts to provide essential electrical services.



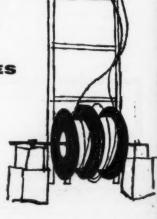
#### RUBBER and PLASTIC CABLES





w of the wid

V.R. Braided and Compounded P.V.C. Insulated and Sheathed P.V.C. Insulated only Polythene Insulated and P.V.C. Sheathed V.R. Insulated Tough Rubber Sheathed V.R. Insulated Lead Alloy Sheathed Flexible Cords-Rubber and Plastic



W. T. HENLEY'S TELEGRAPH WORKS CO. LTD., 51-53 HATTON GARDEN, LONDON, E.C.I . TEL: CHANCERY 6822



TOBAG

SHOP FI

T

"A

Con Servi Brow Lan or S St. Tele

P

trad Li thr

### FINLAYS

TOBACCOS

CONFECTIONERY



SHOP FITTERS: HARRIS AND SHELDON CO. LTD

The Entrance of the Gladiators

PILKINGTON'S

"ARMOURPLATE"

GLASS DOORS

Guaranteed for five years

Consult the Technical Sales & Service Department of Pilkington Brothers Limited at St. Helens, Lanes. Telephone: St. Helens 4001 or Selwyn House, Cleveland Row, St. James's, London, S.W.1. Telephone: WHItehall 5672-6.

PILKINGTON

BROTHERS

LIMITED

"ARMOURPLATE" is a registered trade mark of Pilkington Brothers Limited. Supplies are available through the usual trade channels.





# NEW! an unbeatable guarantee

\*AILL TIIMIE\*
GUARANTEE

By

ELMAC

First in the field for the manufacture of Houlded Toilet Seats from Powder complying with British Standard Specification

for an unbeatable product



If any CELMAC moulded plastic seat should prove defective under normal usage—it will be replaced without question.

This is a development which we have been seeking for many years. Now that we have absolute confidence in our new raw materials, we are proud to offer this warranty.

Celmac moulded plastic toilet seats have been leaders in their field for many years. This latest development puts them further ahead.

#### A Range of Forty Colours to Choose From

No. 170A

Double lightweight 4 buffer
full size seat and domed cover,
made from guaranteed
material. The best value for
money on the market. Available with full range of fittings.

No. 23A

Double medium weight seat and cover for competitive work. Solid underbase, four buffers, manufactured from B.S.S. guaranteed material. Available with full range of fittings.

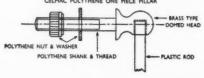
No. 25A
Double seat and cover, badged
B.S.S. Four buffers. Manufactured from B.S.S. guaranteed material. This seat is
unbeatable for value and
quality.

#### Celmac—All Polythene Fittings

This ALL Polythene one-piece pillar is the latest development in the trade. Absolutely corrosion free, no metal at all—and cheaper than any other fitting. The flexibility of this fitting is an added safeguard against accidental breakage.

breakage. All Celmac seats are available with this fitting, or with moulded pillars, chromium pillars, all with various rods and spacers.

#### NON CORROSIVE



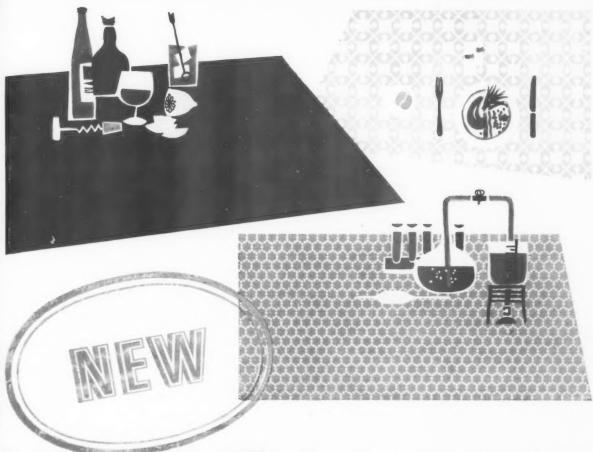
ROBERT M'ARD & COMPANY LIMITED

CROWN WORKS

DENTON

Telephone: DENTON 3837/8/9

LANCASHIRE



# Decorplast gives you 47 exciting colours and patterns

New Decorplast makes working-surfaces and walls really *glow* with colour—sets a new standard in top-class melamine-faced laminated plastics. It's as tough as it's beautiful. Doesn't easily crack, chip, stain or fade. It's cleaned with a damp cloth—because dirt cannot stick. Boiling water, grease, spirits, dilute acids and heat up to

310 F leave new Decorplast bright and colourful as the day it was made.

The whole new range, now in sheets 9' x 4' as well as 8' x 4', thickness \( \frac{1}{16}'' \), is always available in matt and gloss finishes—plus new wood veneers that really do look like wood! Write to the address below and ask for facsimile Colour Chart and list of Distributors.

# Decor plast

LAMINATED PLASTIC

Made by Holoplast Limited

SALES OFFICE: 116 Victoria Street, London S.W.1

TELEPHONE: VICtoria 9354/7 and 9981



offer ver, e e d for vail-

seat tive four rom rial.

lged anuuarat is and





Architectural Heritage...

Canterbury Cathedral

In a Modern World.... today, buildings are erected speedily, and the desire for high quality flooring continues to be in greater demand. GRANWOOD meets the challenge. Granwood is fire and damp resisting, and is now available in ten colours. It is proof against dry rot, vermin and insects. It does not expand or contract and is eminently suitable for electric and other forms of under floor warming.

#### GRANWOOD FLOORING CO LTD

RIDDINGS

DERBY

Telephone: Leabrooks 341/2/3

Telegrams: Granflor, Alfreton

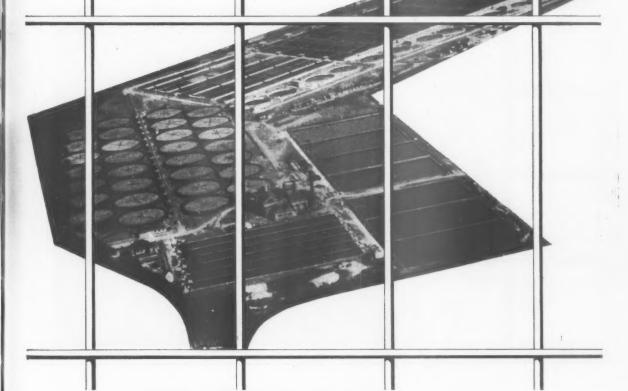
London Office: BATTLEBRIDGE HOUSE, TOOLEY STREET, LONDON, S.E.I. Tel: HOP 2929

# Maxweld reinforces it

The reinforcement fabric used in the reconstruction of the Derby Corporation Sewage Disposal Works at Spondon was supplied by Richard Hill.

When you require reinforcements, get the same prompt service by ringing the Maxweld Office in your area. They will give you all the facts on the type and quantity of fabric you'll need plus a rough idea of the cost. And they're backed by the Richard Hill Design Service who can then draw up more detailed plans and estimates.

Ring Middlesbrough (2206), London (Mayfair 3538), Birmingham (Midland 5625), Manchester (Central 1652), Leeds (2-7540), Bristol (24977), Glasgow (Central 2179).



#### Maxweld fabric

is manufactured by RICHARD HILL LIMITED (Est. 1868)

Newport Wire and Rolling Mills, Middlesbrough, Yorkshire. Tel: Middlesbrough 2206

A MEMBER OF THE FIRTH CLEVELAND GROUP



### RIPPERS STANDARD WINDOWS

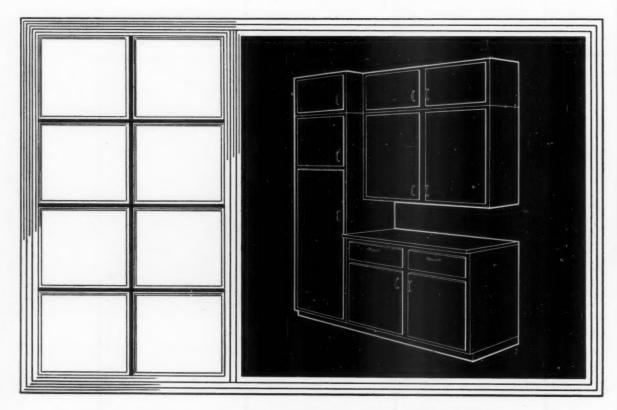
When you order windows, external door frames, internal door frames or kitchen units, make sure you buy Rippers—the finest standard joinery obtainable.

Over sixty years experience is behind Rippers quality—

#### 'the best in the business'

Write to-day for our free Catalogue: it describes over three hundred designs from which endless window combinations can be arranged, and includes descriptions of all our products.

Apply for your free catalogue to Dept. A.J. 8/1.



RIPPER

"you'll be glad you chose WOOD windows"

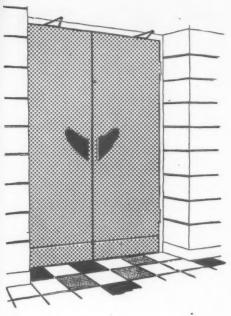
#### RIPPERS LIMITED

CASTLE HEDINGHAM, HALSTEAD, ESSEX

TELEPHONE: 191 HEDINGHAM (4 lines). TELEGRAMS: RIPPERS, CASTLE HEDINGHAM

LONDON OFFICE :

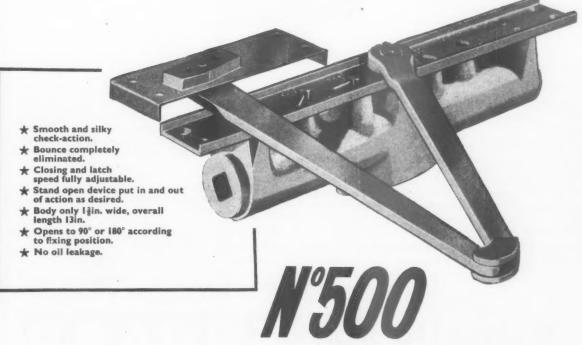
9, SOUTHAMPTON PLACE, LONDON, W.C.I. TELEPHONE: CHANCERY 8306/7.



# Only the SLIM arms can be seen

The "No. 500" is a new door closer designed for use when the appearance of the door and surroundings are of first consideration. With nothing visible except the slim arms, which are styled to be as streamlined and unobtrusive as possible,

it achieves complete concealment without loss of power or door control. The "No. 500" is suitable for internal single-action doors not exceeding 7ft. by 3ft. in size, and 70 lb. in weight.



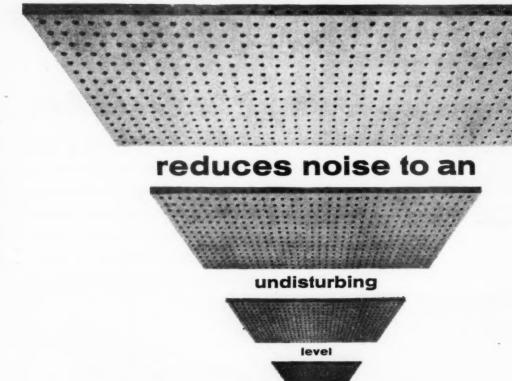
PATENTS PENDING

Concealed Overhead Door Closer

William Newman & Sons Ltd.

HOSPITAL STREET, BIRMINGHAM, 19.

# PAXBOARD



Newalls (Reg'd Brand) PAXBOARD presents the architect with a first-class medium for large-area acoustic insulation.

The modern tendency to use large rooms in office blocks results in an artificially increased noise level due to numbers of people working together, and makes acoustic treatment more essential than it would otherwise be. Similarly in factories, the provision of a sound-absorbent ceiling which reduces noise, and simultaneously insulates heat more effectively than any building board, is an attractive proposition, particularly in view of the reasonable cost for an all-asbestos product.

PAXBOARD has been produced especially for this class of work.

It is  $\frac{1}{2}$ " in thickness and available in sizes up to 6' 0"  $\times$  3' 0", has a very good efficiency (50% absorption coefficient at 500 c.p.s. — 75% at 2,000 c.p.s.), is not affected by repeated decoration and, being composed entirely of asbestos, is absolutely *fire-proof* and is rot-proof and vermin-proof.

PAXBOARD weighs less than 1-lb./sq. ft. and the larger than normal acoustic board size renders erection cheaper and more convenient.

With all these practical attributes it is small wonder that PAXBOARD is firmly established as the architect's first choice for large-area acoustic insulation.

Full technical information available on request.

# Newalls PAXBOARD

NEWALLS INSULATION CO. LTD.

Head Office: WASHINGTON, CO. DURHAM

A member of the Turner & Newall Organisation

Offices & Depots at: LONDON, GLASGOW, MANCHESTER, NEWCASTLE UPON TYNE, BIRMINGHAM, BELFAST, BRISTOL and CARDIFF

Agents and vendors in most markets abroad

Instant **fingertip** adjustment gives you PERFECT VENTILATION under any conditions

An outstanding advance in **MODERN VENTILATION...** 

THE NEW

Controlaire





When the demand is for an efficient window fan, and outside installation is costly and dangerous-specify the Controlaire.

It can be fitted and cleaned entirely from inside the room, and each operation requires very little time. The Controlaire is cheap to run and requires no maintenance because it is simple in design and sturdily made. The cream and black finish ensures freedom from corrosion and blends well with any decorative scheme.

TWO MODELS-each guaranteed for 12 months. A.C. current only. 240 volts, other voltages if required. 50 cycles. No interference with radio or T.V. Wall fixing fans also available, details on request.

Size	Extraction rate	Wattage	Minimum window size	Retail price
8" diameter blades	17,650 cu. ft. per hour	25	10½" × 10½"	£12.12.0
10" diameter blades	35,000 cu. ft. per hour	35	13½" x 13½"	£17.17.0

at the same time

FRESH

AIR IN

and

AIR OUT

TALE

Complete this coupon and post TODAY Please send me full details of the CONTROLAIRE Indolator

Name ....

WM. MILLER (NEWCASTLE) LTD.

Railway Terrace, Newcastle upon Tyn Telephone: Newcostle 3-4055 & 3-7504

WINFIELD SMITH ENG. SUPPLIES LTD.

Orchard House, 14 Great Smith Street, London, S.W.I.

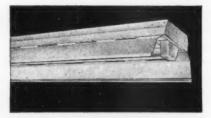
# EKCO

**Essex Range** 

PATENT APPLIED FOR

FLUORESCENT FITTINGS

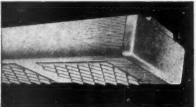
Over 200
Fluorescent
Fittings from
one basic spine

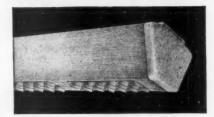














\* Full range of quick-fix metal and plastic reflectors with open or closed ends

\* Modern styled diffusers with coloured endplates—quickly detachable for ease of maintenance

EKGO-ENSIGN ELECTRIC LTD., 45 ESSEX STREET, STRAND, LONDON, W.C.2. TEL: CITY 8951 SALES OFFICES, ILLUMINATING ENGINEERING DEPTS., SHOWROOMS AND DEPOTS IN

LONDON · MANCHESTER · BIRMINGHAM · NOTTINGHAM · GLASGOW · CARDIFF

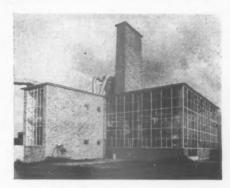


FREEDMAN UPHOLSTERING CO. LTD., BASILDON, ESSEX

J. Seymour Harris & Partners, Architects

#### RADIANT PANEL HEATING

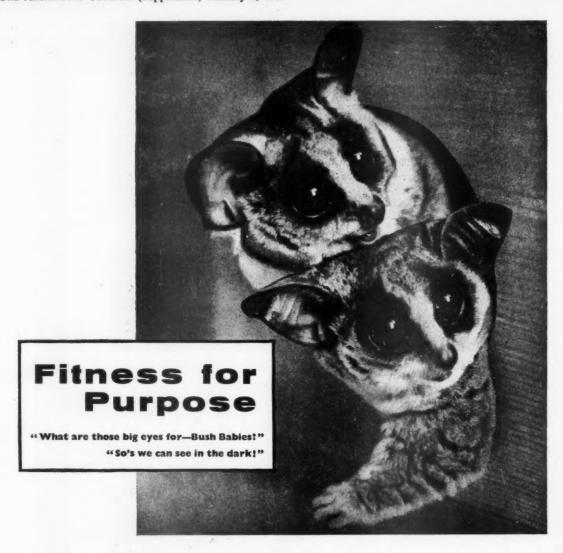
\* Continuous panel at high level and individual panels below eaves level give even distribution of heat. In the boiler house (on the right) an oil-fired Cochran boiler and a wood waste boiler together produce hot water which is circulated to the radiant heating units.



\* Extract from Publication No. 348, copies of which will gladly be sent gratis, on application to

# HOPE'S HEATING & ENGINEERING LTD

Smethwick, Birmingham & 16 Berners Street, London, W.1 Branch Offices at Leeds, Cardiff & Hull



From our earliest days, when we invented Duresco—the first and still foremost oil-bound water paint—we have studied the problems presented by new methods and materials and the need for a continuous development of decorative and protective coatings to keep pace.

Though we must confess that we have not yet succeeded in making a paint which will light up the dark, we have produced a whole series of specialities: amongst them—SILCOLAC which, by blending the best of traditional materials with the very latest synthetic resins, provides a porcelain-like finish of intense durability; DURESCO EMULSION COATING, a polyvinyl acetate emulsion paint with extraordinary opacity; TEXIDEC, a plastic texture paint which will withstand the rough usage of constant traffic in passages and corridors; TWINCOTE, the universal wall primer undercoat which is alkali resistant and possesses great hiding power. And many more . . .

### Duresco Products

If you have a special problem on hand where the conditions are unusual and a new approach may be necessary, our TECHNICAL ADVISORY SERVICE is unreservedly at your disposal.

DURESCO PRODUCTS LIMITED, THE INVENTORS OF WATER PAINT

LONDON: Charlton, S.E.7., GREenwich 0034. MANCHESTER: 65 Great Ducie St., DEAnsgate 3161.

# Plan with PANAX

#### Melamine Surface Plastic





PANAX, while being more heat resistant, more flexible than otherwise comparable laminates, costs less! Versatile PANAX, with endless surface possibilities in shops, ships, hotels, hospitals and homes, cafes, restaurants, canteens, clinics and cinemas, is extremely hard, micro-smooth, non-absorbent and of high dimensional stability. Satin and Matt finish in a wide range of contemporary colours and patterns, including realistic wood grains. Standard sheet size:  $8' \times 4' \times \frac{1}{18}$ 

MELAMINE SURFACE PLASTIC PANAX

Send for Samples and Literature to:-

are

AL

VT

161.

NORTH BRITISH PLASTICS LIMITED, BLAYDON, CO. DURHAM. Phone: Blaydon 346/9. Grams: Panax, Blaydon-on-Tyne

# ECT Plon

# TO CUT YOUR BUILDING COSTS

Outlay on pipes is only a fraction of the cost of a drainage installation. In winter one out of every five days is lost when putting in conventional pipes. With Key pipes, however, the job still goes ahead cutting out unproductive labour, keeping down overheads and therefore cutting costs.

Now you can keep to schedule Delays are negligible with Key pipes, because they can be laid and tested in almost any weather, even despite bad ground. Preplanning with Key can be done accurately, so that operations are smoothly sequenced and closely dovetailed. Snags are avoided and schedules kept or bettered.

**Urgency on large projects** When your normal drainlaying team is too small for a big rush job, work can still go ahead successfully, by making up with semi-skilled men.

### COST OF A DRAINAGE INSTALLATION

nor

From from dra Bain res

skil

equ

wei

No

No

W

Lo

COST OF LABOUR

+ COST OF OVERHEADS

COST OF HOLD-UPS

COST OF SITE DISRUPTIONS

COST OF MATERIALS



#### BRITISH STANDARD KITE MARK

Key pipes comply with BS2760 1956. They are the first pitch fibre drainpipes to carry the British Standard 'Kite' Mark. This is a guarantee of quality and means that the Inspectors of the British Standards Institution have access to our pipe factory at any time.

Use KEY
and cut
this total cost

# THE JOB GOES AHEAD -against all odds

Rain? Driven taper joints give Key an immediate advantage over cement-jointed rigid pipes, which cannot normally be laid in waterlogged trenches. Runs can be prefabricated at ground level, lowered into prepared trenches and tested immediately.

**Frost and Snow?** Here again the taper joint means that work can still go ahead with Key. In fact frosty days are usually ideal for laying these modern drainpipes.

**Bad Ground?** Key pipes do not have to be laid in concrete, and haunched, on bad ground. Being resilient, they are better without concrete. The savings in skilled labour, time and cost are obviously considerable.

**Site Congestion?** Open trenches and pumping equipment normally cause hold-ups on site in wet weather. Immediate laying, testing and backfilling with Key pipes overcome this problem and keep traffic flowing.

**Hot Sun and Drying Winds?** Even good weather can be bad weather when pipes have to be mortar-jointed. This problem never arises with Key pipes.

#### More advantages of KEY PITCH FIBRE PIPES

No corrosion Remarkably resistant to acids and alkalis

**No root growth** The close fitting tapered joints are machined to close limits.

No cracking through settlement Natural resilience means that pipes will not crack through normal earth movement.

Faster laying—fewer breakages 500 ft. an hour is a modest average with semi-skilled labour. A trench can be excavated, the drain laid, tested and backfilled in a day Long lengths, toughness and resilience mean fewer breakages.

**Widely approved** Most public authorities and relevant professional bodies have given their approval.

**Lower handling costs** Your unloading and handling costs will be cut by 75% because Key Pitch Fibre pipe is only one quarter the weight of salt glaze ware. It is available in the same diameters, in convenient 8 ft. lengths.

#### Ask for a demonstration

A practical demonstration of the advantages of Key pipes can be arranged at any time through your merchant, who will also supply any quantity you require within a matter of hours.



SPEED THE JOB-CUT THE COST WITH



PITCH FIBRE PIPES

A PRODUCT OF THE KEY ENGINEERING COMPANY LIMITED

LARKFIELD, NR. MAIDSTONE, KENT. TELEPHONE: MAIDSTONE 7461 AND 7233

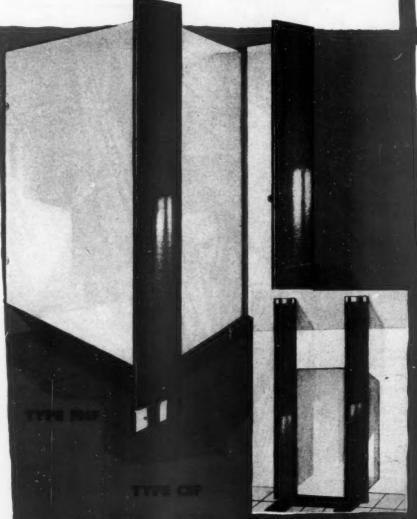


TGA KDIZ

#### **Toilet cubicles**

#### take on a new look





In no part of the building is the provision of maximum accommodation within minimum limits of greater importance than in the usual offices." The new ultraflexible Rowe system of Pressed Metal Toilet Cubicles completely satisfies all considerations, practical and aesthetic. Ceiling or floor fixed, flush or semi-flush, Rowe Toilet Cubicles are in four standard types, covering between them the needs of civic, hospital or commercial buildings, factories and junior or senior schools. Construction is robust and ingenious, a special feature being that rails over doors can be dispensed with. Styling and finish are unusually handsome and the partitions are available in a choice of twelve colours. Before you get down to the detailed planning of the smallest room, let us send you a brochure containing detailed specifications of Rowe Pressed Metal Toilet Cubicles.

Illustrated are Types FMF (Floor Mounted Flush) and CSF (Ceiling Suspended Flush) for hospitals, civic and commercial buildings.

#### ROWE INDUSTRIES (KIRKBY) LTD.

BY INDUSTRIAL ESTATE, LIVERPOOL, ENGLAND, TELEPHONE; SIMONSWOOD 2451

Samples also available for inspection in the Showrooms of our Associates

MESSRS. ROWE BROS. & CO. LTD., in:

LONDON 10 DOVER STR
LIVERPOOL PALL MALL, L
BIRMINGHAM BERKLEY STR
BRISTOL CANONS MAR

EXETER GLASGOW 10 DOVER STREET, PICCADILLY, W. 1. Tel. Hyde Park 5761
PALL MALL, LIVERPOOL, 3. Tel. Central 5401
BERKLEY STREET, BIRMINGHAM, 1. Tel. Midland 2791

BERKLEY STREET, BIRMINGHAM, I. Tel. Midland 2791 CANONS MARSH, BRISTOL, I. Tel. Bristol 23171 QUEEN STREET, EXETER. Tel. Exeter 74134 22'39 SHAMROCK ST., GLASGOW. C.4. Tel. Douglas 8211

ROWE BROS & CO. (CANADA) LTD. FIRST AVENUE, AJAX. ONTARIO. 196. RICHARDS STREET, VANCOUVER. 2, 9/



plaint
thou paintest
he paints
we paint
you paint
they paint

You don't have to be a grammarian to know the present indicative of paint is

**DRYNAMELS** 



Birthplace of a thoroughbred. Restored section of Jaguar Works decorated throughout with Drynamels Paints.

Say DRYNAMELS and be word perfect



the nmos of

ltrased etely ling or h, four ween bital tories ngenihat nsed un-

choice ou nning send etailed

loor riling

S.

Full documentation of Decorative and Industrial Paints on request.

DRYNAMELS LIMITED, HALL GREEN, BIRMINGHAM, 28.

#### monthly review by WILLIAMS & WILLIAMS

#### 'WALLSPAN' FOR NEW B.O.A.C. WING HANGAR

Both ends of this vast new maintenance hangar at London Airport are glazed by Williams & Williams-the 2-story central workshop block being emphasized by a panel of 'Wallspan' set in a projecting concrete frame. Aluminium windows are set in the 'Wallspan' grid and three types of opening lights-top-hung, projected, and vertical-pivoted are incorporated. The spandrel panels are Vitroslab.

The basic design is an interesting solution to a recurrent problem in the design of aeroplane hangars whose height, after allowing for high-level services, is dictated solely by the tail-fin height of the various aircraft to be accommodated. Airliner design in recent years has tended towards increasing tail heights, and the hangar designer has been faced with a difficult economic problem since every foot of increased height is reflected in increased capital cost and higher heating, lighting and maintenance costs. Whatever height is decided upon may still prove inadequate for some new aircraft a few years hence. But on the other hand a reversal of the present trend-airliners designed on the Delta configuration for examplewould result in hangar height becoming so much wasted space.

The new B.O.A.C. Wing Hangar, as the name implies, is designed to accommodate only the wings and fuselage of the aircraft-the sliding doors are shaped to close around the rear fuselage leaving the tail unit outside. Engines, undercarriage, flight deck, passenger cabin, wing fuel tanks and wing control surfaces-the usual objects of routine maintenance-are all under cover.

The reinforced concrete structure consists of a pair of hangar pens, each with a completely unobstructed 565 ft. wide opening and depth of 110 ft. arranged back-to-back but separated by a central two-floor workshop block. The hangar pen roofs are suspended by ties from this central block.

#### 'ALOMEGA' WINDOWS FOR CORNISH COMFORT

This study flat is high up, midway between the coasts of Cornwall. The client wanted big windows for the sake of the panoramic views across to St. Ives but had misgivings about draughts. The architects' solution to his problem was to install 'Alomega' double hung sashes-heads, sills, jambs, and meeting rails all designed with integral weather-stripping to keep draughts out, even in a blustery south-wester coming across thousands of miles of Atlantic! Other reasons for specifying 'Alomega' -no maintenance: no cords or counter weights or balances to go wrong; no painting because the windows are allaluminium: easily adapted to a 3 ft. building module: the 2 ft. 8½ in. width was used—others from 1 ft. 2½ in. to 3 ft. 5½ in.: ideal combination with picture window—see illustration opposite.

Last (but not least in these Subtopian days), the sash window is considered in a special way to be the window for the West Country and 'Alomega' happily combines the technical resources of today with the graceful design of the eighteenth century.

A further advantage which was not applicable in this particular instance, but of considerable value in congested urban sites, is the fact that with 'Alomega' the building can come right up to the building line.

#### NEW STANDARD WINDOWS CUT SITE COSTS-NEED ONLY ONE COAT OF PAINT

Williams & Williams standard domestic windows to BS 990 in both 1 ft. 8 in. and 2 ft. ('Z' range) modules are now available galvanized, primed and painted. The windows are processed in an entirely automatic plant which is believed to be the largest of its kind in the world.

The assembled frames are loaded on to a conveyor-chemically cleaned. etched and electro-galvanized. Still on the same mechanical conveyor, the windows are dipped in a primer bath and stoved for 25 minutes at 350°F. They then receive a sandy-beige coat and are finally stoved a further 25 minutes -again at 350° F. The paint technology of the operation has been worked out in collaboration with ICI and the second coat is their beige No. B215/166/2.

This process offers four major advan-

1. Since the human element is elimi-

nated, a much more even distribution of paint is assured.

2. All surfaces of the frames are painted, including those which will be in contact with the masonry and which in the ordinary course of events could not be painted.

3. The fact that both primer and second coat are stoved lends greater durability to the paint giving together with the galvanizing coat an efficient triple protection to the steel surface.

4. The second stoved coat can be regarded as an undercoat. Because of its light shade only one finishing coat need be applied on site.

#### **WILLIAMS & WILLIAMS** RELIANCE WORKS CHESTER



Member of the Metal Window Association

#### B.O.A.C. WING HANGAR, LONDON AIRPORT

Engineers for reinforced concrete structure: Sir Owen Williams & Partners.

New Works Manager, B.O.A.C.: L. B. Haley, M.ENG., A.M.I.C.E., A.M.I.H.V.E.

General Contractors: W. & C. French Limited.

A General view-note the tails of Britannia aircraft protruding from the hangar pen on the extreme right of the photograph.

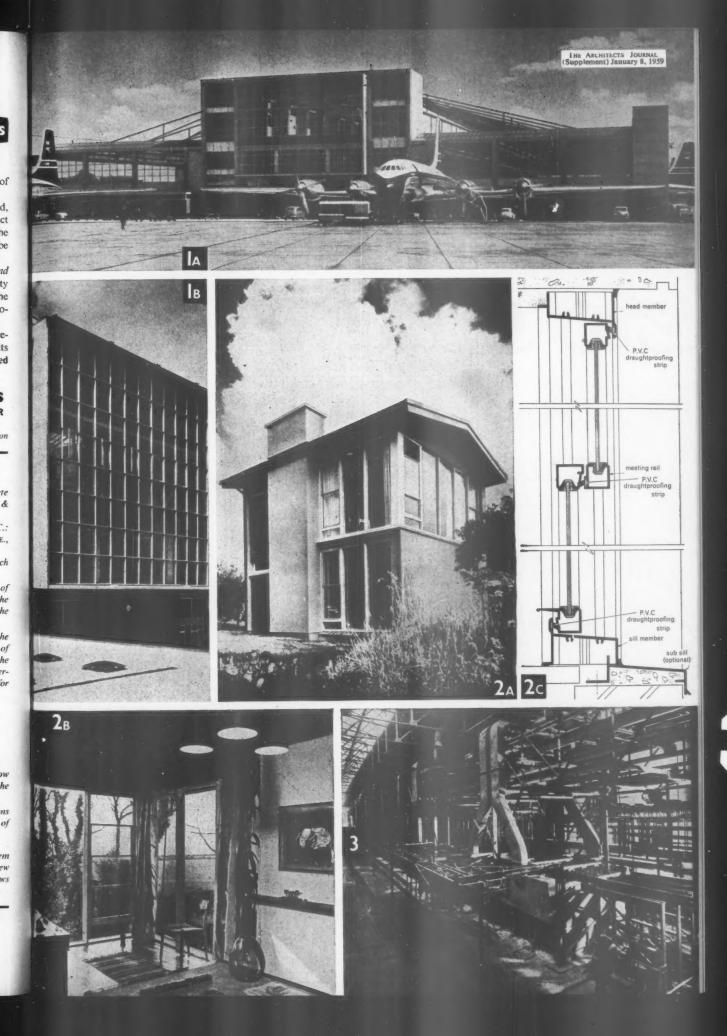
B Detail of the 'Wallspan' on the central workshop block-3 types of opening lights can be seen in the aluminium windows. Note the permanent railway along the cornice for the cleaners' cradle.

#### 'LITTLE TREFEWHA', PRAZE, CORNWALL Architects: Taylor & Crowther, Chartered Architects.

B Interior of the study showing how the 'Alomega' sash forms part of the glazed corner.

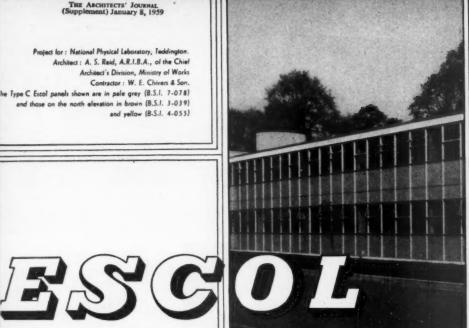
C Draughtproofing plastic extrusions at head, meeting rail and sill of 'Alomega' double-hung window.

Part of the automatic conveyor system on which Williams & Williams new standard paint-finished metal windows are processed.

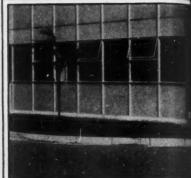


THE ARCHITECTS' JOURNAL (Supplement) January 8, 1959

Project for: National Physical Laboratory, Teddington. Architect: A. S. Reid, A.R.I.B.A., of the Chief Architect's Division, Ministry of Works Contractor: W. E. Chivers & Son. The Type C Escol panels shown are in pale grey (B.S.I. 7-078) nd those on the north elevation in brown (B.S.1. 3-039) and yellow (B-S.I. 4-055)







# PORCELAIN ENAMELLED STEEL INFILLING

(Senting Patent No. 796118)

PANELS

SCOL has been specified at home & overseas for: SCHOOLS OFFICE AND FACTORY BUILDINGS LAB HUCLEAR POWER STATIONS

Stewart and Gray are the patentees and sole manufacturers of ESCOL products.

The process has been entirely pioneered and developed in the U.K. for many years, and the Company, which is entirely British and has no connections with foreign manufacturers, are unrivalled leaders in the manufacture of porcelain enamelled steel infilling panels.

BAILWAY STATION BUILDINGS & BOD AIRPORT INSTALLATIONS HOSPITALS MULTI-STOREY PLATS SHOPS & STORES

16 OR IS GAUGE **PORCELAIN** ENAMELLED STEEL FACE

> 4" or 3" SBESTOS BO

#### PANEL SECTION TYPE A

Composite panel consisting of 16 or 18 vitreous norcelain enamelled steel short to | ar | asbestes board. The asb may also be covered by an enamelled stor galvanized cheet. Weight: 5 Jb. U value: 0.40.

Our experience, gained in 4 years of panel production and backed by our research and development organisation, is at your service.

There is an ESCOL panel to meet your specific require

ESCOL PANELS ARE MANUFACTURED IN THEIR ENTIRETY BY

#### STEWART & GRAY LTD

SWAINS ROAD, TOOTING, S.W.17

Telephone: MITcham 1643

MEMBERS OF THE VITREOUS

ENAMEL DEVELOPMENT COUNCIL AND

THE PORCELAIN ENAMEL INSTITUTE

# ANKARBOARD ACOUSTIC board and tiles for SOUND construction



By courtesy of B.O.A.C.

ANKARBOARD has been chosen by many important companies because it provides the *correct* amount of sound absorption—so necessary in present day functional building. The pleasing effect of tiles or perforated boards offers limitless opportunity—in office, home, shop or factory—to interior decorators. ANKARBOARD can be supplied treated to Class 1 for spread of flame B.S.S. 476/53.

Acoustic Boards \(\frac{1}{2}\)" or \(\frac{3}{2}\)" thick, are available in 12\" or 16\" widths and in lengths up to approx. 18\'. Grooved and ship-lapped for easy fixing. (Also available unperforated as insulation "longboards").

**Acoustic Tiles**  $\frac{1}{2}$ " or  $\frac{2}{3}$ " thick in sizes 12" x 12", 16" x 16", 24" x 24", 12" x 24", 16" x 32" and 32" x 32". Tiles are bevelled on all four edges.

Perforations for Boards and Tiles 4 m.m. holes at 15 m.m. centres. Depth of holes is arranged for maximum acoustic effect while corner holes are bored to half thickness, thus ensuring good grip when tiles are screwed or nailed to fixing grounds.



ITUTE

MANUFACTURED BY

SVENSKA CELLULOSA AKTIEBOLAGET

SUNDSVALL · SWEDEN

For further particulars apply to the Sole Selling Agents for U.K. and Eire:-

MARTIN OLSSON AND SONS LTD

MELBOURNE HOUSE · ALDWYCH · LONDON W.C.2



#### -it's the CLAY-LATH Key that GRIPS



Sole United Kingdom Distributors: A. QUILIGOTTI & COMPANY
LIMITED
Milton Street, Plymouth
Grove, Manchester 13

SCAFFOLDING
(GREAT BRITAIN) LIMITED
Willow Lane, Mitcham
Surrey

WILLIAM PROCTOR & SONS LIMITED 54 Denby Street Sheffield 2

J. M. & J. BARTLETT LTD.
Lombard House
Warwick Street

Blasgow, C.2 Lombard House Warwick Street Newcastle upon Tyne 2



BSF

is

### Now this is an underlining I can use

Black Sheathing Felt handles pleasantly, lays easily-that's why experienced asphalters thank you for specifying it by name. This is the ideal underlining for hot asphalte and the perfect keying medium; it resists cracking and creeping; gives complete isolation from the substructure; doesn't wrinkle, shrink or absorb moisture. All asphalters get the best and the most lasting results when you . . .

specify Asphalte laid on **Black Sheathing** Felt for your job

> Black sheathing

Manufactured by

John Rogers Ltd., Belfast.
D. Anderson & Son Ltd., Manchester.
Engert & Rolfe Ltd., London.
John Erskine Ltd., Belfast.
Robt. McCalmont & Sons Ltd., Belfast.
F. McNeil & Co. Ltd., London.
Permanjie Ltd., London. Permanite Ltd., London.



Specify and use it as the underlay for Mastic Asphalte Roofs and Floors.



## rompton RECESSED FITTINGS

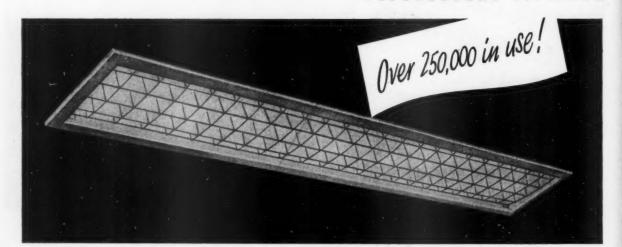
Now, to the clean-lined modern look of recessed fluorescent fittings, add the advantages of Crompton 'New-Range' standardised parts.

Smart flush-mounting frames accept either shallow opal dishes, diffusing light generally; louvres, limiting the spread of light; or open frames, allowing normal cut-off with, if necessary, quick adaptation to diffusers or louvres.

Simple fixings to usual structures; maintenance easily carried out from below. Ask for full details from your nearest Crompton Parkinson branch office.



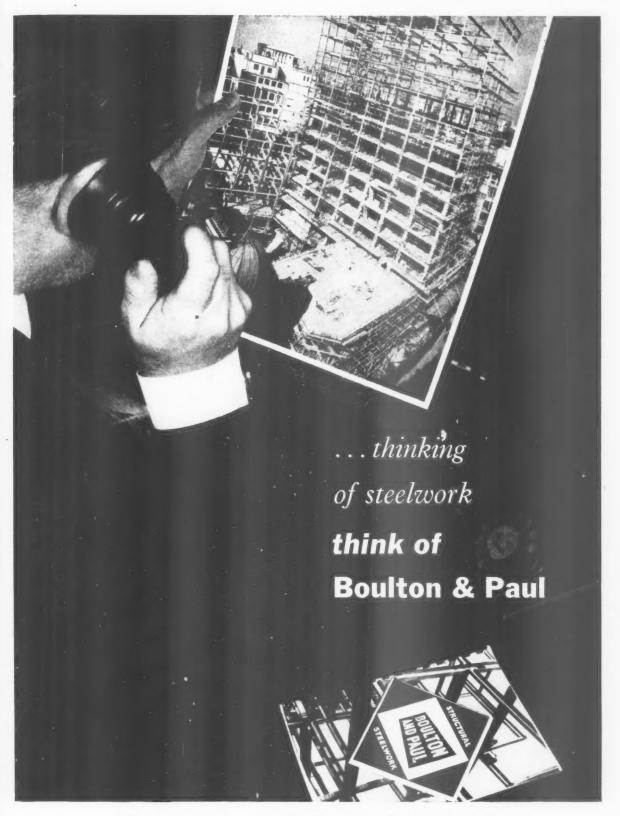
## (rompton 'NEW-RANGE'



CROMPTON PARKINSON LIMITED CROMPTON HOUSE, ALDWYCH, LONDON W.C.2.



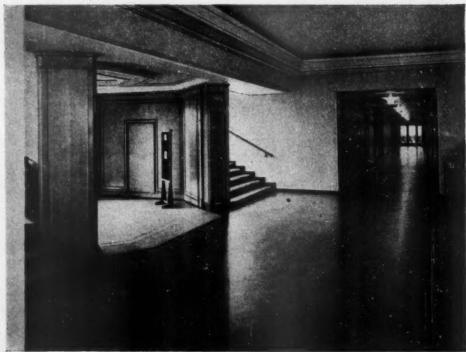




Boulton and Paul Limited
FABRICATORS AND ERECTORS OF STRUCTURAL STEELWORK
NORWICH · LONDON · BIRMINGHAM

AP:CE3

#### FLOOR THAT HAS TO BE SURE



Architects: Cecil Howitt & Partners,
St. Andrew's House, Nottingham.

This is the floor of the PORTLAND BUILDING NOTFINGHAM UNIVERSITY 1,000 square yards of Korkoid flooring were treated with Bourne Gleem two years ago and subsequently maintained with Bourne Tilegloss.

Flooring Contractors:

Korkoid Decorative Floors.

At least 1,200 students use this area daily but Floor Treatments Limited specialise in methods for maintaining hardworking floors. Responsible for the floors in some 35,000 schools, hospitals and public buildings, their position in the field is unique. Backed by extensive research facilities and a nation-wide organisation, Floor Treatments Limited work in close co-operation with architects, flooring contractors, Local Authorities and Government Departments, and provide a service that is unrivalled.



Send for this outline of the service offered by Floor Treatments Limited—"THE CARE OF FLOORS"—to:

FLOOR TREATMENTS LTD

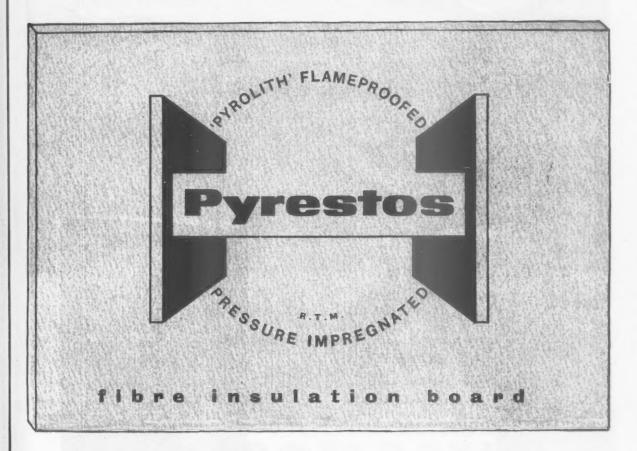
WYCOMBE HOUSE, AMERSHAM HILL, HIGH WYCOMBE, BUCKS.

Tel: High Wycombe 4214

CONTRACTORS TO THE MINISTRY OF WORKS. ADMIRALTY and EDUCATION AUTHORITIES throughout the country.

## Flameproofed

throughout under pressure

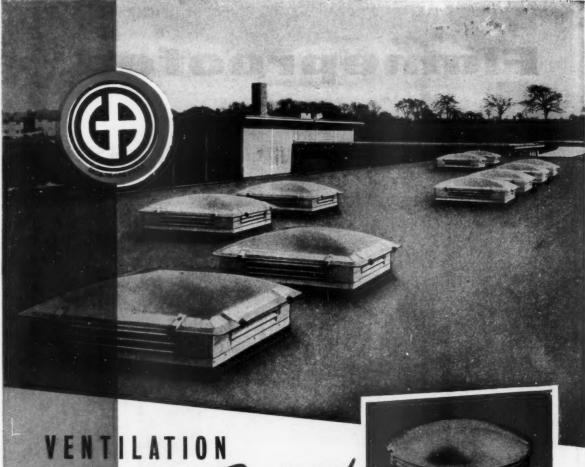


Factory insulation with fire-safety—by 'Pyrestos'. Cutting, grooving and bevelling do not reduce its flameproof qualities. The fire retardant chemicals are an integral part of the board, they are effective throughout its thickness, whilst leaving the thermal efficiency of the board unchanged. 'Pyrestos' is proofed against fungal decays, insect grubs and termites, and has been officially shown to conform to Class 1, BS 476—with no flamespread whatsoever.

Class 1 - without a flicker of flame or a shadow of doubt

Pyrestos

S BUCKINGHAM PALACE GARDENS - LONDON S.W.:



## VENTILATION - and Daylight!

DOME VENTILATORS

- Permanent or controlled ventilation
- For rectangular or circular domes in glass or perspex
- Increased lighting area over ordinary domelights
- · All-seel construction, galvanized after manufacture
- Fully weathered external louvres
- Optional internal hit and miss shutters
- \* Unique toggle for hand or long arm control
- Designed for mounting on prepared concrete or timber curbs

Waite for fully illustrated literature

# 

Greenwood-Airvac

ventilation

PATENTEES DESIGNES S AND MANUFACTURERS OF NATURAL AND SECHANICAL VENTILATING



BEACON HOUSE, KINGSWAY, LONDON W.C.2 CHANCERY 8135 (4 lines). 'Grams: 'AIRVAC', LONDON.

## GALVAFROID THE COLD GALVANISING PROCESS

- \* GALVAFROID is easily applied by brush. It requires no specialised labour and covers ferrous metals with a highly concentrated metallic
- \* GALVAFROID confers cathodic protection in the same manner as hotdip galvanising and can be applied under almost any conditions.
- \* GALVAFROID may be used as a selffinish (battleship grey) but is also outstanding as a primer for most paints. If the coating is damaged rust spread from the exposed substrata is positively prevented electro-chemically.

THE BRUSSELS HALLMARK: The mastic and anti-corrosion products of Secomastic Ltd. are specified throughout a great part of the world and were awarded a Diploma of Honour and two Silver Medals at the Brussels Exhibition.
(Highest award to a British firm entering products judged in Class 37/2
"Building Materials and Processes")

\*Regd. Trade Mark

MANUFACTURED BY

for SITE STEELWORK and the maintenance of IRON AND STEEL in service

## SECOMASTIC

LIMITED

For further information please write to: Architectural Department,

SECOMASTIC LIMITED.

BRACKNELL, BERKSHIRE

Telephone: Bracknell 910 (10 lines)

Secomastic products also include: 'Secomastic' joint sealing compound 'Secostrip' preformed mastic strip.



"George! We've got trap troubles."

" What's up, Dad?"

"Corrosion, my lad. These new detergents and bleaches may banish wash-day worries, but they are a bit hard on plumbing systems especially when concentrated in trapped waste water."

" Why don't we fit the new A.B.M., H.D. Polythene trap, Dad?"

"Do I detect another A.B.M. sales talk coming on, George?"

"You do, Dad. The new 1½ in. seal A.B.M. trap is made from white H.D. polythene and is worth talking about. This plastic is strong enough to eliminate any necessity for metal reinforcement, corrosion can be forgotten, and it is unaffected by hot water."

"Will it suit any waste?"

"The A.B.M. trap can be fitted with any one of the three waste grids,  $3\frac{3}{8}$  in. dia. for sinks,  $2\frac{7}{8}$  in. for baths, and  $2\frac{7}{16}$  in. for basins. All are made in heavily chromium plated brass and are supplied with a cadmium plated screw."

"How do you clean it out?"

"The A.B.M. trap has a full 11 in. waterway with a perfectly smooth streamlined interior which cannot normally collect dirt. If the trap should become blocked with a large piece of refuse, the cleaning cap is easily removed by hand."

"What about the small space under a bath?"

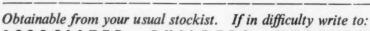
"The A.B.M. trap only projects 4\frac{1}{4}in, which means the floorboards don't have to be cut away. It leaves more storage space under a sink, too."

"Sounds a fine job, George."

"I haven't finished yet, Dad. The A.B.M. trap is supplied complete with the A.B.M. 'Fingafix' joint which allows simple connections to be made by hand to 1\frac{1}{2}in. B.S.S. 659 copper tube or Special Diameter 1\frac{1}{2}in. A.B.M. Polythene tube. The outlet is threaded 1\frac{1}{2}in. B.S.P. so a standard cap and lining or any other pipe are easy to couple up as well. A polythene conversion bend can be supplied to convert to an 'S' trap."

"George! Why haven't we got some new A.B.M. traps?"

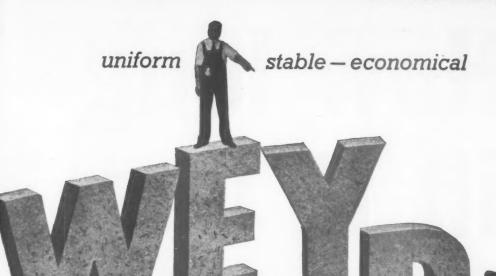
"They're on the site, Dad!"



ASSOCIATED BUILDERS MERCHANTS LIMITED DEPT. AJ BROKEN WHARF · UPPER THAMES STREET · LONDON · EC4

TED





IMPORTANT-Advance News

WEYROC production soon to be greatly increased

Quality-always improving-to be even further improved

THE BOARD
YOU CAN
TRUST



Medloc

ONE OF THE WORLD'S GREAT MAN-MADE MATERIALS

THE AIRSCREW COMPANY & JICWOOD LTD . WEYBRIDGE . SURREY . TELEPHONE: WEYBRIDGE 2242/7

# How long will it last?

We are asked this important question daily. And our short answer is...an ASBESTOLUX lining specification will outlast the life of the building in which it is installed!

#### THERMAL INSULATION AND FIRE PROTECTION

The new Thermal Insulation (Industrial Buildings) Act, 1957, specifies the kinds of materials which, if used to a substantial extent to achieve the standard of insulation, must either conform to a prescribed standard of resistance to the spread of flame or be used in such a way that they do not add to the risk of fire.

An Asbestolux lining specification will provide a superior standard of insulation and fire protection to the minimum standard as laid down in the new Act, and at the same time ensure EXTREME DURABILITY.

Technical data sheets on constructional details, planned fire protection and specification recommendations, finishes, etc. are available.

You are recommended to write for details or for consultant advice NOW!

## **ASBESTOLUX**

The non-combustible asbestos insulation board



Manufactured by:

CAPE BUILDING PRODUCTS LIMITED, COWLEY BRIDGE WORKS, UXBRIDGE, MIDDX TELEPHONE: UXBRIDGE 4313

AX9



#### Service

Catesbys have laid lino for sixty years. Service built upon the fruits of this experience—complete understanding and knowledge of the craft is worth having. Only Catesbys can give it.

X

AX9

#### Staff

Well laid lino gives longer, better service than lino laid indifferently. Catesbys send an expert and their own fully trained fitters to every contract. They ensure perfect lino laying.

#### Advice

Catesby's advice is impartial. They will recommend a certain type of lino only when lino is known to be the ideal floor covering. Catesbys will suggest the most suitable grade.

#### Stock

It is always easier and quicker to choose and specify a design, colour and grade from line in stock.

At Catesbys you see line in the piece—and you can choose from the biggest stock in Europe.



TOTTENHAM COURT ROAD, LONDON, W.1. MUSEUM 7777



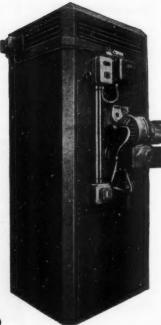
But that's not all. Efficiency and economy are of prime importance too and Colt heaters score heavily here. The units are specially designed to ensure absolutely uniform heating throughout the building and the final cost for every 100,000 B.T.U. dissipated into the heated zone is reduced to as little as 11.95d. And every Colt heating installation is as scientifically planned as a Colt Ventilation Scheme. Colt heating engineers are always available for free consultation.

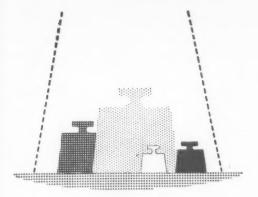
Write for further details to Dept L151/1



Oil Fired Air Heaters







Because the correct
constituents are accurately
proportioned and intimately
mixed-in during manufacture
you get the perfect

mortar material with



## WALCRETE

which is made under rigid laboratory control to Blue Circle standards. Only Walcrete, suitable sand and water are needed on the site.

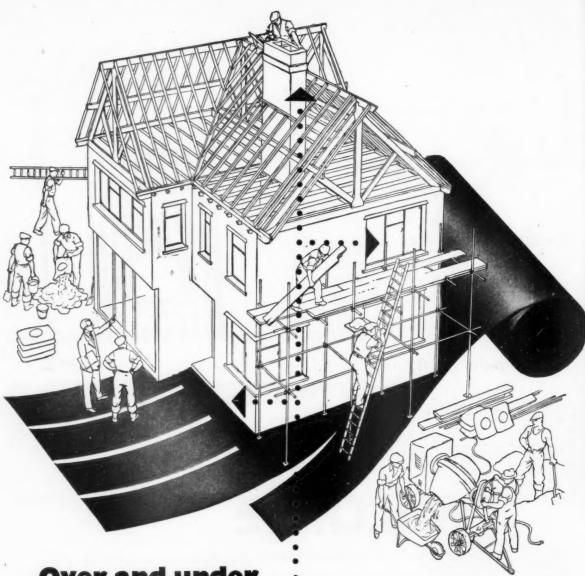
Because of its high sand carrying capacity Walcrete produces a cheaper mortar for brickwork, rendering, internal plastering etc., with the following properties:—

Excellent plasticity and workability
Low shrinkage and moisture movement
Higher resistance to sulphates than conventional mortars
Excellent cohesiveness
Frost resistance. Good water retentivity

Write for further details and prices to:

THE CEMENT MARKETING COMPANY LIMITED
PORTLAND HOUSE, TOTHILL STREET, LONDON, S.W.I
G. & T. EARLE LIMITED, HULL
THE SOUTH WALES PORTLAND CEMENT & LIME COMPANY LIMITED, PENARTH, GLAM.





Over and under and in between...

Foundations, walls, floors, roof...at many points in modern building IBECO provides the neatest answer to awkward proofing, lining, insulating problems. It speeds the work, saves man-power, cuts the costs. We'll be glad to send you samples.

C. Davidson & Sons Ltd., Mugiemoss, Aberdeenshire.



WATERPROOF BUILDING PAPER

# LOW Silhouette, ROOF UNITS OF DISTINCTION





LIGHTWEIGHT VENTILATION UNITS

- \* Moulded Glass-Fibre Construction
- \* Polyester Resin Bonded
- ★ Fire Resistant
- ★ Non-corrosive and with High Impact Strength

Designed to suit Pitched Roof Asbestos and other sheetings and for all flat roof constructions and deckings.

Write for details

\* Aerofoil fan type "LOW SILHOUETTE" unit shown above is designed for ducted extract systems where resistance conditions call for duties up to 2" s.w.g. Exhaust capacity range 500 c.f.m. to 23,000 c.f.m. fans 12" to 38" diameter with external lubricators for easy maintenance.

★ Propeller fan type "EXTRA LOW SILHOUETTE" unit with fans 12" to 36" diameter designed mainly for free intake conditions. Capacity range 500 c.f.m. to 12,200 c.f.m. Automatic shutters to conserve heatoptional extra.

★ BROOKS "LOW SILHOUETTE" units combine positive high output ventilation with low power consumption and attractive appearance. Spun weather caps 24" to 72" diameter are non-corrosive aluminium. Steelwork all hot-dip galvanized after manufacture.

#### **BROOKS VENTILATION UNITS** LIMITED

Trafalgar House, Great Newport Street, London, W.C.2 Telephone: COVent Garden 1355/6

FAN-POWERED ROOF EXTRACTION AND INPUT UNITS SPECIALISTS IN

specify TELEFLEX

NEATAGEAR

## NEATAGEAR the modern method of window control

At a cost within the budget of all, windows can be brought within easy reach with 'Neatagear' window and ventilator control.

Neat in appearance, positive in action, it costs LESS to buy and install—because it's simple in design, easy to fix and adaptable to CENTRE, TOP or BOTTOM hung windows.

Neatagear requires no soldering, no special tools, nor alteration to window frames. In a choice of bronze or satin chrome, 'Neatagear' blends with any colour scheme—and once installed needs no painting, lubrication or maintenance, will not jam, or lose its smart finish.

#### TELEFLEX PRODUCTS LTD BASILDON ESSEX

Telephone:

BASILDON 22861 (10 lines)

Telegrams:

TELEFLEX PHONE BASILDON

Cablegrams:

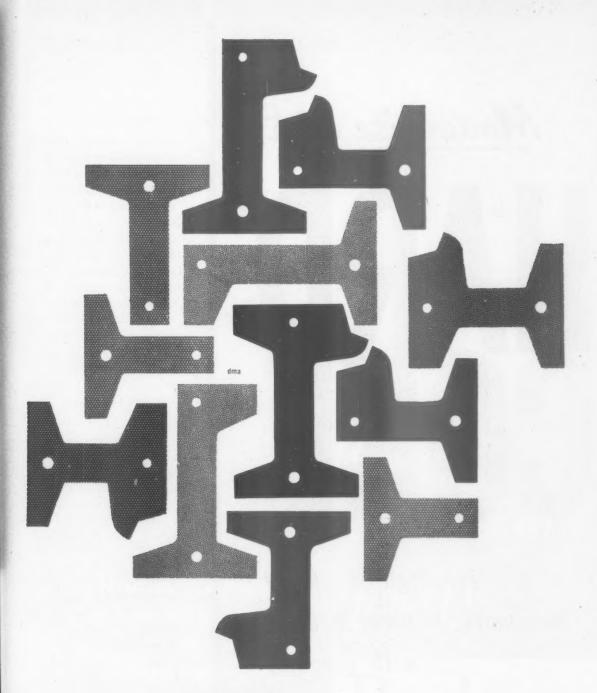
TELEFLEX BASILDON

To: TELEFLEX PRODUCTS LTD., BASILDON, ESSEX

Please send me, without obligation, full details of NEATAGEAR

NAME

ADDRESS



## adaptability

Planned variations upon the three RAPID sections The Rapid Floor Co. Ltd. Africa House, Kingsway, W.C.2 permit full freedom and flexibility of design John Ellis & Sons Ltd. Leicester

This adaptability is but one of the many reasons why Tarmac Ltd. (Vinculum Division) Ettingshall, Wolverhampton

you can—with confidence—specify Rapid Floors (Wessex) Ltd. Bath

RAPID PRECAST FLOORS Cambrian Concrete Co. Ltd. Pontyclun, Glam:

## Modernise with

for high-efficiency automatic Central Heating ... with economy THERE is available a selection of automatic coke boilers, in a wide range of sizes, which can compete in efficiency with any other system and which operate unattended for long periods. One or more of these serving a well-designed heating system will heat offices, flats, hotels or factories cheaply, efficiently and with a minimum of attention. For domestic heating schemes, there are gravity-feed boilers of the highest thermal efficiencies with full automatic stoking and ash removal and with complete temperature control.

#### WHAT IS HARD COKE?

It is a smokeless fuel made in coke ovens from specially selected coal which is washed and crushed before carbonisation. Users prefer it because it is uniformly sized, consistent in quality and their appliances operate with greater efficiency.

If you would like advice or further information on the use of Hard Coke, the British Coking Industry Association will be pleased to help you.

CLEAN

AIR

ACT

THE In 1958, the general industrial provisions of the Clean Air Act came into force. Have you a furnace or boiler which is difficult to operate smokelessly? A change to hard coke may very well be a simple solution to your problem. With attention to firing details such a change will give you added economy.

THE BRITISH COKING INDUSTRY ASSOCIATION,

74 Grosvenor Street, London, W.1. Phone: MAYfair 9736

lies

oke il er

her

HC3

N,



With acknowledgments to William Crawford & Sons Ltd.

Smart, colourful RYDURA was chosen by William Crawford & Sons Ltd., the world-famous biscuit manufacturers, as the wall decoration in their Liverpool premises. Two basic RYDURA designs were used, in different colours, to cover thousands of square feet of wall area—creating a wonderfully warm, pleasant atmosphere throughout the building. The washable, hard-wearing qualities of RYDURA are especially important in business premises, where economy must always be borne in mind.

ATTRACTIVE, COLOURFUL DESIGNS
HARD-WEARING, WASHABLE FINISH
DIRT AND STAIN RESISTING
HYGIENIC. EASY TO KEEP CLEAN

FOR chair upholstery, bench seating, cabinet furniture, walls, partitions, etc.

FOR homes, hospitals, offices, restaurants, ships, stores, public buildings, etc.

For full details write or phone:

RYJACK PRODUCTIONS LIMITED (PROP. THE CALICO PRINTERS' ASSOCIATION LTD.) 89 OXFORD STREET, MANCHESTER, 1. TEL: MANCHESTER CENTRAL 0020.

for wall decor specify

Rydura

THE VERSATILE FABRIC
WITH THE 'PROFILM' FINISH

# 3 of the Thames range

#### of Fluorescent Fittings

#### by Falks



FLEET

Gear channel, body and invove of sheet steel, stove enamelled off-white. The lower is specially designed to show only the transverse members and has "Perspex" shields at each end to conceal the lamp holders



LODDEN

Gear channel and body of sheet steel, stove enamelled off-white. The louvre is of polystyrene.



EMBER

Gear channel and body of sheet steel, stove enamelled off-white. The lower panel is of \(\frac{1}{4}\)" reeded clear "Perspex".

Lighting Engineers and Manufacturers of lighting fittings for all industrial, commercial and decorative purposes The Thames range of Decorative fittings for fluorescent lamps has been designed to provide a range of 18 fittings from a small number of basic parts, comprising three simple designs with six lamping possibilities in each; 2, 3 or 4 lamps in 5ft 8ow or 4ft 4ow sizes. It will provide a fitting to suit the requirements of many interiors from the point of view of both appearance and luminous output.

Designed by R.F. Stewart, L.S.I.A. of Falks



91 FARRINGDON ROAD, LONDON, E.C.1 Telephone: HOLborn 7654 SHOWROOMS: 20/22 Mount Street, Park Lane W.1 Telephone: MAYfair 5671/2



He "Woodpecker" a hole in an oak

but . . . .

A.S.C.M.
Conduit
gives

essential



tive

een fittasic gns

ich;

suit

ear-

654

71/2 P67

#### A.S.C.M. MEMBERS are as follows . . .

GENERAL ELECTRIC CO. LTD.
Incorporating:
Oriental Tube Co. Ltd.

METALLIC SEAMLESS TUBE CO. LTD.

MONMORE CONDUITS LTD.

SIMPLEX ELECTRIC CO. LTD.

Incorporating:
Credenda Conduits Co. Ltd.
Simplex Conduits Ltd.
Stella Conduit Co. Ltd.

WALSALL CONDUITS LTD.

Associate Members

ELECTRICAL CONDUITS LTD.
HILDICK and HILDICK

THE STEEL TUBE & CONDUIT CO. (Middlesbrough) LTD.

ASSOCIATION OF STEEL CONDUIT MANUFACTURERS .

96 HAGLEY ROAD . BIRMINGHAM 16



## The new administrative offices of THE WALPAMUR CO LTD

The opening of this impressive building is a landmark in the progress of The Walpamur Company Limited, whose products are the first choice of architects, decorators and householders alike. Best known are Walpamur Water Paint in interior and exterior qualities, Duradio the easy to apply, quick to dry, 5-year Enamel Paint and Darwen Satin Finish, a steamproof paint ideal for any room, particularly kitchens and bathrooms. The full Walpamur range provides paints, enamels and varnishes of the finest quality for every conceivable need.



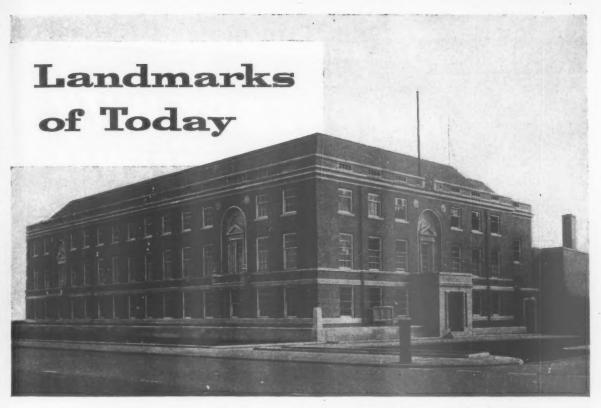
BY APPOINTMENT
TO HER MAJESTY THE QUEEN MANUFACTURERS OF PAINT

## THE WALPAMUR COMPANY LIMITED DARWEN & LONDON

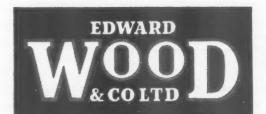
Depots and branches throughout the country

54

0

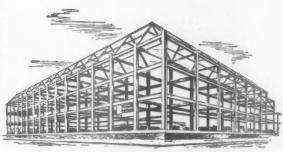


Architects and Surveyors, Bradshaw Gass & Hope, FF.R.I.B.A.



#### **CONSTRUCTIONAL ENGINEERS**

The new Headquarters building for the Salford City Police is a fine example of modern construction. The strength of the force can be compared with the solidity of this building for which we fabricated and erected the steelwork to the design of Bradshaw Gass & Hope, FF.R.I.B.A.



Registered Office and Works:

Telephone: TRAfford Park 2341 (10 lines)

OCEAN IRONWORKS TRAFFORD PARK MANCHESTER 17

London Office: 68 Victoria Street, S.W.1. Telephone: VICtoria 1331/2 · Technical Offices at Birmingham and Nottingham

dm WD /3

# KEEP IT DRY WITH 'PUDLO' EXTERNAL BRAND WATER REPELLENT\*

## THE RANGE OF 'PUDLO' PRODUCTS INCLUDES:

WATERPROOF CEMENT PAINTS
EXTERNAL WATER REPELLENT
CEMENT PAINT PRIMER
CEMENT WATERPROOFING POWDER
CEMENT BONDER
PLASTER BONDER
MORTAR PLASTICISER
FROST PROTECTOR AND
RAPID HARDENER
LIQUID CEMENT ADDITIVE
CEMENT HARDENER AND
DUST PROOFER
FEUSOL FIRE CEMENT



'Pudlo' Brand External Water Repellent is colourless and is entirely suitable for weatherproofing the external surfaces of all types of buildings, including houses, flats, agricultural buildings, offices, factories, public buildings, etc. Amongst its many advantages are the following:

- \* It will repel extremely heavy rainfall.
- ★ It minimises efflorescence. When efflorescence is severe and continuous, the source of the moisture penetrating into the body of the wall should be traced and eliminated before applying the Repellent.
- \* It retards frost spalling, cracking and disintegration.
- R It reduces deterioration of interior finishes.
- \* Exterior surfaces are kept freer from dirt and soot.
- Surfaces can be painted over if desired after the application of the Repellent.
- # It may be applied at freezing temperatures provided the surface is dry.
- \* It does not clog the pores and thus allows masonry, bricks, etc. to breathe.
- # It does not alter the texture, appearance or colour of the surface treated.

PRICES: INCLUDING PACKING AND CARRIAGE

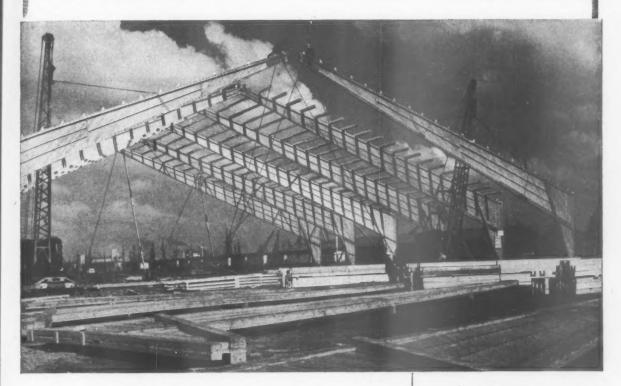
Write for full particulars, including the name of your nearest Ironmonger or Builders' Merchant stocking 'Pudlo' Brand Products to the makers:

KERNER-GREENWOOD & CO. LTD.
KING'S LYNN, NORFOLK
TELEPHONE: KING'S LYNN 2293



'Pudlo' Brand External Water Repellent is manufactured by the makers of the famous 'Pudlo' Brand Cement Waterproofer, which has been used and accepted as the leading Cement Waterproofer by the Building Industry all over the world for more than fifty years.

#### The **HB** System of Timber Construction



The H.B. system of timber construction has been used for twenty years in Scandinavia for every sort of wide span roof structure from barns to factories and from school halls to aircraft hangars. We have acquired the sole licence to manufacture in the United Kingdom under British Patent No. 754,303 and are now in production. The system is based upon the use of glued laminated flanges and boarded webs through-nailed together to form a versatile I section. Designs are prepared in our own office to meet the specified functional and architectural needs of each project. Some of the special merits of H.B. are:—

- 1. A free choice of design solutions to suit the purpose, i.e. two or three pin portal frames, straight or low pitched roof beams, continuous beams over intermediate supports, and cantilevered eaves to roofs.
- 2. A range of clear spans from 40 ft. to 160 ft., all economically practicable.
- 3. Post spacing up to 40 ft. by the use of secondary beams.
- 4. Economic cost by comparison with any other design system or material.

Enquiries are welcomed.



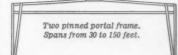
### BEVES & CO LTD

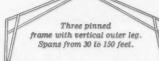
As T.D.A. Approved Manufacturers, we also make structures of Glulam, Boxed Plywood and Connectored Assemblies.

Constructional Engineers in Timber and Timber Importers. Kingston Wharf, Shoreham-by-Sea, Sussex. Tel. Southwick 2285. Ridge beam. Spans from 20 to 100 feet.



Northlight. Spans from 25 to 80 feet.







Two pinned portal frame with cantilevers.

Spans from 15-40-15 to 30-80-30 feet.

CV3-31

#### TRADITIONAL MATERIALS \* CONTEMPORARY DESIGN

Brick is the most suitable material for building in this country, giving great scope for design and allowing contemporary ideas to be economically expressed.

Brickwork is also the most competitively priced walling material. It requires no maintenance, mellows attractively with the years, and is in keeping with the traditional English scene.

London Brick Company Limited offers the architect an ever-widening range of attractive facing bricks giving a wide variation in colour and texture at prices designed to reduce the cost of municipal and private building projects.

Please write asking for our fully illustrated Sales catalogue.



LONDON BRICK COMPANY LIMITED in the service of the building industry

X

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

Midland District Office: Prudential Buildings, St. Philip's Place, Birmingham 3. Telephone: Central 4141

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

Northern District Office: St. Paul's House, 20-22 St. Paul's Street, Leeds. Telephone: Leeds 20771

BY APPOINTMENT TO HER MAJESTY JEEN ELIZABETH II BRICK MAKERS

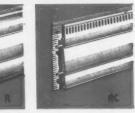
Cop

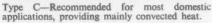
53, Geo Edinbu Teleph

#### Born Yesterday . . . and already the talk of the town



THERE ARE THREE TYPES OF WALLSTRIP





Type R—Institutional model of heavy construction, but shallower from wall to front than Type C, providing mainly radiant heat. Smooth surfaces, free of dust-traps, especially suitable for hospitals and other places where hygiene and cleanliness are vital.

Type RC—Again, an institutional model of heavy construction, similar to Type R but providing a combination of radiant and convected heat.

Copperad Wallstrip is a skirting board that heats. It places the heat where it is most needed—along the outside walls at the normal source of loss.

For a new building—home, office, school, hall, hospital or institution—Wallstrip allows you the maximum freedom in aesthetic design. Windows can reach to within 12 in. of the floorline; no ungainly, heavy equipment is involved; there is nothing to detract from its flowing lines.

UP TO 15 per cent. SAVING IN FUEL AND CAPITAL EQUIPMENT COSTS

Rigorous tests have revealed Copperad Wallstrip reduces the heat input required—cuts fuel costs by up to 15 per cent. When Wallstrip is installed, up to 15 per cent. less heating equipment is required, with consequent savings in the size of the boiler and ancillary equipment. The cost of skirting-board is, of course, eliminated. Moreover, no special equipment is required; it can be installed with the ordinary tools of a heating engineer.

"It is no more expensive than ordinary heating equipment and so much more effective."



Warmth from nowhere — EVERYWHERE!

Copperad Ltd. Head Office & Works: COLNBROOK, BUCKS. Telephone: Colnbrook 2521 (6 lines) Telegrams: Copperad, Colnbrook

Scottish Office: 53, George Street, Edinburgh 2, Telephone: CALedonian 1562 London Office: I, York Street, Baker Street, London, W.I. Telephone: WELbeck 1226/7 Birmingham Office: Wolverley House, 18, Digbeth, Birmingham 5. Telephone: MIDland 1553 Representatives at: Belfast, Bristol, Cardiff, Glasgow, Leeds, Manchester, Newcastle-on-Tyne, Nottingham.

Also at: Amsterdam, Johannesburg, Lisbon, Brussels, Toronto, Melbourne.

### Fast delivery to any site

Today, delivery is fast and efficient—when you order Ferodo
Stairtreads. For there are Ferodo
wholesalers and twenty Ferodo
Depots in major towns and cities up
and down the country.

Ferodo Non-Slip Stairtreads blend with any interior decorations and even after years of constant use they give a reassuring foothold. Staircases in many kinds of public buildings and factories are fitted with Ferodo Stairtreads because they prevent accidents and are easy to clean.

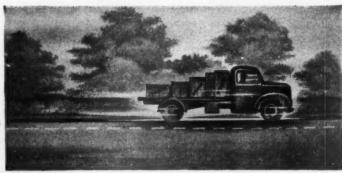
Ferodo Stairtreads are available in 7 colours, 3 types of metal channel and 39 types of tread to suit any stair.

A Ferodo technical advisory service is available and a technical representative is in your area.

#### TEN MILES A DAY BY STAGE-WAGON



Sir Christopher Wren waited so long for deliveries of materials, but he expected nothing better. It was tough going for the teams of horses that drew the slow wagons of the 17th Century—the roads were deeply rutted and the wagons often overloaded.



SE

DE

Folloy

modif

additi

of the

we ar

seen a

which

to be

Plea

NAN

ADD

### FERODO

#### non-slip stairtreads

For your Reference Files: New Illustrated literature in full colour will be sent on request to Stairtreads Dept.,

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



#### SEND NOW FOR THIS DESCRIPTIVE FOLDER!

following the recently announced improvements and modifications to the Connoisseur, we have produced in addition to revised standard catalogue sheets, an entirely new full coloured six page folder giving complete details of the full comprehensive range of boilers and sets which we are now producing. It is a folder from which may be seen at a glance, the exact size of equipment required or which can be accommodated, the outputs of tea and coffee to be expected and also the approximate consumption.

Please send copy(ies) of	CONNOISSEUR FOLDER/II
NAME	
ADDRESS	*
Quality Built "Stotts	of Oldham"

VERNON WORKS. OLDHAM



#### The Architects' Journal

No 3332. Vol. 129. January 8, 1959

9-13 Queen Anne's Gate, London, S.W.1. Whitehall 0611 Subscription rates: post paid, inland £2 15s. 0d. per annum; abroad, £3 10s. 0d. per annum. Single copies, 1s.; post paid, 1s. 6d. Special numbers are included in sub-scriptions; single copies, 2s.; post paid, 2s. 6d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for £110s. 0d.; carriage 2s.

NOT QUITE ARCHITECTURE

#### BRIEF ENCOUNTER-ATTACK

"You, if you will forgive my intrusion into your meditation, deserve to be shot."

The man sitting beside me looked puzzled.

"Did you say shot?"

"Purely as a suggestion of the means. I am mainly concerned with the end-product."

"Do you realize to whom you are addressing your remarks? '

"Alderman Smelt, citizen, pillar of Local Government and Chairman of the Town Planning Committee? "

" That is so."

"Then my proposed bullet is on target."

" May I be permitted to know why?"

"I have been sitting here for ten minutes, uncomfortable because this bench was designed by a sadist, helpless victim because there are no others. I have been absorbing the visual qualities of your new shopping centre, and am now in the midst of an acute depression which the Atlantic itself would not welcome."

"Our shopping centre is the envy of all visitors."

I lit a cigarette. I did not offer him one.

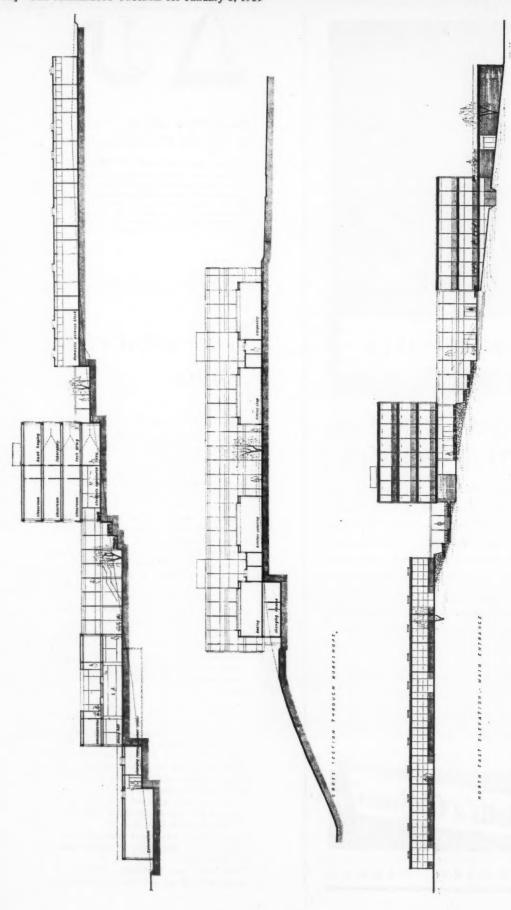
"I can only assume that they are lay visitors, mellowed by a civic luncheon into polite acceptance of sham, sweetened by social obligation into delusions of grandeur where cardboard dwells."

"I feel we have achieved a dignity which expresses our ancient and noble traditions."

"I feel the whole thing stinks."

"I still cannot understand your objections. I shall be only too happy to explain what our aims were."

"Your aim was deplorable. However, I object on visual grounds, because the build-



# Langside College of Further Education Competition: The Prizewinners The promoters were the City of Glasgow Education Committee. On this page and on First prize (£3,000) in the competition for the Langside College, of Further Education (assessor, F. R. S. Yorke) has been awarded to Boissevain and Osmond (Paul Boissevain and Barbara Osmond), London. Second (£2,000) are Alison and Hutchison and Partners, Edinburgh, and Third (£1,000) is Mervyn Handley, Wallington, Surrey.

page 43 we publish drawings of the first prize-winning design. The drawings above are, from top to bottom, a long section, a cross-section through the workshops, and the north-east elevation. We will publish the other prize-winning designs in a later issue.

have troul digni ing cynic wort appe

He l "I your speci "I w man is a office sance shop

reason mass some whose round This the bers slip a sty when Man gence "I'm to u " You iron cant design to relimine oppoweel scrat soler soler soler soler soler soler soler soler soler mass soler soler soler soler mass soler soler

We mate "Ye" Do with the mak Art. mor fixio lack teres

ings are ugly, on philosophical grounds, because they are a betrayal of Truth, and on common sense grounds, because they could have been very much better, with no more trouble or expense. Your attempt to provide dignity has resulted in a disturbing, muttering rehash of things dead, revived with a cynical sneer and constructed with noteworthy hamfistedness by contractors who appear to have had a plentiful supply of thumbs."

He lit a cigarette. He did not offer me one. "I admire your honesty and sincerity, young man, but I wish you would be more

bottom, we will publish the other prize-winning design. Inc drawings above are, bottom, a long section, a cross-section through the workshops, and the tevation. We will publish the other prize-winning designs in a later issue.

from top to bottom, a long section, a north-east elevation. We will publish t

(ascesso), r. r. s. rorke) has been awarded to boissevain and common (raul boissevain and Barbara Osmond). London.

Partners, Edinburgh, and Third (£1,000) is Mervyn Handley, Wallington, Surrey, Surrey.

"I will be specific. A man is a man, and a man trying to be a deity is a fool. A shop is a shop, and the office overhead is an office. In the devastation which you have sanctioned and actively encouraged, the shops are a clutter of chrome without reason squashed by the offices, a decaying mass of what is Classical in the vision of some anonymous bank-balancing architect whose Integrity has retired in the first round of the eternal prize-fight with Avarice. This late Artist has pandered to the taste of the half-timbered planning Soviet, the members of which have enough sensitivity to slip under a draughtproof door. Revival of a style is a season pass to the morgue, and when done badly is a tasteless jest, whereby Man sticks a tongue out at his own intelligence."

"I'm afraid your words are difficult for me to understand."

"You cannot understand. A man who by an ironic trick of democracy is in a position to sanction squalor and tread firmly into the earth the more worthwhile dreams of designers. You know not what you do. But I, for one, will not forgive you. You should relinquish your corrupting powers, and confine your efforts to the squabbles with the opposition over procedural matters at that linen-washing, back-biting, eyescratching old pals act which wears the solemn mask of Local Government."

We each lit a cigarette, using our own matches.

"You think I should resign?"

"Do anything. But don't monkey about with Art. You do not try to do the work of the butcher, the baker, or the shaving stick maker; and they are simple trades, alongside Art. The problems of Space are not in the lonosphere. They are around us. And the more adjacent the space, the more its crucifixion bothers me. You are incompetent, lacking training, experience, feeling or interest. I don't want to talk to you any more."

I stood up and walked briskly away, glancing back at the little man, a sneer on my lips. I made up the conversation on the way back to the office.

ALAN PLATER

EDITORIAL BOARD (1) Consulting Editor, F. R. Yerbury, O.B.E., Hon. A.R.I.B.A. (2) House Editor, J. M. Richards, C.B.E., A.R.I.B.A. (3) Executive Editor, D. A. C. A. Boyne. (4) Editor Information Sheets, Cotterell Butler, A.R.I.B.A. (5) Editorial Director, H. de C. Hastings. TECHNICAL EDITOR: (6) Lance Wright, A.R.I.B.A.

SPECIALIST EDITORS\*: (7) Planning. (8) Practice. (9) Surveying and Specification. (10) Materials. (11) General Construction. (12) Structural Engineering. (13) Sound Insulation and Acoustics. (14) Heating and Ventilation. (15) Lighting. (16) Sanitation. (17) Legal. (18) Electrics. ASSISTANT EDITORS: (19) Chief Assistant Editor, Malcolm MacEwen, M.A., Ll.B. (20, 21) Assistant Editors (Buildings), Robert Maguire, A.R.I.B.A., Sheila Wheeler. (22) Assistant Editor (Production), W. Slack. (23) Assistant Editor (Information Sheets), V. A. Groom. (24) Photographic Department, H. de Burgh Galwey, W. J. Toomey. (25) Editorial Secretary, Mary Sheehan.

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

#### The Editors

WANTED: AN INFORMATION SERVICE At any moment of change it is worth appraising the whole situation and querying accepted practice. Last week it was announced (see page 42) that DSIR was to become the sole Government department concerned with research, and that in place of the MOW's Advisory Council of Building Research and Development there would be a "Standing Conference" on building research under DSIR, responsible for maintaining liaison with all research departments and associations in order to avoid overlapping, and to make recommendations to BRS. The MOW will be left with its present task of providing advisory leaflets, lectures, and its technical information service. There is no doubt that the MOW work in this field has been admirable, within the limits of finance and manpower available, but it is nothing like an adequate service for the building industry as a whole. There are two dangers confronting the capital investment programme (such as it is) in building: first, not enough research; second, not enough awareness of the results of it. The AJs Research Board chose " Information for the Architect" as the first subject for study because research is valueless without the dissemination of results. The first report by the second holder of the award, Dargan Bullivant, will be appearing shortly. It seems to us that fully as important as the setting up of a Standing Conference on Building Research is the need to form an organisation to prepare and disseminate information Today too much bumf of a variety resulting from research. of sizes, types and indices is chasing too little reading time. And the results of development work, or practical experience by the informed, are not being passed on in an easily filable, easily findable and easily readable form to the industry. The building industry needs an organisation, of comparable standing with the Standing Conference, to undertake this allimportant task of communication. It must have direct contact with both research workers and the users, but its ultimate loyalty must be to the last. It must understand the needs of all sectors of the building industry. Lastly it must be authoritative, which means having first-rate people running a first-class organisation, which, in turn, means that it must be well financed. This is always the rub. We don't want

yet another source of information-bumf crippled by inadequate funds. We want an organisation, intelligently using existing channels, and supplementing them where necessary, which can be looked to as a certain source of sound facts. The government has never been able to squeeze any major sums out of the building industry for research, it is therefore unlikely to do so for this. The answer for both research, and for the communication of the results (what might be described as good building practice) probably lies in a compulsory levy of some small percentage on the cost of all building work.



NEW YEAR HONOURS

ASTRAGAL was delighted to see the name of a colleague, J. M. Richards, in the New Year Honours List. Everyone who knows him or his work will be pleased that he has been awarded the CBE. And no-one who knows him will be surprised that when he was congratulated he suggested that the compliment was intended for the Architectural Press as a whole. This is typical of the modesty of the man who has made, single-handed, as great a contribution towards a better general understanding of good design and architecture as anyone living.

Most of the other awards that will interest architects go to people concerned with the Brussels exhibition, notably James Gardner and Edward Mills who both get CBEs. Howard

Lobb, who designed the British government pavilion, has the CBE already, and you can't get a bar for it as you can for a DSO. Three other awards must be recorded here: the CBE to Victor Pasmore, an artist who believes in working closely with architects, the Companionship of Honour to Sir Kenneth Clark and a Knighthood to Dennis Proctor, until recently chairman of the trustees of the Tate Gallery.

#### TOWNSCAPIST IN INDIA

Next week's New Year number of the AJ will lack one of its regular features-an exercise by Gordon Cullen in his unusual form of humour. He is, in fact, on the way to India, to accept an invitation that is a well-deserved compliment to his reputation as a townscapist and to the Architectural Review, in which his townscape studies appear. The invitation came from an American firm of architects, Myer, Whittlesey and Glass, who have been asked to prepare a plan (sponsored by the Ford Foundation and the Indian Government) for Old Delhi and its neighbourhood.

This is, I believe, the first time that Gordon Cullen has agreed to advise on a major job, though it is not the first time he has been invited. Students of post-war design will know what a lot of influence his work has had. He proves the saying that you can get anything done provided you are prepared to let the other chaps get the credit for it. It may be some time before his influence is really measurable; when it is it will be seen to be immense.

#### THE RUSSIAN PAINTINGS

You will probably not be either surprised or disappointed by the Russian paintings at Burlington House, though you may have to make a slight mental adjustment to get the best out of the earlier stuff. The early ikons, for instance, with their faded gilt, seem more blond and less sumptuous than other Byzantine paintings. The Soviet works are a category on their own, and I imagine that most visitors will get most pleasure out of the middle section-the eighteenth century portraits (rather like French or English ones), and the Romantic nineteenth-century faces, which you can relate to what you know of Russian literature—faintly Pushkin young men or a keen young woman out of Turgenev or Gogol. There are also landscapes in most of the nineteenthcentury Western modes, though these are often as much as 40 years later than you think.

The Soviet works don't include as many grandiose scenes as you might expect, and there is very little cult of personality-just one tiny painting of Lenin talking to some peasants. The much-boosted picture of the last days in Hitler's bunker is too much like something from a television Goon show to be taken seriously, but Doinika's "Defence of Petrograd" is rather more impressive than its photographs would suggest. Incidentally there is one painting, not mentioned in the catalogue, of a man leaning out of the control cabin of a tower crane on a building site. Just the thing for next year's ABS Christmas card.

#### URBAN RENEWAL AGAIN

"Nearly all inventions nowadays are in the engineering field, rather than the social field. What sort of social inventions are needed? " That, more or less, was a question put to the BBC television "Brains Trust" on Sunday. What would your answer be? William Holford was there, and after Bronowski and Aldous Huxley had worried their way through some argybargy about the difference between handling human beings and inanimate objects, he put in a plea for a form of administration that would allow comprehensive replanning to be carried out properly. Unfortunately no one else on the panel seemed to know or care about urban renewal, so Sir William didn't have a chance of explaining what he was talking about to the Ordinary Viewer.

It's no good pretending this programme is not intended for the Ordin-

one
The
have
main
it wa
tion,
wife.
shou
that
" bra
made
to sa
ques

even

the

ary

may

out o

have

Sir \

with

cent

This enor them mone seen, is puby Je two grap four war peng third

is th

It is should inform few four mistrate of Publischo than as the should be sho

HOLI On beer rate

dent

bool

Prof 19th volu pack

†Pengi

ary Viewer-however hard Bronowski may fight to keep popular entertainers out of it. And even the mere O V must have thought it pretty footling to ask Sir William what he would do if faced with the choice of living in an 18th. century house or a new and efficient one without any architectural merit. The questioner added, " provided you have no spare money for repair or maintenance." As Huxley pointed out it was almost as hard as the old question, "Have you stopped beating your wife." I really do think some effort should be made to provide questions that match the distinction of the "brains." Far better attempts were made to give the other guests something to say. There must be plenty of good questions to ask about architecture, even if they have to be cooked up in the producer's control cabin.

or in-

more

other

Works and I

most -the

r like

the

faces,

know shkin

n out

also

enththese

later

de as

ht ex-

alt of ng of

The

days

like

show

nika's

more

would

paint-

ue, of

cabin

site.

ABS

ys are

an the

inven-

r less,

tele-

ınday.

after

had

argy-

tween

nimate

orm of

com-

ed out

lse on

about

didn't

hat he

dinary

pro-

Ordin-

Sir

#### ALL FOR THREE POUNDS TEN

This is the time of the year for enormous picture-books, and some of them are even worth the large sums of money they cost. The oddest I have seen, Masters of Modern Architecture, is published by Batsford and compiled by John Peter. It costs 70s. and contains two hundred pages of beautiful photographs of modern buildings-including four English ones. Two of these are prewar work (the Highpoint flats and the penguin pool, both by Tecton); the third is an LCC school, and the fourth is the Ackroyden point block.

It is odd that an architectural book should have no plans and no technical information; it is odder still that the few lines of descriptive text for the four English buildings contain more mistakes than it would seem possible to cram into such a small space. Publishers of Batsford's standing and scholarly reputation ought to do better than this even if a book is compiled, as this was, in America-a fact, incidentally that is not made clear in the

#### HOLIDAY WITH HITCHCOCK

On his holiday ASTRAGAL'S mind has been improving itself at an average rate of two chapters per evening of Architecture, Professor Hitchcock's 19th and 20th Centuries.† This thick volume of the Pelican History of Art is packed with facts-up to ten per sen-



The Co-operative Wholesale Society's new Universe range of unit furniture has been designed by George Fejer in conjunction with the CWS design team. The whole range consists of 64 basic units of which three—dressing chest (£36 13s. 6d.) and two drawer units (£8 9s. and £12 7s. 9d.)—are combined to make the dressing table above. Also shown is a chest at £19 17s. 6d., and a lounge chair (£7 6s.) which is hardly of the same standard.

tence-and occasionally blotted by such extraordinary terms as Romanesquoid and rather Byzantinesque. It was quite an experience to read it and see a hundred and fifty years of world architectural muddle organized and made comprehensible by a mind that clearly understands what has been going on, and an eye that clearly has seen most of the buildings that it describes, even when they are in Hawaii or other unlikely places.

The book has the stamp of authority, and that is probably just as well, because the calm Hitchcockoid appraisal, dispassionate and informed, does not see recent architectural history in the same terms as certain interested parties would have us do. William Morris takes a very back seat for a start; McKim, Meade and White come forward, the glorious French Academic tradition sinks without trace after 1840 or so, and there is a whole chapter on all those rather embarrassing Twentieth Century traditionalists it is fashionable to cry down. Andmost surprising of all-Norman Shaw is brought forward as one of the heroes of his hour, with a chapter to himself and his influence.

But it is not just an exercise in revaluations-which would have been taking liberties with the Pelican programme. The solid core of what happened, where and when, and who did it (if known) is all there.

#### ALL-IN SERVICE

Did you read about the 5 ft. 10 in. architect (complete with safety pins for broken shoulder straps) whose labours in the "men for hire" business were featured in the Evening Standard last week. Eileen Ascroft leased him for the night (no flirting allowed) for six guineas (of which he got three) from a London "male escort bureau." He does the job for the money (" the path of the architect is hard and long"), but also for the fun of it ("it makes a good contrast to a rather humdrum job"). Is this, ASTRAGAL would like to know, the ultimate destination to which the All-In Service is taking us?

Incidentally, architects do seem to be regarded more and more as typically middle (or should one say uppermiddle?) class. Every day now we see them in the advertisements, reading the top people's paper, commuting back and fro as free-spending suburbanites, choosing the best materials, growing beards in left-wing coffee bars. What have we got that other people haven't? It's an intriguing question.

ASTRAGAL

†Penguin Books. 70s.



#### HONOURS

#### New Year List

Companion of Honour: Sir Kenneth Clark (Chairman, Arts Council of Great Britain). Knights Bachelor: Alderman Isaac James Hayward (Leader of the LCC); John William Laing (President, John Laing & Son Ltd.); Robert O. Lloyd, Past President, NEBTE.

Order of the Bath-Civil Division. C.B.:

A. A. Part (Under Secretary, MOE).

Order of St. Michael & St. George. C.M.G.:

R. C. Cooke (Director, Exhibition Division COI, for service in connection with British Government Pavilion, Brussels Exhibition).
C.B.E.: L. P. Ellicott (Deputy Chief Technical Planner, MOHLG); Uffa Fox (yacht designer, for services to yachting); James Gardner (for service in connection with Gardner (for service in connection with British Government Pavilion, Brussels Exhibition); J. W. Pope-Hennessy (for services to fine arts); O. Kokoschka (artist and writer); A. E. Marrington (Assistant Secretary, MOE); Edward D. Mills (for service in connection with the British Industries Pavilion, Brussels Exhibition); Victor Pasmore (artist); J. M. Richards (Joint Editor, Architectural Review).

Order of the British Empire—Civil

Order of the British Empire—Civil Division. G.B.E.: Sir John Balfour (Commissioner General for the United Kingdom, Brussels Exhibition 1958). O.B.E.: F. J. Anderson (lately Principal Registration Officer, Manchester Region, MOHLG); P. St. C. Ballenden (Director of Public Works, Swaziland); Clifford E. Culpin (architect, London); C. Gorrod (Superincipal) (architect, London); C. Gorrod (Superintending Architect, MOW); S. W. Hayter (artist and engraver); C. J. Lansdell (designer, British Industrial Pavilion, Brussels); J. H. Rans (Senior Quantity Surveyor, War Office); C. G. Rowlands (Secretary of the National Federation of Building Trades nployers); J. Shearer (senior partner, Shearer and Annand, architects, Dun-Employers); rermline); C. J. Wood (Principal, MOHLG).
M.B.E.: T. A. Bailey (Senior Architect, MOW); L. A. Grealey (Director, F. W. Clifford Ltd., for services in connection with the British Government Pavilion, Brussels); A. H. Guiver (Superintending Technical Officer, MOW); W. T. Hall (Personal Secretary to Architect to LCC); J. W. Pirie (Senior Assistant Dist. Auditor J. W. Pirie (Senior Assistant Dist. Auditor, MOHLG); H. W. T. Williams (Higher Executive Officer, MOHLG).

#### MOW

#### Building Research

The Lord President of the Council and the Minister of Works have decided that the Department of Scientific and Industrial Research should in future be the only Government Department with responsibility for Building Research. Hitherto, the Min-

istry of Works has shared this responsibility through the Advisory Council on Building Research and Development. This Council which was set up in 1947, and has made a most valuable contribution to the whole field of building research, will, therefore, not be continued after its present two year period expires in March, 1959.

To ensure continuity of the important work

previously undertaken by the Advisory Council, the Department of Scientific and Industrial Research will invite the various sections of the building industry to nominate representatives to a "Standing Conference on Building Research and Development."

The terms of reference and further details of the operation of this Standing Conference will be announced later by the DSIR. The Ministry of Works will continue to

provide the present service of Advisory Leaflets, Lectures and the Technical Information Service.

#### AA

#### RIBA Constitution

The AA took the admirable step last week of holding a meeting to discuss the implications of the interim report of the RIBA's Constitution Committee. It was well organized. Michael Austin-Smith presented in the neatest way the desirable future trend of the architectural profession: that is, a profession practised in management tech-niques, supplied with a proper feed-back of information from the building industry based on experience, and therefore equipped to look after the architect's responsibilities, which will in turn compel the builder to attend to his. Dr. Graham Turner, an assistant secretary of the BMA, then described what the BMA's rôle was (it is not strictly comparable with the RIBA, but never mind). He gave its duties as: scientific and educational (special reports and studies on matters of medical interest, evidence to Royal Commissions, awards of prizes and scholarship, publication of journal, library, etc.); ethical work (roughly equivalent to the RIBA's Professional Conduct committee); protective work and a miscellaneous section which covered an employment bureau, advice on travel, house-building,

nsurance, charity and social functions.
Richard Sheppard then spoke and pointed out that everything the BMA did could be paralleled at the RIBA. But though the comparison sometimes appeared a trifle farfetched, no one in the audience ventured to challenge him. Emphasizing once again that the RIBA is now trying to come to decisions based on a study of facts, he described how, at the present rate of intake into the profession, there would be 30,000 architects profession, there would be 30,000 architects by 1975—more architects per head of population than any other country—and they would be lucky to be earning £1,000 at the age of forty. He thought it almost certain that the educational standard of entry would be raised to two A level passes in GCE, which, it has been estimated, would ensure that even by AD 2000 the membership would still be only 18-20,000, as it is now. He was convinced that, although the amount of building work available could now. He was convinced that, although the amount of building work available could not be precisely judged, the supply could not be increased to any marked extent. Mr. Sheppard ended by emphasizing the need for architects to base their policy on facts, and to be part of a strong pressure

group in modern society.

Cleeve Barr, the chairman of the Constitution Committee, then briefly related the main points of his committee's interim report (see the JOURNAL of December 4). When the chairman, President Denis Clarke-Hall, asked for comment from the mem-bers, surprisingly little was said. At least two speakers recommended that the RIBA copy the RICS and form a Junior Organization (with three representatives on the Senior Council) in order to train young architects in committee work and so forth. and to procure "a strong, healthy associa-tion." Edward Playne recommended that the power to vote should not be given immediately on qualifying, as so many left the profession without practising. He suggested ten years as a suitable interim period before voting powers were bestowed on indi-vidual members. Michael Pattrick recommended that subscriptions should be graded by ages: £5 at twenty-five and £20, say, at fifty years old. Richard Sheppard thought that "private architectural empires should that "private architectural empires should carry the load" by paying subscriptions based on their volume of work.

One member complained that there was no

London Society for architects, save the AA, which had the appearance of being a society for ex-AA students, and which was too small to cope with the thousands of architects in the London and Middlesex area. He thought there should be two or three more Allied Societies formed. John Brandon-Jones, Past President of the AA, recommended that the AA representative on the RIBA Council (who is the president only by custom and not by constitution) should be elected by the AA membership, should not be the president, and should be elected on a three-year basis. This sug-gestion was approved by President Denis Clarke-Hall, who agreed to put it to the AA Council. Such an action would bring the AA in line with the Constitutional Committee's recommendation for Allied Society representatives on the RIBA Council, and would seem to be an eminently sensible and

would seem to be an eminently sensible and democratic proposal.

The BMA representative, Dr. Graham Turner, was asked how the BMA was organized and financed, and he described how the majority of the Council was elected from geographical divisions, and financed by subscriptions (no figures given), profits from publications, and rents from leasing part of their headquarters. He leasing part of their headquarters. He warned the architects against making the mistake of imitating the BMA. Their members had been very dissatisfied with them, particularly around 1948 when the National Health Act was introduced, and efforts had then been made to ensure that the BMA was more democratic. The changes had not, however, made the slightest difference, and members were still "frightfully dissatisfied." He very appositely quoted Hilaire

Belloc: accursed power which stands on Privilege

(And goes with women and champagne and Bridge) Broke—and Democracy resumed her reign

(Which goes with Bridge and women and champagne)." Thus, neatly, did the only doctor in the house cure the audience of their illusions.

#### b t 1 u

The Journal records with deep regret the death of Miss Rosalind Arnell who, for over 30 years has been a loyal and extremely capable member of the staff of the Advertising Department. Her efficiency and never failing courtesy has long been appreciated by our many advertisers and those who have worked with her at the Architectural Press will remember always her kindliness and, latterly, her great courage during many months of ill health.

RIBA Library Group Meeting. Dr. Arnold Noach on Giuseppe Manocchi at 66, Port-land Square, W.1. 6 p.m. JANUARY 12 Suspended Ceilings. Discussio RIBA, 66, Portland Place, W.1. Discussion at the JANUARY 13

The Maintenance of Modern Buildings. Talk by H. J. Eldridge at the RICS, 12, St. George Street, S.W.1. 5.45 p.m.

JANUARY 14

The

desi

rep

des acc

dis

COL

fac

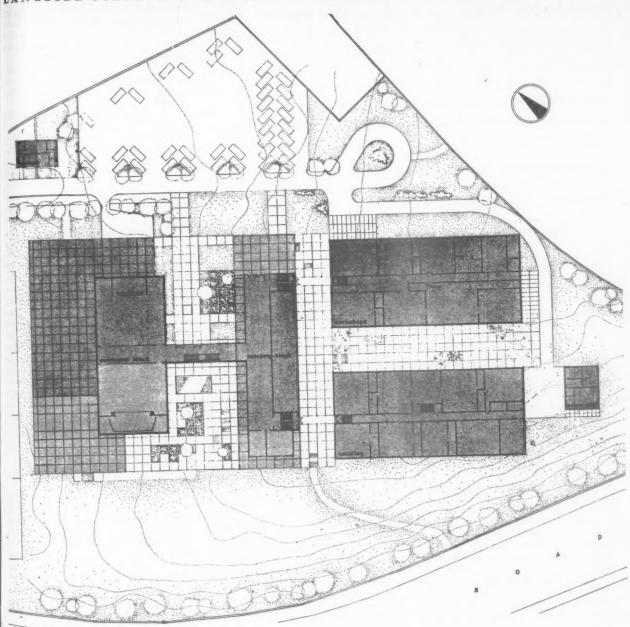
T

los

Do

A

### LANGSIDE COLLEGE COMPETITION: BOISSEVAIN & OSMOND'S DESIGN



The site plan of Boissevain and Osmond's first prize-winning design for the Langside College of Further Education. In their report the architects said: "The architects' purpose has been to design an integrated group of buildings with convenient and direct access to all the main elements of the plan on one level and so disposed on this steeply sloping site to form and enclose pleasant courts and landscaped areas. All those inherent advantages, in fact, that stem from good practice on a comparatively level site. The strong concentration of the building masses in spite of the low building heights in the centre of the site permits the greater part of it to be preserved as a landscaped recreational area. A feature of the scheme is the clear separation of the mechanical

and catering workshops from the teaching block with only short connections to the communal building that can be used in a variety of ways with a series of adjoining spaces and reading rooms. The architects have attempted to achieve a scheme that is comprehensively planned—resulting in functional excellence—and which is clear and rich in variety from a spatial architectonic point of view." The four-storey teaching block is steel-framed, with steel tube columns filled with vibrated concrete (interaction of the steel and concrete permitting the use of unusually slim columns) and r.c. floors. Hall and gymnasia are roofed with tubular steel trusses resting on steel columns, and workshop and domestic science blocks are roofed with portal frames.

ssociad that given ny left e sugperiod n indirecomgraded say, at

ought

was no e AA, ing a h was add of dlesex wo or John et al.

ership, should s sug-Denis to the bring Comociety , and le and raham was cribed

was

and given), from . He g the mem-them, tional s had BMA had rence, dis-lilaire

pagne
her
n and
n the

y et the over emely vertisnever ciated have Press and, many

Port-RY 12 the m. RY 13 dings. 2, St.

RY 14

The result of the competition sponsored by Berkshire County Council for an infants school at Wokingham is as follows: First Premium (£300): Wells and Hickman, London (architect in charge F. H. Hartry). Second Premium (£175): Alan Goodman, Nottingham. Third Premium (£75): Kenneth Tasker, Liverpool. The assessors were E. D. Lyons, A.R.I.B.A., J. T. Castle, A.R.I.B.A., and T. D. Whitfield, M.A., Ll.B. The 208 designs submitted are being exhibited in the Town Hall, Reading, from 10.30 to 7.30 daily until January 10. The school is for approximately 240 infants on part of a site of 5.75 acres to serve a new housing estate.

#### WOKINGHAM INFANTS SCHOOL COMPETITION

#### Assessors' Report Summarized

The designs have, if anything, shown that there is little left untried in the planning of a two-form entry infant school. Certainly no entry combines in itself the qualities of originality, serviceability, and æsthetic merit. Where, moreover, the competitor has had originality as his main preoccupation, it has tended to be his main achievement. In general standard of architectural design many of the entries do not rise above the level of mediocrity. No competitor has been willing to impose on himself, consistently throughout his plan, such limitations as a pitched roof in order to ensure a trouble-free building. The result has been a gain in overall floor areas but it might be said that this prodigality of space has only been achieved by a frugality in construction.

The assessors have been influenced by educational, æsthetic and technical factors. On the technical plane the assessors have attached importance to simplicity and economy of construction. A few designs displayed a fantastic departure from the orthodox but gained but little thereby, although adding considerably to the cost. Some competitors allowed their pursuit of originality to impose the structural form on their schemes to such an extent as to work to the ultimate detriment of their plans. The assessors have reached the unanimous opinion that there are three competitors who succeed more than the others in solving or minimizing the problems inherent in the task set and in achieving the educational desiderata in a school for infant children.

Comments on the prizewinning designs

The FIRST PREMIUM has been awarded to design No. 3. Like most of those submitted, this scheme cannot be regarded as highly imaginative, nor does it make any new contribution to the planning of infant schools. Its outstanding merit lies in the ease and lucidity with which it resolves the major siting and planning problems.

The placing of the school on the high ground at the north corner of the site using the natural enclosure formed by the existing trees is particularly advantageous, shutting the school off from that part of the site allocated to the future junior school. It also allows the best use to be made of the long views parallel with the

major axis of the site, and gives the best orientation to the teaching rooms. The relationship between the landscaping, the layout of the outdoor teaching areas and the play spaces is excellent. These merits outweigh the disadvantages of the additional length of roadway, which would not have been necessary had the school been sited further to the west.

The plan provides for a thoroughly workmanlike, straightforward school, without any complications. Its routes are clear-cut and direct, leaving the general activity and dining areas unimpeded. The administrative rooms are well grouped and so positioned in the plan as to facilitate control. The detailed planning of these rooms, however, could be altered with some advantage, in order to increase the size of the stock and stationery store. The teaching rooms although similar in plan, each have their identity, and are well related to their individual outdoor teaching areas. The echelon arrangement of the rooms will permit the outdoor areas to be used simultaneously without interference. The position of the pool in the partly enclosed court will require some further thought. At present it is a hazard and likely to claim a number of victims. The children's sanitary and cloak accommodation is well dispersed and easily controlled. The general activity area and dining space is simple in shape and is just saved from being intimidating by the lower ceiling over the dining area.

The conception as a whole is clear and competent, making the arrangement of the several components appear obvious. The structural design is simple and economical. The elevational treatment, both internally and externally, is most sensitively handled and has good continuity and a high appreciation of scale. It is pleasing to note that the elevations are entirely free from clichés. Without entering into the controversy over felt-covered roofs the assessors agree that the materials suggested would weather well, a particularly important consideration in the close proximity of trees.

Adverse comments which can be made are as follows: (a) The plan does not lend itself to other than a modest extension. (b) The aspect of the staff rooms is not ideal. (c) The doors from the covered way are too near the steps leading to classrooms 5 and 6. (d) The floor area of the school is such as to

make it doubtful whether it could be built within the permissible cost allowance, but the teaching area, which is well in excess of the Ministry of Education's minimum requirement, could readily be curtailed without detriment to the plan as a whole.

The quality of the drawings merits study, and the attention of competitors is drawn to them as an excellent example of clear presentation.

The SECOND PREMIUM has been awarded to design No. 71. Within reasonable practical limits, this is an imaginative scheme, It is modelled with much finesse and considerable appreciation of spatial values. The interior of the school would be interesting and intimate. The placing of the building on the site does not reach the same high standard as the plan. It is unfortunate that the scheme has defects which are so basic that they could not be remedied without a radical alteration to the design. There defects are: (a) The kitchen terminates the long axis of the dining area. From the servery counter to the end table is some 80 ft. This is excessive. (b) The change in floor level in close proximity to the servery counter might well be dangerous. (c) Because of the change in floor level between the assembly hall and the dining area, any attempt to extend dining facilities would be difficult. (d) The main route within the school to the second and third year rooms and the assembly hall is a little complex and likely to prove a bottleneck in practice. The dining tables and chairs when laid out would be difficult to negotiate. (e) It is doubtful whether the school could be built within the permissible cost allowance and the plan does not lend itself to easy reduction.

Structurally the scheme is well and economically conceived.

The THIRD PREMIUM has been awarded to design No. 128. Of the three prize-winning plans, this one has the best chance of being executed within the current cost limitation without modification. To achieve this it is possible that too wide a safety margin has been left with consequent sacrifice of space. The siting of the building has many of the defects and virtues of the design which has been awarded second prize. The modelling of the building with the main approach through a courtyard is attractive, but the author has failed to exploit this idea to the fullest extent, particularly in the elevations which are dull.

#### Notes on construction

Wells and Hickman's design uses external load-bearing brick walls up to 6 ft. 6 in. with 1 ft. 6 in. high timber posts behind. Continuous fascia in white stove-enamelled asbestos, plywood fascia in assembly hall. Timber posts support roof of dining room and covered way, laminated posts in assembly room. Roofs generally laminated beams, strawboard decking and built-up roofing, plywood space frame in assembly hall. Heating generally by hot air from oil-fired boiler. Alan Goodman's design is of brick cross-wall construction, supporting built-up plywood decking with copper roof, and heating is by re-circulated warm air.

be built nce, but n excess ninimum ed with-

s study, s drawn of clear

awarded le pracscheme, and conues. The 
teresting building 
me high 
tate that 
so basic 
ithout a 
These 
attes the 
teresting 
teresting 
the building 
me high 
tate that 
so basic 
ithout a 
These 
attes the 
teresting 
the building 
me high 
teresting 
to basic 
though 
the 
teresting 
te

conomi-

rded to winning of being nitation nis it is gin has f space. of the of the ich has odelling oproach out the to the evations

xternal . 6 in., behind. amelled ly hall.
g room
assembeams,
roofing,
y hall.
oil-fired
of brick
ouilt-up
ad heat-

Woki

FI

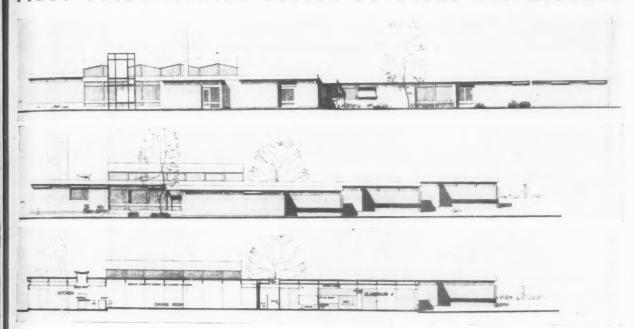
-

2

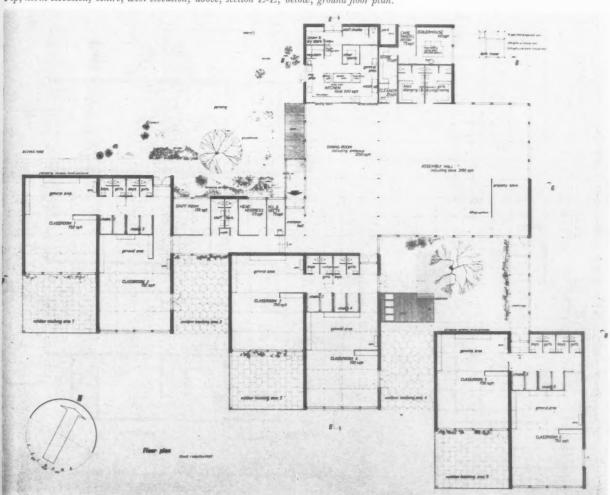
Тор,

#### Wokingham Infants School Competition:

#### FIRST PRIZE-WINNING DESIGN BY WELLS AND HICKMAN

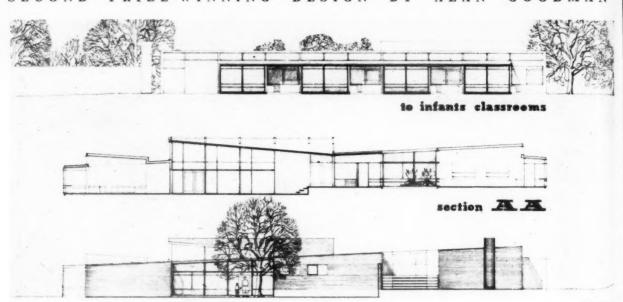


Top, north elevation; centre, west elevation; above, section E-E; below, ground floor plan.

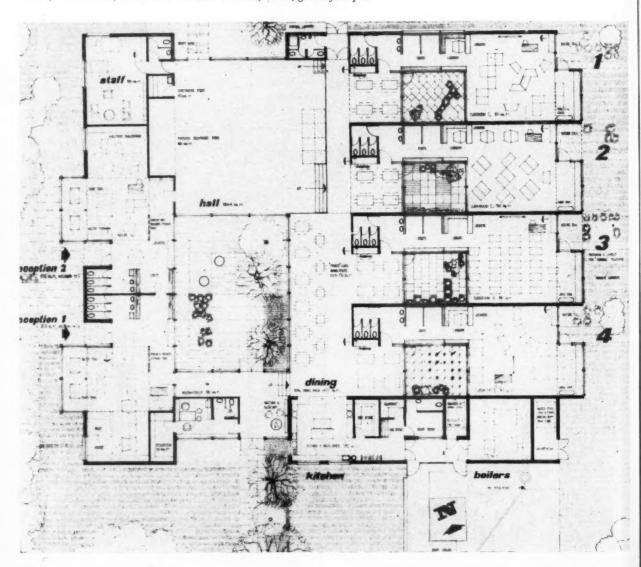


#### Wokingham Infants School Competition:

#### SECOND PRIZE-WINNING DESIGN BY ALAN GOODMAN



Above, east elevation, section A-A and south elevation; below, ground floor plan.

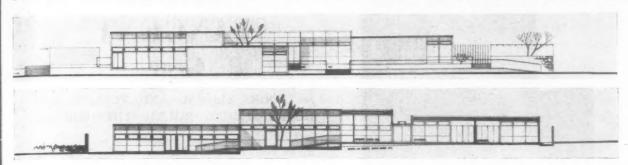


ТН

-1

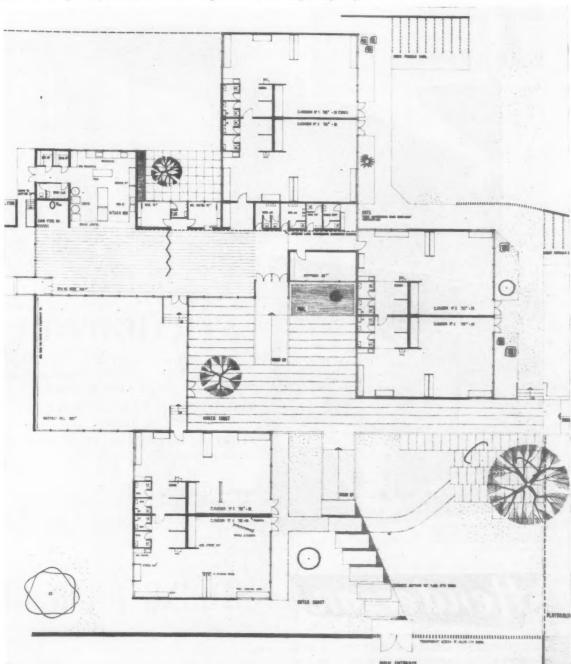
Тор,

#### DESIGN PRIZE - WINNING KENNETH TASKER THIRD



Top, south-west elevation; above, sectional elevation through entrance; below, ground floor plan.

N



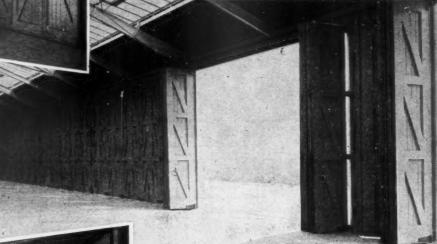


# Famous 'TANGENT' Gear

for DOORS SLIDING AND FOLDING and DOORS SLIDING ROUND THE CORNER

up to 20ft. high and for any width of opening

Seen in successful operation the world over



Despatch bays of William Jackson & Son Bakery, Stockton-on-Tees. Opening 84 ft. wide overall.

Th

## STRAIGHT-RUN

SINGLE - DOUBLE - TRIPLE lines of Tracks for all Industrial Doors in either wood or metal

TOP TUBULAR TRACKS (10 sizes) to suspend doors and carry the weight.

STERLING BOTTOM ROLLERS to take the weight on the ground.

Qualified Technical Representatives in all areas—readily wait upon you—without obligation.

Every room in every Architect's office should have a 'Henderson' Catalogue 55 (184 pages). If not, request a copy.



18 ft. high, 'Straight Run' and 'Tangent' doors at the Maidstone and District Motor Service Borough Green Depot.

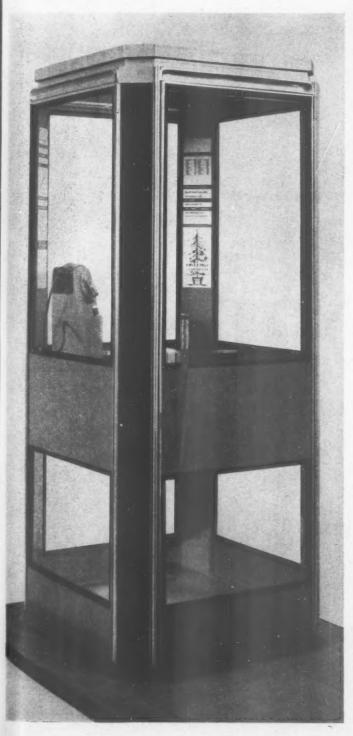
# SLIDING DOOR GEAR

for any Door, Window or Partition that slides or folds

P. C. HENDERSON LIMITED, HAROLD HILL, ROMFORD, ESSEX. Telephone: INGrebourne 41111. London calls dial IL4-41111. Sole makers of 'Ultra', 'Tangent', 'Sterling', 'Marathon', 'College', 'Council', 'Phantom', 'Parlour', 'Mansion', 'Loretto', 'Zed', 'Lobby' and 'Handy' Sliding Door Gest

## The new telephone kiosk

The kiosk designed by Neville Conder, and chosen by the Post Office, was the only one to dispense with the traditional backboard.



We publish today the three designs for a new telephone kiosk submitted to the Post Office, at its request, by Neville Conder, Misha Black and Jack Howe. The design by Neville Conder has been accepted, and after further development in detail will be tried out at first in selected places, such as new towns and new town centres. There is no intention of replacing the existing cast iron kiosks, designed by Sir Giles Gilbert Scott over 30 years ago and modernized in the 1930s. Among the factors taken into account in selecting Neville Conder's design were the probable cost of production and maintenance, and its adaptability to many different situations. The design selected is the only one which has a similar appearance from all four sides, which makes it easy to identify from any angle and simplifies the problem of positioning the door in relation to pedestrians.

#### Design by Neville Conder

For the following two reasons the designer considered that the kiosk should preferably have a similar appearance on all four sides.

(a) Any strong differentiation between different sides will create a directional emphasis that may well cause architectural difficulties in some of the many types of positions in which the kiosk will have to be placed.

(b) As an object in the streets it will be more easily identified if all sides are similar. In practice the kiosk itself, rather than any lettering on it, is the means of identification.

The design departs from present practice by dispensing with the use of the traditional back-board and thus separates the two functions of (i) carrying the equipment, (ii) "blanking-out" in positions against walls. This allows the design to be built with or without a blind side and permits great flexibility in use, without introducing alternative door positions. The new conception is of a "telephone desk," rather than a backboard. This is felt to be very pleasant in use, neat in appearance (it secretly incorporates all fuse and switch gear) and is the most suitable design for incorporating the new type of instrument and the directory holder.

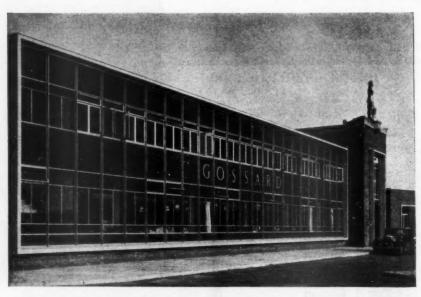
The design has cut-off corners on plan. This feature yields the following advantages: 1. It reduces the diagonal dimension and causes less obstruction in a busy street. 2. It provides a housing for the information panels. 3. It reduces the panel width to a size suitable for a door. 4. It makes strong "tubular" columns possible that can also serve as low-level vents, secret conduits, and rain-water pipes. 5. It allows a

pend ight

upon rson'

olds

1111. r Gest H 124



GOSSARD'S NEW FACTORY NEAR EXETER 1. Stuart Dilks, B.A., A.R.I.B.A., Chartered Architect

# HOPE'S

Aluminium Windows and Curtain Walling

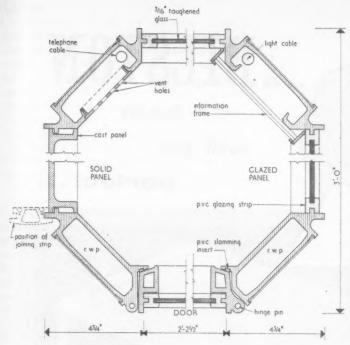
## HENRY HOPE & SONS LTD

Smethwick, Birmingham & 17 Berners Street, London, W.1 Local Office: 61 Howell Road, Exeter



they western westernesting which we then s They will they was a state of the way of the

MEMBER OF THE METAL WINDOW ASSOCIATION



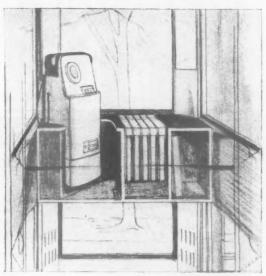
Neville Conder's design. Above, sections through solid and glazed panels; below, vertical sections; right, interior layout of instrument and directory holder, below, right, linked kiosks.

position of linked kiosk 51/4 upper cavity vent holes in linking kiosk p.v.c. glazing strip .33/4 HEAD OF 7-278 cast panels telephone desk 3-21/8 4 374 OF JOINT PRESTRESSED

simple joining techniques for kiosks in series either as terraces or in "blocks" two kiosks thick.

#### Ventilation and sound proofing in single kiosks

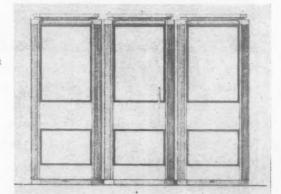
The area of high level opening for ventilation is in the form of a  $\frac{1}{2}$ -in. strip giving an equivalent of 55 sq. in. This is an increase on the present GPO kiosk (approximately 24 sq. in.) which is thought to be inadequately ventilated. Low-level vents are introduced to encourage upward movement of the heated air. It



is hoped that because of the positive seal of the door and the use of absorbents at the vents, the noise level will compare favourably with the present kiosk in spite of increased ventilation.

#### Linked kiosks and sound attenuation between kiosks

The kiosks used in terraces are exactly the same as those used singly except for the glazing between them. Second kiosks can be added to existing kiosks and the only change in the original kiosk required by such an addition is the substitution of one pane of roughcast glass for a pane of clear glass. Second kiosks (or



alternative ones in a long line) will be equipped on the "party-wall" side with glazing in sub-frames for quicker removal for an annual cleaning of the glass in the cavity. The glass in these frames will be thicker to reduce noise penetration. The party walls are fully glazed to allow a feeling of openness and good light penetration to central kiosks in ranges.



With perfection in mind, a Bilston bath is the natural choice. Bilston design and finish have instant appeal. Bilston quality is appreciated year after year, as its beauty remains unimpaired by the passing of time. The Bilston range includes the exact colour required for any decorative scheme.

Choice of lengths includes 72", 66", 61", 60" and 54".

Atlanta flat bottom helps to prevent slipping—a point of special importance if a shower is fitted.

Shallow step is safe for young and old. The Atlanta can be fitted to give an overall height of only 16".

Taps can be fitted in three different positions, to meet all possible requirements.

Corner tap mounting facilitates installation and maintenance.

Supplied with or without overflow — with or without handgrip.

The Atlanta costs no more than an ordinary bath



Bilston

- the bath SPECIALISTS

Atlanta e Magna e Cresta e Marina e Mermaid e Bermuda e BILSTON

BILSTON FOUNDRIES LTD . BILSTON . STAFFORDSHIRE . Illustrated literature is available on request.

Equipm It is property and the phone of telephone part of shielded mation They p. 230 sq a 5-in.

which corpora

Mainte No fer therefo Cleanin (The p cost in at wor But the vinced ing to possibi have b The or miniun materi time 1 areas. visual

> The go In ger sion i machi to acc etc. It fix to machi A fea

anodiz p.v.c. import

" joini simila round strip bracir provid

proba
The k
and t
kiosk

2 ft. porat Floor

finish

#### Equipment

It is proposed to use the new telephone instrument and the new type of directory holder in a special telephone desk fitting. The light fitting is directly over the telephone desk and casts some light on the higher part of the ceiling. The tube is well protected and shielded from direct view to avoid glare. Two information panels are provided on the splayed corners. They provide together a total area for information of 230 sq in. The width of all printed matter is limited to a 5-in. sight size. The door closer is of a new pattern which can be mounted "up-side-down" and is incorporated on a bracing shelf over the door.

#### Maintenance and colour

No ferrous metals are employed and maintenance is therefore for reasons of appearance and hygiene only. Cleaning costs should be reduced by the new design. (The present kiosk has 76 panels of glass: the new kiosk eight.) Colour is introduced for cosmetic purposes only and not for protection. The estimate of cost includes for the red panels being stove enamelled at works and in theory this kiosk needs no painting. But the designer wishes to state that he is not convinced that there is any long-term substitute for painting to achieve a permanent Post Office red. Many possibilities, including self-coloured plastic panels, have been explored and on specialist advice rejected. The ordinary framing members are in extruded aluminium and will be cleaned with the windows. This material looks well in narrow members but in a short time looks dull and tawdry externally in large flat areas. For that reason—and also in order to achieve visual strength and colour relief in the design—the corner members have slip-in thin plates of black anodized aluminium for cosmetic purposes only. The p.v.c. glazing beads are also black and form an important element in the design.

#### The general structural system

In general the principle has been followed of extrusion meeting casting. In this way a great deal of machining is avoided as the castings can be formed to accommodate the extrusions and all necessary lugs, etc. It will be noted, for example, that the solid panels fix to the extrusions without requiring any mitre or machining of the extrusion.

A feature of the design is the way in which the "joining blades" of the extrusions marry with a similar blade in the roof frame casting and curve round to make the use of a continuous p.v.c. joining strip possible. The solid panels provide strong cross-bracing to the entire structure. The telephone desk provides a brace in the horizontal plane at the most probable impact level.

The kiosk is 3 ft. sq. on plan (as in the present design), and 7 ft. 2 in. in height (8 ft. 4 in. in the present kiosk), with a clear door opening of 6 ft. 6 in. by 2 ft. 2 in. The plinth is precast vibrated r.c. incorporating levelling screws and six conduit recesses. Floor tiles are pre-cast vibrated concrete, granolithic finish; %-in. toughened drawn glass throughout.



Misha Black's design is assembled from seven aluminium alloy castings.



Jack Howe's design uses opaque glass to give a "permanent" post office red and a polyester glass fibre back panel.

Faced
Bartrev
Particle
Board

Melamine face on both surfaces is of particular interest, since one sheet of Avtrev will often suffice for cupboard doors and partitions where previously two boards have been necessary to obtain a decorative surface on both sides.

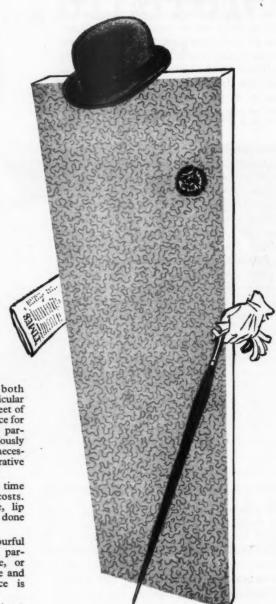
Avtrev can save you time and reduce your costs. Simply cut to shape, lip and fix, and the job is done—and done well.

Use Avtrev in colourful patterns for doors, partitions and furniture, or wherever a decorative and hard wearing surface is required.

Sheet Sizes 6'x4',8'x4'.
Thicknesses \$", \frac{1}{2}", \frac{8}{3}" or \frac{3}{4}".
Price from 4/8d. per sq. ft.

Avtrevis the newest factory-made board embodying Melamine plastic surfaces on a core of Bartrev particle board, providing a constructionally stable and rigid sheet material that is hard wearing, stain, heat and moisture resistant—colourful and attractive too—all at low cost. Avtrev is supplied either with one decorative Melamine face balanced by plain brown plastic, or with both sides faced with Melamine in any combination of the wide range of colours and patterns available.....earning for Avtrev the description "The Best Dressed Board."

The fact that Avtrev can be supplied with a decorative



We prin W. Since architect have do

describe informat site; and In puttithat thes applying practice

to a firm per year reassessr forward

AVTREV.
THE BEST DRESSED BOARD

BARTREV BOARD COMPANY LIMITED, Henrietta House, 9 Henrietta Place, London, W.I. Tel: LANgham 8041/8

We print this week the first of a series of five articles on "Architectural Management." The authors, W. Sinclair Gauldie and Arthur F. S. Wright, are two of the principals of the Dundee firm of architects Gauldie, Hardie, Wright and Needham. Their aim is to describe in some detail what they have done to apply the principles of management to their own office. In the course of the series they describe the modifications they have made to the architect's traditional procedure in gathering his information, in preparing his drawings, in writing his specification and in controlling the job on the site; and in their last article they discuss how responsibility is to be distributed within the office. In putting the results of their experience before the profession, the authors wish to make it clear that these are tentative only, being the fruit of a short, though encouraging experience. When applying this experience to their own offices, readers should remember that it relates to Scottish practice (in which, for instance, contracts are often let out by trades, with no general contractor) and to a firm comprising an average of five architects, carrying out work to an average value of £200,000 per year. The Editors of the JOURNAL welcome these articles because they believe that the kind of reassessment described in them is long overdue. They hope that they will provoke readers to come forward with their own solutions.

#### 7 PRACTICE

# architectural management: a method study 1, introductory, information handling

After outlining the problem, the authors, W. Sinclair Gauldie and Arthur F. S. Wright, begin their method study by considering "information" as it concerns the architect at the pre-contract stage. They propose the use of schedules for recording the client's brief, the use of "source" and "type" details to canalize information needed at the drawing board, and of "comparison tables" to speed the choice of products. They propose a drill for treating manufacturers' literature and another for handling cost information.

The public (in general) does not regard architects (in general) as efficient, a view which is shared by many contractors and surveyors: hence the current heart-searching within the profession. We are beginning to realise the futility of putting forward, as a plea-inmitigation, the excellence of our design conceptions, since efficiency in this sense is something beyond the layman's judgment. He uses a simpler standard: the extent of the client's satisfaction with the finished job from the point of view of performance and cost and erection-time.

The architect's own assessment of efficiency must include the simple standard already stated plus design quality. It must also take into account the fact that good design quality needs deep, detailed and possibly prolonged thinking, while the time of architects and their assistants is a costly commodity. Additionally, therefore, we must recognize that an architect's handling of a project is not efficient (from his own standpoint) unless:

(a) he gives it adequate time and attention; and (b) he ensures that none of this time and attention is consumed by useless effort.

We ourselves have been examining these propositions very closely, in so far as they affect our own practice, a very general one which aims at producing decent contemporary design and has a long-established reputation for thoroughness in detail. These are qualities which we are anxious to preserve as the practice develops and expands, and the need to do this while maintaining a reasonable level of profit immediately brings one up against that elementary yardstick of managerial efficiency, the ratio of time-spent to feesearned

Being of the opinion that most published work on architectural management has dealt with treatment of symptoms rather than eradication of their causes, we have tried, for a start, to get right outside our job, looking at it with the unclouded eye of the "management consultant"—in other words, to think about our thinking. Our findings may be helpful to other architects, and we think they may have a particular bearing on the problems of the expanding practice and on the working of larger practices on a "group basis."

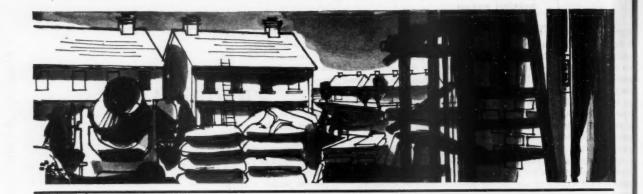
Architecture is produced by a process of absorbing

Architecture is produced by a process of absorbing information, making decisions and communicating the decisions to the people concerned.\* This information-decision-communication sequence is basic to all aspects of the architect's work, managerial as well as creative. At the risk of generalizing, we would say that his training fails to inculcate this discipline of thought, as it should, all along the line.

In the field of planning, it is taught quite thoroughly: in the field of construction only superficially: and as regards all the rest of a practising architect's work, hardly at all. Untrained in systematic thinking, he too commonly proceeds by assumption, intuition and inspiration.

This is reflected in the nature of the commoner criticisms of his efficiency. His ability as a planner, æsthetic adviser or producer of design-drawings is relatively seldom called in question: but there is a

<sup>\*</sup>Cf. Clive Wooster's four categories (AJ, October 13, 1955). management, investigation, design and instruction: but in our view, as noted above, management can itself be considered simply in terms of these three elements, and must not be looked upon as 'a's separate 'mystery' outside the architectural curriculum



# Redfyre Bacboilers provide low-cost water heating in new housing schemes at Aycliffe, Peterlee and Stevenage

A Redfyre Bacboiler supplies ample domestic hot water, and heats one or two radiators as well. (Or it will heat up to four radiators if hot water isn't needed.) Installation is simple and quick and maintenance costs low. Two new Ministry approved Redfyre grates with Bacboilers are now available—the new Hearth Redfyre with sunken grate and underfloor draught; and the Redfyre 60, a new low-cost controlled-burning fire with exceptionally clean modern lines. All Redfyre fires are fitted with 30% chrome, semi-steel bottom grates for longer life.



Bachoilers like this are being installed in new homes at Aycliffe.

Chief Architect: G. A. Goldstraw, O.B.E., B.A. (ARCH.), A.R.I.B.A.



Full technical information from

NEWTON CHAMBERS & COMPANY LIMITED REDFYRE PRODUCTS, THORNCLIFFE, SHEFFIELD

consensus of opinion that he is commonly inefficient in the following respects:

(i) He forgets things. (Failure of information.)

(ii) He is ineffectual about making or obtaining the right decisions at the right time. (Failure of decision.) (iii) He loses time in elaborating "one-off" solutions to commonplace recurrent problems and leaves himself too little time for major problems. (Failure of decision.)

(iv) He fails to communicate his decisions at the right times and in the form best suited to having them carried out. (Failure of communication.)

(v) His estimates of cost and erection-time are unrealistic. (Failure of information and of decision.) None of us can say that these complaints are unjustified, and they are all gross deficiencies of management. In correcting them we need not-in fact, must not-build up the top-heavy kind of administrative structure which only elaborates the architect's organizational and non-creative chores instead of reducing them. We certainly need substitutes for memory, accept-reject mechanisms for evaluating data and assisting decisions, as well as procedures for simplifying and clarifying the giving of instructions both by drawings and by words. But these must be of the simplest kind. The whole point of good management is simplification and the rejection of inessential

We have made a critical survey of our own practice, to find out how best to carry out the process of information, decision and communication, the tools (in the broadest sense) which will help us, and the relationship of people (partners and staff) necessary to obtain full efficiency. It will be convenient to set out our findings in that order and, in the main, to consider the pre-contract stages of the work separately.

Fig. r. A standardised schedule for recording the client's detailed requirements. This is to be filled in by the architect in the client's presence.

	ت					
	L C O C S	M A S. L. S. MANTENIA.	CELLINGS RETERNATION	A S. I. A. J. I. B. C. S. MAISSAN PYPS STREET ALSONS	0 A D 0 E C 015CC	
						MARKETER, STORMANT, MARKETER, STORMANT, MARKETER, STORMANT, MARKETER, MARKET
Mark to rand sandy			Chrystel 200 ccgl scall dd lasa Galla Chr Silvel, A Chrystel 200 ccgl scall dd lasa Galla Christol A Christol A Chrystel 200 ccgl scall dd lasa Galla Christol A Christo	THE SENSITIVES AND ALLE CHIND IN LAND TRANS ON TO	And, State   Bertin are stipped assertant (a)   And (b)   And (c)   And (c)	



# GAYMEL

enamel proves best Gay's-one of the oldest and

largest companies concerned *solely* with building paints—now introduce a brilliant new gloss finish: GAYMEL.

By its unique combination of hardness with elasticity, GAYMEL, on practical tests in marine and industrial areas, is eclipsing previously accepted standards for sheer performance. Gaymel's impervious gloss, allied to elasticity, provides a finish that survives years of exposure and complies with the movement normal to most building surfaces.



Gay's Impenetrable Paint has—for half a century—preserved buildings of the highest national importance. Gaymel sets yet higher standards of decoration and service.

# another sound paint - by GAY'S

R. GAY & CO. 93/97 New Cavendish Street, London, W.1
Telephone: Langham 0831

BRANCHES: BRISTOL, BIRMINGHAM, BELFAST, GLASGOW, LEEDS, MANCHESTER

#### PRE-CONTRACT STAGE-INFORMATION

#### The architect's brief

This consists of:

#### Sources

- (a) Client's instructions:
- (i) General (accommodation, services, cost, etc.)

#### Problems

The most important information of all, but too seldom set down or confirmed in any formal or lucid way. Slackness here is a primary source of delay and expense.

(ii) Detail (finishes, fittings, etc.)

Detail requirements often given either too early or too late.

- (b) Site data:
- (i) Measured survey
- (ii) Services available
- (iii) Restrictions (T & CP, title deeds, etc.)
- (tv) Subsoil
- (v) Climate

Site data are too seldom collated in a form suitable for reference by the designer at all stages, e.g. if he has to consult two notebooks, an ordnance map, a letter file and the back of a cigarette packet, something will be forgotten.

#### Solutions

(a) The client is tactfully restricted to giving general instructions only, at the first discussion. These are set down, after the meeting, in a form not unlike a competition programme: graphical symbols for relationships of rooms or departments can be valuable if used sparingly and kept simple enough for the client to grasp.

A copy of the programme goes to the client. If there are modifications at sketch-plan stage, they are similarly noted (on a different colour of paper) as appendices to the programme.

Detail requirements are settled as soon as possible thereafter to avoid indecision over things like thickness of floor finishes which can cause surprising cumulative errors on working drawings. Simple standardized schedules (Fig. 1) are very useful for forcing decisions, possibly on account of the compulsive effect of "filling up a form." They are always completed by the architect on the spot, in consultation with the

client, never sent to the client for filling up himself: he has a "pending" tray, too.

Apart from being obviously businesslike, this drill gives the client at the outset, some notion of the complexity of the architect's job and the analytical faculty needed to deal with it. As a by-product, it therefore gives the architect a little of that "one-upness" which is built-in to the medical and legal professions but is badly needed by ours.

(b) The site survey is set out on a sheet of the same (standard) size as the other drawings for the job, and kept with them. In this sheet we show positions of services available, and also note the "clearing" of preliminary inquiries by planning and supply authorities and by solicitors (for covenants in the title deeds). This survey sheet contains all relevant site information, either in full or by listing references to documents; a separate print of it is filed with the Client's Instructions.

#### Design data

#### Sources

d

ER

(a) Available in office:

Byelaws

Supply authorities' regulations

" Planning "

Other source material

(AJ's "Buildings Illustrated," etc.)

#### Problems

No particular problems other than accessibility.

(b) Available outside office:

Development Plans

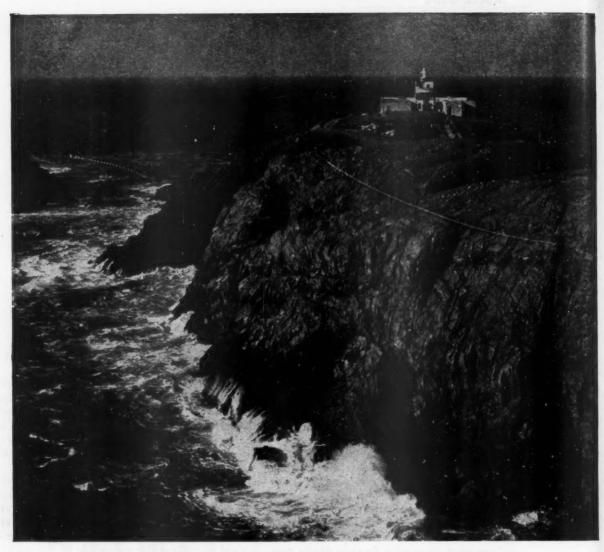
Factories Acts

Shops Acts

Fire prevention officer

Insurance companies

Existence of some of these factors is often quite unknown to new assistants and even the experienced can have a lapse of memory and fall foul of, say, the Factory Inspector at an unfortunate stage of the job.



SASCO DOORS have been installed in the Strathy Point Lighthouse (North Coast of Sutherland) New Station for the Northern Lighthouse Board, Edinburgh. Contractors: - Messrs. A. A. Stuart (Glasgow) Ltd. 2275 London Road, Glasgow E.2.



# Head Office BOLD SAW MILLS • WIDNES • LANCS

TELEPHONE: WIDNES 2641 . 5 LINES

Apply for the new "Sasco" Door Leaflet or Wall Chart, now available.

# YOU CAN RELY ON SASCO DOORS

#### Branches-

MANCHESTER 1 32 Store Street 'Phone: Ardwick 1741/3

BRISTOL 3 Hartc iffe Way, Bristol 3 'Phone: Bristol 61437 (3 lines)

Woodside Saw Mills, Pedmore Road 'Phone: Brierley Hill 78287/9

BIRMINGHAM 8 Bromford Lane, Birmingham 8 'Phone: East 3711/2 GLASGOW S.W.I 80/92 Whitefield Road 'Phone: Ibrox 1154/5

KETTERING The Crescent Queensberry Road 'Phone: Kettering 3075 and 3792

HANLEY Etruria Road, Hanley, S-o-T 'Phone: S-o-T 29605/6

LONDON S.E.10 23 Stockwell St., Greenwich 'Phone: Greenwich 3461/2

#### Solutions

We expect this ground to be covered by the AJ Research Fellowship so we are to some extent marking time on it. As regards (b) we have a cyclostyled check-

list (Fig. 2) on which the partner in charge ticks the items which ought to be consulted. The designer cross-ticks them as he goes and the list, initialled, goes on file along with the "brief."

#### Construction data

#### Sources

(a) Independent:

BSS & CP

BRS

Specification

ASC (part)

Published details

Own source-material

Experience

Consultants

Books

#### (b) Manufacturers:

ASC (part)

Specifile

Catalogues and leaflets

Travellers

#### Problems

(a) Chiefly selection, filing and readily accessible storage.

The most difficult sort of information to pass on is personal experience. A good deal of it is embodied in source-material such as previous details of comparable jobs, but these are commonly used haphazardly ("Hunt out that stair detail for the Whatsit factory and muck it about a bit...")

(b) Again selection, filing and ready access, aggravated by the rising tide of unsolicited "literature" which tends to submerge useful and frequently consulted material. Reliability of travellers' statements varies enormously.

#### (c) Correspondence:

(c) Much useful information may emerge

by question and answer

on a particular job,

only to be buried in the file.

#### Solutions

Again we await the results of the Research Fellowship studies, but there are certain points which we should like to make even at this stage.

As regards (a), we are systematizing our use of "office source-details." These are not to be confused with "type-details," of which more will be said later. A "type-detail" is one which can virtually be taken out of file, titled, photo-copied and issued as it stands. A "source-detail" is only a proven solution which lends itself to adaptation, as a basis for a fresh drawing. We are trying to build up a library of such details, checking in each case that the original work was, in fact, carried out as drawn: this last point is important.

JOB:

Partner:

Assint:

#### CONSULT :

Development Plan:

Factories Acts:

Shops Acts:

Police:

Fire Prevention Officer:

Client's Insurance Co:

Client's Law Agents:

Remerks

nwich 61/2

> Fig. 2. Cyclostyled check list for authorities to be consulted. Those relevant are ticked by partner.

For consistency's sake we are at present classifying these under the same heads as the AJ's Working Details, but we think that they will eventually be grouped by elements as for cost-analysis. This must await adoption of a consistent elemental classification by the profession, a job which must not be long delayed.

A good deal of practical experience can also be embodied in what we call "Comparison Tables" (Fig. 3). The object of these is to make broad comparisons by rapid visual means, so as to narrow a field of de-

cision. Three gradings only are used, shown symbolically on the table, thus:

es Maybe No

The aggregate assessment in each case is of course not an absolute, it requires (in statistical language) "weighting": to put it simply, a product will not be chosen because its column shows a string of "goods" or "passables" if these only refer to properties not required on this particular job. The person consulting the table must therefore do this weighting mentally (in non-statistical language, "use his loaf"). The tables are not to be used for pinpointing final choices, but merely to clear the ground and prevent people bogging themselves down in particulars and prices of, say, 15 different suspended ceilings when, in fact, there are only four which meet the broad requirements of the job.

If built up from reliable information and used within

Fig. 3. Comparison table for commonly-used hardwoods.

CHARACTERISTIC REQUIRED:	AFR. MAHDBANY	AFRORMOBIA	AGEA	BORNEO CEDAR	IDIG-BO	IROKO	KBRUING	MAKORE	A PRAKT	OAK, EUROFEAN	OBECHE	SAPE	TRAK, SURES.
STABILITY	•	•		6	•	•	0	•	0	0	•	0	9
NATURAL DURABILITY	•	•	•	•	•	•	9	•	•	•	0	•	•
HARDNESS	•	•	•	•	0	•	•	•	0	•	0	•	
FINENESS OF GRAIN	•	•	•	0	•	0	0	•	0	0	0	•	0
CONSISTENCY OF COLOUR	•	0		0	•	0	0	•	0	•	0		•
EASE OF WORKING	•	•	•	•	0	•	•	0	•	•	•	•	0
ABSENCE OF PEIMING DIFFICULTIES	•	0	•	•	0	•	0	•	•	0	•	•	0
LOCAL	•	•	•	•	•	•	0	0	•	•	•	•	0
CHÉAPNESS	•	•	•	•	•	•		•	•	0	•	•	Q
REMARKS:													

nboli-

COUrse

guage)

not be

oods"

es not

sulting

entally

. The

noices,

people

ces of.

fact

quire-

within

their limitations, these tables are most valuable as "accelerators of decision."

As regards information in category (b) we favour classification of trade literature by elements and subdivision of elements, but again we are marking time until a consistent elemental classification is within sight: rearranging one's catalogue files is not a job one cares to repeat at frequent intervals.

We are not in favour of listing and indexing trade literature, believing as we do that proper indexing is not a job for amateurs and that an imperfect index is worse than none at all: we may change our minds if we expand enough to employ a full-time librarian. In our view, the real and fundamental solution is simply to "clear the decks"—in other words, to accept the fact that the architect consciously or unconsciously groups manufacturers broadly in three classes:

- 1. Preferred class: Firms he uses frequently, either for good reasons or mere bias (good reasons include good service, adequate pre-contract information, etc.) Their literature is constantly consulted and often wanted in a hurry.
- Occasional class: Firms whose products are occasionally used or are likely to be used and whose catalogue should be kept "on ice."
- 3. Rejects: Firms whose products are in the "once in a blue moon" category; or (even more definitely) in the "never-again" category or whose literature is out of date or otherwise useless (non-technical, impossible to file, etc.)

All catalogues should be assessed on this basis because this is in fact how they are used, and by accepting the fact it becomes possible to avoid submergence of the "often consulted" by the "seldom-consulted" without resorting to elaborate index systems. For instance, "preferred" catalogues—index or no index—tend to find a permanent home under various people's drawing-boards; this is the individualistic approach to the submergence problem, and makes a bad situation worse so far as the rest of the staff are concerned. So we have simply rationalized this situation by wholly isolating the "preferreds" from the "occasionals." They are not numerous, and one subdivided drawer of a filing cabinet holds them comfortably. For obvious identification, to ensure their return to isolation, we just snip off the outer corners of the front cover.

The "occasionals" are kept in a large wall-cabinet, and lie flat on adjustable ply shelves: three-sided metal trays (Fig. 4) would be better, but we have not priced these.

As regards rejects, the important thing is to ensure that a product in the "never-again" class is not automatically re-admitted to the file when the next issue of its catalogue rolls in. This is done by keeping a foolscap "rejection-sheet" (stuck on a cardboard back) on top of each section in the "occasional" cabinet. It carries the name of the product and manufacturer and the initials of the partner responsible for the ban, who can be consulted about the reasons for it and, if good cause is shown, reconsider it. The chance of mere bias excluding a useful product is preferable to the chance of specifying a proven "dud" on the strength of persuasive advertising.

Information in category (c) consists of correspondence which amplifies information on performance or price, or both. In such cases, the partner or assistant in charge has a copy made which is attached to the catalogue and may also, when it concerns price, go into a separate file which is kept for "Prices of Materials."

#### Cost data

Sources	Problems
(a) Quantity surveyors:	QS are generally better at estimating from sketch plans than at giving general guidance
	before anything is on paper.
(b) Manufacturers' quotations:	Usually obtained for a specific job
	and buried in that file
	or in the head of the person in charge.
(c) Cost analyses:	Differences of opinion as to the demarcation
	of the various elements.
	Costs of elements can vary widely
	as between different localities,
	because of varying trade background
	and transport costs,
(d) Own cost records:	Must be clearly and consistently kept and

should include own office costs.

Solutions

(a) The services of the QS can only be used properly if the architect is capable of asking the right questions and of giving quite a firm outline of the possible methods of construction. By the nature of his profession, the QS is concerned with the minutiae of building, almost to the point of obsession and to him an architect's initial conception can present such permutations of undecided materials and structural details as to make nonsense of the simple question "How much will it cost?"

This is partly a problem of communication, and will be considered later: but a good deal of frustration is avoided if the architect has thoroughly digested the information required under the heads already dealt with

(b) Manufacturers' quotations, unless they cover fixing as well as supply, can be very misleading indeed. Those which are useful go into the "Prices of Materials" file, as already noted.

(c) Cost analyses of our own jobs seem to us at the moment to be more directly useful than published analyses, since we work in an area where transport

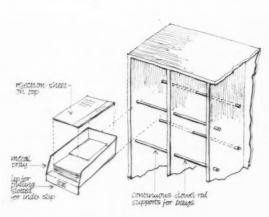
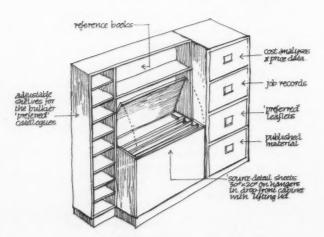


Fig. 4 (above). Metal trays in cabinet for filing "occasional" catalogues. Fig. 5 (b:low) suggested "information unit" for the drawing office.



costs can virtually double the price of such exolic items as decent facing bricks. We believe that cost analysis on a regional basis (possibly organized through committees of the Allied Societies) could be most helpful, if architects are co-operative enough to get down to it. But again a first condition is agreement on the demarcation of elements.

The deeply-ingrained Scottish habit of employing separate contractors for each trade on all but the largest jobs makes the elemental bill (whatever its merits or demerits) a very remote possibility.

For many purposes, our own cost records are still the most useful information we have, if only we know all the factors which influenced the cost one way or the other. At the end of a job we always prepare an abstract showing the final cost of all the trades as compared with the tender prices: it also shows our own and the QS fees. One copy goes to the client and another into the "Remeasurement Statements" file on that job.

The figures for the abstract are derived from a "visible record" file, on the Shannon System, which shows the certified, as compared with the estimated costs: this will be described in a later article.

The same "visible record" incorporates a note of: Square footage and cost/sq. ft.

Cubic content and cost/cub. ft.

Erection time.

Cost to us.

The last item is amplified by a detailed record of the time and expenses of our own office on the job, and of the instalments of fees paid.

This gives us some measure of our own efficiency, in so far as it can be gauged by profit, and also some idea of the extent to which a similar job will call on our manpower: it also serves on occasion as an Awful Warning.

#### GENERAL

Information must not only be full and accurate; it must be very easily manageable, otherwise decisions will be delayed or shirked or faultily-based. We are convinced of the necessity of isolating the hard core of material which must be at hand for frequent consultation, and in practice have found no inconvenience from the separation of storage as between "preferred" and "occasional." We are toying with the idea of an "information unit" for the drawing office, which would comprise in one fitment (Fig. 5) bookshelves for the commonly-used reference books and for the bulkier "preferred" catalogues: filing cabinet with drawers for the remaining "preferred" catalogues, for published material (e.g. "Buildings Illustrated"), for cost analyses and our own job records: and perhaps storage for our own classified source-details hung vertically. It might be that in the larger office a number of these units would be preferable to a central "information room" with its attendant complexities of indexing, issuing and waiting for material to be returned.

POLI

at COV principa

> Many practic on pre to buil

The p

Ine two

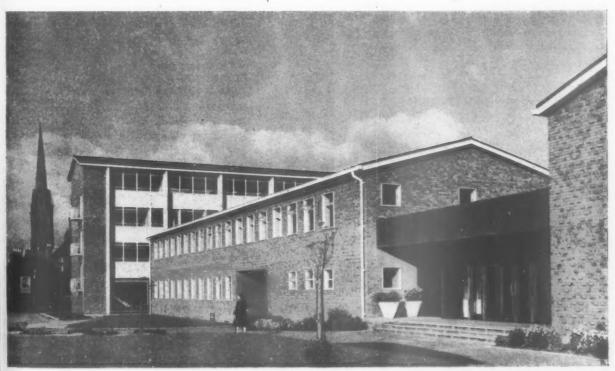
building illustrated

#### POLICE HEADQUARTERS

at COVENTRY; designed by ARTHURLING, city architect and planning officer, successor to DONALD GIBSON principal architect GEORGE SEALEY; project architect WILLIAM MANN; assistants H. J. ROBERTSON, J. W. KNIGHT; quantity surveyor R. F. LEAR; consultants (heating, ventilating and electrical) GRANVILLE BERRY, city engineer and surveyor

The planning of buildings for the police is largely controlled, if not beset, by Home Office Regulations. Many of these are perfectly sound, but others betray a prejudice founded on out-of-date building practice. At the new Coventry Police Headquarters the architects have achieved a considerable advance on previous buildings of this type by overcoming many of these prejudices; for instance, the opposition to buildings of more than three storeys.

The two office blocks seen from the south-west, with the entrance to the assembly hall on the right.



t costanized uld be ugh to agree

exoti

oloying ut the ver its till the low all

which imated of:

of the b, and

some all on Awful

ate; it cisions We are d core t conincon-

with rawing Fig. 5) books filing erred"

n job ssified in the ferable endant

aterial

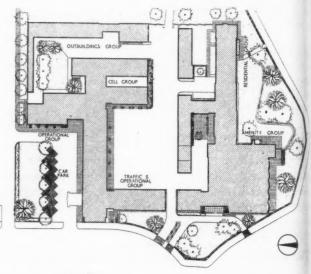
APPRAISAL: The main problem in the design of a police headquarters is the reconciliation of a number of functions of widely varying character. The resulting buildings must be recognisable as an entity, and must also reflect the special but rather indefinable character of the police in this country. The Coventry Police Headquarters had to provide offices for the regional headquarters staff, CID and traffic control offices, a parade room, cell block, a social club with a multi-purpose assembly hall suitable for letting out, a canteen, kitchen, residential accommodation for single policemen and caretaker, garages and workshops.

The problem is extremely difficult. One way of tackling it would be to decide first on the architectural character to be achieved, and then to maintain this consistently throughout, subordinating the character of individual functional components to it. At Coventry the opposite approach has been chosen and a number of dissimilar blocks have been set down one after another, each attempting to reflect the goings-on inside together with the structural economics which are involved in its design as an isolated problem. It could no doubt be argued that the various functions require different structures and treatment and therefore the buildings will all be different in character. Such a justification is perhaps an extreme rationalisation of a limited functionalism.

The variety of character at Coventry is accentuated by the use of a profusion of facing materials and of types of window opening. This is a common shortcoming of much recent architecture, and is usually a result of the many difficulties inherent in attempting to "express" the functional or structural nature of everything regardless of its hierarchic importance in the total programme.

Nevertheless, the Coventry Police Headquarters sets a new standard in the design of this type of building. The complicated circulation (of police, civilian staff, public, prisoners, and vehicles) works smoothly, and the buildings, even if a consistent character has not yet been achieved, have sounded the death-knell of that peculiar character, a combination of neo-Georgian and air-raid-shelter, which has predominated in police buildings for many years.

The site is on the projected ring-road and will be well placed for a rapid sally after the local desperadoes or erring motorists. At present vehicular entry and exit are through the opening in the two-storey office block on the west (see photograph, p. 59); then will be another entrance when the ring-road is built and circulation will be changed. The forecourt on the north side is temporary until a new processional way comes into being.



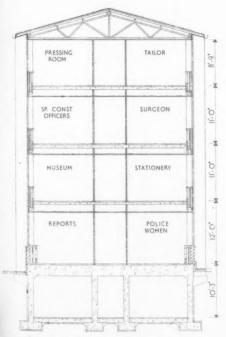
Site plan

The four-storey main administration block, seen below from the north-west, has two main entrances, that for the public being under the canopy. The other entrance, under the low roof, on the extreme left of the picture is the police entrance and also serves the parade room. The main administration block has a stee frame cased on concrete; along the sides concrete fins faced with Hornton stone have been attached to the columns. These serve no structural or other conceivable purpose and it must be presumed that they are meant for decorative effect. Between these are purpose-made metal windows and brick-backed spandrel panels faced on the upper floors with travertine and on the ground floor with Serpentino marble. This darker colour at ground level is to disguise any splashes of mud. The block has brick "book-ends" the brick being, as elsewhere, golden buff facings with raked joints Three balconies project at half-landing levels from the end facing the road; these will eventually provide grandstand views of the processional way.





Above, the balcony end of the four-storey block from the south, together with the rather unsuccessful link to the smaller office block of load-bearing brickwork, which houses the traffic and CID groups. The main stair may be seen through the windows; the brick end also contains the lift and part of the lavatories.



om the

c being

on the

serve

a stee

ed with

erve no

esume

ese are panels,

el is to

ends"; l joints

facing of the

Section through four-storey office block [Scale: 1/2"]



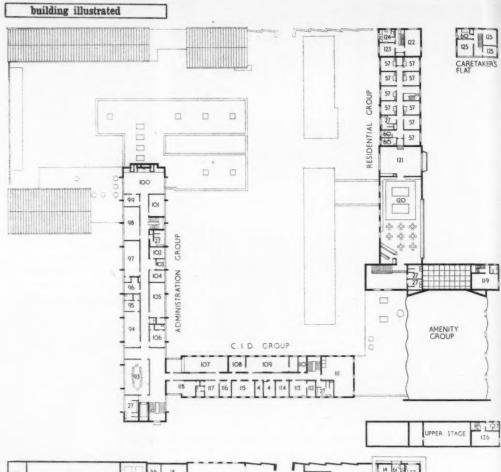
The plan of the four-storey block is generally that of a central corridor with offices on both sides. The main public entrance hall, above, has an enquiry counter facing the doors. The floor is of random marble and mosaic. The door behind the counter opens into the central corridor of the two-storey block.



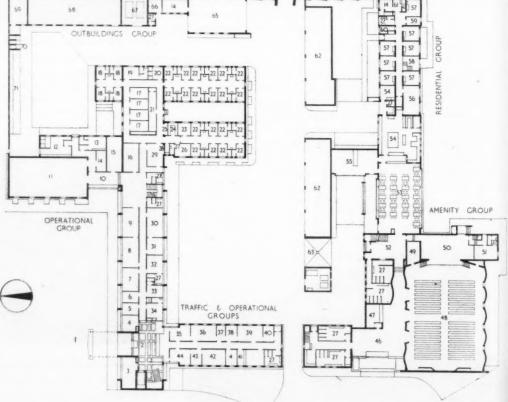
On the first floor there is a widened corridor outside the conference room, above. The floors of corridors and main offices are of cork tiles; those of other offices, thermoplastic. The main stair is of reinforced concrete with in-situ terrazzo treads and risers. The balustrade is of  $\frac{\pi}{2}$  in toughened plate glass fixed to mahogany-sheathed balusters at 4 ft. centres, which support a mahogany handrail.



The conference room, above, is panelled in eucalyptus veneer with mahogany skirtings and cover beads. The furniture in this room was designed by the architects. Office partitions (to the corridor) have large clear glass panes with plywood panels below.



First floor plan



Ground floor plan [Scale:  $a_4^{1}$ " = 1' 0"]

Second a

0.50

Cross se

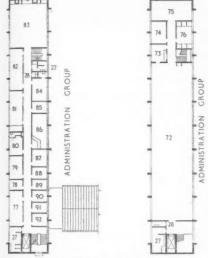
KEY
1. Canopy
2. Entrance half
3. Aliens
4. Interview
5. Clerk
6. Chief inspector
7. Inspectors
9. Reports
9. Reports
10. Divisional entrance
11. Parade room
12. Male changing room
13. Female changing room
14. Store
15. Locker room
16. Drying room
17. Detention rooms
18. Female cells
19. Wardress
20. Showers

25

10

1,27

27



Second and third floor plans, administration block.

21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. Association cell Blanket store Meters Warder Lavatories HMC HMC
Charge room
Police women
Police women sergeants
Police women changing
Police women inspector Superintendent
Traffic enquiries
Traffic map roon
Traffic inspector Traffic sergeants

39. Traffic muster
40. Traffic reports
41. Licances
42. Lost property
43. Station sergeant
44. General enquiries
46. Foyer
47. Cloaks
48. Assembly hall
49. Chair store
50. Stage
51. Female dressing room
52. Entrance hall social
53. Canteen
54. Kitchen and ancillaries
55. Officers' mess
56. Residents' dining room
57. Single men's bedrooms
58. Entrance residential
59. Box room
60. Bathroom
61. Entrance hall, caretaker's flat
62. Garages
63. Car wash
64. Electricity sub-station
(below 63)
65. Maintenance workshop
66. Cycle repair shop
67. Fuel oil store
68. Found property store
69. CID store
70. Dog kennels
71. Cycle store
72. Equipment store
73. Storekeeper
74. Pressing room
75. Tank room
75. Tank room
76. Taylor
77. Typing pool
78. Duplicator
79. Filling
80. Special constables
81. Special constables
82. Sp. const. officers
83. Special constables
84. Police surgeon
85. Training officer
87. Prosecution uner's office
88. Prosecution inspectors
89. Prosecution inspectors
80. Coroner's office

Prosecution general office Prosecution W.o.s Prosecution typists Prosecution inspectors Coroner's office 88. 89. 90. 91. 92. 93. 94. 95. Interview

Interview
Ladies' rest room
Conference room
Chief constable
Chief constable's retiring room
Chief constable's secretary
General office 96. Museum R/T Information room 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. Stationery Finance office Strong room Chief clerk

Staff inspectors
Deputy chief constable
CID admin. Modus operandi
CID records and filing
Cloakroom
CID constables
Dark room 110

Dark room
Laboratory
CID women
CID women
CID women
CID superintendent
CID inspectors
Male changing room
Lounge and library
Caretaker's lounge
Caretaker's dining roor
Caretaker's kitchen
Caretaker's kitchen
Caretaker's bedroom
Plant room
Emergency lighting



Cross section through two-storey office block [Scale: 1" = 1' 0"]

#### analysis

#### CLIENT'S REQUIREMENTS

A new police headquarters to accommodate a force with an establishment of 500 personnel together with a divisional station serving the central area of Coventry. The headquarters to contain the following: an administration building linked with a parade room and cell block, traffic and CID block, and a social wing containing assembly hall, canteen, kitchen, social club, residential quarters for single policemen, and a maisonette for a resident engineer/ caretaker and family.

#### SITE

The site, mainly a derelict bomb site, was chosen to give easy access to and from the proposed new inner ring road. There were a few cellars on the site and the ground was clay leading to sandstone at about 5 ft. below ground level.

#### PLAN

The various blocks surround an internal parade square with the main, four-storey administration block on the north incorporating a divisional police station with a separate entrance to a parade room and cell block. Below this block a basement runs full length with the heating chamber at one end. Leading off the main entrance hall, at right angles to the administration block is a two-storey traffic and CID wing, forming the west side of the square. Exit for police vehicles is through this block. On south of the square is the social and residential wing including an assembly hall seating 600. Adjacent to this is the canteen seating 150, with kitchen and servery which also supplies an officers mess and residents' dining room. On the first floor is the social club with bar, billiard tables, etc., and adjoining the club a lounge and library for use by personnel off duty and residents. Accommodation is provided for 16 resident single policemen, who have their own dining room and usual offices. Incorported in this block is a 3-bedroom maisonette for caretaker and his family. This wing is so placed that it can be cut off from the normal day to day running of the police HQ, and the assembly hall is self-contained, so that it can be let for outside functions.

On the east of the square are the vehicle maintenance workshops, oil fuel stores and lost and found property stores. Access is also provided for police vehicles on this side, which will eventually be the only vehicular access, from the ring road.

#### SUMMARY

Ground floor area, cell block: 5,324 sq. ft. All blocks: 40,637 sq. ft.

Total floor area, cell block: 5,324 sq. ft. All blocks: 76,906 sq. ft.

Type of contract: lump sum as RIBA (LA) with fluctuations.

Tender date for Phase II: November 16, 1954.

Work began: April 4, 1955.

Work finished: September 9, 1957. Tender price of foundations, superstructure, installations and finishes, Phases I and II, cell block: £21,332 138 6d.

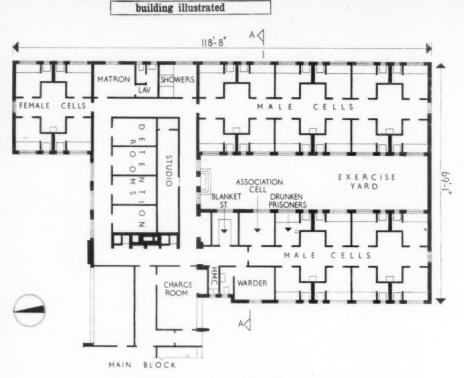
All blocks: £275,976 58 6d.

Final contract price (estimated), cell block: £21,470. All blocks: £305,301 (including £17,593 for basement and £14,875 for ancillary buildings).

Final contract price (estimated) external works and

drainage, £31,543.

Final total (estimated), cell block: £21,470. All blocks and external works: £336,844.

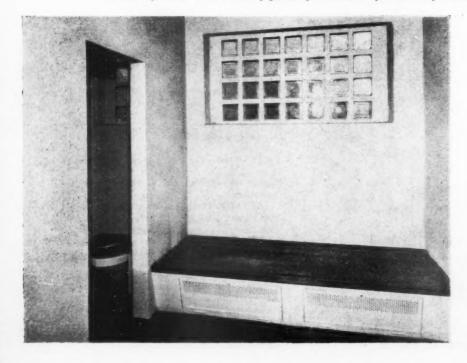


Detail plan, cell block [Scale: 4" = 1' 0"]

At the east end of the four-storey block are the parade room and cell block. The planning and construction of the cell block are controlled at almost every point by Home Office regulations. It has been decided to give a separate cost analysis of this part of the building because this specialised information has not previously been published. The cell block is a single-storey building with 11-in. cavity walls with a 9-in. parapet and a 6-in. solid concrete roof. The cell windows and rooflights are of concrete and

glass lens lights. Ventilation is artificial, heating by circulated warm air. Partitions are of 4½-in. brickwork and the finish to the cell and corridor walls is cement glaze. The Home Office regulations were changed during the contract and this treatment became permitted; previously a very expensive extra thick glazed tile was used and the change to cement glaze made a considerable saving. Each cell, below, has a corbel type w.c., which can be flushed either from inside or outside the cell.

The Holling If the

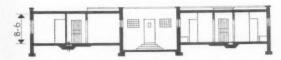


411 Cell

3 73



The steel faced cell doors with grilles and apertures, above, are to Home Office pattern, as is the alarm system and cell lighting. If there is danger of air attack prisoners can be taken down to the heavily protected basement, and in the event of another war one could do worse than to get run in by the Coventry Police.



Section A-A, cell block [Scale: 24" = 1' 0"]

irculated

ish to the ne Office

reatment

ck glazed

siderable

ch can be

The photograph below shows the exercise yard in the centre of the cell block.



#### analysis

In the following cost analysis, the building is presented as a whole, with the cell block alongside, but excluding the boiler house below both. Costs are based on final contract

|   | bloc | cks | block |    |  |  |
|---|------|-----|-------|----|--|--|
| cost per sq. ft.                            | S    | d   | S     | d  |  |  |
| Preliminaries and insurances                | 3    | 91  | 3     | 9  |  |  |
| Work below ground floor level               | 10   | 61  | 13    | 11 |  |  |
| 1-ft. reinforced concrete walls support a   |      |     |       |    |  |  |
| 2-ft. reinforced concrete slab roof over an |      |     |       |    |  |  |

would be used for Civil Defence and half for police purposes. Normal concrete foundations for all other blocks, 4 ft. 6 in. below ground floor level. 4-ft. × 4-ft. × 2-ft. deep stanchion bases provided for assembly hall and canteen. The walls of the boiler room are 13½-in. brickwork with asphalt tanking and 4½-in. brick protective skin. A small beer cellar is provided under the social block.

8-ft. basement below the main adminis-

for the stanchions of the main block.

in cost) is 12 ft. in height. The whole basement is asphalt tanked and used for

storage, and in case of war half the area

tration block, and support is also provided

The boiler house at one end (not included

#### STRUCTURAL ELEMENTS

Frame or load-bearing element Structural steel frame to the main block on a column grid of 18 ft. with spans of 30 ft. A box frame of 30-ft. span and a grid of 16 ft. was used to the two-storey canteen and club room, while stanchions at 15-ft. centres with a span of 60-ft. support steel trusses over the assembly hall. All steel stanchions and frame encased in concrete to give two-hour fire protection.

External walls 11 113 5 84

Brickwork generally is 23-in. golden buff facings with raked out joints. Facing panels to the administration block of travertine marble slabs, 5-ft. × 4-ft. × 3-in. thick, fixed to the main window walling (described below). Concrete columns to administration block are faced with 11-in. thick Hornton stone. 1-in. thick dark green Serpentine marble is used below sill level on north elevation of the main block. The south wall of the assembly hall is faced with exposed aggregate slabs secured to brickwork with heavy galvanised steel cramps. facings.

Cell block: 11-in, cavity walls with sand-faced

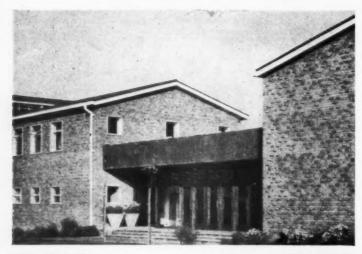
9-in. parapet walls with artificial stone copings.

solid wall 0.535

Ratio: cell block floor area

No ratios are given for the whole building as construction is so varied that an average figure would be meaningless.

#### building illustrated









The large group of buildings on the southern half of the site contains the residential and social accommodation and two blocks of garages are used to screen the ground floor from the drill yard and vehicular area. The assembly hall is of generous proportions and well equipped. It is designed as a separate unit with independent access and is intended to be let for outside functions. The entrance is through a single-storey link between the CID and traffic office block and the gable wall of the assembly hall, top left. This gable wall is in brickwork with a diaper pattern of projecting headers. Between this and the large brick block of the stage and dressing rooms are the undulating side walls of the assembly hall, seen on the left of the view, left, from the south-east. On the south side these are faced with exposed aggregate slabs cramped with heavy galvanised steel to the brickwork. The undulating wall idea is an interesting one but it has hardly been exploited with boldness. Outside, yet another material has been added to the list together with another kind of window. Inside the undulations are disguised so that they are scarcely noticeable except from an oblique angle. The impression is one of a slight irregularity in the walls for which it is difficult to assign a reason.

The assembly hall, left, with its maple floor is excellent for dances. It is also equipped for stage performances and will seat 600 people, but these will be less happily housed, as is inevitable with flat-floored, multi-purpose halls. The stage is quite well provided with lighting. One does not expect flying space in this type of hall, but more room in the wings could have been provided and would have made a tremendous improvement to the usefulness of the building. The proscenium is lined with lacewood veneer with guarea vertical battens finished with two coats of sealer. The foyer is also connected to the canteen and clubroom which can be used in conjunction with the assembly hall. There is also a separate entrance from the interior courtyard onto which the canteen faces, bottom left.

blocks.

Circular rough cast glass domes to other

|  | analysis  |    |            |       |       |  |              |     |     |     |    |
|--|---|----|------------|-------|-------|--|--------------|-----|-----|-----|----|
|  |   | Al |            | Cell  |       |  |              | All |     | Ce  |    |
|  |   | -  | locks bloc |       |       |  | block<br>s d |     |     |     |    |
|  |   | S  | d<br>53    |       | s d   | Clarica  |              |     |     |     |    |
|  | Windows and external doors Purpose made electro-galvanised steel in wood or travertine sub frames. All furniture is bronze with vertical pivot/ lights secured with bronze friction hinges. High level windows have remote control gear. Window wall to main block is constructed from standard heavy sections, the whole unit being tied back with Z brackets at each floor level. The travertine slabs are fixed into I-in. × I-in. angles set in the main frame as a sub frame. All glazing is |    |            | 3     | 3 10½ | Glazing Generally 32-oz. and \(\frac{1}{6}\)-in. plate glass with \(\frac{3}{6}\)-in. plate glass to large picture window in the main administration block and the canteen windows. Windows to balconies, toughened glass.  Etched designs have been incorporated  |              | 104 |     |     | 0‡ |
|  |   |    |            |       |       | in the two entrances, one leading to the assembly hall and the other to the main entrance of the main block.  Cell block: glazing included under windows, except 32-oz. c.s. glass in 3 metal windows.   |              |     |     |     |    |
|  | internal with metal glazing beads. Windows to cells are single Iarin. lenses  |    |            |       |       | Total of structural elements   | 29           | 23  | 1   | 19  | 41 |
|  | set in r.c. frame. There are 59 of these and 3 metal windows in the cell block.  External doors: main entrance doors to all blocks are fully glazed, on floor springs set in glazed screens, the timber being mahogany. I external door only in cell block.  Windows and external door Ratio cell block:  |    |            |       |       | PARTITIONS AND FITTINGS  |              |     |     |     |    |
|  |   |    |            |       |       | Internal partitions and screens 3-in. hollow clay block partitions with 3-in. plaster both sides are used internally.  |              | 44  |     | 2   | 84 |
|  |   |    |            | 0.202 |       | Cell block: 4½-in. brickwork, 691 sq. yds.; 9-in. brickwork, 78 sq. yds.   |              |     |     |     |    |
|  | floor area  |    |            | 1     |       |  |              |     |     |     |    |
|  | Upper floors All floors are of patent hollow clay block cast in-situ with concrete ribs and reinforcement to give a total thickness of 6½ in. with spans of 18 ft. A solid 9-in. reinforced concrete slab is used over the boiler room and to the west end of the main block.   | 2  | 81         |       |       | Internal doors  Doors to offices, 1\(\frac{2}{3}\)-in. finished thickness solid core doors faced with Indian silver grey wood veneer.  Doors to lavatories, cupboards, etc., 1\(\frac{2}{3}\)-in. thick skeleton core doors to BSS and painted.  Cell block: 42 single doors, including 25 steel cell doors with grilles and observation | 2            | 6   | 2   | 6   | 03 |
|  | Staircases  |    | 74         |       |       | appertures to Home Office pattern.   |              |     |     |     |    |
|  | Reinforced concrete with <i>in-situ</i> terrazzo treads and risers.  The main staircase to the administration block has a balustrade of 3-in, toughened   |    |            |       |       | I pair double doors.  Ironmongery included under various elements.   |              |     |     |     |    |
|  | glass fixed to mahogany sheathed balusters<br>at 4-ft. centres capped with a mahogany<br>handrail.  |    |            |       |       | Fittings All counters and built-in furniture in selected hardwoods, wax polished. Cell block: 24 teak cell benches on steel  | 1            | 1 3 | 1 2 | 3   | 61 |
|  | Roof construction All pitched roofs are 15 degrees, con-  | 6  | 8          | 9     | 9 03  | framing. Softwood shelving in blanket store.   |              |     |     |     |    |
|  | structed of light steel trusses and angle purlins onto which are bolted 4-in. × 2-in. timber bearers to which 4-in. × 2-in.   |    |            |       |       | Total partitions and fittings  | (            | 5 2 | 1   | 12  | 31 |
|  | rafters are fixed at 2-ft. centres. 2-in. woodwool slabs are fixed to the rafters   |    |            |       |       | FINISHES   |              |     |     |     |    |
|  | and ½-in. thick hair felt is applied before laying the 24 s.w.g. copper roof complete with wood rolls at 2-ft. centres.   |    |            |       |       | Floor finishes Type of finish Area in Price per sq. ft. sq. yd.  | 5            | 5 0 |     | 3 1 | 0  |
|  | Flat roofs are reinforced concrete with foam slag screeded to falls and finished with 3 coats asphalt.  Cell block: 6-in. thick in-situ solid   |    |            |       |       | Corridors and main offices, $\frac{5}{16}$ -in. cork tiles 11,945 29s. 6d. Other offices,  |              |     |     |     |    |
|  | reinforced concrete.  |    |            |       |       | is-in. thermo-   |              |     |     |     |    |
|  | Rooflights 1\[-\text{in. lenses set in reinforced concrete frame to cell block.}\]  |    | 3          |       | 83    | plastic tiles 15,966 12s. od.<br>Main entrance<br>hall, random   |              |     |     |     |    |
|  | No. of rooflights; 11. Total area:<br>308 sq. ft. overall.  |    |            |       |       | marble mosaic, 380 778. 6d. divided with   |              |     |     |     |    |

strips of regular marble mosaic 275

1758. 6d.

#### building illustrated



The canteen, left, can seat 150 people (at a pinch); meals are collected on the cafeteria system from a servery which also serves the officers' lounge, centre left. The floor finish in the canteen is missanda. The kitchen also adjoins the residents' dining room at the other end.





On the first floor over the canteen is the social club room, left, which has a bar and billiard tables and a continuous seat around the wall; a curiously bleak room. The floor finish here is oak. Continuing on from the club and canteen block is the residential block, where there is accommodation for sixteen unmarried policemen and at the end a maisonette for the engineer-caretaker and his family. The bedsitting rooms of the residential block are on either side of a central corridor running east-west. Those who get rooms on the south side of the block will undoubtedly be the more fortunate.

# analysis

nls are
h also
in the
idents'

m, left, around is oak. idential narried retaker il block. Those ubtedly

| anarysis  |                              |   |      |                |    |      |   |     |                |       |
|---|------------------------------|---|------|----------------|----|------|---|-----|----------------|-------|
|   |                              |   | All  |                | C  | ell  |   | All |                | Cell  |
|   |                              |   | bloc |                |    | lock |   | blo |                | block |
| 01.1  |                              |   | s d  | l              | S  | d    | a to aut  | S   | -              | 8 0   |
| Club room, oak<br>missanda  | 2601                         | 200 20                                  |      |                |    |      | Sanitary fittings W.c.s, lavatory basins and urinals in white                           | 9   | 2              | 8     |
|   | 2,691                        | 38s. 3d.                                |      |                |    |      | glazed fireclay. Electric incinerators in all   |     |                |       |
| Canteen, mahuhu   | 1926                         | 38s. 3d.                                |      |                |    |      | female lavatories.  |     |                |       |
| Foyer and   |                              |   |      |                |    |      | Cell block: w.c.s, corbel pattern closet  |     |                |       |
| assembly hall,  | . 600                        | are ad                                  |      |                |    |      | pan fitted with remote control flushing   |     |                |       |
| maple   | 4,680                        | 34s. 9d.                                |      |                |    |      | apparatus.  |     |                |       |
| Cloakrooms,   | 0-                           | -01                                     |      |                |    |      |   |     |                |       |
| terrazzo tiles  | 5,580                        | 38s. od.                                |      |                |    |      | Heating and ventilation   | 7   | 83             | 5 13  |
| Elsewhere:  |                              |   |      |                |    |      | Natural convectors in offices and forced  |     |                |       |
| }-in. red asphalt   | 2,772                        | 22s. 6d.                                |      |                |    |      | air convectors in circulation spaces, parade  |     |                |       |
| Carpet<br>Granolithic   | 797                          | 81s. od.                                |      |                |    |      | room, canteen and assembly hall.  |     |                |       |
| Wood composition  | 12,484                       | 9s. 11d.<br>31s. 10d.                   |      |                |    |      | The source of heat is 2 oil-fired boilers in  |     |                |       |
| 1½-in. quarry   | 1755                         | 315. 10d.                               |      |                |    |      | the boiler room, and water is circulated  |     |                |       |
| tiles   | 2,034                        | 34s. od.                                |      |                |    |      | by pumps. Hot water storage   |     |                |       |
| In-situ terrazzo  | 466                          | 47s. 3d.                                |      |                |    |      | cylinders served from a similar boiler in   |     |                |       |
| I-in. softwood  | 400                          | 4/5. 34.                                |      |                |    |      | the boiler room supplies hot water to<br>basins, etc., and provides heating to the      |     |                |       |
| strip   | 1,389                        | 14s. 2d.                                |      |                |    |      | drying room.  |     |                |       |
| 3-in. red asphalt   | 2,772                        | 22s. 6d.                                |      |                |    |      | Cold water from the main storage tank in  |     |                |       |
| d-in. thermo-   | -3//-                        |   |      |                |    |      | the main block serves all parts of the  |     |                |       |
| plastic   | 1,791                        | 12s. od.                                |      |                |    |      | building.   |     |                |       |
| Terrazzo  | 45                           | 38s. od.                                |      |                |    |      | Cell block: Internal temp., 65 deg. F.;   |     |                |       |
|   |                              |   |      |                |    |      | air change, 4 per hour; U of walls, 0.30;   |     |                |       |
| Wall finishes   |                              |   | 3    | 41             | 8  | 103  | U of roof, 0.22.  |     |                |       |
| All walls are of §-in   | . hard plas                  | ster finish                             |      |                |    |      |   |     |                |       |
| with the exception of   | of the cell v                | walls, which                            |      |                |    |      | Gas installation  |     | 13             |       |
| are in cement glaze,  | 15,113 sq                    | . ft.,                                  |      |                |    |      | Gas is provided for cooking in the kitchen  |     |                |       |
| plaster elsewhere, 2,   |                              |   |      |                |    |      | and a supply is run to the laboratory in  |     |                |       |
| The conference room   |                              |   |      |                |    |      | the CID block.  |     |                |       |
| eucalyptus veneer w   |                              |   |      |                |    |      |   |     |                |       |
| skirtings and cover   |                              | h purpose                               |      |                |    |      | Ventilation   |     |                |       |
| designed furniture t  |                              |   |      |                |    |      | Inlet and extract ventilation with provision  |     |                |       |
| The wall lining to the  |                              |   |      |                |    |      | for heating incoming air is provided in   |     |                |       |
| opening in the asser  |                              |   |      |                |    |      | assembly hall. Ventilation is provided over   |     |                |       |
| veneer with guarea v  |                              |   |      |                |    |      | cooking and washing up areas in kitchen.  |     |                |       |
| The rear wall of the  |                              |   |      |                |    |      | Cell ventilation operates in groups of four   |     |                |       |
| panelled in 12-in. ×  |                              |   |      |                |    |      | cells and has been designed to comply<br>with Home Office specification.                |     |                |       |
| p-11-11-11-11-11-11-11-11-11-11-11-11-11                              |                              |   |      |                |    |      | with Home Office specification.   |     |                |       |
| Ceiling finishes  |                              |   | 2    | 13             | 1  | 10   | Electrical installation   | 6   | 2              | 4 103 |
| 5-in. vermiculite acc   | oustic plast                 | ter on                                  |      |                |    |      | Cost includes light fittings.   |     | _              |       |
| expanded metal lath   | ing to gen                   | eral areas                              |      |                |    |      | Screwed conduit installation to lighting  |     |                |       |
| and offices.  |                              |   |      |                |    |      | and power points and telephone system   |     |                |       |
| Parade room ceiling   |                              | square                                  |      |                |    |      | with a floor tray trunking in the   |     |                |       |
| insulation board sec  |                              |   |      |                |    |      | administration and CID blocks.  |     |                |       |
| Cell block: Cement  | glaze, 4,5                   | oo sq. ft.,                             |      |                |    |      | Emergency lighting provided in assembly   |     |                |       |
| plaster 621 sq. ft.   |                              |   |      |                |    |      | hall  |     |                |       |
| D   |                              |   | 4    | eq 1           |    |      | A d.c. call indicator and fire alarm system   |     |                |       |
| Decorations Walls and ceilings,                                       | emulcion r                   | naint All                               | 1    | 71/2           |    | 64   | operate from control panel in station   |     |                |       |
| hardwood, wax poli  |                              |   |      |                |    |      | sergeant's office.  |     |                |       |
| hard gloss paint.   | onem. Cen                    | or wood,                                |      |                |    |      | The stage of the assembly hall is equipped  |     |                |       |
| Cell block: plastered   | walls and                    | ceilings, two                           |      |                |    |      | to standard required for fairly ambitious   |     |                |       |
| coats emulsion.   |                              | 200000000000000000000000000000000000000 |      |                |    |      | amateur concerts and theatricals.   |     |                |       |
|   |                              |   |      |                |    |      | A passenger lift in administration block,<br>serving five floors travels at 150 ft. per |     |                |       |
| Total of finishes   |                              |   | 12   | 13             | 15 | 11   | min.  |     |                |       |
|   |                              |   | -    |                | _  |      | A small service lift carries goods from   |     |                |       |
| CERTIFOEC   |                              |   |      |                |    |      | beer cellar to bar in the social club.  |     |                |       |
| SERVICES  |                              |   |      |                |    |      | Cell block: alarm system and cell lighting  |     |                |       |
| External plumbing   |                              |   |      | $6\frac{1}{2}$ |    | 2    | to Home Office specification.   |     |                |       |
| Cast-iron r.w.p.s. w  | ith cast ire                 | on box                                  |      | - 4            |    |      |   |     |                |       |
| section gutters.  |                              |   |      |                |    |      | Total of services   | 17  | 6              | 15 11 |
|   |                              |   |      |                |    |      |   |     |                |       |
|   |                              |   | 2    | 14             | 2  | 113  |   |     |                |       |
| Hot and cold water  | e is divide                  | d between                               |      |                |    |      | Drainage  | 1   | $8\frac{1}{2}$ | _     |
| Cost of boiler house  |                              |   |      |                |    |      | Cost of cell block drainage included under  |     |                |       |
| Cost of boiler house<br>this element and he                           | ating, belo                  | ow. Shown                               |      |                |    |      |   |     |                |       |
| Cost of boiler house<br>this element and he<br>only in overall figure | ating, belo                  | ow. Shown                               |      |                |    |      | all blocks.   |     |                |       |
| Cost of boiler house<br>this element and he                           | eating, belo<br>re for all b | ow. Shown                               |      |                |    |      |   | 6   | 6              |       |

### analysis

Cost per sq. ft. of floor area:

All blocks

£305,301 (net cost excluding external works)

76,906 sq. ft. (measured inside external walls)

Cell block: £21,470
5,324 sq. ft.

### CONTRACTORS

79 43

80 41

General contractors: Gilbert-Ash Ltd. Sub-contractors: Asphali tanking: Ragusa Asphalte Paving Co. Ltd. Beer engines. upholstery and fittings: Gaskell & Chambers Ltd. Bixhead pavings and Serpentino marble: W. H. Fraley & Sons Ltd. Bicycle stands: Le Bas Tube Co. Ltd. Boilers: Hartley & Sugden Ltd. Bricks: Blockleys Ltd. Chain link fencing and can ladders: T. Sadler (Coventry). Concrete rooflights: Lenscrete Ltd. Conference tables and chairs: Heals Contracts Ltd. Counter grilles: Rely-a-Bell Burglar & Fire Alarm Co. Ltd. Concrete floors: Helical Bar & Engineering Co. Ltd. Cork and thermoplastic floors: Armstrong Cork Co. Ltd. Decorative metalwork: A. Jordan & Sons Ltd. Domelights and metal windows: Monk Metal Window Co. Ltd. Doors: Leaderflush Ltd. Electrical: Electrical Installations Ltd. Emergency lighting equipment: Nife Batteries Ltd. Entrance doors, screens and joinery: M. S. Bayliss Ltd. and Tarring Joinery Ltd. (Worthing). Excavator: J. W. Chorley Ltd. Expanded metal ceilings: Expanded Metal Co. Ltd. Fans: Woods of Colchester Ltd. Fire alarm and signalling equipment: Julius Sax. Glazing: Pearce & Cutler Ltd. Glazed wall finish: John Ellis & Sons Ltd. Granwood flooring: Granwood Flooring Co. Ltd. Hardwood block and strip flooring: Vigers Bros. Ltd. Heaters: F. H. Biddle Ltd. Copperad Ltd. Flexairs Ltd. Heating: Weatherfoil Heating Systems Ltd. Hornton stone: Hornton Quarries Ltd. Internal telephones: Reliance Telephone Co. Ltd. Ironmongery: James Gibbons Ltd. Kitchen equipment: Radiation Ltd. Lightning conductors: W. J. Furse. Light fittings: General Electric Co. Ltd. Troughton & Young Ltd. Falk Stadelman. BTH. Lifts: Waygood Otis Ltd. Mosaic flooring and terrazzo: Marbello and Durus Ltd. Oil burners: Quiet May (England) Ltd. Paints: Smith and Walton Ltd. Painting: Arnold Sharrocks Ltd. Plastic lettering: Drakard & Humble Ltd. Plasterer: McAleer & Co. Ltd. Plumbing: J. C. Toogood Ltd. Plywood veneers: Bakers of Wycombe Ltd. Pumps: Holden & Brooke Ltd. Reconstructed stone: Croft Granite, Brick & Concrete Co. Ltd. Naybro Stone Ltd. Constone Ltd. Sanitary fittings: S. G. B. Dudley Ltd. Adamsez Ltd. Scaffolding: Mills Scaffold Ltd. Shutter doors and cell doors: Potter Rax Ltd. Special window gear: Teleflext, Products Ltd. Stage equipment: Strand Electric Ltd. Stage curtains and gear: Advance Enterprises Ltd. Street call box and "999" equipment: Post Office Telephones. Suspended insulation board ceilings: Rudders & Paynes Ltd. Switch accessories: J. A. Crabtree Ltd. and Walsall Conduits Ltd. Switchgear and distribution fuseboards: Bill Switchgear Ltd. Structural steelwork: Edward Wood & Co. Ltd. Tarmac finishes: General Asphalte Co. Ltd. Travertine facing slabs: Anselm Odling & Sons Ltd. Treatment of external hardwood: British Bitumen Emulsions Ltd. Under floor ducting: General Electric Co. Ltd. Venetian blinds: The Coventry Blind & Shutter Co. Ltd. Ventilation: J. Nadin Ltd. Veneers: Bakers of High Wycombe.

# COST COMMENTS

The presentation of this police headquarters has one great advantage over previous examples in that the cost of the cell block is thrown into sharp relief. These cells are subject to stringent Home Office requirements and might well become a common factor among the differing requirements of police headquarters; one on which the Home Office might care to give some guidance on cost.

Reference to previous analyses will show a similarity of cell construction (Manchester, AJ, May 5, 1955; Wellington, November 11, 1956; Earls Court, May 5, 1957; Hull, October 3, 1957): e.g. lens windows and rooflights (where used) set in concrete frames, faience or some other impervious internal wall surface which can be hosed down and cleaned, steel doors with grilles and observation apertures, teak benches, low-cost hard-wearing floor finish, each cell with its own remote-controlled w.c., artificial ventilation, alarm system, cell lighting, etc.

At Coventry provision is made for 20 male prisoners and 4 female at a cost of £21,470, or approximately £895 per cell. The analysis for "all blocks" is of interest in giving an overall picture of the cost distribution, but as the elements represent an average of varying forms of construction, function and storey height, the element costs must be used with some reserve. The inclusion, for instance, of the lower-costing ancillary buildings has tended to deflate the actual cost per square foot of the main buildings.

Comparison of the main groups of elements with those of previously analysed police headquarters, summarised in the cost comments on Earls Court, shows a fair consistency, but additional money has been spent on finishings and services, the latter including lifts to the main block and emergency lighting and stage equipment in the assembly hall. The cost of external works at £46,419 appears at first excessive but this sum includes not only the whole drainage but site works necessary to clear cellars, wells and other bombed site obstructions.

er engine,
Bixhead
Sons Ltd.
Gons Ltd.
Conscrete
Con Ltd.
Con Ltd.
Cork and
Decorative
and metal
eaderflush
Emergency
rrs, screen
ency Ltd.

ded metal

lius Sax. ohn Ellis Co. Ltd. . Heaters: Heating: Hornton hone Co. quipment: se. Light ung Ltd. 1. Mosaic l burners: Iton Ltd. rakard & ing: J. C. nbe Ltd. ne: Crost one Ltd. lley Ltd. tter doors Teleflext, td. Stage t call box Suspended . Switch uits Ltd. gear Ltd.

Tarmac ing slabs:

ardwood:

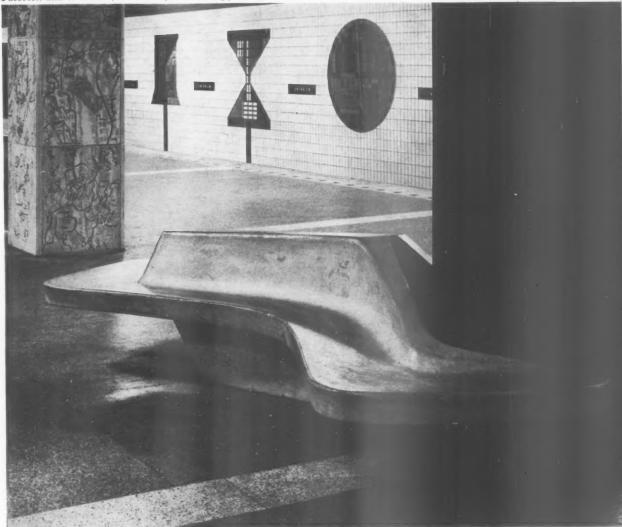
General Blind &

: Bakers

HEATING: 23

HEATED SEAT: UNDERGROUND STATION, STOCKHOLM

Jacobson and Widmark, architects (Material supplied by Brian Lamprell)

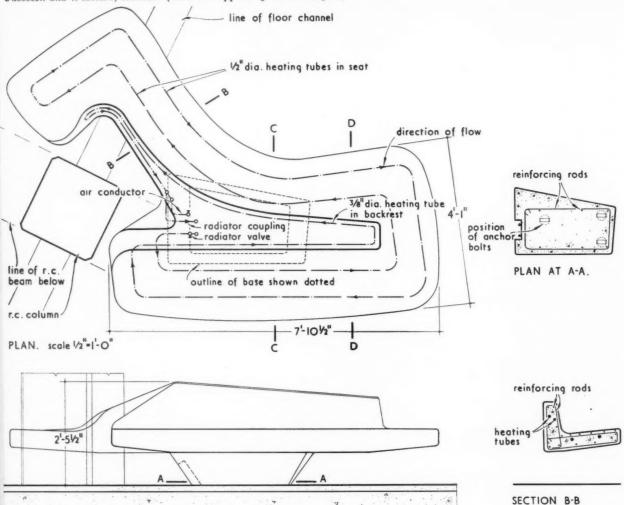


This heated platform seat is illustrated as an ingenious application of the principle of "local heating." The seat stands in the open and beneath the platform is habitable accommodation. \(\frac{1}{2}\)-in. diameter copper hot water pipes connected to the general heating system of the building pass up through the platform and are connected to pipes cast into the seat.

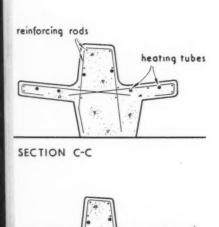
8

HEATED SEAT: UNDERGROUND STATION, STOCKHOLM



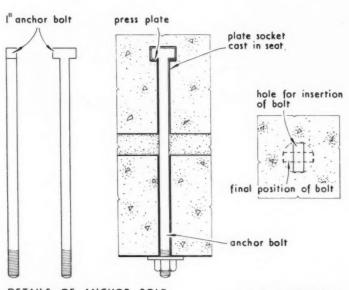


ELEVATION. scale 1/2" = 1'-0"



SECTION D-D

1-41/2"



DETAILS OF ANCHOR BOLT. scale 1/2"=1-0"

note: figured dimensions in feet and inches are approximate

working detail

CURTAIN WALL: OFFICES IN NEW YORK

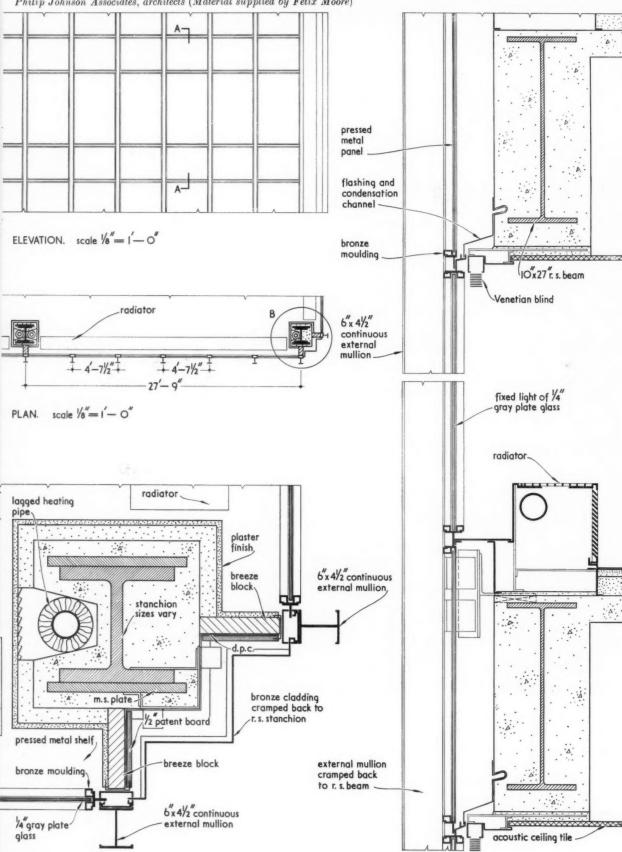
Philip Johnson Associates, architects (Material supplied by Felix Moore)



This characteristic American curtain wall for very tall buildings employs an external 6 in. by  $4\frac{1}{2}$  in. steel mullion with a clamping box backing on to the inside flange. This box covers the brackets connecting the mullion to the steel edge beam and holds the prefabricated bronze framed panels and (at the corner) the bronze cladding.

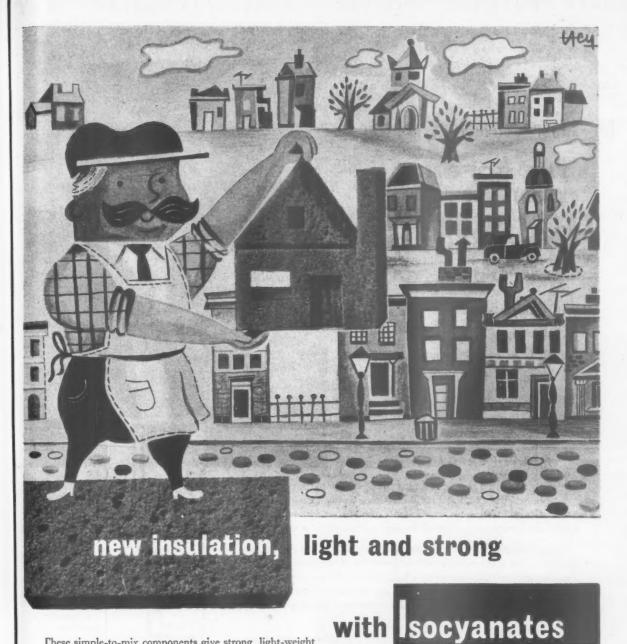
# CURTAIN WALL: OFFICES IN NEW YORK

Philip Johnson Associates, architects (Material supplied by Felix Moore)



DETAIL AT B. scale I"= I'-O"

SECTION A-A. scale I"= I'-O"



These simple-to-mix components give strong, light-weight rigid foams of special interest to the building trade.

Their high thermal resistance commends them, for example, as heat insulation in walls and ceilings.

The components are easily mixed on site and foaming takes place in the cavities to be filled. As this happens, a bond is formed with the material

in contact with the foam, thus adding rigidity and strength to the structure.

A range of foams of varying densities can easily be produced.

and POLYESTERS by

Ask for details of these foam-producing products: Daltolacs 21, 22 & 24 and Suprasec D.

Enquiries should be addressed to: I.C.I. Sales Development Department (Polyisocyanates), Ship Canal House King Street, Manchester 2

IMPERIAL CHEMICAL INDUSTRIES LIMITED LONDON SW1 ENGLAND

# SOFONO

for super convection heating

# THE SOFONO CONVECTOR

the multi-purpose home heater

Simple Installation

Minimum of Maintenance

High Convection Output

Controlled Rate of Burning

Suitable for Smokeless Fuels

Approved by the Ministry of Power

### MULTI-PURPOSE

The SOFONO CONVECTOR FIRE is similar in appearance to the traditional type open fire. It is a self-setting unit, with a double casing or jacket round the back and sides, over which air from under the floor is heated and directed by means of ducting to other parts of the house.

The overall efficiency of this appliance with radiant and convection heating is more than twice that obtained with the conventional open fire. This efficiency is increased when a back boiler is fitted for the supply of hot water. The unit incorporates a gas ignition tube for quick and easy kindling. The fire is suitable for continuous burning on most solid fuels.

Full details, together with diagrammatic drawings, technical specification sheets, etc., are available. Ask also for information about the CAMELON CONVECTOR (which can now be supplied as a hearth level model) and the freestanding SOFONO SUPER-VIEW CONVECTOR.

WRITE TO :-



GRANGE-CAMELON IRON CO. LTD., FALKIRK

A FEDERATED FOUNDRIES COMPANY

SOFONO the heart of a million homes



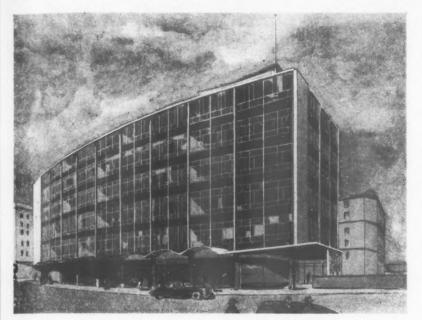
DIAGRAM A underfloor

DIAGRAM B

DIAGRAM C underfloor

DIAGRAM D

# TWO OFFICE BUILDINGS FOR THE NORWICH UNION



glazed walls and marble facings. For all its curtain walling such a pile is very Birmingham. Another vast pile of offices, the Norwich Union's own headquarters (below), has been designed by T. P. Bennett & Son, and is also, surely, very Birmingham-but this time in the heart of Norwich. This is the first step in a 25-year expansion scheme by this vast agglomeration of insurance societies, whose employees are now spread in a variety of buildings over seven acres in the centre of Norwich. Clearly, an eightstorey block providing 150,000 sq. ft. of offices is the solution for them. But can our cities retain any character of their own under such pressure?

Post-war cliffs of offices in city centres provoked new ring roads and road-widening schemes, and now the new ring roads are provoking further cliffs of offices, of which Norfolk House, Birmingham, about to go up on Birmingham's new ring road, is typical. The eight-storey block (shown above) was designed by Hurley Robinson & Son for Norwich Union Insurance Societies, and is of reinforced concrete construction with



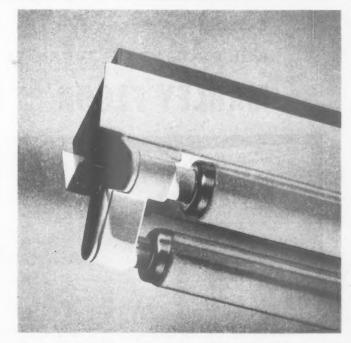
One of a series of Fluorescent Fittings priced from £6 Is. 4d., which have been styled by Noël Villeneuve for commercial and industrial uses.

B

C

### POINTS OF INTEREST

- Two colour stove enamel finish
- Slim basic channel for low ceilings
- Moulded lampholders for 4 ft. and 5 ft. Bi-pin lamps to give clean termination and easy lamping



A batten fitting finished in two colours for single or twin 4 ft. or 5 ft. lamps

Brochure series 303

A L L O M H E F F E R

# Announcements

### **PROFESSIONAL**

- C. J. Cheale, L.R.I.B.A., F.I.A.A. & S., has accepted an appointment as Development Architect with the Public Works Department, Ghana. He took up his duties on January 5 and would like all further communications addressed to the Public Works Department at Accra.
- J. G. Coppock, DIP.ARCH., A.R.I.B.A., has moved to new offices at 1, University Street, Belfast (telephone Belfast 27669).
- R. G. Waterlow, a student at the Regent Street Polytechnic, would like any information on timber frame construction in domestic scale dwellings. This should be sent to 78, Peel Road, North Wembley, Middlesex.

Fry, Drew, Drake & Lasdun, F/F/A/F.R.I.B.A., are now practising from 63 Gloucester Place, W.1, and 3, Albany Terrace, N.W.1 (telephone Hunter 1822/6).

The School of Architecture, Crawford Municipal School of Art, Emmet Place, Cork, would be pleased to receive trade literature and samples.

S. H. & D. E. White, civil engineers, of 9, Victoria Street, S.W.1, have moved to 400, Abbey House, 2/8, Victoria Street, S.W.1 (telephone Abbey 4415/6).

The principal office of T. P. O'Sullivan & Partners, consulting engineers is now at 19, Old Queen Street, S.W.1 (telephone White-hall 3693/4).

Bernard Lowe, L.R.I.B.A., has now moved to 8, Queen Square, Bristol 1, where he will be pleased to receive trade literature.

- D. W. Tucker, A.R.I.B.A., has now moved to 158, Leicester Road, Loughborough. The telephone number remains the same.
- F. J. Thompson, B.Sc., A.R.I.C.S., A.A.I., has resigned his appointment with Gilbert Luck of Northwood, Middlesex, and has commenced practice on his own account as a chartered surveyor, specializing in building surveying but with a general practice at 4, Little Green, Croxley Green, Herts. (telephone Rickmansworth 4775).

Hasker & Hall, L/F.R.I.B.A., have transferred their Solihull Office to Longdon House, High Street, Knowle, Solihull, Warwickshire (telephone Knowle 3502).

William Ryder A.R.I.B.A., A.M.T.P.I., Dip. T.P. (LOND.), has changed his address to 21 Bruton Street, Berkeley Square, London, W.1.

### TRADE

From January 1 W. R. Drury, 142, Oxford Road, Manchester 13 (telephone Ardwick 6540) will be acting as area representative of F. A. Borchardt Limited, for the distribution of DRUgasar balanced flue heaters, as well as the Arnhem closed heating stove and the DRU oil heater in the West Midlands, North Wales and the Northern Gas Board Area, in addition to the North Western Area.

Plyglass Ltd. have moved their London office to 18, London Street, E.C.3 (telephone Royal 8511).

Simon-Carves Ltd. have now moved the London civil engineering drawing office of the Nuclear Power Division to 56, New Bond Street, W.1 (telephone Mayfair 4117).

Metropolitan-Vickers Electrical Co. Ltd. have now moved their London office to 33, Grosvenor Place, Belgravia 7011). (telephone

The partnership between Collins and Collins of Westland House, Chesterfield Gardens, W.1, and Rawlence and Squareyhas been dissolved. The name of the firm is now Collins and Collins and Rawlence of the same address with Michael Rawlence as the sole Principal and Arthur P. Saunden as Consultant. Rawlence and Squarey will continue in practice from their offices in Sailsbury, Sheerborne, Southampton, and Taunton.

Thermalite-Ytong Limited announce that their second factory at Hams Hall near Birmingham is now in full production.

The head offices of AEI Hotpoint Ltd. and AEI Gala Ltd. have now moved to 33, Grosvenor Place, S.W.1.

Haskell Robertson have opened a new office in Birmingham at 56, Milk Street, Birmingham 5. The address of their London office has been changed to Grafton Road, N.W.5, and the address of the Liverpool office is now 23, Greenland Street, Liverpool 1.

# Corrections

Names of floorings supplied by Messra. Semflex Ltd. for the Wales Empire Pool were wrongly given in the list of sub-contractors published on November 27, 1958: these should have been listed as "Semastic, Vinylex, Rubber and Semflex floorings".

We regret that the Working Detail published on December 25, 1958 (Glazed Wall: Factory in Payyerne, Switzerland) was incorrectly numberd as Walls and Partitions: 69, instead of Walls and Partitions: 70.

# A COMPLETE SERVICE with PROMPT DELIVERY MARLEY FLOOR BEAMS



If your site of operations is in the Midlands or South of England you need only reach for the telephone and a complete service for suspended floors and flat roof construction is ready to move into action.

A technical representative will call and discuss the project at drawing board stage if you require this service.

A detailed quotation will be given.
A complete layout drawing will be supplied immediately our quotation is accepted.

 For supply only orders, we will arrange prompt delivery to phase with your building programme.

For supply and fix orders a skilled team of Marley erectors, fully equipped, will proceed with the construction when required.

Quantity output from strategically placed factories ensures that deliveries are prompt. Erection at the present time is confined to the Midlands and Southern areas.

Shurdington, Nr. Cheltenham. Shurdington 334/5
Waterloo, Poole, Dorset, Broadstone 626





MARLEY CONCRETE
Peasmarsh, Guildford, Surrey. Guildford 62986
S. Ockendon, Nr. Romford, Essex. S Ockendon 2201

the fabric made of glass, is
entirely new in Britain. It is
made of 100% glass filament and
has sensational and unique properties for
draperies and curtains, remarkably
in accord with present-day
ideas in architecture
and decoration.

revolutionary

furnishing

Co. Ltd. ce to 33, elephone

Squarey

vlence of Rawlence Saunders

offices in

nce that

Ltd. and to 33,

ew office Birming-

on office I, N.W.5, office is

Messrs.

sub-con-7, 1958:

rings "

published

as incorions: 69.

tion.

ins and esterfield

news

VETRONA

the fabric made of glass

ona is a registered Trade ur

# VETRONA has long life!

It won't rot, shrink, sag, stretch, fade, or run. Neither mould, moth, salt air, sun, bacteria, nor atmospheric degradation will harm it.

# VETRONA

# is easy to keep clean!

It can't absorb dirt any more than a crystal can, so needs little cleaning. Wash lightly in soap-suds or detergent, rinse, and hang up. It dries in minutes with no creases, is never ironed.

# **VETRONA** is fireproof!

It is permanently noncombustible. There is no need for periodic flame-proofing.

### **VETRONA** is translucent!

It filters and reflects light, giving unique translucency without loss of warmth or privacy, needs no lining.

# VETRONA is varied!

It is made in marquisettes, textured satin-like plains in many colours, and brilliantly designed prints.

# VETRONA

# has great advantages!

For contract furnishings – schools, hotels, clubs, hospitals, theatres, ships, aeroplanes, exhibitions, Vetrona has unique new qualities.

Specially created designs can also be made for minimum length of 200 yards.

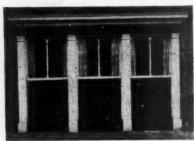
We invite inquiries:-Vetrona Fabrics Limited 90, Great Bridgewater St. Manchester 1

# **DECEMBER**



Workshop Annexe: new stores, paint shops, etc., for the Old Vic, ingeniously packed under some awkward daylighting angles by Lyons Israel and Ellie, and fully illustrated in this issue.

Seagram completed; and dwarfing even the Cadillac in foreground, the glass and bronze Seagram Building by Philip Johnson and Min van der Rohe will be fully discussed and—tentatively—evaluated.



Pub Front: frame and fill on the facade of the Crown and Mitre, King's Lynn: one of the illustrations to an assessment of the aesthetic and functional aspects of pub exteriors and their future.



# JANUARY Special Preview Issue



New Town Multi-storey; an office block for the town centre of Hemel Hempstead, designed by H. K. Ablett, chief architect to the Development Corporation

High Gorbals: a redevelopment area in Glasgow, by Robert Matthew and Johnson Marshall, one of a number of housing-schemes pre-viewed in this issue.



Northern Methodist: a projected church in Fulwell, Co. Durham, designed by S. W. Milburn and Partners for a Methodist congregation.



# **FEBRUARY**



erian University; Library, Arts Faculty, Admin on and Students' Union buildings, and an op-auditorium at Naukka, Eastern Nigeria, design lames Cabitt and Partners, and pre-viewed in t



Sun-Mill; the ingenious solar toy designed by the even-inventive Charles Eames, to dramatise the potentialities of the sun as a source of energy, a cosmic mobile.



The Architectural Review's new standard binding, with alternate years bound in black and white, and alternate volumes initialled A and R, makes easier the identification the appropriate index, direct to the Architectural Press ware-

shelf. The binding is buckram, and the price of binding per volume is 25s. Copies to be bound should be addressed, with of individual volumes, and their proper replacement on the house, Abbey House, 8 Victoria Street, London, S.W.1.

The annual post free sub-scription rate payable in advance is \$3.3.0 sterling; in U.S.A. and Canada \$10.50; elsewhere abroad £3.10.0.

**Cut your cabling costs** by one third ...





Assembly

cover fixing screws and retain cables when the cover is removed.

Power Centre Cable Trunking and Fittings reduce installation costs by as much as 331%. Precision manufacture of all components speeds the job of installation and new power points are easily tapped off for layout extension or alteration

\*Zinc coated Steel, finished in stoved grey enamel, ensures lasting protection.

Write for Leaflet No. SCTI which gives full details of



the most comprehensive range available



Sizes available for quick despatch -

| Inches | $1\frac{1}{2} \times 1\frac{1}{2}$ | 2×2   | 3 X 2 | 3×3   | 4×2   | 4×3 |
|--------|------------------------------------|-------|-------|-------|-------|-----|
| Inches | 4×4                                | 6 X 2 | 6 X 3 | 6 × 4 | 6 × 6 | 9×4 |

# POWER GENTRE

surface pattern CABLE TRUNKING & FITTINGS

### **NEWCASTLE OFFICE:**

30, Cloth Market, Newcastle-upon-Tyne. Telephone: 27952

### LONDON OFFICE:

\$10.50;

8. W.1

Wharf Estate, Ealing Road, Alperton, Middlesex Telephone: WEMbley 8866



THE POWER CENTRE CO., LTD.

BOX 18, LLOYD STREET, WEDNESBURY, STAFFS.

Telephone: Wednesbury 1311



An interior view of the Corrugated Perspex' installed over 8 years ago at the works of Henry Smith (Constructional Engineers)Ltd., of Winsford, Cheshire.

# Corrugated 'Perspex' as efficient as ever after 8 years continuous use in steelworks

OVER 8 YEARS ago Henry Smith (Constructional Engineers) Ltd. installed Corrugated 'Perspex' in their works at Winsford, Cheshire. To-day it is still giving as efficient service as when it was installed.

Henry Smith (Constructional Engineers) Ltd. are one of the many firms who have proved the tremendous lasting qualities of Corrugated 'Perspex'. This tough, light material withstands weather conditions in any part of the world. It is unharmed by

the corrosive atmosphere of most industrial areas.

Corrugated 'Perspex' has other advantages. It has a very high light transmission. It is easy to handle and economical to install. It gives better light, which means better working conditions, better work. Money is saved on artificial light.

Corrugated 'Perspex' is made in a wide range of profiles. If diffused daylight is desired, Opal Corrugated 'Perspex' is available.



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

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



# PLASTELLA



PLASTIC COATED GALVANISED CHAIN-LINK FENCING



**RUST and CORROSION** 

AVAILABLE IN GREEN, BLACK AND YELLOW

Write for further details to:

LEXTELLA FENCING & ENGINEERING LTD., PETERSFIELD, HANTS. Tel: Petersfield 683/4/5

# SAFE AS THE BANK OF ENGLAND! A.I. AT LLOYD'S!

500,000 FEET SUPER of IMMOVABLE-ACME DOWELLED HARDWOOD FLOORING were laid in these new buildings

by

# THE ACME FLOORING & PAVING CO (1904) LTD

BARKING ESSEX

Established 1864

A TECHNICAL BROCHURE ON IMMOVABLE-ACME HARDWOOD FLOORS & ACME END GRAIN WOOD PAVING FOR HEAVY DUTY FLOORS will gladly be sent on request

Phone: Rippleway 2771 (7 lines)

Telegrams: Dowelled Easphone London



# British Bitumen Emulsions Ltd.

DUNDEE ROAD, TRADING ESTATE, SLOUGH, BUCKS.

Tel.: Slough 21261/6.

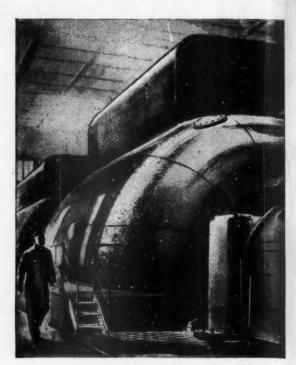
Deeside, Saltney, nr. Chester.

Tel.: Chester 23128.

20, Maukinfauld Road, Glasgow, E.2. Tel.: Bridgeton 2791.

91a, Lower Ashley Road, Bristol 2. Tel.: Bristol 51380.

Send request form for specifications and other details.



# The world's largest Generators will help to fill the demand for still more power

The development of nuclear energy for generating electricity is still front-page news. Less publicised, though no less outstanding, are new developments in "conventional" generating plant. The turbo-alternator shown here is a 550,000 kilowatt unit - twice the capacity of the next largest on order for the Central Electricity Generating Board. It has been designed for the projected new power station at Thorpe Marsh. For Blythe B', another new station, 275,000 kilowatt in-line units are on order. They will be powered by steam at 2,350 lb. per sq. in. and 1,050°F, with reheat to 1,000°F.

Nuclear power will play an important part in meeting the ever-increasing demand for electricity. Work is now in progress on the first three nuclear power stations, at Bradwell, Berkeley and Hinkley Point. By 1966/7 some 5 to 6 million kilowatts of nucleargenerated electric power will be available.

Though these projects will not be completed for some time, the Central Electricity Generating Board plays an important part in today's fight against inflation. Power stations are being built at a cost no greater than in 1948 - £50 per kilowatt installed. And, although the output of the industry has doubled since 1948, the increase in manpower is only about one-third.

By providing today for the power we shall need in years to come, the Central Electricity Generating Board is building a secure foundation for our future prosperity.

GL

Tel:



THE CENTRAL ELECTRICITY GENERATING BOARD

AJ.W.2

# The attributes of beauty\*



"properties gracefully combined in an object so as to please or attract the senses, especially the eye..."

to

uclear-

s will

some

ctricity

ys an

s fight

tations

ost no

50 per d, alof the

since

third.

ears to

ctricity

ding a

CITY

a true description of a Gliksten door.

# ... a beauty more than skin deep

Gliksten Mark 12 doors are faced with superbly matched West African cedar veneer giving each door an attractive individuality. The beauty of this Gliksten door is more than skin deep. Built, as it is, on the principle that stability does not depend upon individual components but upon a choice of reasonably inert materials perfectly bonded together, the resulting interior ensures beauty of construction as well. Glikstens are the foremost suppliers of flush doors to local authorities, builders and contractors.

Guaranteed for 3 years.

Write for full details and prices

# GLIKSTEN DOORS

Cheapest in the long run—

One of the Gliksten Group of Companies

Gliksten Doors Ltd., Carpenters Road, Stratford, London, E.15 Tel: AMHurst 3300 Liverpool Office 87 Lord St., Tel: CENtral 3441

# SOUTH AFRICAN Masonite Nith SOUTH AFRICAN Masonite Nith Nith

Whatever grade or type of hard-board you need—you find it in the South African MASONITE 12-Star range. Sturdy, decorative, durable and uniformly perfect, you're right when you specify MASONITE.

# THE 12 STAR RANGE

- STANDARD GRADE
- TEMPERED GRADE
- CONCRETE FORMBOARD
- PEGBOARD
- PRIMECOTE
  BOARD

- ENAMELLED BOARD
- SCHOOLBOARD
- LEATHERWOOD
- GRAINWOOD
- REEDWOOD
- CANEWOOD
- TEMPRTILE

Sold through Importers and Distributors

Sole concessionaires in the United Kingdom

THE WOOD FIBRE WALLBOARD CO. LTD. 8 City Road, Finsbury Square, London • E.C.I.

Telephone: MONarch 0455-9.

MASO.





# QUALITY, STRENGTH, **ECONOMY** and **SAFETY...**

are the outstanding attributes of "Bondenn" Reinforcement which is suitable both for Light Pre-Cast Concrete Units and for Brickwork and is manufactured in all widths up to 72".

For its efficiency, "Bondenn" relies on straight longitudinal steel wires of 25/30 tons tensile secured with mild steel spacing wires - ready to withstand loads immediately. The quality of the brickwork is thus improved appreciably at comparatively low cost.

The inclusion of "Bondenn" increases the resistance to load by as much as 68%. This additional strength is invaluable when foundations stand on made-up ground or on subsoil of doubtful character. In industrial structures, particularly where heavy and intermittent loads are applied, "Bondenn" is a necessity.

Substantial economies follow automatically whenever "Bondenn" is employed. In many cases, 41" brickwork reinforced with "Bondenn" can be used in place of ordinary unreinforced 9" walls. The resultant savings in bricks, cement and labour allow more competitive estimates.

By virtue of the extra strength it provides, "Bondenn" increases structural safety. In addition, its hot spelter galvanising after fabrication ensures resistance to moisture permanently.

# Read more about 'BONDENN'

Send for comprehensive technical information and sample to

GALVO (WIRE NETTING) LTD.



CONEYGRE ROAD, TIPTON, STAFFS Telephone: TIPTON 1191/2



A decorative scheme may be made or marred by the material behind it. It is no coincidence that, at a time when so much attention is paid to interior decoration, the demand for the premier plaster should be greater than ever before.

# SIRAPITE (anhydrous) PLASTER

used neat in accordance with the manufacturers' recommendations, combines all the attributes necessary to ensure a satisfactory base for decoration. It produces a smooth, jointless surface over any area, flat, angled or curved, and when set and dry has a natural affinity for all oil-bound and water-bound decorative media and adhesives. It is very economical.

# Over 2½ Million Tons used since 1891

Literature on request. Full technical service, on site if desired.

# GYPSUM MINES LTD

MOUNTFIELD · ROBERTSBRIDGE · SUSSEX

Phone: Robertsbridge 80

And at Kingston-on-

# GREVAK

In these flats for the Cwmbran
Development Corporation
at Pontnewydd, South Wales—
a major requirement of the plumbing
was resistance to self and induced siphonage.
To obtain the highest standards of efficiency
GREVAK Traps were extensively used.
GREVAK have all the essentials of the perfect
hygienic trap—smooth, even bore throughout,
fully cleansing discharge, etc. The elimination
of anti-siphon pipes reduces
plumbing costs.

the

OTC.

utes for

vhen ound

ives.

ns

vice,

EX





Architect: F. C. P. West, Esq., A.R.I.B.A., M.T.P.I., Chief Architect Cumbran Development Corporation
Contractor: Messrs. Gee Walker Slater Ltd.



Reports on efficiency tests carried out by independent engineers are available on request, together with fully illustrated literature and prices of the full range of GREVAK traps.

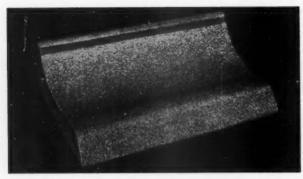
COEVAK ANTI-SIPHON TRAPS MAINTAIN THEIR SEAL

GREENWOOD AND HUGHES LIMITED · CARLISLE HOUSE · 8 SOUTHAMPTON ROW · LONDON · W.C.I
CHANCERY 9377 (3 LINES) · TELEGRAMS: ANTIVACU WESTCENT, LONDON









# Distinctively different

For the roofing of modern housing estates Crendon PANTILES are the answer. Their deep contours, attractive pattern and pleasing colours give that distinctive 'difference' especially where dull expanses of roof must be avoided.

For small roofs of unusual design, Crendon PLAIN TILES are the ideal choice.

# CRENDON

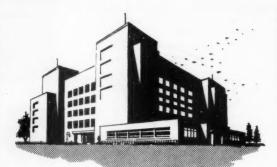
### **CONCRETE ROOFING TILES**

GUARANTEED AGAINST LAMINATION & DECAY FOR 50 YEARS
Write for full details to CRENDON CONCRETE CO. LTD.
Long Crendon, Bucks. Tel: 351/2
Branch Works: Bedfont Road, Feltham, Middx. Tel: 2610

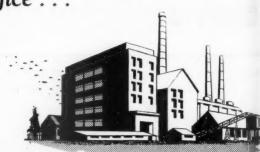
# They all need Insulation ...



home ...



office . . .



factory . . .

They all need ...



Rocksil is a pure mineral wool with exceptional insulating and acoustic properties. Available in many forms, it has a wide variety of uses in every class of building work.

Write for full information.

# WILLIAM KENYON & SONS (META MICA) LTD. Relfor

DUKINFIELD

CHESHIRE

BEL

MANUFACTURERS OF BUILDING INSULATION MATERIAL Belfact



# experience counts!



ARCHITECTS responsible for the restoration of decayed stonework automatically turn to-



Belgast Office: 1 Belmont Road, BELFAST, N. IRELAND Belgast 656388/9

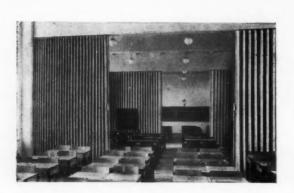
onal able uses

CA) LTD.

SHIRE

MATERIAL

NEW STONE AND RESTORATION LTD.
BRAINTREE ROAD, RUISLIP, MIDDX. Telephone, RUISLIP 7261 (5 Lines).





# INTERIOR DIVISION the MODERNFOLD way

With interior space so costly, easy room division is of supreme importance Modernfold Expanding Walls & Doors easily solve this problem, and add grace and elegance to modern decor. Floor tracks are not required for these draughtproof doors and walls which open and close at a finger touch and are made to measure for individual requirements.

modernfold

0

Write for descriptive literature on our complete range.

expanding walls and doors
HOME FITTINGS (GT. BRITAIN) LIMITED
Dept. ADI Victoria Works, Hill Top, West Bromwich
Telephone: WEDNESBURY 0761

With

Ple

NA AD



Econa water softeners?"

didn't know they made them!

As a matter of fact we don't, but our Associated Company, Economic Water Softeners Ltd., does.

We suggest you contact Econa to get the same advice about service pipe layout as you do about single stack plumbing, even if a softener is out of the question for a little while. Your client will want soft water and Econa can help you. Plan at the outset for softeners to be installed: This costs no extra, yet saves money later. Consult us early.



ECONA MODERN PRODUCTS LIMITED AQUA WORKS, HIGHLANDS RD., SHIRLEY, SQLIHULL. Tel. SQL. 3078



doors ED Bromwich



"After using the Cowley level and Sitesquare we'd never go back to old methods of site layout"

> SAYS CHESTER CONTRACTOR

"The combination of Cowley Level and Sitesquare make the

setting out and levelling of a site a fast, reliable, and absolutely accurate undertaking", says Mr. H. E. Dodd, Building Contractor of Curzon Park, Chester. "Looking back to the old methods of site layout, the time saved must easily have bome the original cost". Here's yet another practical builder confirming what thousands of people have discovered.

with the Cowley Level you can get accurate levels from 6 in. to 100 ft. in less than a minute—even with an unskilled operator. It needs no setting up and is accurate to 1 in. at 100 ft.

The Sitesquare is a precision optical instrument that enables you to set out a right angle very accurately in less than 2 minutes. It replaces the 3-4-5 method and the wooden square. It also checks verticality.

| Please forward Arrange a demonstration at literature no obligation to myself.  Send me address of nearest stockist.  Please mark appropriate square and send to Cowley Level Dept., Hilger & Watts Ltd., 123 Camberwell Road, London, S.E.5.  NAME  ADDRESS  SP/AJ | Cowley Level £18 with tripod, staff and target Sites uare £18 Leather case for each instrument £2.10.0 |
|--|--|
|--|--|

Cowley Level Dept. Hilger & Watts Ltd,. 123 Camberwell Rd., London, S.E.5

# PORTABLE METER TO CHECK REINFORCEMENT IN CONCRETE

The COVERMETER Mark III shows on its dial the depth of reinforcement in concrete, from 0 to 2 inches (0-5 cms.). It also determines the longitudinal axis of the reinforcement and its exact position. It is always accurate, with any size of bar, or type of steel.

In the laboratory, in the works, or on the site, the COVERMETER is handy, and easy to use. It operates from A.C. mains, or from a 6-volt accumulator, and stands up to rough handling. Anybody can use it.



Why not find out more about the Covermeter? Write now for illustrated leaflet.

The Covermeter is being produced in collaboration with the Research and Developthe ment Division of the Cement and Concrete Association.

THE COVERMETER

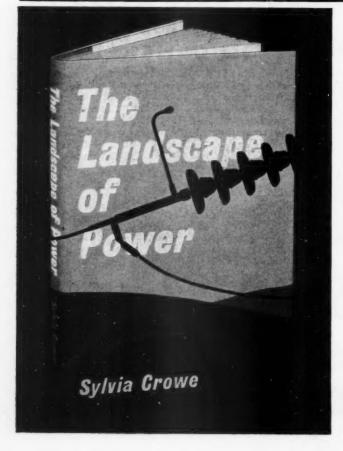
Manufactured and distributed by



73 UXBRIDGE ROAD EALING LONDON, W.S Phone: EALING 8322

85





# The Landscape of Power by Sylvia Crowe P.I.L.A.

THIS BOOK is addressed to everyone who cares about Britain's landscape. Sylvia Crowe, the eminent landscape architect, is not a preservationist. She accepts the fact that you cannot put the clock back; she accepts the essential need for the construction of immense oil refineries, nuclear reactors, power stations, and the network of the electricity grid. 'This network of power' she says, 'opens up a prospect of future wealth for the country, of clean industry and more efficient agriculture.' What she will not accept is that the introduction of these vast new structures into the landscape need necessarily ruin it, and in this practical, lucidly written handbook she calls for more thoughtfulness among those who are responsible for their construction. She shows, with text, photographs and diagrams, that giant buildings and their accessories can be incorporated in the landscape without destroying it—indeed, that given skilful design and sensitive siting they can in some circumstances enhance the natural scene.

There are nine chapters in the book and they deal with The New Industrial Age; Power and National Parks; Nuclear Power Stations; Hydro-Electric Power; Electric Transmission; Oil; Airfields; New Industries in Old Area; Conclusion. Size 8\frac{3}{2}in. \times 5\frac{1}{2}in. 116 pages including over 70 diagrams and halftone illustrations. 16s. net, postage 10d.

The Architectural Press 9 Queen Anne's Gate, SWI



# **FUEL STORAGE**

The problem which has a perfect answer!

Used by leading authorities in London and throughout the Country ... Ideal for houses and flats ...

**FUEL STORAGE UNITS BY** 



Telephone: HUDDERSFIELD 174/4174

Write for illustrated folder and full details to:

LOGICOL FUEL STORAGE UNITS · TAYU WORKS · WATERLOO · HUDDERSFIELD

SPECIFY WHEN PLANNING THE NEW

# SUGG HALCYON SELECTIVE AIR HEATER

IMMEDIATE WARMTH . . . FOR SEVERAL ROOMS ... BY SIMPLE FINGER-TIP CONTROL





Iscape act that

tial

uclear

tricity prospect

end more at the ndscape

y written

s, with

e without

sensitive

atural

l with

lectric d Areas; g over stage 10d. ite, SWI

ks;

s and

hose

The flexibility of the Halcyon Gas Heater makes it an eminently suitable heating installation for every type of residence - from bungalows and houses to flats.

Built for operating in a very small cupboard, its unusual compactness, combined with its many outstanding

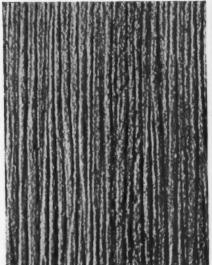
features, have made instant impact on architectural plans in all parts of the country.

Halcyon offers highly efficient heat transference to the air flow, resulting in a discharge of pure warmed air within a few minutes. Halcyon is silent - there is no smoke - there are no fumes.

Full literature and technical details available from the manufacturers:

WILLIAM SUGG & COMPANY LTD. 67-73 REGENCY ST., LONDON, S.W.I Tel. VICtoria 3211

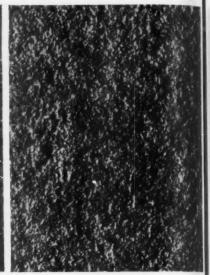
# CLADDING PANELS IN KIRKSTONE GREEN SLATE



Frame Sawn Finish



Fine Rubbed Finish



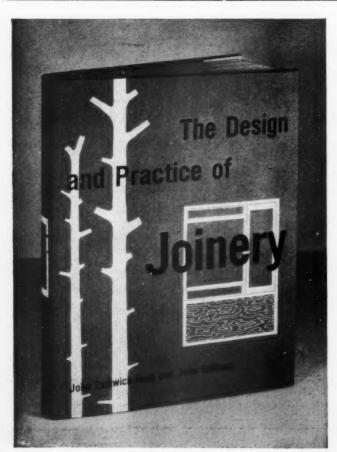
Riven Finish

# THE KIRKSTONE GREEN SLATE QUARRIES LIMITED

Quarriers, Sawyers, Polishers & Craftsmen in Green Slate for all Architectural Purposes

Head Office, Works & Studios, Skelwith Bridge, Ambleside, Westmorland.

Samples and further information on request.



# The Design and Practice of Joinery

by John Eastwick-Field, B.ARCH.(HONS), A.R.I.B.A. and John Stillman, DIPL.LONDON, A.R.I.B.A.

Foreword by Robert H. Matthew, C.B.E., M.A., F.R.I.B.A.

THIS, THE ONLY AUTHORITATIVE, UP-TO-DATE BOOK about present-day joinery practice, is published at the recommendation of the Text and Reference Books Committee of the Royal Institute of British Architects and is intended primarily for architects, assistants and students of architecture. But, because its scope is broad and because it is concerned with the basic principles of design and practice, it will also be of great interest and value to the members of kindred professions, especially quantity surveyors, and to all who are engaged in the handling and conversion of timber, including joinery manufacturers, joiners, cabinet makers, carpenters, shop fitters and other woodworkers.

The text includes chapters on the timber yard; moisture movement in timber; an analysis of construction; the design and machining of sections; and of joints; specification and practice. Among its useful appendixes are a selection of timbers suitable for joinery, set out in tabular form, a complete list of British Standard Specifications and Codes of Practice applicable to joinery, and a general bibliograph. It is comprehensively illustrated: there are nearly 90 photographs and over 200 specially drawn line illustrations—more than 80 in the chapter on joints. And there is a good index.

Size 9\frac{2}{3}\text{ by 7\frac{2}{3}\text{". 224 pages, over 290 illustrations in halftone and line, including 200 line drawings specially drawn by Robert Maguire. Price 42s. net, postage 1s. 9d.

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





All sizes, types and materials for internal or external use. Illuminated letters and box signs. Brochures sent on request.

WARD & GO. (letters) LTD.

12 WILDER ST BRISTOL 2 TELEPHONE BRISTOL 21536

? why not spend that

book token

on a thing of beauty?

The Functional Tradition in Early

Industrial Buildings by J. M. Richards (36s. net)

(Architectural Press, London)

"Dozens of outstandingly beautiful photographs by an exceptionally gifted photographer, Eric de Maré" (says Robert Harling in The Sunday Times).



London: 76 Victoria Street, S.W.I

FOR over fifty years Libraco Ltd., have been designing and manufacturing furni-ture and woodwork of all descriptions for

# LIBRARIES SCHOOLS & OFFICES

The illustration shows the new Shoreditch Library, Lending Department rebuilt after bombing and furnished by Libraco Ltd. Write for Illustrated Booklet.

LOMBARD WALL, WOOLWICH ROAD, CHARLTON, LONDON, S.E.7. Telephone: Greenwich 3308 & 3309

# **RHODES**

of

d John

esent-day

e Text an sh ts and d because

ctice, it wil

ters and e moveme

hining of

its useful et out

cations

graphs

me and

Laguire.

don, S.W.J.

80 in the

ibliograph

ed are engage

PULLEYS AND SASH CHAINS

Economical and easy-running sash-hanging for all new and existing sliding sashes, shopfronts, blackboards and service hatches. From 5 lb. to 500 lb. held safely and securely for a lifetime.

RHODES CHAINS LTD

Beacon Works, Brookside Avenue, Rustington, Sussex Rustington 1303/4 Aircon Rustington

LONDON OFFICE: Carlisle H use, 8 Southampton Row, WCI Chancery 9377 (3 lines) Rhodespaca Norphone London



# HEAVY COGWHEEL PULLEY

The heavy cogwheel pulley is a heavy-duty pulley for large and heavy windows, shopfront sashes, blackboards, sliding doors and partitions. It has a cast brass faceplate and a G.M. cogwheel on a ball-bearing axle. The laminated sash chains are made of rustproofed steel.

For sashes up to 2½ cwt. specify lin. by hin. chain with the 2½in. pulley.

For sashes up to 3 cwt. specify 1in. by \( \frac{1}{2} \) in chain with the 2\( \frac{1}{2} \) in. pulley. For sashes up to 3½ cwt. specify lin. by ½in. chain with the 2½in. pulley.

The dependable system of sash-hanging since 1900 and still THE BEST IN THE WORLD





# BRICK-FACED CONCRETE GARAGES

A luxury garage of the most advanced design, ingeniously combining the appearance of the finest sand-faced brick exterior with the advantage of pre-cast concrete.

\* Fully portable—Easy to erect.

★ Avallable in multiple form, any number in one block. ★ Free delivery in England and Wales.

Standard Concrete Mode:s also available for every car and site Prices from £49 Cash or Terms. Write for illustrated brockure

ERNEST BATLEY LIMITED

43, Colledge Road, Holbrooks, Coventry, Tel. 89245/6 43, New Islington, Manchester 4. Tel. COLlyhurst 2887

# Are you a 37½ man?

A 37½% man is one who provides good, separate locker accommodation for two people, yet saves 37½% wall space! He specifies "Helmsman" Twin Type Steel Clothes Lockers. You too will find these beautifully made, clever lockers, well worth investigating. Single units, or in nests of two or three. Prices from £3.15.0 per person. Special discounts for quantities.

BE WISE! CONSULT US BEFORE YOU PLAN LOCKER ROOMS BECAUSE . . .

... we offer the widest range of standard models. Including 3 point latching & streamlined SLIDEX handle. Also personally-tailored lockers designed and built for you.



STEEL CLOTHES \*\*

LOCKER (Pat. No. 699842)



Byron Works Blackhorse Lane

se send me, free illustrated literature se comprehensive range of "Helme-man" steel Clothes Lockers.

Address.....



YOU DON'T-WHEN YOU BUY UNI-BOND

Uni-Bond is sold undiluted, extended or filled, and there fore has treble it's value, as it can be filled and diluted to your own particular work.

For Instance:-

I Gallon of Uni-Bond added to 2 gallons water, produces 3 gallons of bonding fluid for plastering or rendering.

The highly concentrated nature of UNI-BOND, unlike many imitations, permits considerable dilution for numerous applications without loss of adhesion. UNI-BOND is the most universal bonding agent used throughout the United Kingdom, by the M.O.W., Admiralty, Alministry, War Department, and the largest and leading building contractors, also specified by leading architects.



# BONDS ANYTHING TO ANYTHING

More and more UNI-BOND, the multi-purpose Bonding Agent, is being used by Joiners, Plasterers, Painters, Decorators, in floor-laying, glazed tilling, and in fact, everywhere where timber, metals, hardboard, bricks, tiles and a hundred other materials that require permanently filling. bonding or cementing together.

In handy cans, no mixing or heating, clean in use and finish. UN BOND is resistant to water, oil and petrol and dilute acids, does not crack or craze.

THERE IS NOTHING SO GOOD AS UNI-BOND BACKED BY A MONEY-BACK GUARANTEE

Send your enquiries to:-DEPT. 'E' THE LIQUITILE SUPPLY CO. LTD., 48, HIGH STREET, **CAMBERLEY, SURREY** TEL.:—Camberley 2263





CW5798

# Let's





BUY

d there iluted to

galions d imitation thout los

gent use iralty, Air

ding con-

HING

nt, is being

ing, glazed ard, bricks,

ntly filling

ish. UN-

, does not



BELL' FACING MATERIALS by A. BELL & CO. LTD

# IF YOU WERE ILL ...

Most people face a big drop in income sooner or later if they cannot work from illness or accident. Are YOU insured against this risk?



### "NOW DO I INSURE MY INCOME P"

By taking out a PERMANENT SICKNESS INSURANCE POLICY to provide a weekly income if illness or accident stops you working.

### "NOW LONG DOES THE INSURANCE LAST P"

It is usual to take a policy that goes on to age 65 so that you are protected throughout normal working life.

# "CAN I CLAIM MORE THAN ONCEP"

Yes. As often and for as long as necessary. If you are so ill that you cannot work again, the payments continue as long as the insurance lasts.

### "CAN THE POLICY BE CANCELLED BY THE COMPANY IF I CLAIM HEAVILY?"

NO. No matter how much benefit you draw the Company cannot cancel or amend the Policy on

### "HOW MUCH DOES IT COST?"

That depends on your age at entry and the type of benefit. If you do not need payments to begin until you have been off work for six months you can secure

# £5 a week

UP TO AGE 65 FOR &5 A YEAR

If you are under 32 now and can pass a medical examination. (You can start at any age up to 50).

> THE PERMANENT SICKNESS INSURANCE CO. LTD 3 CAVENDISH SQUARE, LONDON, W.1 Tel: LANgham 0341 (4 lines)

Please send as rull particulars of Permanent Sickness Insurance:

NAME....

S

ADDRESS G

## WEATHERBAR



# ARCHITECT TESTED -

A hose spray at mains water pressure with Electric Blower simulating wind speed of 200 m.p.h.

NOT A DROP PENETRATED

At Last—a simple to fit, efficient Weatherbar.
The WINTUN is made of hard aluminium alloy and is suitable for single or double exterior doorways. It forms a permanent seal and incorporates the unique 'Wind Tunnels' which drain outwards, any water in the threshold trough. It has NO MOVING PARTS TO WEAR OUT and although draughtproof, allows ample ventilation to filter in.

An Architect reports '... most efficient for its purpose, yet ingeniously simple.' COST: 15s. 9d. each. Quantity discounts to the Trade. STOCK SIZES: 30, 32, 33, 34, 36, 37½, 39 and 42 inches. Larger Lengths to order. Please order lengths to nearest Stock Size. For full details, write to the Patentees and Manufacturers.

# **NEILSON & BARCLAY LTD**

LAIGHCARTSIDE STREET, JOHNSTONE 100

### CLASSIFIED ADVERTISEMENTS

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

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

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

AIR\_MAIL SERVICE available on request: In response to requests from a number of Overseas subscribers for air-mail delivery of Public and Official Appointment details and Other Appointments Vacant, we have been pleased to arrange that cuttings of all such classified advertisements appearing in the AJ., shall be despatched by air-mail on Wednesday of each week (one day prior to AJ. publication date). The cost of this special service to Overseas subscribers will be 5s. for feur weeks (1s. 3d. for each additional week) and prepayment should be sent by subscribers wishing to take advantage of this service. The charge we are making represents only the actual cost of the postage involved.

### Public and Official Announcements 30s. per inch: each additional line, 2s. 6d.

Public and Official Announcements
30s. per inch: each additional line, 2s. 6d.

LONDON COUNTY COUNCIL

ARCHITECT'S DEPARTMENT
Vacancies for (1).—ARCHITECT/PLANNERS.
Tasks include three-dimensional planning within London's eight major comprehensive development areas (including Stepney/Poplar, the South Bank and Blephant and Castle) and other redevelopment areas. Work includes preparation of comprehensive lay-outs for all important areas of new development throughout County, including areas to be redeveloped in connection with road improvements.

(2).—TOWN PLANNING ASSISTANTS. Duties include investigation of development proposals, surveys, report writing, preparation of data for Public Inquiries.

Starting salaries in each case up to £360 according to experience and qualifications. Application forms and particulars from Hubert Bennett, P.B.I.B.A. Architect to Council (EK/51/58), County Hall, London, S.B.1. (2167.) 1950
METROPOLITAN BOROUGH OF LAMBETH Applications are invited from architects assist in large programme of conversion and improvement of dwelling houses. Duties: Surveys of existing properties, preparation working drawings and specifications and supervision of works in progress, etc. Appointment will be on a temporary basis for possibly two or three years. Applications will be considered from older members of the Profession with suitable experience. Salary: according to qualifications and experience within the range £375/£1.055 p.a. Full details of experience and qualifications should be forwarded to the Town Clerk, Lambeth Town Hall, London, S.W.2.

COUNTY BOROUGH OF WEST HAM BOROUGH ARCHITECT & PLANNING OFFICER'S DEPARTMENT

COUNTY BOROUGH OF WEST HAM
BOROUGH ARCHITECT & PLANNING
OFFICER'S DEPARTMENT
Applications invited for the following per-

Applications invited manent posts:—

(a) CHIEF ASSISTANT PLANNING OFFICER, J.N.C. Scale A—£1,185 × £50 (3) × £45 (1)—

J.N.C. Scale A = 1,100 \ \( \)

areas. Will be responsible for Planning Administration generally.

(b) SENIOR GROUP ARCHITECT. A.P.T. Grade V. £1.175 × £50-£1.325 p.a., and L.A. Must be A.R.I.B.A. with experience of handling large Housing Contracts and controlling staff. Planning qualification an advantage.

(c) ARCHITECTURAL ASSISTANTS, A.P.T. Grade I, £575 × £30-£725 p.a., and L.A. Intermediate R.I.B.A. standard, with office

experience:
Application forms and details from Borough
Architect and Planning Officer. 70 West Ham
Lane, Stratford, E.15, returnable by 17th January.
2441

LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
Vacancies for ARCHITECTURAL
TANTS. starting salary up to 2856. Full and
interesting programmes of houses, flats, schools
and general buildings.
Application form and particulars from
Bennett. F.B.I.B.A., Architect to Council
(EK/52/58), County Hall, S.E.I. (2168.) 1949

ER/52/58), County Hall, S.E.I. (2168.)

EAST ANGLIAN REGIONAL HOSPITAL BOARD
ASSISTANT ARCHITECTS for work in connection with development and design of large new hospital at Peterborough, and general hospital work for whole Region. Candidates must be qualified and registered architects by examination and possess good general experience in design, construction and specification writing. Knowledge of hospital work desirable but not essential. Salary £700-£1,015 per annum: additional increments within scale based on experience and age may be granted.
Applications stating age, qualifications, experience, salary and details of present position with names of three referees to Secretary of Board, 117 Chesterton Road, Cambridge by 21st January, 1969.

# LONDON COUNTY COUNCIL ARCHITECTS DEPARTMENT

Vacancies for:—
(I) PRINCIPAL ASSISTANT (Professional), salary scale £1,422 10s.—£1,705.
(II) ARCHITECTS, Grade 1, salary scale £1,245

(II) ARCHITECTS, Grade 1, saisty scale 1, -21,482 10s.

Architects appointed would have charge of a section engaged on new building work in the Schools, Housing or General Division.

The Principal Assistant (Professional) would be required to take in addition some specialist divisional responsibility.

Full programme of interesting work.

Application form and further particulars from Hubert Bennett, F.R.I.B.A., Architect to the Council, the County Hall S.E.I., quoting ref. AR/EK/62/58, returnable by 17th January, 1959, (2494).

(2494). 2420

COUNTY COUNCIL OF ESSEX
COUNTY PLANNING DEPARTMENT
Applications invited for post of SENIOR
PLANNING ASSISTANT. Special grade (275021,030) at Wanstead. Applicants must have had
practical experience in the preparation of
development plans in urban areas and be able
to take charge of a small section of staff. Experience in, and a flair for, statistical and research work related to planning regarding population, industry, employment, education, etc., will
be an advantage. Applicants should be Corporate
Members of the Town Planning Institute or
other comparable professional institute, or possess
a University Degree in Economics or Geography.
Five-day week; medical examination; superannuation. Application form from County Planning Adviser, Broomfield Place, Broomfield,
Chelmsford, returnable by 12th January, 1959.
2418

THE UNIVERSITY OF MANCHESTER
Applications are invited for two posts of
LECTURER in ARCHITECTURE from candidates with professional membership of the Royal
Institute of British Architects and not less than
three years of practical experience. Salary on a
scale from £900 to £1,650 per annum; initial
salary according to qualifications and experience.
Membership of the F.S.S.U. and Children's
Allowance Scheme. Applications should be sent
not later than January 31st, 1959, to the Registrar, the University, Manchester 13, from whom
further particulars and forms of application was
be obtained.

ARCHITECTURAL ASSISTANTS
Required by
MINISTRY OF WORKS
For employment in London and Provinces on design and detailing work on construction and maintenance of all types of public buildings.
Salary range £50 (age 21) to £370 p.a. London (slightly less elsewhere).
Five-day week. 3½ weeks annual leave initially. Starting pay according to age, qualifications and experience. Good prospects of promotion with salaries of £1,015 p.a. and above.
Opportunities for permanent posts leading to pensions (non contributory).
Interviews at Regional Offices where possible. Applicants should be of Intermediate R.I.B.A. standard. State age, training and experience to Chief Architect, Ministry of Works. Room 435, Abell House, John Islip, Street, S.W.1. 2444
CITY AND COUNTY OF KINGSTON UPON

Abell House, John Isilp, Street, S.W.1. 2444
CITY AND COUNTY OF KINGSTON UPON
HULL
Applications are invited for the following
posts:—(a) ASSISTANT ARCHITECTS; (b)
ASSISTANT QUANTITY SURVEYORS, Grade
S.C.O. (2750 × 240-21,030). There is an interesting and varied programme of work in the department. Housing accommodation may be provided
for the successful married applicants if they are
not already resident in the city. The point of
entry to the scale will be determined by experience, and a suitable applicant may be offered a
commencing salary of 4950 per annum. (c)
MEASURING ASSISTANT, Miscellaneous Division, Grade III (£505—£565 per annum).
Application forms may be obtained from Andrew
Rankine, O.B.E., A.R.I.B.A., City Architect,
Guildhall, Kingston upon Hull, and should be
returned completed on or before Monday, 25th
January, 1959.

COUNTY BOROUGH OF GREAT YARMOUTH

January, 1959.

COUNTY BOROUGH OF GREAT YARMOUTH GENERAL ARCHITECTURAL ASSISTANT Applications are invited for the appointment of a General Architectural Assistant in the Borough Engineer's Department at a salary in accordance with A.P.T. Grade II (2725 × £30-£855).

Applicants must have passed the Intermediate R.I.B.A. examination and be experienced in the design, construction and supervision of public buildings, houses and flats.

The Council is unable to offer housing accommodation.

The appointment is subject to one month's notice on either side, to the Local Government Superannuation Acts, and to the passing of a medical examination.

Applications in an envelope endorsed "General Architectural Assistant," giving names and addresses of two referees and stating age, professional training, qualifications, experience and present and previous appointments, with salaries, must reach me not later than Friday, 23rd January, 1959.

FARRA CONWAY, Town Clerk.

Town Hall. Great Yarmouth. 1st January, 1959.

COUNTY COUNCIL OF SUTHERLAND COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for two vacancies for TEMPORARY ASSISTANT ARCHITECT'S in the County Architect's Department, Dornoch.

Applicants must be fully qualified A.R.I.B.4 and should have a good knowledge of school design and construction.

The salary scale for both posts if Grade VIII of the A. & P. Division of the N.J.I.C. Scheme. The appointments are subject to the conditions of service of the National Joint Industris Council and to the provisions of the Local Government Superannuation (Scotland) Act, 132, and will be terminable by three months' notice in writing on either side.

The successful candidates will require to past a Medical Examination.

Applications, stating age, qualifications, present and past appointments, and details of experience, together with the names of three persons to whom reference can be made as a ability, should be forwarded to the undersigned not later than 17th January, 1959.

Canvassing, directly or indirectly, will disqualify.

A. J. MACCAE,

A. J. MACRAE, County Ch

A Fe

the su The in any

two ye

obtain of Art

App

£35-1

fixed chara Ho

App perie gethe subm Janu

Mun

County Offices, Golspie. 30th December, 1958.

KENT COUNTY COUNCIL
The following staff are required for work on
the Council's extensive building programme
which includes schools, colleges, old people's and
children's homes, clinics, ambulance, fire am
police stations and other public buildings:—
ARCHITECTS.

ARCHITECTS.
Candidates should be capable of accepting reponsibility and displaying initiative, within group system, in the design and control duilding projects, and possess experience adultive in current problems of design and control of costs. Salaries within scale £750-£1,689 a year.

of costs. Salaries within scale £750—£1,630 tyear.
QUANTITY SURVEYORS.
Candidates should have had experience in the preparation of estimates, bills of quantities and final accounts for building projects. Salaries within scale £750—£1,030 or £575—£725 a year.
Applicants for appointment to the higher scale should have passed the Final Examination of the Royal Institution of Chartered Surveyors (Quantity Surveying Section) and be familiar with recent developments in cost analysis and cost planning. Other applicants should have passed the Intermediate Examination of the Institution and experience. N.J.C. Conditions of Service Further details and application forms from County Architect, Springfield, Maidstone. Closing date 27th January, 1959.

Amended Advertisement

AMNOBED ADVERTISEMENT
COUNTY BOROUGH OF DEWSBURY
BOROUGH ARCHITECT & RUILDINGS
SURVEYOR'S DEPARTMENT
Applications are invited for the following
appointments:

(a) PRINCIPAL ASSISTANT ARCHITECT
(Education Section)—A.P.T. Grade IV.
(b) ASSISTANT QUANTITY SURVEYOR—
Special Grade.
The commencing salaries will be fixed within
the scope of the grades stated according to qualifications and experience. i.e. A.P.T. Grade IV.
£1,025—£1,175 p.a., Special Grade, £750—£1,030 p.1.
Applicants for appointment (a) must have passed
the final examination of the R.I.B.A. and those
for appointment (b) the final examination of the
R.I.C.S. The successful applicant for appointment (a) will be responsible for the design, costruction and supervision of new schools.
Housing accommodation may be made available
if required.
The appointments will be sphicet to one month's

Housing accommodation may be made available if required.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts.

Applications, stating age, education, qualifactions, full particulars of training and experience, together with copies of two recent testimonials should be sent to the undersigned not later thas Monday. 19th January, 1959, in envelopes endorsed "Appointment of NORMAN JAMES, Town Clerk.

Dewsbury. 23rd December, 1958.

HARLOW URBAN DISTRICT COUNCIL

HARLOW URBAN DISTRICT COUNCIL require an ARCHITECTURAL ASSISTANT on Grade A.P.T. III (£725-£845) or Grade tions and experience. Appointment subject to a medical examination.

Housing available, removal expenses paid where necessary. Car allowance will be made where appropriate.

Housing available, removal expenses paid where appropriate.

Harlow, with a population of 45,000, rapidy expanding to 80,000, offers excellent experience is a keen and energetic applicant. The Department is actively engaged in the preparation of scheme for several major projects including a swimming two reverse major projects of local authority services. Applications, maning two referees, to be received by the Engineer and Surveyor. A. W. & Webb. A.M.I.C.E., M.I.Mun.E., M.R.S.H., Nettewell Hall, Harlow, Essex, by 21st January, 1995.

vacancies for HITECTS in Dornoch. ed A.R.I.B.1 ge of school

f Grade VIII I.C. Scheme o the cond-int Industrial of the Local ad) Act, 1937, conths' notice

quire to pas ications, pre-details of nes of three nes of three made as to undersigned

y, will dis MACRAE,

IL for work of programme people's and ce, fire and ldings:—

ccepting re-e, within a control of perience and and control 750—£1,030 a

ience in the nantities and ts. Salaries 1725 a year. This higher scale action of the salaries with is and oos have passed Institution qualifications of Service forms from one. Closing one. Closing

SBURY LDINGS NT

following RCHITECT RVEYOR-

fixed within ng to qualiGrade IV,
—£1,030 pa. have passed... and those ation of the for appointdesign, conpols.

ools. de available

one month's sions of the cts. n, qualifica-experience, estimonials, t later than envelopes

JAMES,

OUNCIL NT

or Grade o qualifica-ubject to a

paid where

00, rapidly perience to Department of schemes swimming the normal ty services, to be . A. W. B. H., Netterary, 1959.

EDINBURGH COLLEGE OF ART
ANDREW GRANT BEQUEST—FELLOWSHIPS FOR
A Fellowship of £600 per annum for two years
may be awarded to enable a candidate of exceptional ability to undertake special study under
the supervision of the College Authorities.
The Fellowship is intended for persons engaged
in any branch of art, and is open to men and
women, married or single, of any nationality.
Applicants are expected to have not less than
two years' professional and/or industrial experience.

The College comprises Schools of Architecture, Drawing and Painting, Design and Crafts and Sulpture.

Form of application and conditions may be obtained from the Secretary, Edinburgh College of Art, Lauriston Place, Edinburgh, 3, to whom applications should be returned not later than 28th February, 1959.

J R REGGWN

J. R. BROWN, Secretary. 2479

BOROUGH OF SCUNTHORPE
BOROUGH SURVEYOR'S DEPARTMENT
Applications are invited for the following

appointments:—
(a) ASSISTANT ARCHITECT, Special Grade (£750 × £40—£1,030 p.a.) or A.P.T. III (£845 × 5-£1,025 p.a.). (b) ASSISTANT ARCHITECT, A.P.T. II (£725

(6) ASSISTANT ARCHITECT, A.F.T. 11 (2/25) x 250-2845 p.a.).

The commencing salary of each post will be read according to qualifications and experience. The work will be of an interesting and varied character in an expanding town with a population of 60,000.

Housing accommodation will be available if required

nousing accommodation will be available in required.

Applications, giving particulars of age, experience, qualifications and appointments, together with the names of two referees, should be abmitted to the undersigned not later than 24th January, 1959.

T. M. LISTER, Town Clerk.

Municipal Offices, 34, High Street, Scunthorpe. 24th December, 1958.

2468
LINDSEY (LINCOLNSHIRE) COUNTY
COUNCIL
ARCHITECT'S DEFARTMENT
Vacancies on permanent staff for:—
(a) ASSISTANT ARCHITECT, Grade: IV,
(b) TWO SENIOR ASSISTANTS, Special Grade,
259(2),030.
(c) ASSISTANT AP TILL 2725(2)

(b) Two SENIOR ASSISTANTS, Special Grade, 1759/21.030.

(c) ASSISTANT, A.P.T. II, 2725/2845.

(d) ENGINEERING ASSISTANT, A.P.T. III, 2845/21.025.

Applicants for (a) and (b) should be A.R.I.B.A. and capable of controlling large and interesting schemes, (c) Intermediate R.I.B.A., and (d) should be Graduate I.H.V.E. and capable of designing heating installations for large schemes. Salary at a starting point within the grade dependent upon qualifications and experience. N.J.C. Conditions of Service. Canvassing 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 post applied for, giving age, qualifications, experience, present post and slary, and the names of at least two persons to mom reference can be made, to be sent not later than 16th January, 1959, to the County Architect, County Offices, Lincoln.

EDINBURGH COLLEGE OF ART

EDINBURGH COLLEGE OF ART
Applications are invited for the post of
ASSISTANT INSTRUCTOR in the School of
ARSISTANT INSTRUCTOR in the School of
Architecture. Candidates must be Associate
Members of the Royal Institute of British Architects and of the Town Planning Institute. Duties
will include teaching all aspects of Town and
Country Planning. Salary Scale 2850 × 250—
Roymore Country Planning.

Country Planning. Salary Scale £350.

£1.530.

£1.530.

Form of application and conditions of appointment can be obtained from the Secretary, Edinburgh.

£1.540.

£1.540.

£1.550.

£1.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2.550.

£2

requirements.

Forms of application from the County Architect,
Forms of application from the County Architect,
County Hall. West Bridgford, Nottingham, to
whom they should be returned as soon as possible.

A. R. DAVIS,

Clerk of the County Council.
2481

NORTH WEST METROPOLITAN REGIONAL

ASSISTANT ARCHITECT required—good experience of design and construction necessary preferably in hospital work. Applicants must be Associate Members of the R.I.B.A. Salary scale £700 × £25 (3) × £30 (1) × £35 (6)—£1,015 plus £20—£30 London weighting. Ref. 691.

ARCHITECTURAL ASSISTANTS also required. Applicants must have Intermediate R.I.B.A. Salary scale £525 (age 21) × £20 (4) × £25 (5)—£730 plus £20—£30 London weighting. Ref. 692.

Commencing salary above minimum may be paid according to relevant practical experience appropriate to the posts. Whitley Council conditions, superamouable. Apply, stating age, qualifications (with date) and experience, with names of two referees, to Secretary, North West Metropolitan Regional Hospital Board, 40, Eastbourne Terrace, W.2, by 26th January, quoting appropriate reference number. 2517

GOVERNMENT OF THE FEDERATION OF MALAYA has vacancies for ARCHITECTS in the Public Works Department on contract for three years in the first instance. Qualifications. Either: (a) Associateship of the Royal Institute of British Architects; and (c) at least five years' post qualifying experience. Basic Salary.

\$628 rising to \$1.254 per mensem (£379 to £1,755 p.a.). Commencing salary according to experience. In addition substantial expatriation and cost of living allowances varying with family circumstances; lump sum gratuity; full pay vacation leave; free passages; free medical attention (except for a small charge for maintenance if in hospital).

Further details and application forms can be obtained from the Recruitment and Personnel Division, Malaya House, 57, Tratalgar Square, London, W.C.2.

London, W.C.2. 2515 CHIEF ARCHITECT IN THE MINISTRIES OF HOUSING AND LOCAL GOVERNMENT AND HEALTH The Civil Service Commissioners invite appli-cations for two pensionable posts of Chief

The Civil Service Commissioners invite applications for two pensionable posts of Chief Architect.

Ministry of Housing and Local Government (one post).

Applicants must be registered Architects and hold professional qualifications in architecture, and have had a wide experience of housing and other building development. Experience in the field of public authority housing would be an advantage.

The person appointed will be responsible for the organisation, direction and supervision of the Ministry's architectural advisory service on housing and local government building generally. The work of this service is being reviewed and extended and will afford increased scope for the study of design problems and constructional techniques. There will also be opportunity for carrying out selected demonstration schemes in the housing field. Salary (London) £3,750.

Ministry of Health (one post).

Candidates must be registered Architects and hold professional qualifications in architecture. Experience of hospital building an advantage. All round experience and organising ability essential.

The Chief Architect will be in charge of the Ministry's Architectural Staff. He will be responsible for organising the examination of building schemes of Hospital Boards engaged in an expanding programme, as well as of schemes for other health and welfare services, and for a design group which it is inhended shall undertake development work. His duties will include collaboration with professional staff of Hospital Boards and Local Authorities. Salary (London) £3,400.

23.400.

Application forms and further particulars from Civil Service Commission, Scientific Branch, 17, North Audlev Street, London, W.I., quoting No. 54925/59. Closing date 30th January, 1559. Applicants should state the post for which they are applying and if they wish to be considered for both appointments this must be indicated.

METROPOLITAN BOROUGH OF LEWISHAM
ASSISTANT ARCHITECT
Salary Scale A.P.T. I or Special Scale, viz.
£585 × £30-£755 p.a. or £760 × £40-£1,060 p.a.,
including London "weighting." Grade and
commencing salary in the grade according to
qualifications and experience. Particulars and
form of application from Town Clerk (Dept. H),
Lewisham Town Hall. Catford, S.E.6. Closing
date 24th January, 1959.

form or approach form of the first part of the f

10 Loseby Lane, Leicester.

KUMASI COLLEGE OF TECHNOLOGY
Applications are invited for the post of
ARCHITECT to carry out investigation for plan,
design and supervise the construction of College
buildings which include halls of residence,
bouses, laboratories and teaching buildings under
the direction of Mr. E. Williamson, A.R.I.B.A.,
Candidates, where he added to the control of the control o

houses, laboratories and teaching buildings under the direction of Mr. E. Williamson, A.R.I.B.A., A.M.T.P.I. Candidates must be A.R.I.B.A. or equivalent and be sympathetic towards contemporary ideas. The appointment will be on contract for two tours of 12 to 18 months each. Contract salary scale: £1,080 × £50—£1,580; £1,660 × £60—£2,580 p.a. plus gratuity payable at end of contract at rate of £12 10s. 0d. for each month of satisfactory service.

Point of entry to salary scale is related to previous experience; the second half of the scale is normally entered on completion of five years' approved professional experience after election as A.R.I.B.A.

Children's allowances are paid according to Government scheme at rate of £100 p.a. payable in respect of a maximum of three children up to age 18 provided they are attending an educational institution overseas.

Conditions of service include leave at end of each tour with free 1st class passages for member of staff, his wife and up to three children under 17. Bungalows with basic furniture at moderate rental provided.

Applications (six copies) should be submitted to The Council for Overseas Colleges, 12, Lincoln's Inn Fields, London, W.C.2, giving age, education, qualifications, experience and the names of three referees. Closing date 30th January, 1959.

THE NATIONAL COAL BOARD

SOUTH WESTERN DIVISION

Invite applications for the post of ARCHITECTURAL ASSISTANT, Grade 1, in their
Divisional Production Department, Architects'
Branch, Cambrian Buildings, Mount Stuart
Square, Cardiff.

Applicants should have passed the Intermediate
examination of the R.I.B.A., and have not less
than three years' subsequent experience, or have
passed the appropriate Final examination, and
have had not less than one year's subsequent
experience.

Salary scale: (Male) £715 × £25-£850 per
annum. (Female) £610 × £21-£720 per annum.

Applicants of exceptional ability and experience
may in special circumstances be given up to
£150 above the scale maximum in the Grade.

Applications will also be considered from candidates who have not passed the Intermediate
examination but have considerable practical
experience.

Please quote Staff Vacques, No. 422(40)

experience.

Please quote Staff Vacancy No. 422/40.

Full particulars of age, qualifications, experience and positions held, together with details of present post and salary, should be sent to the Divisional Chief Staff Officer, National Coal Board, Cambrian Buildings, Mount Stuart Square, Cardiff, by 19th January, 1959.

2486

Board, Cambrian Buildings, Mount Stuart Square, Cardiff, by 19th January, 1959.

CITY AND COUNTY OF THE CITY OF EXETER
Applications are invited for the following appointments in the City Architect's Department:
(a) SENIOR ASSISTANT ARCHITECT on the established staff. Salary within Special Grade (£750 to £1.030 per annum). Applicants must be Associate Members of the Royal Institute of British Architects and preference will be given to those with experience in the design and construction of civic buildings.
(b) JUNIOR ARCHITECTURAL ASSISTANT on the temporary staff. Salary A.P.T. Grade I (£7575 to £725 per annum). Applicants must have passed the Intermediate Examination of the Royal Institute of British Architects.
The appointments will be subject to one month's notice on either side and the senior appointment will be subject to one month's notice on either side and the senior appointment will be subject to a medical examination.
Canvassing will disqualify and applicants must disclose whether, to their knowledge, they are related to any member of the Council or to the holder of any senior office under the Council. Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience and the earliest possible date when available, should be sent to H. B. Rowe, F.R.I.B.A., A.M.I.Struct.E., City Architect, Municipal Offices, Exeter, not later than 24th January, 1959.

C. J. NEWMAN. Town Clerk.

Exeter. January, 1959.

A SENIOR PLANNING ASSISTANT is required in the County Planning Office for work in connection with the Development Plan and re-development schemes. Salary within A.P.T. Special Grade, £750-£1,030 per annum. Candidates must be A.M.T.P.I. or A.R.I.B.A. with planning experience. Plat accommodation within 13 miles of Shrewsbury will be available if required. Applications, stating age, qualifications and experience, accompanied by names of two-persons to whom reference can be made, to the County Planning Officer, Shirehall, Shrewsbury, by 24th January, 1959.

G. C. GODBER.

Clerk of the County Council.

COUNTY BOROUGH OF DERBY
BOROUGH ARCHITECT'S DEPARTMENT
(a) SENIOR ASSISTANT ARCHITECTS,
A.P.T. Grade IV (£1,025-£1,175 per annum).
(b) SENIOR ASSISTANT ARCHITECTS,
Special Grade (£750-£1,030 per annum). Qualifications: A.R.I.B.A.
(c) SENIOR ASSISTANT ARCHITECTS,
Special Grade (£750-£1,030 per annum). Qualifications: Interactions: A.R.I.B.A.
(c) ASSISTANT ARCHITECT, A.P.T. Grade I
(£575-£275 per annum). Qualifications: Intermediate R.I.B.A architections: Intermediate R.I.B.A architections and experience.

Permanent superannuable appointments, subject to one month's notice and to medical examination. National Conditions of Service.

Application forms obtainable from and to be returned to the Borough Architect, The Council House, Corporation Street, Derby, not later than Monday, 26th January, 1959.

G. H. EMLYN JONES,
Town Clerk.

COUNTY BOROUGH OF NORTHAMPTON Applications are invited for the following acancies in the Borough Architect's Depart-

(a) ASSISTANT ARCHITECT, Special Grade (£750 × £40-£1.030). (b) ARCHITECTURAL ASSISTANT, A.P.T. II (£725-£345).

(£725-£345).
(c) TOWN PLANNING ASSISTANT, A.P.T. II (£725-£345).

Application forms, returnable by 19th January, and full details may be obtained from Borough Architect, Guildhall, Northampton.

C. E. VIVIAN ROWE,

Town Class.

COUNTY BOROUGH OF ROCHDALE
Applications are invited for the post of
QUANTITY SURVEYOR on Special Classes,
Grade (£750-£1,030 p.a.).
The successful applicant, if fully qualified, will
be offered housing accommodation.
Applications, including names of two referees,
to the Borough Surveyor, Town Hall, Rochdale,
by 26th January, 1959.
Canvassing or non-disclosure of relationship to
any member or senior official of the Council will
disqualify. Appointments subject to medical
examination.

K. B. MOORE.

K. B. MOORE, Town Clerk.

COUNTY OF ESSEX
BOROUGH OF WALTHAMSTOW
COMMITTEE FOR EDUCATION
Applications are invited for the following
pointments in the office of the Education
rehitect, Mr. T. L. Rampton, A.R.I.B.A.,
R.I.C.S.

Architect, Mr. T. L. Rampton, A.R.I.B.A., A.R.I.C.S.

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. Grade IV. £1,025 to £1,175 per annum.

(b) ARCHITECTURAL ASSISTANT, A.P.T. Grade I. £575 to £725 per annum.

Londom weighting of £30 (under 26 years of age £20) applicable to both appointments. For appointment (a) applicants must be Associate Member of the R.I.B.A. Experience in design and construction of schools, and contract administration an advantage.

Forms of application to be obtained from and returned to the Borough Education Officer, Town Hall, Forest Road, Walthamstow, E.I., within two weeks of the appearance of this notice. 2463

two weeks of the appearance of this notice. 2463
COUNTY BOROUGH OF CROYDON
ARCHITECTURAL ASSISTANTS
Applications are invited for two appointments under team leaders on general architectural work. Candidates should have reached about the standard of the RIBA Intermediate Examination. Commencing salary between £885 and £875 per annum according to qualifications and experience; scale rises to £1.060 per annum subject to passing RIBA Final Examination.
Further particulars and application form from Borough Engineer, Town Hall, Croydon. Closing date 28th January, 1959.

E. TABERNER,

E. TABERNER, Town Clerk

CHERTSEY URBAN DISTRICT COUNCIL

ASSISTANT ARCHITECT

Applications are invited for the above position in the department of the Engineer and Surveyor at a salary in accordance with Grade IV of the A.P.T. Division of the National Scales (£1,025 × £50-£1,175 per annum).

Applicants must be Registered Architects. Preference will be given to those qualified as Associates of the Royal Institute of British Architects, with experience in local government. Forms of application can be obtained from the undersigned to whom they should be returned not later than the 21st January, 1959.

A. REX HERBERT,

Council Offices.

Council Offices. Chertsey. Surrey.

WORCESTERSHIRE COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
SENIOR ASSISTANT ARCHITECT required,
APT. Grade IV (£1,025-£1,175), Applicants should
be A.R.I.B.A. and preference will be given to
one with experience in School design. Application forms should be obtained from L. C. Lomas,
F.B.I.B.A., County Architect, 14, Castle Street,
Worcester, not later than January 24, 1959. (£5.)
2546

BOROUGH OF ENFIELD
BOROUGH ENGINEER'S DEPARTMENT
(Population: 109,200, Area: 12,401 acres)
Applications are invited for established posts
within the Grades shown:—
(4) SENIOR ARCHITECTURAL ASSISTANT
A.P.T. IV (£1,025-£1,175 per annum).
(b) MAINTENANCE ASSISTANT (Architectural
Section) A.P.T. I (£575-£725 per annum).
(c) JUNIOR ASSISTANT (Architectural Section)
Higher General Division (£230-£560 per
annum).

Higher General Division (£230—£560 per annum).

A London Weighting Allowance of £10—£30 per annum according to age will be paid in addition to the above salaries.

The Extended Higher General Division Scale applies to post (c) above.

Consideration will be given to the provision of housing accommodation for post (a) above, or for a loan to enable the successful candidate to purchase a house if required.

Saturday mornings are normally free of duty. Application forms, returnable by 3rd FEBEUARY, 1999, from H. Deryck Peake, M.Sc. (Eng.)., M.I.C.E., Borough Engineer & Surveyor, "Percy House," 7 Little Park Gardens, Enfield, Middlesex.

CYRIL E. C. R. PLATTEN,

CYRIL E. C. R. PLATTEN Town Cle Public Offices, Enfield, Middx

Public Offices.

Enfield, Middx. 2530

BOROUGH OF HENDON

SENIOR ASSISTANT ARCHITECT—GRADE

APT. V

SENIOR ASSISTANT ARCHITECT—GRADE

APT. IV

Applications are invited for the above appointments in the Architects Section of the Borough Engineer and Surveyor's Department at a commencing salary, according to experience, within the grades APT. V (£1,175 to £1,325) and APT. IV (£1,025 to £1,375) as applicable, plus London weighting. Candidates must be Associate Members of the Royal Institute of British Architects.

The posts are pensionable, subject to National Scheme and medical examination. The Council is prepared to consider assisting suitable applicants with housing accommodation.

Applications with full details, together with names and addresses of two referees, must reach the Borough Engineer and Surveyor by Monday, 26th January, 1959. Canvassing will disqualify.

R. H. WILLIAMS.

Town Hall,

Town Hall, Hendon, N.W.4.

N.W.4.

2532

METROPOLITAN BOROUGH OF HAMPSTEAD require an ARCHITECTURAL ASSISTANT (temporary) in the Housing Architect's Department. Grade AP.T. I-II (£575-£484) or Special Grade (£750-£1,030) plus London weighting. Commencing salary according to qualifications and experience. (Grade I-II-Intermediate R.I.B.A. Special-Final R.I.B.A.).

Applications giving training, experience, previous appointments and the names of three referees, to the Town Clerk (AJ), Town Hall, Haverstock Hill, N.W.3, by 22nd January, 1959.

No housing provided.

Haverstock Hill, N.W.S, by

BOROUGH OF YEOVIL

ARCHITECTURAL ASSISTANT

Applications are invited for the appointment of an Architectural Assistant in the Borough Surveyor's Department at a salary within Grade
A.P.T.I. (£675-£725 p.a.).

The scheme of Conditions of Service laid down by the National Joint Council for Local Authorities' Administrative. Professional, Technical and Clerical Services will apply.

Applications giving full personal details, present and previous appointments, qualifications and experience should be sent to the undersigned not lafer than Thursday, 22nd January, 1959.

A. HEAL, M.I.Mun.E.,

Borough Surveyor.

Municipal Offices, Yeovil.

BOROUGH OF LEYTON
BOROUGH ENGINEER'S DEPARTMENT
ARCHITECTURAL SECTION
ASSISTANT ARCHITECTURAL SECTION
Special Grade—2780—21,060 per annum including London weighting.
ARCHITECTURAL ASSISTANT—Salary within Grade A.P.T. I—2575—2725 per annum plus London weighting.
Housing accommodation available.
Applications to Borough Engineer, Town Hall. Leyton, E.10, stating appointment and names of two referees, not later than 23rd January, 1959.
D. J. OSBORNE,
Town Clerk.

Town Hall, Leyton, E.10.

ASSISTANT ARCHITECT required by POPLAR BOROUGH COUNCIL. Permanent appointment. Salary scale 2750/£1,030 plus "weighting." Applicants must have passed the Final R.I.B.A. and have had town planning experience. Application forms obtainable from Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3. Closing date 31st January, 1959 (first post). 2528

METROPOLITAN BOROUGH OF HOLBORN ASSISTANT ARCHITECT, Borough Architect's Department, R.I.B.A. Final. Salary within A.P.T. III (£845 rising to £1,025 plus London weighting) according to experience. Application, with names of two referees, to Town Clerk, Town Hall, High Holborn, W.C.1.

S ners

A yar Yar

A

B

ap) De

6

ex]

E

DEVON COUNTY COUNCIL require four ARCHITECTURAL ASSISTANTS, A.P.T. II (£725—2845). Full and interesting programmes of Schools and other County Buildings. Previous Local Authority experience not essential.

In approved cases, loans for house purchase and removal expenses are available—also lodging allowance for married officers while seeking accommodation.

Particulars and application form, returnable by 26th January, 1959, from County Architect, 97, Heavitree Road, Exeter.

DENBIGHSHIRE COUNTY COUNCIL Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£575—£725 per annum) in the County Architect's Department, Wrexham.

Further particulars with form of application can be obtained from me. Completed forms to be returned to me by 14th January, 1959.

W. E. BUFTON, Clerk of the County Council.

County Offices, Ruthin.

County Offices, Ruthin

Buthin. 2523

BOROUGH OF NUNEATON
TWO ARCHITECTURAL ASSISTANTS
Applications for these posts are invited from suitably qualified persons not later than 25th
January, 1959.
Salary Special Grade 4750—£1,030. Housing accommodation may be provided.
Particulars of the appointments can be obtained from me.

A. A. CRABTREE.

A. A. CRABTREE, Town Clerk.

The Council House,

Nuneaton. 2540
NORTHUMBERLAND COUNTY PLANNING
DEPARTMENT
SENIOR PLANNING ASSISTANT
SPECIAL SCALE (£750—£1,030)
Development Plan Section
Salary according to qualifications and experience. Application forms and further information from County Planning Officer, County Hall, Nercastle upon Tyne, 1. Closing date 12th January, 1959. 2465

Architectural Appointments Vacant 4 lines or under, 9s. 6d.; each additional line, 2s. 6d Box Number, including forwarding replies, 2s. extra

A COMPETENT ASSISTANT, with several years' experience and capable of working with little supervision, required in Branch Office Birmingham, engaged on a varied and interestions, giving full particulars and salary required to: G. S. Hay, A.B.I.B.A., Chief Architect, Coperative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4.

A SSISTANT required in busy West End Office.

A Solstant required in busy West End Office.

About Intermediate level. Write stating age.
experience and salary desired. Box 2081.

A RCHITECTURAL ASSISTANTS, preferably
with office experience, required immediately
for work on large and interesting projects.
Vacancies occur in the following salary scales:
-Intermediate standard, 4450—4550; Final standard, £700—2550. Five-day week, pension scheme,
good prospects. Head office of firm: Southsea,
Hants. Box 2304.

DONALD WARD & PARTNERS require

Hants. Box 2304.

RONALD WARD & PARTNERS require ACCOLLING MERVILLIAN MELVIN. WARD ASSISTANTS with contemporary outlook and willing to use own initiative. Salary range £690 to £990. Congenial working conditions. Five-day week. Apply 29, Chesham Place, Belgrave Square, S.W.1. Telephone Belgravia 3361.

INTERMEDIATE ASSISTANTS required for Architect's Office, London. Salary £690 to £800. Industrial and commercial projects. Scope for initiative and responsibility. Box 2340.

COLLINS, MELVIN, WARD & PARTNERS have vacancies for JUNIOR STAFF interested in the contemporary design of hospitals and educational buildings, Five-day week. Pension scheme. Quarterly bonuses. Telephone WEL 9991.

WEL 9991.

ZABERIENCED ARCHITECT required to take charge Branch Office, West Africa. Minimum three-year appointment. Excellent prospects for person with all-round qualifications. Write Box 2374.

JORPOLK Office requires Single ARCHITECTIFICATION TITRAL ASSISTANT of about Intermediate standard. Experience in Local Anthority Housing an advantage. Reply with details of age and salary required to Box 2370.

INTERMEDIATE and Final standard ASSISTANTS required. Minimum 2 years' office experience. Salary according to ability. Theo. H. Birks, 38, Portland Place. W.I. LAN 7235. 243.

CCHERRER & HUCKS require in their London. H. Birks, 55, "rotiand Flace, w.l. Lan 1255, "See CHERRER & HICKS require in their London Office a qualified ARCHITECTURAL ASSISTANT with 3 years' office experience for a variety of interesting contracts. Salary by arrangement. Apply in writing giving full particulars to 19. Cavendish Square, W.l. 265

OPPORTUNITY for ASSISTANT of Interplete jobs-houses, schoolwork, church halls and alteration work-with minimum supervision. Very pleasant (Worcester) office, young staff, contemporary outlook. Salary according to ability. Box 2412.

SENIOB. Intermediate and Junior ASSISTANTS required by Guy Morgan & Partners in their London office. Phone SLOane 0624 for appointment. 2455

A.P.T. II

Previous

al.
e purchase
lso lodging
le seeking

turnable by

UNCIL intment of T. Grade I Architect's

application forms to be

tu Council 2523

ANTS vited from than 26th

Housing can be

TREE,

LANNING

nd experinformation Hall, New-1 January, 2485

Vacant

line, 20.6d.

th several f working nch Office, d interest. Applica-required, hitect, Co-Balloon 1874

and Office. ating age,

preferably mediately

projects.

n scheme, Southsea,

TS with use own Congenial Apply 29, 7.1. Tele-

uired for ry £600 to cts. Scope 2340.

RTNERS
FAFF inhospitals
by week.
Telephone

quired to st Africa. Excellent qualifica-

CHITEC.

rd ASSIS-ars' office y. Theo. 7236. 2463 ir London CCTURAL rience for Salary by full par-2457

of Inter-ndle com-halls and sion. Very contem-ility. Box

NT (0)

lor appoilsment.

RCHITECTURAL ASSISTANT required in with offices in Central London. All staff facilities; fiveday week. Please state age, qualifications, experience and salary required. Box 2408.

REHITECTURAL ASSISTANT required. Box 2408.

RECHITECTURAL ASSISTANT required. Box 2608.

RECHITECTURAL ASSISTANT required. Box 2608.

Rechitect of the commercial and industrial work, excellent scope for design. Apply, stating experience, reference and salary required, to G. farwood, F.R.I.B.A., The Barnsley British Co-operative Society Ltd., Twibel Street, 2414.

Barnsley.

AGRICULTURAL ESTATE requires ARCHIAGRICULTURAL DRAUGHTSMAN for 12/18
months only. Must be experienced in preparing
working and detail drawings. The post would
sait a young qualified Architect seeking experience in layout and design of farm buildings.
Apply in writing, stating age, experience and
slayr required, to The Agent, Estate Office,
Edensor, Bakewell, Derbyshire.

2416

BUSY private practice has vacancy for QUALIFIED ASSISTANT, fully experienced and preferably car owner/driver. Varied and interesting works including Domestic, Commercial, Industrial and Ecclesiastical. Please apply, giving fullest details to A. R. Laing, Deacon & Laing, 65, Goldington Road, Bedford.

CLASGOW ARCHITECTS, young firm expanding to new offices early 1959, now seek (i)
experienced ASSISTANT, (ii) keen JUNIOR.
Fiveday week. Pension Scheme. Busy but congenial atmosphere. Write basic particulars, in
confidence, to S. Lothian Barclay, A.R.I.B.A.,
7, West Regent Street, Glasgow, C.2, or telephone Douglas 3069 for appointment.

2426

DUBLES & NEWTON require ARCHITEC-TURAL ASSISTANTS, aged 20-24, Inter-mediate standard. The appointments offer ex-perience and opportunity, Reply 25, Bedford Row, W.C.I., or 36/8, County Chambers, Weston Boad, Southend-on-Sea.

A BCHITECTURAL ASSISTANT required from about Intermediate standard to recently qualified, for interesting and varied work in practice mainly concerned with commercial projects. Five-day week. Congenial working conditions. Salary by arrangement. Apply in writing, giving full particulars, age, to J. Alfred Harper & Son, Union Chambers, 63, Temple Row, Birmingham.

LEWELLYN SMITH & WATERS require a SENIOR and JUNIOR ASSISTANTS for a widely varied programme of work. Salary according to experience. Please write, stating qualifications, experience and age, to 103, Old Brompton Road, S.W.7.

Brompton Road, S.W.7.

ARCHITECTURAL ASSISTANT required in small central London office, wide variety of work and good prospects. Salary £500-£550. Private study by arrangement. Applicant should be 3rd or 4th year student or 2nd year if adequate office experience. Write or phone: Michael Blampied & Partners, 63s, Great Russell Street, W.C.1. Chancery 7209.

TREHEARNE & NORMAN, PRESTON & PARTNERS have vacancies for SENIOR ASSISTANTS. Salary according to experience and qualifications. Apply: 83, Kingsway, W.C.2 (HOL. 4071).

ARCHITECTURAL ASSISTANTS, Senior and Junior, required for large projects in Bir-mingham Office. Write, stating experience, age, and salary required. Box 2434.

and salary required. Box 2434.

ARCHITECTURAL ASSISTANT required by Construction Department of Leading Merseyside Commercial Organisation undertaking extensive development programme. The work is varied and interesting, covering building projects throughout the British Isles, and offers considerable scope for man with initiative who has attained Inter R.I.B.A. standard. Age not over 35. Five-day week. Staff Life Assurance and Pension Scheme. Commencing salary commensurate with experience. Applicants should in the first instance give full details of experience and salary expected to Box 2546.

NEWMAN, LEVINSON & PARTNERS require SENIOR and JUNIOR ASSISTANTS with experience of commercial and industrial work in the London Area. Good prospects for suitable candidates in busy but congenial office. Write stating experience and commencing salary required, to 9 Mansfield Street, London, W.1, or telephone LANgham 9253/4.

ARCHITECTURAL ASSISTANT wanted, Intermediate to Final standard, with minimum two years' office experience, for small, busy (heetic) private West End practice. Quick, neat draughtsmanship essential. Write stating experience, salary required, etc., to Box 2526.

ARCHITECTURAL ASSISTANT with some

ARCHITECTURAL ASSISTANT with some office experience required for busy expanding Practice in Manchester. Should be keen and capable of doing various types of schemes under supervision. Opportunity for developing office, and good salary offered. Write with brief details, in first instance, to Box 2525.

A RCHITECTURAL ASSISTANT required, R.I.B.A. Intermediate to Final standard. All-round experience and initiative essential. Apply with full particulars of age, past employ-ment and salary required to Geoffrey Bazeley & Barbary, F./F.R.I.B.A., 5, Portland Square, Ply-mouth

MRCHITECTURAL ASSISTANTS required for severa! large projects. Excellent opportunities to suitable applicants. Five-day week. Please write giving full particulars of experience and salary required to Johns, Slater & Haward, F./A.R.I.B.A., 32, Foundation Street, Ipswich. 2531

A YOUNG ARCHITECT (24-30 years) is required in the Display Department of a large Shoe Manufacturing Company. Duties will include the design of shop fronts, interiors and promotional display material. Salary will depend upon qualifications and experience. Applications should be made to the Personnel Officer, C. & J. Clark Limited (Street, Somerset, marked " Private and Confidential."

A RCHITECTURAL ASSISTANT with experience required for busy Dartford office. Applicant must be experienced in handling contracts and taking responsibility under minimum supervision. Write giving full particulars of experience and salary required to Box 2538.

A RCHITECTURAL ASSISTANTS, aged 28-45, required by London firm of architects with large and varied practice. Apply stating age, experience and salary required to Box 2537.

ANCHESTER & LODGE urgently require an ARCHITECTURAL ASSISTANT nearing Final standard to assist on large and interesting University project. Write full particulars, 10, Woburn Square, London, W.C.L. 2534

LANCHESTER & LODGE urgently require a years' experience. Write full particulars, 10, Woburn Square, London, W.C.1. 2535

A BCHITECTS' co-partnership require qualified ASSISTANT with experience for University work. Write 44 Charlotte Street, W.1, or Telephone Langham 5791.

YOUNG qualified ASSISTANT required in Nottingham office. Position of responsibility in all aspects of private practice. Prospects of working partnership after probationary period. Salary according to age and experience. Box 2503.

A SSISTANT required in East Midland office.

Scope for drive and initiative. Write giving age, experience and salary required to Box 2504.

INTERMEDIATE standard ARCHITECTURAL ASSISTANT with domestic and industrial experience, etc., required for appointment early in 1959, by Building Contractors and Development Company, South Bucks. Write in confidence giving full details including age and expected salary to Box 2502.

NORMAN & DAWBARN invite applications from ASSISTANTS with at least three years' office experience. Write to: 7 Portland Place, W.1.

Place. W.1. 2501

PNTHUSIASTIC ASSISTANT required Write to Messrs. Godsmark & Miller-Williams, 37a Tubwell Row, Darlington.

UNIOR ASSISTANT required to Architect and Surveyor. Some experience and good draughtsmanship essential. Apply giving details of experience and salary required to Herbert Cox & Gear. Architects, 2 Harpenden Road, St. Albans. Herts.

NORTH-WEST MIDLAND BREWERY Architect requires ASSISTANT. Previous Brewery experience an advantage but not essential. Good prospects for a man of tact and enthusiasm. Pension fund operating. Salary by arrangement depending on age and experience but applicants in giving full details are requested to state present remuneration. Box 2522.

CHIEF ASSISTANT required for Architect's Practice in St. Albans. Possibility of working partnership subject to satisfactory service. Write giving particulars to Box 2520.

A RCHITECTURAL ASSISTANT, Intermediate standard, required for Architect's Practice in St. Albans. Salary by arrangement. Write giving particulars to Box 2521.

INTERMEDIATE ASSISTANT required in West End Office to work upon interesting industrial and commercial projects. Salary approximately £750 according to experience. Phone for appointment SLOane 0833.

Phone for appointment SLOane 0833.

PIELD & SHAW, 40, Station Road, North Harrow, Tel. Harrow 7502, require two ASSISTANTS, Intermediate to Final standard (one a lady). Good and speedy draughtsmanship essential: experienced in surveys. Work varied but largely housing development.

ENNETH WAKEFORD, JERRAM & Fenuire ARCHITECTURAL ASSISTANTS of Final and Intermediate standard; also Junior, First Year standard, for their London Office. Salary by arrangement. Five-day week. Apply for interview giving experience to 7, Connaught Place, W.2.

A RCHITECTURAL ASSISTANT required for interesting general practice. Intermediate standard. Must be capable of working with minimum of supervision. Apply stating age, experience and salary required to Malcolm H. Peck. A.R.I.B.A., 15 Friary Street. Guildford. Phone Guildford 66363.

COOD salary and prospects offered to keen man with architectural drawing office experience for detail design and site supervision of prefabricated structures, U.K. and abroad, write in first instance to Staff Architect, Mod.X Structures Ltd., 20, Lowndes Street, S.W.1. 2510

ENIOR ASSISTANT required in busy practice. Should have five years' experience in all stages of architectural work. Salary E700/2900 according to qualifications and experience. Applications to Raymond White & Ridley, 4, Temple Square, Aylesbury, Bucks.

RCHITECTURE AND HEATING & AIR
CONDITIONING. Large and progressive
firm of Heating and Air Conditioning Engineers
believes architectural qualification to be the best
road to successful development of its methods
and installations, which change progressively
and continuously in phase with development of
new architectural conceptions and methods of
building. It therefore offers responsible position
to qualified Architect, aged about 35 years, to
operate in this field after period of engineering
training. Salary £2,500. First class supersanuation scheme. Applicants should state age, training and experience. Applications treated in
strictest confidence. Reply 50 Box 20. J. W.
Courtenay Ltd., 12, Norfolk Street, W.C.2. 2509

POWELL AND MOYA require ARCHITEC-TURAL ASSISTANTS with office experience. Vacancies exist for all grades of Assistants, to work mainly on major hospital schemes. Salaries according to experience within the range £500—2500. Applications should be made in writing, giving particulars of training and experience, before Saturday, 17th January, to Powell and Moya, 36, Great Smith Street. London, S.W.L. 2483

RIEM of Architects, South-West England, require qualified senior Architect's Assistant, also junior Assistant. Please state experience, age and salary required to Box 2484.

SIR GUY DAWBER, FOX & ROBINSON require JUNIOR ASSISTANT with one year's experience and SENIOR ARCHITECTURAL ASSISTANT with final and two year's experience. No Saturdays, luncheon vouchers. Write, giving full particulars and salary required, to 122, Wigmore Street, W.1.

REDERICK GIBBERD's London office requires ARCHITECTURAL ASSISTANTS of both Intermediate and Final standard, for varied and interesting work. Salary £600-£800 according to experience. Apply in writing giving full particulars, to 8, Percy Street, London, W.1. 2480

COMPETENT ASSISTANT with several years' experience in housing required by the Bournville Village Trust. Good working conditions. Apply Chief Architect, Estate Office. Oak Tree Lane, Birmingham.

S P. JORDAN & PARTNERS (A/A) require
an Intermediate standard ASSISTANT.
CHA 7266 or write to 1, Bloomsbury Court, W.C.1.
2462

TRIPE & WAKEHAM, Chartered Architects, require ASSISTANTS with approximately three years' office experience. Telephone Welbeck 7744 or write 16 Fitzhardinge Street, W.1. for an appointment.

UALIFIED ARCHITECT required on the permanent staff of an expanding U.K. organisation. Must be capable of assuming rule responsibility for the design and erection of large Industrial Buildings. Initiative, drive and ability are essential qualifications. A car will be provided. State salary required to Box 2472.

EXPERIENCED ARCHITECTURAL ASSISdesign and a sound knowledge of building construction. All applications in writing please
with ful details. C. H. Elsom & Partners. 10
Lower Grosvenor Place, S.W.I.

# Architectural Appointments Wanted 4 lines or under, 9s. 6d.; each additional line, 9s. 6d. Box Number, including forwarding replies, 9s. extra

BUILDING SURVEYOR, A.R.I.C.S. (28), seeks position in busy architectural office in London, South West Home Counties or S.W. England. Box 2494.

ASSISTANT, aged 25, single, A.A. Dipl. (1957), seeks fresh experience in overseas post, preferably West Africa but elsewhere considered. Box 2493.

WEST INDIAN STUDENT, 29, beginner requires position; experience negligible. Salary unimportant. Box 2488.

# Other Appointments Vacant

4 lines or under, 9s. 6d.: each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. estra

REPRESENTATIVE, already calling on Architects and Builders, to carry line of Terrazzo and Allied Products. Write giving full particulars and terms required. Box 2307.

CO-OPERATIVE WHOLESALE SOCIETY LTD.
ARCHITECT'S DEPARTMENT, MANCHESTER
SENIOR SHOPFITTING DESIGNER required,
nisation of interiors. The position calls for the
preparation of layouts and perspectives with a
modern approach to store fitting problems. The
post is pensionable, subject to medical examination. Five-day week in operation. Applications
giving age, details of previous experience and
salary required to G. S. Hay, A.R.I.B.A., Chief
Architect, Co-operative Wholesale Society Ltd.. 1,
Balloon Street, Manchester, 4. 2242

EXPERIENCED SHOPFITTING DRAUGHTSMAN. An experienced designer/draughtsman
is required by leading and progressive shopfitters.
Write in first instance ref.: AJ/D., Courtney Pope
Ltd., Amhurst Park Works, Stamford Hill,
London, N.15.

A RCHITECTURAL DRAUGHTSMAN required by large Building Company in Cornwall. Applicants should have had at least 4 years' experience in a drawing office. Apply stating experience, age and salary required to Box 2549.

ARCHITECTURAL DRAUGHTSMAN required to Hox 2549.

ARCHITECTURAL DRAUGHTSMAN required for Manchester Office of Barclays Bank Limited engaged on interesting and varied work. The post is permanent and pensionable for suitable applicant of 25 years or over having sound experience in detailing. Reply giving particulars of age, experience and present salary to: Architectural Representative (Premises Department), Barclays Bank Limited, 41, Fourtain Street. Manchester, 2.

METROPOLITAN POLICE, Receiver's Office

TERUPOLITAN FORCE, RESULTS, PARCHITECTURAL

1. ARCHITECTURAL

WOMEN. Scale: £550 (age 21)—£370.

2. TECHNICAL ASSISTANT for New Works Group. Scale: £695 (age 26)—£370.

Starting pay according to age. Applicants to have Ordinary National Certificate or be of Intermediate R.I.B.A. standard. Five-day, 42-hour week, paid leave, canteen facilities. Apply giving qualifications, experience, age. and nationality to Room 5783, Receiver's Office, New Scotland Yard, S.W.I.

Tayperhenced A R C H I T E C T U R A L

EXPERIENCED ARCHITECTURAL DRAUGHTSMEN required by Bank Premises Department in Central Birmingham. Non-contributory pensions, permanent appointments. Box 2469.

SECRETARY, male or female, required in small architects' office in Bloomsbury, for secretarial and administrative duties. Messenger employed. Prospects of advancement. Five-day week. Salary by arrangement. Ring Langham 1002.

R EPRESENTATIVE, already calling on Architects and Builders, to carry extra line of Terrazzo and allied products. Box 2475.

of Terrazzo and allied products. Box 2475.

SENIOR SALES REPRESENTATIVE required to cover the North of England and Scotland territories—could be stationed at Head Office, Birmingham—by old established and progressive firm manufacturing lighting fittings and architectural metalwork to call on Architects, Iocal Authorities and Electrical Dealers. Vacancy offers first class opportunity for the right sort of man. Car provided. Apply in writing, stating age, full details of education, business experience and remuneration required to Best and Lloyd Ltd., Wattville Road, Handsworth, Birmingham. 21.

# Other Appointments Wanted

4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra

CHARTERED ELECTRICAL ENGINEER
B.Sc., A.M.I.E.E., with ten years' experience
of working for architects overseas, offers undertake drawing up of complete electrical specifications, with supervision of works progress if
required, for all types of building schemes.
Advertiser assures working personally with
architects. Please write to A. B. Tata, 1A.
Kingsway, Wembley, Middlesex.

# Services Offered

4 lines or under, 9s. 6d.: each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. estra

"DON" ARCHITECTURAL MODEL
MAKERS. We offer the highest grade
work with speed and reliability.—Please Phone
Brith 3843 or Hastings 1366. MODELS FOR ARCHITECTS. Charles Long-botham specialises in this work and offers first class personal service to architects in the London area. Northeroft Studio, Northeroft Road, West Ealing, W.13. Phone Baling 7349. INTERNATIONAL FIRM of consulting engineers prepared to enter into competition with developers and architects for development schemes. Box 1894.

THE SITE SURVEY COMPANY
Blackheath, S.E.S. Tel.: LEE Green 7444-5
Fully equipped to undertake urgent Engineering
and Architectural surveys in any part of the
country and abroad. Specialists in å in. scale
detailed surveys for extensive city development
areas.

1890

SURVEY of land or buildings, also drawings, specifications, quantities, final accounts. Estimates prepared for new, existing or conversion work. LIV. 1839.

CHARTERED ELECTRICAL ENGINEER,
B.Sc., A.M.I.E.E., with ten years' experience
of working for architects overseas, offers undertake drawing up of complete electrical specifications, with supervision of works progress if
required, for all types of building schemes.
Advertiser assures working personally with
architects. Please write to A. B. Tata, 1A,
Kingsway, Wembley, Middlesex.

### For Sale and Wanted

4 lines or under, 9s. 6d. : each additional line, 2s. 6d. Box Number, including forwarding replies, 2s.extra

DUMPY LEVEL and other survey equipment required. Box 2487.

### Miscellaneous

4 lines or under, 9s. 6d.: each additional line, 2s. 6d. Box Number, including forwarding replies, 2s.extra

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of Fencing, Gates Equipment.—Harvest Works, 96/107, St. Paul's Boad, N.I. Canonbury 2001.

CROGGON & CO., LTD.—Chain Link Fencing and all types of Wrought Iron Fencing supplied and erected.—230, Upper Thames Street, London, E.C.4. CENtral 4382.

A RCHITECTURAL METALWORK of all types supplied and fitted. Gates, doors, balustrades, staircases, steel structures. Design staff available.—Clayton & Bamber, Ltd., Cartersfield Road, Waltham Abbey, Essex.

HANDMADE, CLAY TILES available in many beautiful colours. The perfect roofing material with the longest life. Particulars, samples and brochure from G. Tucker & Son, Ltd., Loughborough, Leicestershire. Phones: Loughborough 2446/7.

# **Educational Announcements**

4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Bow Number, including forwarding replies, 2s.estra

R. I.B.A. and T.P.I. EXAMS.—Stuart Stanley G. (Ex. Tutor Sch. of Arch., Lon. Univ.), and G. A. Crockett, M.A./B.A., F./F.B.I.B.A., M./A.M.T.P.I., prepare Students by correspon-dence. 10, Adelaide Street, Strand, W.C.2. TBM. 1663/4.

TUITION—Correspondence and Personal Tuition given for the R.I.B.A. Institute of Builders and Clerk of Works Institute Examinations, also in all aspects of Building Engineering and Draughtsmanship. C. W. Box. P.B.I.B.A., 115. Gower Street, W.C.1. Buston 3996. 921

COURSES for all R.I.B.A. EXAMS.
Postal cuition in Draughtsmasship, Design, History,
Construction, Building Science, Structures, Materials,
Testimonies. Professional Practice, etc.
Also Courses for G.C.E.

ELLIS SCHOOL OF ARCHITECTURE Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A. 1838, Old Brompton Rd., London, S.W.7. and at Albany House, Worcester

# MODELS

for Architects & Civil Engineers by John B. Thorp

EST. 1883 98 GRAY'S INN ROAD, LONDON, W.C.1. Tel.: HOLborn 1011

precision cut from blue slate

The Bow Slate & Enamel Co. Ltd. **B.R.Bow Depot** Old Ford Rd. E.3 ADVance 2203

cills 0

copings flooring paving fireplaces surrounds skirtings stairtreads shelves

> If yo on b

Arch

the 1

over

or ty

in th

We

adve

cladding

DALE ELECTRIC 25, BRISTOL ROAD, BIRMINGHAM, 5. CAL. 3641

# Architectural Models

for

Completed Schemes, Planning Stage Models, Structural Design, Display Designers Prototypes, etc.

LYNCH & BAKER LTD. DISPLAY & MODELMAKING SERVICES 3 Mark Rd., Hemel Hempstead, Herts. Boxmoor 4788

> BROAD-ACHESON BLOCKS for unvarying quality with REVEAL BLOCKS for 44 & 3 STRUCTURAL SIZES



AJ enquiry service

If you require catalogues and further information on building products and services referred to in the advertisements appearing in this issue of the Architects' Journal please mark with a tick the relevant names given in the index to advertisers overleaf. Then detach this page, write in block letters, or type, your name, profession or trade and address in the space overleaf, fold the page so that the post-paid address is on the outside and despatch. We will ensure that your request reaches the advertisers concerned.

ding

ngs
ring
ing
places
counds
tings
rtreads

ves

IC

41

dek

ning

sign,

s, etc.

LTD.

ostead, noor 4788

N

ty

Postage
will be paid
by
Licensee

No Postage Stamp necessary if posted in Great Britain or Northern Ireland

BUSINESS REPLY FOLDER Licence No. S.W. 1761

FOLD HERE

THE ARCHITECTS' JOURNAL
9-13 Queen Anne's Gate
London, S.W.1.

POLF HERE

# Alphabetical index to advertisers

|  | PAGE     | CODE     | PAGE CODE PAGE   | 100     |      | COD        |
|--|----------|----------|--|---------|------|------------|
| Acme Flooring & Paving Co. (1904)                              |          |          | Galvo (Wire Netting,) Ltd 80 1111 National Association of Master   |         |      | O.D.       |
| Ltd  | 77       | 0004     |  | 9       |      | 040        |
| Airscrew Co. & Jicwood, Ltd., The                              | 41       | 0014     | Gay, R., & Co., Ltd  | 1       |      | 103        |
| Allom Heffer & Co., Ltd  | 71       | 0987     |  | 3       |      | 064        |
| Architectural Press, Ltd., The 74, 86, 8                       | 0 00     | 0686     |  | 8       |      | 040        |
| Associated Builders' Merchants Ltd.                            | 40       |          | Greenwood's & Airvae Ventila-<br>ting Co., Ltd   |         | -    | 041        |
| Association of Steel Conduit Manuf.                            | 53       |          |  |         | _    | 096        |
|  |          |          | Greenwood & Hughes, Ltd  | 3       |      | 041        |
|  |          |          | Gypsum Mines, Ltd. The 80 0264   |         |      |            |
| Batrev Board Co., Ltd  | 65       | 0582     |  | 1 1     |      | 082        |
| Batley, E., Ltd  | 86       | 0045     | The state of the s |         | _    | 082        |
| Bawn, W. B., & Co., Ltd  | 90       | 0047     |  |         |      |            |
| Bell, A., & Co., Ltd   | 91       | 0710     | Haskel Robertson, Ltd  | 0 5     | -    |            |
| Beves & Co., Ltd   | 57       | 0706     | Haskel Robertson, Ltd. 2 0277 Permafence, Ltd. 88 Henderson, P. C., Ltd. 62 0284 Permanent Sickness Insurance,   | 3       |      | 103        |
| Bilston Foundries, Ltd   | 64       | 0614     | La comment distribution,   | 2 1     |      | 101        |
| Black Sheathing Felt   | 33       | 0063     | Co., Ltd   | 1 [ 5 [ | =    | 101        |
| Boulton & Paul, Ltd  | 35       | 0072     | Hill, Richard, Ltd   | 5 1     | 7    | 116        |
| Bow Slate & Enamel Co., Ltd<br>British Bitumen Emulsions, Ltd. | 00       | 0739     | Hilger & Watts, Ltd  | 7 5     | =    | 105        |
| British Coking Industry Assoc.,                                | 10       | 0139     | Holoplast, Ltd   |         |      | 100        |
| The  | 50       | 1157     | Home Fittings, Ltd 84 0300   |         |      |            |
| Broad & Co., Ltd   | 96       | 0784     | Hope's Heating & Engineering   | 0 5     |      | 040        |
| Brooks Ventilation Units, Ltd                                  | -        |          | 71 -1 -01 -1 -1  |         | _    | 045        |
| Brown, Donald (Brownall), Ltd                                  | 47<br>82 | 0112     | Hope, Henry, & Sons, Ltd   | - 1     | -    | 044        |
|  |          |          | Rowe Industries (Kirby), Ltd 20  | ~ F     | _    | 107        |
|  |          |          |  | 1       | =    | 048        |
| Cape Building Products, Ltd                                    | 42       | 0120     |  | . [     |      | 0.80       |
| Catesbys Lino, Ltd   | 43       | 0125     | Imperial Chemical Industries   |         |      |            |
| Cement Marketing Co., Ltd                                      | 45       | 0128     | (Roadmaking) 69 1073   |         | _    |            |
| Central Electricity Generating                                 |          |          | Imperial Chemical Industries Secomastic, Ltd   | 9       | _    | 050        |
| Board, The   | 78       |          | (Plastics Division)  | 9 [     |      | 051        |
| Clay Lath  | 32       | 1076     |  | 8       |      | 052        |
| Colt Ventilation, Ltd  | 3        | 0146     | Stewart & Gray, Ltd  |         | mend | 076        |
| Colt Ventilation, Ltd. (Oil Burning)                           | 44       | 0720     | Stott, James, Ltd  | - 5     |      | 053        |
| Copperad, Ltd  | 59<br>82 | 0153     | Kay, William (Bolton), Ltd 84 0324 Sugg, William, & Co., Ltd 8   |         | _    | 053        |
| Crendon Concrete Co., Ltd                                      | 34       | 0168     | Key Engineering Co., Ltd., The 24, 25 U 0326   | . (     |      | -          |
| Tompton Tarkinson, Dut   | 0.2      | 0100     | Kenyon, William, & Sons, Ltd 82 0705   |         |      |            |
|  |          |          | Kerner-Greenwood & Co., Ltd 56 0325  | 0 5     | -    |            |
| Dale Electric Contractors (B'ham),                             |          |          |  | 8 [     |      | 054        |
| Ltd.   | 96       | 1062     | 2000 mi 7 7 7  |         |      | 054<br>055 |
| Davidson, C., & Sons, Ltd                                      | 46       | 0174     | KoLectric, Ltd 85 1158 Thorp, John B 96  | 0 [     | _    | 000        |
| Drynamels, Ltd   | 27       | 0680     |  |         |      |            |
| Duresco Products, Ltd  | 22       | 0197     |  |         | _    | . 1        |
|  |          |          | Vetrona Fabrics, Ltd   |         |      | 116        |
|  |          |          |  | 6 [     |      | 058        |
| Ecko-Ensign Electric, Ltd                                      | 20       |          | Libraco, Ltd   |         |      |            |
| Econa Modern Products, Ltd                                     | 85       | 0201     | Liquitile Supply Co., Ltd  |         |      |            |
| Ellis School of Architecture, The                              |          | 0212     | Walnamus Co Itd  | 4       | 7    | 058        |
| Evode, Ltd   | 5        | 0218     | Lynch & Baker, Ltd   | 1       |      | 058        |
|  |          |          | Walters, Austin & Son, Ltd 9   | 1       | Ō    | 107        |
|  |          | _        | Wednesbury Tube Co., Ltd   | 8       |      | 059        |
| FEB (Great Britain), Ltd                                       |          | 0226     | Williams & Williams, Ltd28, 2  |         |      | 081        |
| Falk Stadelmann & Co., Ltd                                     | 52       | 0223     |  | 5       |      | 060        |
| Federated Foundries Co., Ltd                                   | 70       | 0737     | McArd, Robert, & Co., Ltd  | 9       |      | 060        |
| Ferodo, Ltd.   | 60       | 0229     |  |         |      |            |
| Flextella Fencing & Engineering,                               | 77       | 0944     | Marley Concrete, Ltd   |         |      |            |
| Ltd.   | 36       | 0239     |  | 00      |      | 061        |
| Floor Treatments, Ltd  | 00       | 0200     | milier, william (westers), mer. 15 1155   mile and rease-probing co., mer.,  | 0       | ل    | 501        |
| For Appointments (Wanted or Va-                                | cant),   | Competit | ions Open, Drawings, Tracings, etc.,   |         |      |            |
| Education Local Nationa Missellan                              | eons     | Property | Land and Sales, see 92, 93, 94, 95, 96.  |         |      |            |

Write in block letters, or type, your name, profession and address below, and fold so that the post-paid address is on the outside.

| AME      |  |  |
|----------|--|--|
| OPESSION |  |  |
| DDRESS   |  |  |

99 🔲 0610

SUP 18 cubic

EXT 15

cubi

ENGINEERS AND CONTRACTORS

MEMBER OF THE BENTLEY GROUP

# YOURS for the Asking

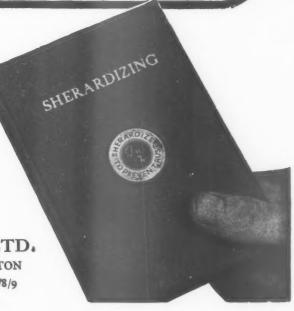
This book shows that maintenance considerations for the after-treatment or prevention of rust need not arise, where Sherardizing is specified. May, we send you a copy together with a reprint of the Architects' Journal Information Sheet, reference Corrosion prevention 40 B1?

EATING , VENTILATING

# SHERARDIZING

ZINC ALLOY RUST-PROOFING CO. LTD.

SHAKESPEARE STREET, WOLVERHAMPTON TELEPHONE: WOLVERHAMPTON 20647/8/9 ALSO AT LONDON & ROCHDALE





99

AND AIR CONDITIONING

BARKBY ROAD, LEICESTER. TELEPHONE: LEICESTER 66651

JOHN LAING AND SON LIMITED ANNOUNCE

# LAINGSPAN

# FOR SCHOOL CONSTRUCTION

LAINGSPAN is a new, complete system of construction for the frame and external cladding of schools, and is equally suitable for hospitals, office blocks and similar buildings.

LAINGSPAN is based on the use of precast and prestressed modular components of high grade concrete, designed for easy handling and rapid assembly and erection on site.

LAINGSPAN offers substantial savings in overall construction time, and reduction in building costs.

LAINGSPAN combines the economic advantages of standardised prefabrication with scope for architectural initiative, through the flexibility of the modular components and the wide choice of cladding materials available.

A booklet about Laingspan is available on request to John Laing and Son Limited London NW7

LAINGSPAN

